

# Canadian Catalog and Price List

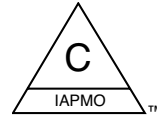
Specification Drainage Products



Effective April 21, 2025

All prices supersede previous issues, are temporary and subject to change without notice.

# Drainage Products Standards



**American National Standards Institute (ANSI)**  
**American Society of Sanitary Engineering (ASSE)**  
**Plumbing & Drainage Institute (PDI)**  
**International Association of Plumbing and Mechanical Officials (IAPMO)**

| Product Group          | ANSI           | ASSE      | CSA    | PDI    | IAPMO          |
|------------------------|----------------|-----------|--------|--------|----------------|
| Fixture Carriers       | A112.6.1M-97   |           |        |        | A112.6.1M-97   |
| Floor Drains           | A112.6.3-01    |           |        |        | A112.6.3-01    |
| Floor Sinks            | A112.6.7-2001  |           |        |        | A112.6.7-2001  |
| Roof Drains            | A112.6.4-2003  |           |        |        | A112.6.4-2003  |
| Wall Hydrants          |                | 1019-2004 |        |        | 1019-2004      |
| Water Hammer Arrestors |                | 1010-04   |        | WH-201 | 1010-04        |
| Cleanouts              | A112-36.2M-91  |           |        |        | A112-36.2M-91  |
| Trap Seal Primers      |                | 1018-2001 |        |        | 1018-2001      |
| Grease Interceptors    | A112.14.3-2000 |           | B481.1 | G-101  | A112.14.3-2000 |
| Solids Interceptors    |                |           |        |        | IGC167-2011    |

**Drainage Products Division**  
**A Watts Water Technologies Company**  
**Canadian Sales Office**  
**5435 North Service Road • Burlington, ON • L7L 5H7**  
**Toll Free Customer Service Phone: 1-888-208-8927**  
**Toll Free Customer Service Fax: 1-(905)-481-2316**  
**Watts.ca**

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## Common Suffixes

| Numeric Suffixes  |                            | Alpha Suffixes |                           |             |                    |
|---|----------------------------|----------------|---------------------------|-------------|--------------------|
| <b>Code</b>   | <b>Description</b>         | <b>Code</b>    | <b>Description</b>        |             |                    |
| -1  | Nickel Bronze              | -21            | Secondary Strainer        |             |                    |
| -3  | Stainless Steel            | -28 All Type   | 304 Stainless Steel       |             |                    |
| -4  | Ductile Iron               | -33            | Less Grate                |             |                    |
| -5  | Sediment Bucket            | -34            | Closure Plug              |             |                    |
| -6  | Vandal Proof               | -38            | Solids Retaining Baffle   |             |                    |
| -7  | Trap Primer Tapping        | -81            | Bronze Dome               |             |                    |
| -8  | Ball Float Backwater Valve | -83            | SS Screen                 |             |                    |
| -9  | Hinged Grate               | -88            | Wall Clamp                |             |                    |
| -12   | Galvanized                 | -101           | Solid Nickel Bronze       |             |                    |
| -14   | Flat Grate                 | -128           | Grate w/Center Opening    |             |                    |
| -15   | Strainer Extension         | -150           | Half Grate                |             |                    |
|   |                            | -175           | 3/4 Grate                 |             |                    |
| Outlet Description  |                            |                |                           |             |                    |
|   |                            | <b>Code</b>    | <b>Description</b>        |             |                    |
| <b>Note: All Drainage products are supplied with NH (No Hub) connections standard unless otherwise indicated.</b> |                            | -P             | Push-On                   |             |                    |
|   |                            | -T or -THD     | IPS Threaded              |             |                    |
|   |                            | -X             | Inside Caulk              |             |                    |
|   |                            | -60            | PVC Socket                |             |                    |
|   |                            | -61            | ABS Socket                |             |                    |
|   |                            | <b>Code</b>    | <b>Description</b>        | <b>Code</b> | <b>Description</b> |
|   |                            | -A             | 45 Degree Outlet          | -K80        | Aluminum Dome      |
|   |                            | -A             | Accutrol Flow Restrictor  | -K81        | Bronze Dome        |
|   |                            | -AL            | Aluminum Cover            | -K83        | SS Screen Dome     |
|   |                            | -B             | Sump Receiver             | -L          | Vandal Proof       |
|   |                            | -C             | Membrane Clamp            | -M1         | Extended Nipple    |
|   |                            | -CF            | Carpet Clamping Flange    | -M11        | Tiling Frame       |
| -D  | Deck Clamp                 | -M20           | Flush Valve Support       |             |                    |
| -DS   | Dome Strainer              | -M23           | Right Side Inlet          |             |                    |
| -E  | Electronics                | -M24           | Left Side Inlet           |             |                    |
| -X  | Per Inch Extn              | -M54           | 2" Escutcheons            |             |                    |
| -F  | Deck Flange                | -M55           | 4" Escutcheons            |             |                    |
| -F4-1   | 4" Round NB Funnel         | -M60           | Flush Valve Support       |             |                    |
| -F4-50  | 4" Round Cast Iron Funnel  | -O             | Non-Standard Inlet/Outlet |             |                    |
| -F6-1   | 6" Round NB Funnel         | -Q             | Special                   |             |                    |
| -FC   | Flange & Clamp             | -R             | External Water Dam        |             |                    |
| -G-1  | 4" x 9" Oval NB Funnel     | -S0            | Side Outlet               |             |                    |
| -G-50   | 4" x 9" Oval C.I. Funnel   | -SS            | Stainless Steel           |             |                    |
| -GSS  | SS Ballast Guard           | -TG            | Top Grate                 |             |                    |
| -HD   | Heavy Duty                 | -US            | Buy American Compliant    |             |                    |
| -HS   | Hub & Spigot               | -VB            | Vacuum Breaker            |             |                    |
| -K  | Cylinder Lock              | -W             | 4" Internal Water Dam     |             |                    |
| -K  | Ductile Iron Dome          | -W2            | 2" Internal Water Dam     |             |                    |
| -K13  | Galvanized Dome            | -Y             | Fixed Top                 |             |                    |
| -K40  | Ductile Iron Low Dome      |                |                           |             |                    |

### NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

## Terms & Conditions

### **FREIGHT TERMS:**

All shipments are F.O.B. shipping point. Shipments from the factory of less than \$4,500.00 net are F.O.B. factory. Factory shipments over \$4,500.00 net will be prepaid and allowed within Canada when made at the lowest motor carrier transportation rate. Short shipments and/or damaged goods must be reported within 72 hours.

### **PAYMENT TERMS:**

Invoices are due and payable 30 days from the date of invoice.

### **STOCKING WHOLESALER MINIMUM CHARGE:**

A minimum billing charge of \$75.00 applies to shipments F.O.B. factory. Stocking Wholesaler Customers are encouraged to order sufficient material to avoid this charge which is necessitated by increased costs of processing small orders.

### **SPECIAL PRODUCTS:**

Orders for special or modified products are non-cancelable and non-returnable.

### **LIMITED WARRANTY:**

This limited warranty is provided by WATTS Water Technologies (Canada) Inc., 5435 North Service Road Burlington, Ontario, Canada L7L 5H7 (the "Company"). The Company warrants each product to be free from defects in material and workmanship under normal usage for a period of one year from the date of original shipment. In the event of such defects within the warranty period, the Company will, at its option, replace or recondition the product without charge.

This warranty may be transferred to subsequent product owners.

Subject to applicable laws, including consumer protection legislation, the limited warranty set forth above is given expressly and is the only warranty given by the Company with respect to the product. The Company makes no other warranties, express or implied. The Company hereby specifically disclaims all other representations, warranties or conditions, express or implied, including but not limited to the implied representations, conditions and warranties of merchantability and fitness for a particular purpose.

Subject to applicable laws, including consumer protection legislation, the remedy described in the first paragraph of this warranty shall constitute the sole and exclusive remedy for breach of warranty, and the Company shall not be responsible for any incidental, special or consequential damages, including without limitation, lost profits or the cost of repairing or replacing other property which is damaged if this product does not work properly, other costs resulting from labour charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse water conditions, chemical, or any other circumstances over which the Company has no control. The Company shall not be responsible for shipping or freight charges associated with warranty claims.

The warranty set forth above shall be invalidated by any abuse, misuse, misapplications, improper installation or improper maintenance or alteration of the product.

For claims within the warranty period, contact the Company at 1-888-208-8927.

### **THE COMPANY MAKES NO OTHER WARRANTIES EXPRESS OR IMPLIED EXCEPT AS PROVIDED IN THIS LIMITED WARRANTY.**

### **RETURNED GOODS RESTOCKING CHARGE:**

Returned products will only be accepted from customers in Canada. No material shall be returned without authorization. When credit is issued it will be at the price charged, or prevailing price, if lower, less handling charges based on costs of reconditioning, boxing, etc. Restocking charges will apply. A minimum handling charge equal to the greater of 25% of the original purchase price or \$50.00 will apply. Products which are obsolete or made to special order are not returnable. **NOTE:**

Prices and terms are subject to change without notice and supersede all previous quotations. The right is reserved to change or modify product design or construction without prior notice and without incurring any obligation to make such changes and modifications on products previously or subsequently sold.

**WATTS Water Technologies (Canada) Inc.** reserves the right to modify or change product design or construction without prior notice and without incurring any obligation to make similar changes and modifications to products previously or subsequently sold.

**See your WATTS representative for any clarification.**

# Examples of WATTS Drainage Alpha/Numeric Suffix System

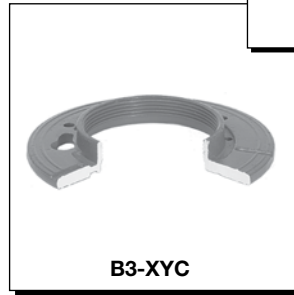
## Floor Drains With Adjustable Strainers

**Components:**

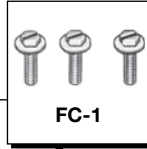


B3 Body, 3" Push-on connection standard with trap primer tapping.

+

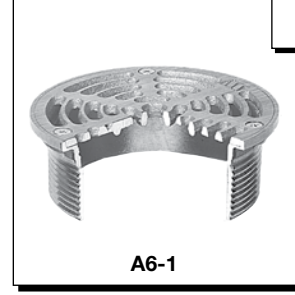


Reversible clamp collar, attached with FC-1 hardware.

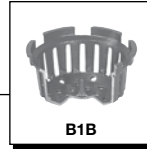


FC-1

+

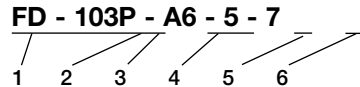


6" diameter nickel bronze strainer standard with vandal proof screws.



B1B

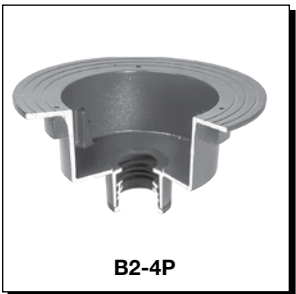
**Alpha/Numeric Description**



- 1. Series Number ..... - FD-100
- 2. Outlet Size..... - 3" Outlet
- 3. Outlet Type..... - Push-On Outlet - Suffix "P"
- 4. Strainer ..... - Type "A6" Strainer.
- 5. Option ..... - Sediment Bucket - Suffix "-5"
- 6. Option ..... - Trap Primer Tapping - Suffix "-7"

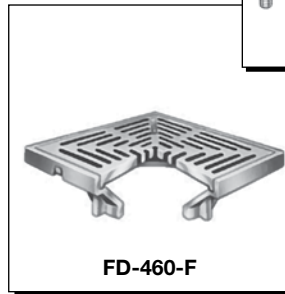
## Area Drains

**Components:**

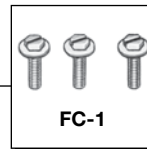


B2 Body, 4" Push-on Connection

+

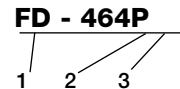


Fixed top assembly with ductile iron grate, attached with FC-1 hardware.



FC-1

**Alpha/Numeric Description**



- 1. Series Number ..... - FD-460-F
- 2. Outlet Size ..... - 4" outlet
- 3. Outlet Type..... - Push-on



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## Examples of WATTS Drainage Alpha/Numeric Suffix System

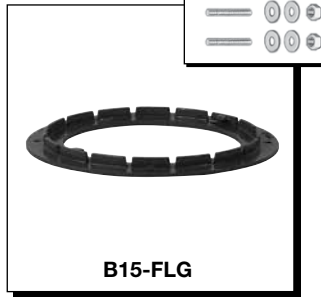
### Roof Drains

Components:



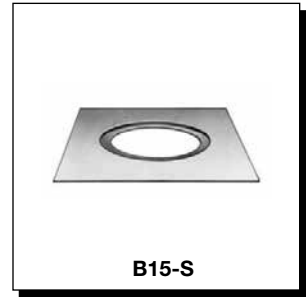
**B15-6**

B15 Body, 6" no hub connection.



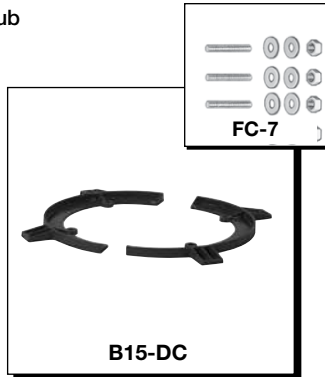
**B15-FLG**

Flashing Clamp w/Integral Gravel stop, attached with FC-6 Hardware.



**B15-S**

24" x 24" Sump Receiver



**B15-DC**

Underdeck Clamp with FC-7 hardware.



**B2-DM**

Poly dome standard

Alpha/Numeric Description:

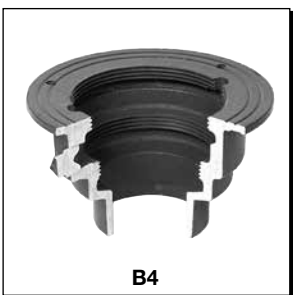
**RD - 306 - B-D**

1     2     3     4     5

1. Series Number ..... - RD-300
2. Outlet Size..... - 6" Outlet
3. Outlet type ..... - (Standard) No Hub
4. Option ..... - B Sump Receiver
5. Option ..... - D Underdeck Clamp

### Cleanout With Adjustable Top

Components:



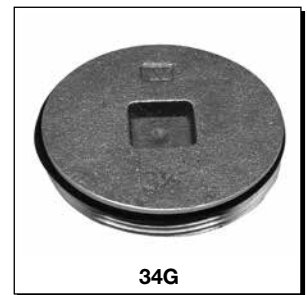
**B4**

B4 Standard Body 4" No Hub Connection



**RX-1**

5" dia. heavy duty nickel bronze top, standard with vandal proof screws



**34G**

Gas-tight gasketed plastic cleanout plug

Alpha/Numeric Description

**CO - 204 - RX**

1     2     3     4

1. Series Number ..... - CO-200
2. Outlet Size..... - 4" Outlet
3. Outlet Type ..... - (Standard) No Hub
4. Top ..... - Type RX strainer

Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.



# Floor And Area Drains

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- Pictorial Index
- Recommendations
- Floor Drain Selection Factors
  - Materials
  - Pipe Connections
  - Load Ratings
  - Grate Free Area
  - Design Considerations
  - Commonly Specified Options
- Typical Installations



# Floor And Area Drains

## Pictorial Index



**FD-100-C-A**  
Round Strainer



**FD-100**  
HD Round Strainer



**FD-190-PR**  
Pronto!® Cast Iron Adj. Floor  
Drain w/Integrated Level



**FD-190-PR-60**  
Pronto!® PVC Adj. Floor  
Drain w/Integrated Level



**FD-100-AS**  
Angle Strainer



**FD-100-DD**  
Hub Funnel



**FD-100-EF**  
Round Funnel



**FD-100-EG**  
Oval Funnel



**FD-100-ER**  
Extended Rim Strainer



**FD-100-FC**  
Surface Membrane Clamp



**FD-100-H**  
Elastomeric Flange



**FD-100-K**  
Dome Strainer



**FD-100-L**  
HD Square Strainer



**FD-100-RS**  
Rectangular Strainer



**FD-100-VD**  
Solid Hinged Cover



**FD-100-VS**  
Square Hinged Solid Cover

Consult factory for all applications outside of listed parameters.  
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**WATTS®**



# Floor And Area Drains

## Pictorial Index



**FD-100-WD**  
Domed Standpipe

No Photo  
Available

**FD-100-C-XH**  
HD Round Strainer



**FD-160-C**  
Floor Drain w/Side Outlet  
for Membrane Floor



**FD-200**  
HD Round Strainer



**FD-200-A**  
Round Strainer



**FD-290-PR**  
Pronto!® Cast Iron Adj. Floor  
Drain w/Integrated Level



**FD-290-PR-60**  
Pronto!® PVC Adj. Floor  
Drain w/Integrated Level



**FD-200-AS**  
Angle Strainer



**FD-200-DD**  
Hub Funnel



**FD-200-EF**  
Round Funnel



**FD-200-EG**  
Oval Funnel



**FD-200-ER**  
Extended Rim Strainer



**FD-200-FC**  
Surface Membrane Clamp



**FD-200-H**  
Elastomeric Tile Flange



**FD-200-K**  
Dome Strainer



**FD-200-L**  
HD Square Strainer



Consult factory for all applications outside of listed parameters.  
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# Floor And Area Drains

## Pictorial Index



**FD-200-RS**  
Rectangular Strainer



**FD-200-VD**  
Solid Hinged Cover



**FD-200-VS**  
Square Hinged Solid Cover



**FD-200-WD**  
Domed Standpipe



No Photo Available

**FD-200-XH**  
Round HD Strainer



**FD-220-C**  
Floor Drain w/Integral Trap  
for Membrane Floor



**FD-230-A**  
Combination



**FD-240**  
Prison Cell



**FD-300**  
6-1/2" Adjustable Top



**FD-310**  
6-1/2" Fixed Top



**FD-320**  
8" Adjustable Top



**FD-320-SET**  
8" Adjustable Top



**FD-320-25**  
Detention Area Floor Drain  
w/Tamper Resistant Cover



**FD-320-Y**  
8" Fixed Top



**FD-320-Y-SET**  
8" Fixed Top



**FD-330**  
8x8" Adjustable Top

Consult factory for all applications outside of listed parameters.  
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# Floor And Area Drains

## Pictorial Index



**FD-330-Y**  
8x8" Fixed Top



**FD-340**  
12" Adjustable Top



**FD-340-SET**  
12" Adjustable Top



**FD-340-Y**  
12" Fixed Top



**FD-340-Y-SET**  
12" Fixed Top



**FD-340-67**  
Floor Drain For  
Pre-Cast Slabs



**FD-360**  
15" Adjustable Top



**FD-360-Y**  
15" Fixed Top



**FD-380**  
Adjustable Wood Floors



**FD-390**  
Floor Drain with 7" Heavy  
Duty Strainer



**FD-410**  
Parking Area  
Catch Basin



**FD-430**  
Side Outlet



**FD-450**  
15x15" Adjustable Top



**FD-450-F**  
15x15" Fixed Top



**FD-460**  
12x12" Adjustable Top



**FD-460-F**  
12x12" Fixed Top



Consult factory for all applications outside of listed parameters.  
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# Floor And Area Drains

## Pictorial Index



**FD-490-F-4**  
Parking Structure



**FD-490-F-80**  
Aluminum Parking  
Structure Heavy Duty



**FD-520**  
Side Outlet Parking Area



**FD-530**  
Parking Area Drain



**FD-540**  
Bottom Outlet  
Parking Area



**FD-600**  
Unfinished Area Isolation



**FD-620**  
Finished Area Isolation



**FD-660**  
PVC 7" Fixed Top



**FD-670**  
PVC 10" Fixed Top



**FD-750**  
Gutter Drain with  
6" x 16" Top



**FD-760**  
Cast Iron Gutter Drain  
with 6" x 12" Top



**FD-810**  
Iowa Garage Drain



**FD-820**  
Flushing Rim



**FD-830**  
Hopper Drain



**FD-850**  
Planting Area Drain with  
Dome Cap



**FD-860**  
8" Planting Area

Consult factory for all applications outside of listed parameters.  
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**WATTS**<sup>®</sup>

# Floor And Area Drains

## Pictorial Index



**FD-870**  
12" Planting Area



**FD-870-TG**  
Planting Area Drain with  
Deck Level Drainage Grate



**FD-880**  
Ground Water  
Containment Drain



**FD-890**  
Planter Drain with  
Removable Cover



**FD-900**  
12" Precast Parking Deck



**FD-910**  
15" Precast Parking Deck



**FD-920**  
8" Precast Parking Deck



**FD-930**  
Sq. Precast Parking Deck



**FD-1100**  
HD Round SS Strainer



**FD-1100-A**  
Round SS Strainer



**FD-1100-A-LR**  
Floor Drain w/Ligature  
Resistant Round Strainer



**FD-1190-PR**  
Pronto!® Cast Iron Adj. Floor  
Drain w/Integrated Level



**FD-1190-PR-60**  
Pronto!® PVC Adj. Floor  
Drain w/Integrated Level



**FD-1100-ER**  
SS Extended Rim Strainer



**FD-1100-L**  
HD Square SS Strainer



**FD-1100-M-LR**  
Floor Drain w/Ligature  
Resistant Square Strainer



Consult factory for all applications outside of listed parameters.  
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# Floor And Area Drains

## Pictorial Index



**FD-1160**  
Chemical Resistant



**FD-1200**  
HD Round SS Strainer



**FD-1290-PR**  
Pronto!® Cast Iron Adj. Floor  
Drain w/Integrated Level



**FD-1290-PR-60**  
Pronto!® PVC Adj. Floor  
Drain w/Integrated Level



**FD-1200-ER**  
SS Extended Rim Strainer



**FD-1200-L**  
HD Square SS Strainer



**TD-300**  
Elevator Trench Drain



**FD-Funnels**  
Bolt-On Funnels

# Floor And Area Drains

## Recommendations

### Application

### Product

|   |  |
|---|--|
| Basement Areas.....                           | FD-300, FD-310-Y, FD-320(-Y), FD-320(-Y)-SET                       |
| Carwash & Sediment Collection Areas.....      | FD-410, also see Dead Level® Catch Basins                          |
| Clinical & Surgical Areas.....                | FD-1100(-28) Series, FD-820, also see BLÜCHER                      |
| Condensate & Drip Lines (indirect waste)..... | FD-100-DD, FD-100-EF, FD-100-EG, FD-200-DD, FD-200-EF, FD-200-EG   |
| Rubberized Sheet Flooring.....                | FD-100-FC, FD-200-FC   |
| Rubberized Poured Flooring.....               | FD-100-H, FD-200-H   |
| Floating Slabs.....                           | FD-600, FD-620   |
| Food Preparation Areas.....                   | FD-1100 Series, also see Sanitary Floor Sinks                      |
| Garage & Service Bays.....                    | FD-430, FD-450(-F), FD-460(-F), also see Dead Level® Trench Drains |
| Industrial & Warehouse Areas.....             | FD-320(-Y), FD-330(-Y), FD-340(-Y), FD-460(-F)                     |
| Outdoor Parking Areas.....                    | FD-530, also see Dead Level® Trench Drains                         |
| Planting Areas.....                           | FD-850, FD-860, FD-870, FD-880, see also Green Roof Drains         |
| Parking Decks Poured.....                     | FD-490-F-4   |
| Parking Decks Precast.....                    | FD-900, FD-910, FD-920, FD-930                                     |
| Prison Cells.....                             | FD-240   |
| Sanitary Manufacturing Areas.....             | FD-1100, FD-1200 Series, also see BLÜCHER                          |
| Shower Areas.....                             | FD-100, FD-1100 Series   |
| Stairwells.....                               | FD-100, FD-200 Series  |
| Wood Floors.....                              | FD-380, FD-390-E-63  |

## Floor Drain Selection Factors

### Materials

#### Cast Iron Epoxy Coated\*

Industrial grade cast iron, finished with Watts gray acid resistant coating.

*Note: \*Watts Drainage standard epoxy coating is designed for interim protection of iron components during processing, shipping, and construction. It is not intended to protect surfaces subject to traffic, or environmental conditions. Exposed iron surfaces should be expected to show surface oxidation (rusting) after a short period of time.*

#### Nickel Bronze

Nickel Bronze alloy is homogenous, highly resistant to wear, and will not be discolored by weather or traffic. Appearance is silvery, and compliments most interior and exterior finishes.

#### Stainless Steel

In accordance with ASTM A-351-Grade CF8 (Type 304) standard specification. Highly durable and resistant to corrosion.

#### Ductile Iron Epoxy Coated\*

Superior impact resistance and durability compared to standard cast iron. Watts supplies ductile iron drain grates standard, finished with gray acid resistant epoxy coating.

#### PVC or ABS

Most floor and area drains can be specified with optional PVC (-60) or ABS (-61) plastic bodies for direct sch. 40 solvent weld connection.

### Pipe Connections

#### No Hub (Standard)

Butt connection using a no hub or neoprene coupling. Suitable for cast iron, plastic, and most other piping applications.

#### Push-on

ASTM C-564 gasket connection, with pipe stop. Suitable for no hub or service weight cast iron, sch. 40 plastic, and steel pipe. Not recommended for above grade.

#### Inside Caulk (-X)

Used for lead and oakum joints, pipe is inserted through a caulk ring on the drain outlet.

#### PVC (-60) or ABS (-61) Socket

For direct solvent weld connection to sch. 40 plastic pipe.

#### Threaded (THD)

Female threaded outlet for connection to IPS threaded pipe.



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Floor And Area Drains

## Floor Drain Selection Factors

### Load Ratings

Load ratings are based upon maximum anticipated traffic, in accordance with American National Standards AMSE A112.21.1M. See specification pages for specific load rating data.

**Light Duty (LD)** - safe live load under 2000 lbs.

**Medium Duty (MD)** - safe live load 2000-4999 lbs.

**Heavy Duty (HD)** - safe live load 5000-7499 lbs.

**Extra Heavy Duty (XHD)** - safe live load 7500-10,000 lbs.

**Special Duty** - safe live load over 10,000 lbs.

### Grate Free Area

Drains should be specified with sufficient grate free area and outlet size to pass anticipated flow. For standard indoor applications, the grate free area should equal 1-1/2 times the transverse area of the connecting pipe. In exterior areas, the grate free area should be twice the transverse area of the connecting pipe.

Recommended Free Area

| Pipe Size | Transverse Sq. In. | Interior Free Area Sq. In. | Exterior Free Area Sq. In. |
|-----------|--------------------|----------------------------|----------------------------|
| 2"        | 3.14               | 4.71                       | 6.28                       |
| 3"        | 7.06               | 10.59                      | 14.12                      |
| 4"        | 12.50              | 18.75                      | 25.00                      |
| 5"        | 19.60              | 29.40                      | 39.20                      |
| 6"        | 28.30              | 42.45                      | 56.60                      |
| 8"        | 50.25              | 75.38                      | 100.50                     |

### Design Considerations

#### Finished / Unfinished Areas

Finished area top specifications should be nickel bronze, or optional stainless steel. Ductile iron is typically used in unfinished areas, where appearance is not a primary concern.

#### Fixed / Adjustable Tops

Adjustable top drains enable vertical adjustment of the strainer or top assembly, to more easily match the finished floor level.

#### Heel Proof / ADA Grate Openings

All standard floor and area drains are supplied with heel proof, ADA compliant 5/16" grate openings. Consult product specifications for parking area drain applications.

#### Weep Holes / Double Drainage

All standard floor and area drains are designed with weep holes for "double drainage". Water seeping around the outside of the drain filters through the weepholes, and back into the drain sump. This protects the immediate area surrounding the drain from deterioration.

### Commonly Specified Options

#### -5 Sediment Bucket

Catches large debris at the drain, protects the p-trap from becoming clogged with accumulated debris.

#### -6 Vandal Proof

Grate secured with Allen Head screws. Security screws (Torx & Pin) may be specified for high security applications.

#### -7 Trap Primer Tapping

Plugged 1/2" threaded inlet on drain body, for connection to trap primer valve (see Watts #LFTP300-DR).

#### -8 Backwater Valve (2", 3", 4" Only)

Ball float backwater valve with no hub connections, attaches to drain outlet to prevent back-up damage in low pressure applications.

#### -9 Hinged Grate

Available on select square top drains, provides easy access to sediment buckets or drain lines requiring regular maintenance.

#### -12 Galvanized

Standard zinc galvanizing, commonly specified above grade in highly corrosive coastal environments or industrial areas.

#### -15 Strainer Extension

For FD-100 & FD-200 Series floor drains, extends strainer to accommodate thick slabs and special applications.

#### -21 Secondary Strainer

Fits in bottom of drain body, secondary protection against debris that bypasses sediment bucket.

#### -C Membrane Clamp

Specified in floors with a waterproofing membrane. On most Watts floor and area drains, the waterproofing membrane is clamped between the drain body and bolt-on collar, so a separate membrane clamp is not required.

#### -F4-50, -F4-1, -F6-1 Round Funnel

4" dia. cast iron or nickel bronze, 6" dia. nickel bronze round funnels to accept single condensate lines. Bolt supplied to attach funnel through underside of the grate.

#### -G-50, -G-1 Oval Funnel

4"x9" cast iron or nickel bronze oval funnel, to accept multiple condensate lines. Bolt supplied to attach funnel through underside of the grate

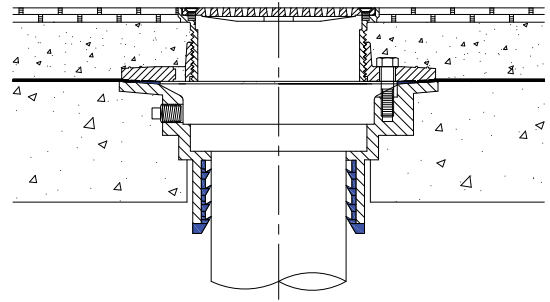
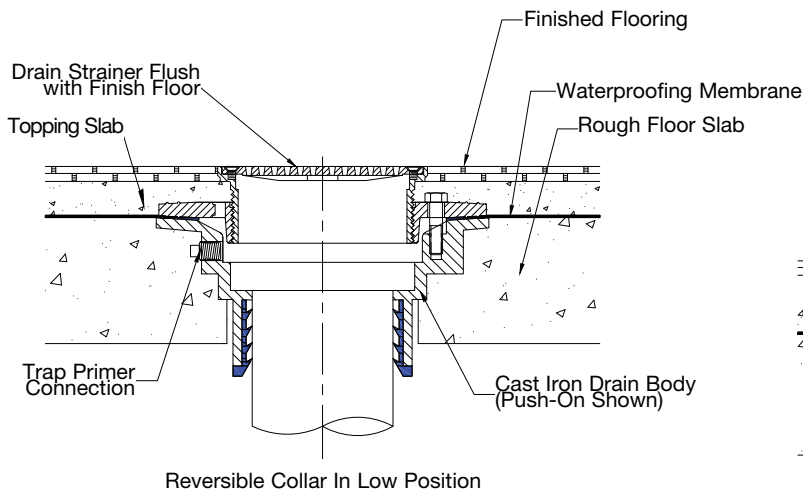
#### -US Buy American Compliant

Product will be supplied with minimum 51% domestic content, in compliance with FAR 52.225-9 Buy American Act



# Floor And Area Drains

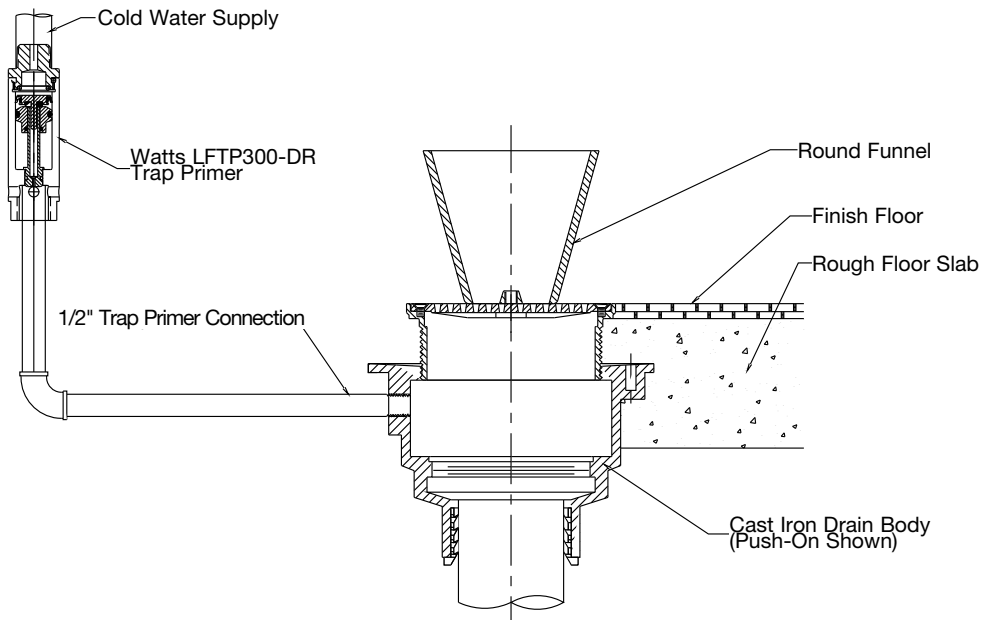
## Typical Installations



### FD-100 SERIES

ADJUSTABLE FLOOR DRAIN ABOVE GRADE

Reversible Collar In High Position



### FD-200 SERIES

ADJUSTABLE FLOOR DRAIN ON GRADE W/TRAP PRIMER

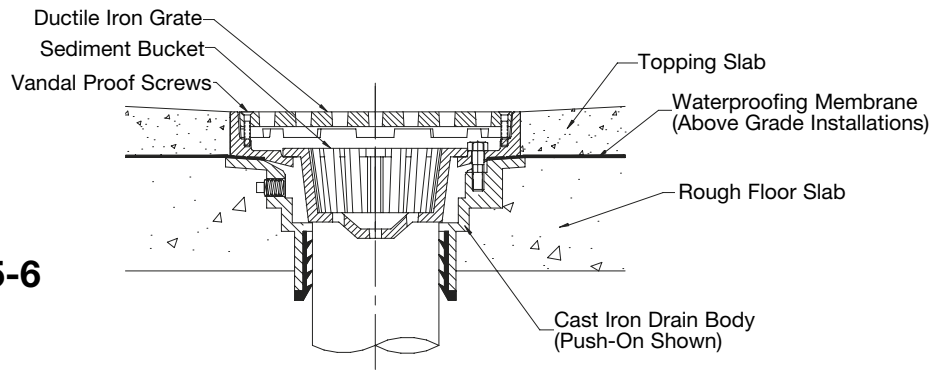


Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

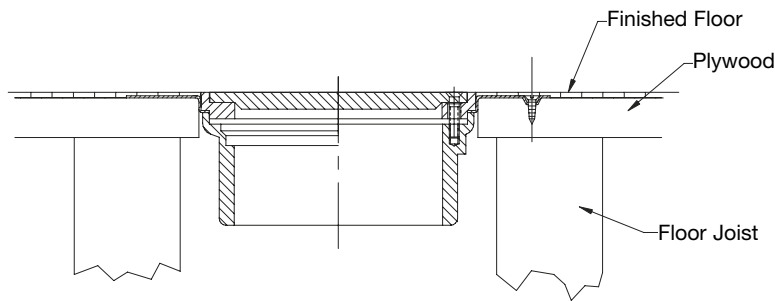
# Floor And Area Drains

## Typical Installations

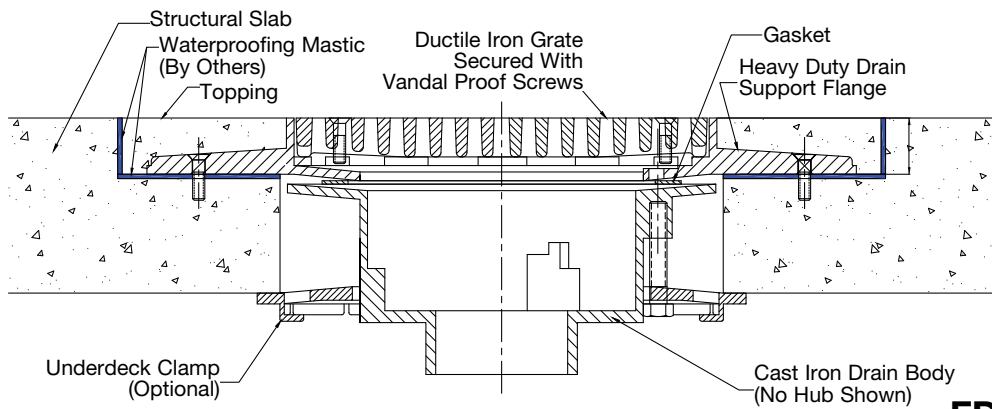
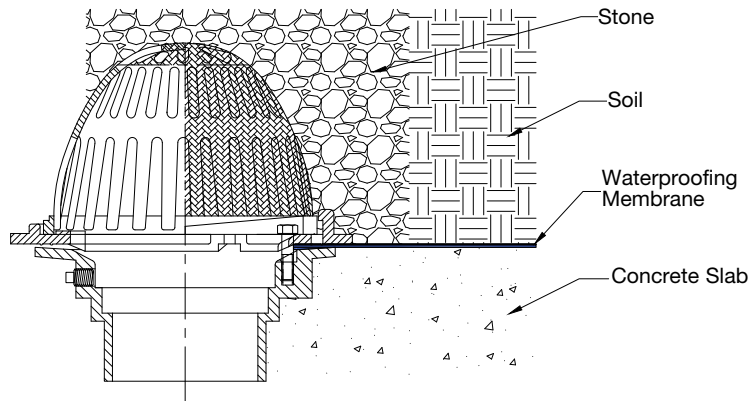
**FD-320-Y-5-6**  
AREA DRAIN



**WWDFD**  
WOODEN FLOORS



**FD-860**  
PLANTER AREA



**FD-900**  
PRECAST PARKING DECK

Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

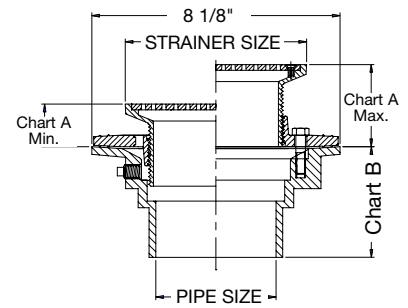


# Finished Area Floor Drains

## FD-100-C-A Floor Drain with Round Strainer



| Model Number      | Weight (lbs.) | Str. Size | Pipe Size | Strainer      | List Price |
|-------------------|---------------|-----------|-----------|---------------|------------|
| FD-102, 3, 4-C-A5 | 11            | 5"        | 2, 3, 4"  | nickel bronze | \$413.90   |
| FD-102, 3, 4-C-A6 | 12.5          | 6"        | 2, 3, 4"  | nickel bronze | 532.90     |
| FD-102, 3, 4-C-A7 | 14            | 7"        | 2, 3, 4"  | nickel bronze | 698.15     |



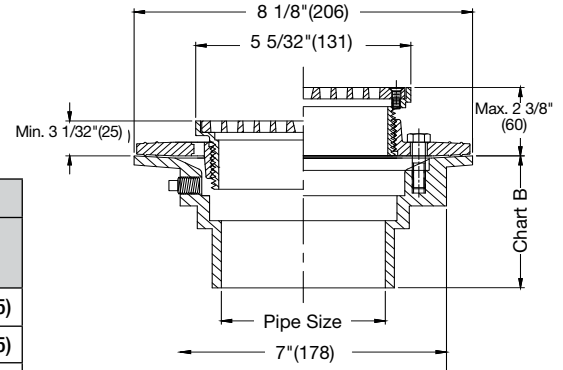
| Chart A  |        |        |
|----------|--------|--------|
| Strainer | Min.   | Max.   |
| 5"       | 13/16" | 3 1/4" |
| 6"       | 7/8"   | 3 3/8" |
| 7"       | 11/16" | 3 1/4" |
| 8"       | 7/8"   | 3 1/4" |
| 10"      | 1 1/4" | 3 1/4" |

| Chart B   |        |         |               |              |         |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 3"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 4"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 6"        | 3 1/2" | -       | -             | -            | -       |

## FD-100-C-XH Floor Drain with Round Heavy Duty Strainer



| Model Number   | Wt., Lbs. | Str. Size | Pipe Size   | Strainer     | List Price |
|----------------|-----------|-----------|-------------|--------------|------------|
| FD-100-C-XH5-1 | 12        | 5"        | 2, 3, 4, 6" | Solid NB     | \$627.34   |
| FD-100-C-XH5-4 | 14        | 5"        | 2, 3, 4, 6" | ductile iron | 362.93     |
| FD-100-C-XH6-1 | 13.5      | 6"        | 2, 3, 4, 6" | Solid NB     | 702.09     |



No Photo Available

| Chart B   |        |         |               |              |            |
|-----------|--------|---------|---------------|--------------|------------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS    |
| 2"(51)    | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 3 3/4"(95) |
| 3"(76)    | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 3 3/4"(95) |
| 4"(102)   | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"(102)    |
| 6"(152)   | 3 1/2" | -       | -             | -            | -          |

| Chart A  |            |            |             |                  |
|----------|------------|------------|-------------|------------------|
| Strainer | Min.       | Max.       | Load Rating | Free Area Sq. In |
| 5"(127)  | 31/32"(25) | 2 3/8"(60) | *XHD        | 7                |
| 6"(152)  | 1 1/8"(26) | 2 5/8"(67) | *XHD        | 8                |

Note: Funnels are ordered separately. See page 76 for details.

## Options for FD-100 Series:

| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -15    | Strainer Extension (DD-50)               | \$118.00   |
| P      | Push-On Outlet                             | \$48.75    | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| T      | Threaded Outlet                            | 115.00     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| None   | 6" Outlet No Hub Only                      | 115.00     | -F4-50 | 4" Round Cast Iron Funnel                | 139.50     |
| -5     | Sediment Bucket                            | 62.00      | F4-1   | 4" Round Nickel Bronze Funnel            | 290.00     |
| -6     | Vandal Proof                               | 48.75      | -F6-1  | 6" Round Nickel Bronze Funnel            | 749.00     |
| -7     | Trap Primer Tapping                        | No Add     | -G-50  | 4x9" Oval Cast Iron Funnel               | 189.50     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 115.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 395.50     |
| -12    | Galvanized Body                            | 177.00     | -S0    | Side Outlet (2, 3, 4" Only)              | 272.00     |

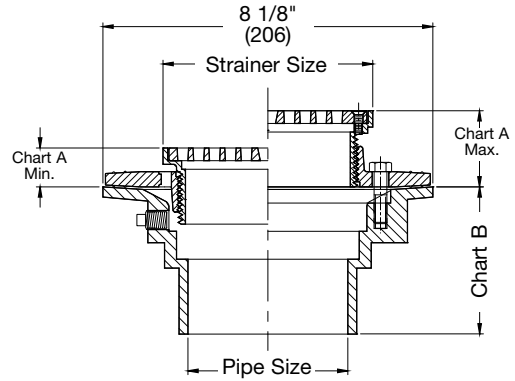
# Finished Area Floor Drains

**FD-100-C**

**Floor Drain with Round Heavy Duty Strainer**



| Model Number        | Wt., Lbs. | Str. Size | Pipe Size | Strainer      | List Price |
|---------------------|-----------|-----------|-----------|---------------|------------|
| FD-102, 3, 4-C-5-4  | 13        | 5"        | 2, 3, 4"  | ductile iron  | \$CF**     |
| FD-102, 3, 4-C-5-1  | 11        | 5"        | 2, 3, 4"  | nickel bronze | 519.57     |
| FD-102, 3, 4-C-6-1  | 12.5      | 6"        | 2, 3, 4"  | nickel bronze | 654.88     |
| FD-102, 3, 4-C-8-1  | 16        | 8"        | 2, 3, 4"  | nickel bronze | 946.05     |
| FD-102, 3, 4-C-10-1 | 21        | 10"       | 2, 3, 4"  | nickel bronze | 1,996.34   |



*Note:* Funnels are ordered separately. See page 76 for details.

| Chart A  |        |        |
|----------|--------|--------|
| Strainer | Min.   | Max.   |
| 5"       | 13/16" | 3 1/4" |
| 6"       | 7/8"   | 3 3/8" |
| 8"       | 7/8"   | 3 1/4" |
| 10"      | 1 1/4" | 3 1/4" |

| Chart B   |        |         |               |              |         |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 3"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 4"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 6"        | 3 1/2" | -       | -             | -            | -       |

## Options for FD-100 Series:

| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -15    | Strainer Extension (DD-50)               | \$118.00   |
| P      | Push-On Outlet                             | \$48.75    | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| T      | Threaded Outlet                            | 115.00     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| None   | 6" Outlet No Hub Only                      | 115.00     | -F4-50 | 4" Round Cast Iron Funnel                | 139.50     |
| -5     | Sediment Bucket                            | 62.00      | F4-1   | 4" Round Nickel Bronze Funnel            | 290.00     |
| -6     | Vandal Proof                               | 48.75      | -F6-1  | 6" Round Nickel Bronze Funnel            | 749.00     |
| -7     | Trap Primer Tapping                        | No Add     | -G-50  | 4x9" Oval Cast Iron Funnel               | 189.50     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 115.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 395.50     |
| -12    | Galvanized Body                            | 177.00     | -S0    | Side Outlet (2, 3, 4" Only)              | 272.00     |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

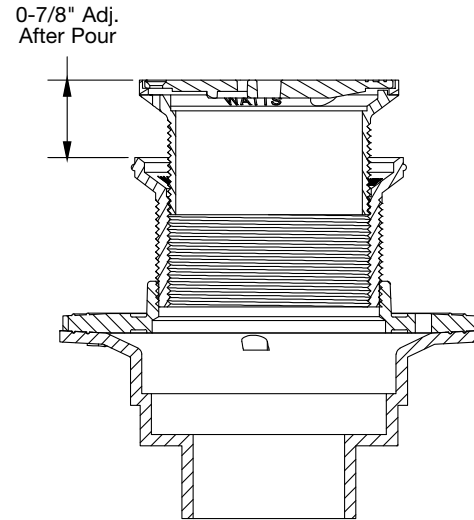
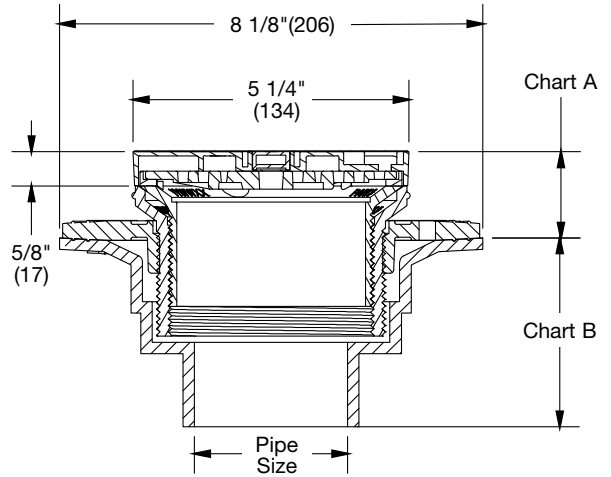


# Adjustable Floor Drains

**FD-190-PR**

**Pronto!® Cast Iron Adjustable Floor Drain w/Integrated Level**

| Model Number         | Weight Lbs. | Str. Size | Outlet Size | Strainer      | List Price |
|----------------------|-------------|-----------|-------------|---------------|------------|
| FD-192, 3, 4-PR5     | 14          | 5"(127)   | 2, 3, 4"    | nickel bronze | \$CF**     |
| FD-192, 3, 4-PR6     | 16          | 6"(152)   | 2, 3, 4"    | nickel bronze | CF**       |
| FD-192, 3, 4-PR7     | 18          | 7"(178)   | 2, 3, 4"    | nickel bronze | CF**       |
| FD-192, 3, 4-PR8     | 21          | 8"(203)   | 2, 3, 4"    | nickel bronze | CF**       |
| FD-196-PR5 (NH Only) | 14          | 5"(127)   | 6"(152)     | nickel bronze | CF**       |
| FD-196-PR6 (NH Only) | 16          | 6"(152)   | 6"(152)     | nickel bronze | CF**       |
| FD-196-PR7 (NH Only) | 18          | 7"(178)   | 6"(152)     | nickel bronze | CF**       |
| FD-196-PR8 (NH Only) | 21          | 8"(203)   | 6"(152)     | nickel bronze | CF**       |



**PATENTED**

Patent No. USD897503 and Patents Pending

**Chart A**

| Strainer Size | Min.       | Max.        | Load Rating | Free Area Sq. In. |
|---------------|------------|-------------|-------------|-------------------|
| 5"(127)       | 1 3/4"(83) | 4 1/4"(108) | MD          | 6 1/16"(154)      |
| 6"(152)       | 1 3/4"(83) | 4 1/4"(108) | LD          | 10 3/4"(273)      |
| 7"(178)       | 1 7/8"(54) | 4 3/8"(111) | LD          | 13 1/4"(337)      |
| 8"(203)       | 2"(51)     | 4 1/2"(114) | MD          | 19"(483)          |

**Chart B**

| Pipe Size | Std. No Hub | P Push On   | T Female Thread | X Inside Caulk | 60 PVC  |
|-----------|-------------|-------------|-----------------|----------------|---------|
| 2"(51)    | 3 5/8"(92)  | 4 1/4"(108) | 4 1/4"(108)     | 4 1/2"(114)    | 4"(102) |
| 3"(76)    | 3 5/8"(92)  | 4 1/4"(108) | 4 1/4"(108)     | 4 1/2"(114)    | 4"(102) |
| 4"(102)   | 3 5/8"(92)  | 4 1/4"(108) | 4 1/4"(108)     | 4 1/2"(114)    | 4"(102) |
| 6"(152)   | 3 1/2"(89)  |             |                 |                |         |

*Note:* Funnels are ordered separately. See page 76 for details.

## Options for FD-190-PR Series:

| Suffix | Description                                | List Price | Suffix | Description                    | List Price |
|--------|--|------------|--------|--------------------------------|------------|
| None   | No Hub Outlet                              | No Add     | -15    | Strainer Extension (DD-50)     | \$118.00   |
| P      | Push-On Outlet                             | \$48.75    | -F4-50 | 4" Round Cast Iron Funnel      | 139.50     |
| T      | Threaded Outlet                            | 115.00     | F4-1   | 4" Round Nickel Bronze Funnel  | 290.00     |
| -7     | Trap Primer Tapping                        | 48.75      | -F6-1  | 6" Round Nickel Bronze Funnel  | 749.00     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 115.00     | -G-50  | 4x9" Oval Cast Iron Funnel     | 189.50     |
| -12    | Galvanized Body                            | 177.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel | 395.50     |
|        |  |            | -S0    | Side Outlet (2, 3, 4" Only)    | 272.00     |



Consult factory for all applications outside of listed parameters. Prices do not include applicable taxes.

# Adjustable Floor Drains

FD-190-PR-60

Pronto!® PVC Adjustable Floor Drain w/Integrated Level

| Model Number        | Weight Lbs. | Str. Size | Outlet Size | Strainer      | List Price |
|---------------------|-------------|-----------|-------------|---------------|------------|
| FD-192, 3, 4-PR5-60 | 5           | 5"(127)   | 2, 3, 4"    | nickel bronze | \$CF**     |
| FD-192, 3, 4-PR6-60 | 6           | 6"(152)   | 2, 3, 4"    | nickel bronze | CF**       |
| FD-192, 3, 4-PR7-60 | 7           | 7"(178)   | 2, 3, 4"    | nickel bronze | CF**       |
| FD-192, 3, 4-PR8-60 | 8           | 8"(203)   | 2, 3, 4"    | nickel bronze | CF**       |



**PATENTED**

Patent No. USD897503 and Patents Pending

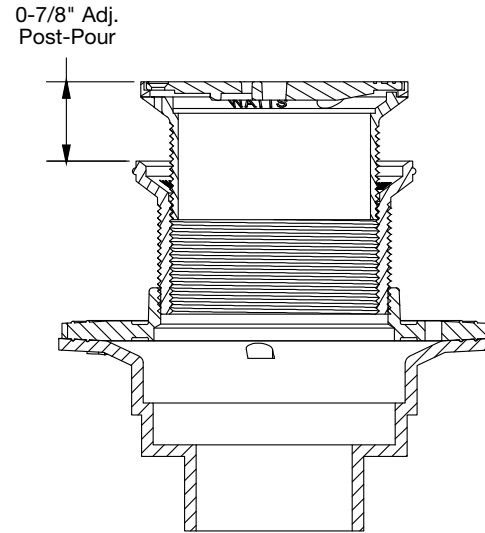
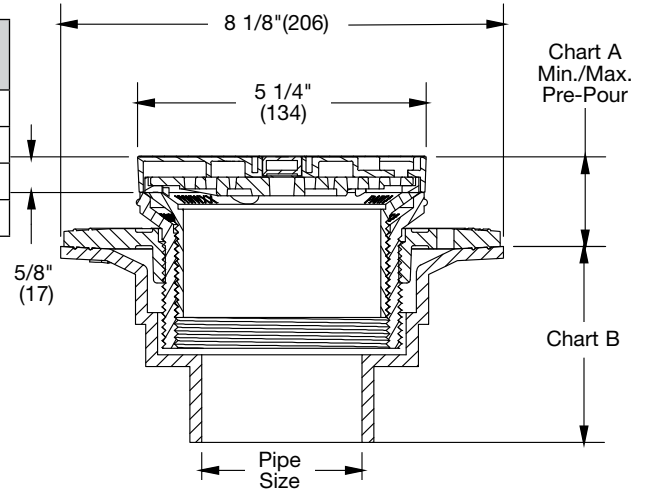


Chart A

| Strainer Size | Min.       | Max.        | Load Rating | Free Area Sq. In. |
|---------------|------------|-------------|-------------|-------------------|
| 5"(127)       | 2 1/2"(64) | 4 1/4"(108) | MD          | 6 1/16"(154)      |
| 6"(152)       | 2 1/2"(64) | 4 1/4"(108) | LD          | 10 3/4"(273)      |
| 7"(178)       | 2 5/8"(67) | 4 3/8"(111) | LD          | 13 1/4"(337)      |
| 8"(203)       | 2 3/4"(70) | 4 1/2"(114) | MD          | 19"(483)          |

Chart B

| Pipe Size | 60 PVC  |
|-----------|---------|
| 2"(51)    | 4"(102) |
| 3"(76)    | 4"(102) |
| 4"(102)   | 4"(102) |

Note: Funnels are ordered separately. See page 76 for details.

## Options for FD-190-PR-60 Series:

| Suffix | Description                   | List Price | Suffix | Description                    | List Price |
|--------|-------------------------------|------------|--------|--------------------------------|------------|
| -7     | Tap Primer Tapping            | \$48.75    | -15    | Strainer Extension (DD-50)     | \$118.00   |
| -8     | Squeeze in Backwater Valve    | 115.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel | 395.50     |
| -61    | ABS Body w/Socket Outlet      | 35.75      |        |                                |            |
| -F4-50 | 4" Round Cast Iron Funnel     | 139.50     |        |                                |            |
| -F4-1  | 4" Round Nickel Bronze Funnel | 290.00     |        |                                |            |
| -F6-1  | 6" Round Nickel Bronze Funnel | 749.00     |        |                                |            |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



# Finished Area Floor Drains

## FD-100-C-AS Floor Drain with Angle Strainer

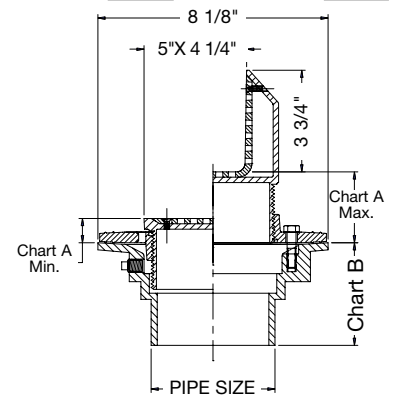


| Model Number    | Wt., Lbs. | Str. Size | Outlet Size | Strainer      | List Price |
|-----------------|-----------|-----------|-------------|---------------|------------|
| FD-102, 3, 4-AS | 15        | 5" x 4"   | 2, 3, 4"    | nickel bronze | \$1,470.90 |



| Chart A |        |
|---------|--------|
| Min.    | Max.   |
| 13/16"  | 3 1/4" |

| Chart B   |        |         |               |              |         |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 3"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 4"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 6"        | 3 1/2" | -       | -             | -            | -       |



## FD-100-C-DD Floor Drain with Hub Funnel

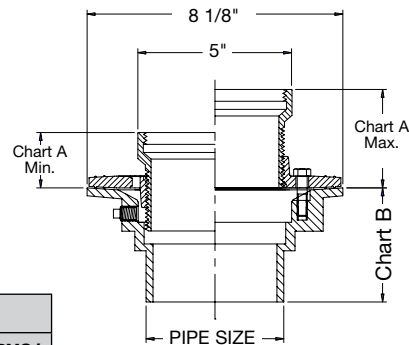


| Model Number       | Weight (Lbs.) | Outlet Size | Strainer      | List Price |
|--------------------|---------------|-------------|---------------|------------|
| FD-102, 3, 4-DD-50 | 7             | 2, 3, 4"    | cast iron     | \$307.07   |
| FD-102, 3,4-DD-1   | 7             | 2, 3, 4"    | nickel bronze | 851.61     |



| Chart A |        |
|---------|--------|
| Min.    | Max.   |
| 1"      | 2 3/4" |

| Chart B   |        |         |               |              |         |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 3"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 4"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 6"        | 3 1/2" | -       | -             | -            | -       |



Note: Funnel are ordered separately. See page 76 for details.

### Options for FD-100 Series:

| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -15    | Strainer Extension (DD-50)               | \$118.00   |
| P      | Push-On Outlet                             | \$48.75    | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| T      | Threaded Outlet                            | 115.00     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| None   | 6" Outlet No Hub Only                      | 115.00     | -F4-50 | 4" Round Cast Iron Funnel                | 139.50     |
| -5     | Sediment Bucket                            | 62.00      | F4-1   | 4" Round Nickel Bronze Funnel            | 290.00     |
| -6     | Vandal Proof                               | 48.75      | -F6-1  | 6" Round Nickel Bronze Funnel            | 749.00     |
| -7     | Trap Primer Tapping                        | No Add     | -G-50  | 4x9" Oval Cast Iron Funnel               | 189.50     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 115.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 395.50     |
| -12    | Galvanized Body                            | 177.00     | -S0    | Side Outlet (2, 3, 4" Only)              | 272.00     |



Consult factory for all applications outside of listed parameters. Prices do not include applicable taxes.

# Finished Area Floor Drains

## FD-100-C-EF Floor Drain with Round Funnel

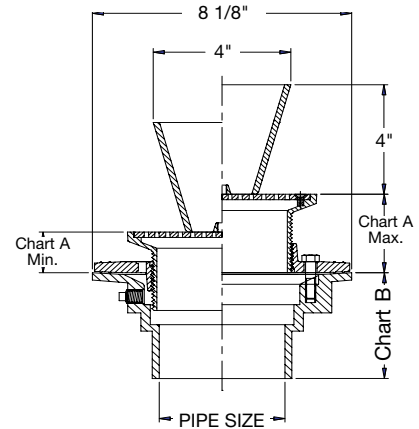


| Model Number       | Weight (lbs.) | Str. Size | Outlet Size | Funnel        | List Price |
|--------------------|---------------|-----------|-------------|---------------|------------|
| FD-102, 3, 4-EF-1  | 9             | 5"        | 2, 3, 4"    | nickel bronze | \$703.66   |
| FD-102, 3, 4-EF-50 | 10            | 5"        | 2, 3, 4"    | cast iron     | 450.18     |



| Chart A       |      |        |
|---------------|------|--------|
| Strainer Dia. | Min. | Max.   |
| 5"            | 7/8" | 3 1/4" |

| Chart B   |        |         |               |              |         |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 3"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 4"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 6"        | 3 1/2" | -       | -             | -            | -       |



## FD-100-C-EG Floor Drain with Oval Funnel

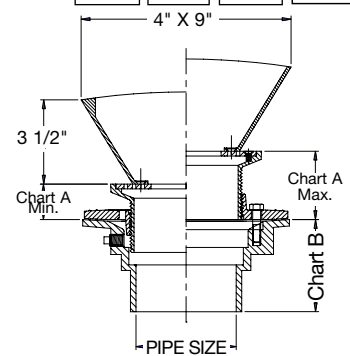


| Model Number       | Weight (lbs.) | Str. Size | Outlet Size | Funnel        | List Price |
|--------------------|---------------|-----------|-------------|---------------|------------|
| FD-102, 3, 4-EG-1  | 10            | 5"        | 2, 3, 4"    | nickel bronze | \$831.12   |
| FD-102, 3, 4-EG-50 | 10            | 5"        | 2, 3, 4"    | cast iron     | 514.82     |



| Chart A       |      |        |
|---------------|------|--------|
| Strainer Dia. | Min. | Max.   |
| 5"            | 7/8" | 3 1/4" |

| Chart B   |        |         |               |              |         |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 3"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 4"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 6"        | 3 1/2" | -       | -             | -            | -       |



Note: Funnel are ordered separately. See page 76 for details.

## Options for FD-100 Series:

| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -15    | Strainer Extension (DD-50)               | \$118.00   |
| P      | Push-On Outlet                             | \$48.75    | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| T      | Threaded Outlet                            | 115.00     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| None   | 6" Outlet No Hub Only                      | 115.00     | -F4-50 | 4" Round Cast Iron Funnel                | 139.50     |
| -5     | Sediment Bucket                            | 62.00      | F4-1   | 4" Round Nickel Bronze Funnel            | 290.00     |
| -6     | Vandal Proof                               | 48.75      | -F6-1  | 6" Round Nickel Bronze Funnel            | 749.00     |
| -7     | Trap Primer Tapping                        | No Add     | -G-50  | 4x9" Oval Cast Iron Funnel               | 189.50     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 115.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 395.50     |
| -12    | Galvanized Body                            | 177.00     | -S0    | Side Outlet (2, 3, 4" Only)              | 272.00     |

Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.





# Finished Area Floor Drains

## FD-100-C-ER Floor Drain with Extended Rim Strainer

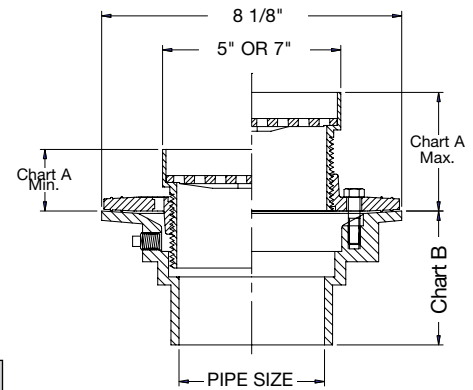


| Model Number     | Weight (lbs.) | Str. Size | Outlet Size | Strainer      | List Price |
|------------------|---------------|-----------|-------------|---------------|------------|
| FD-102, 3, 4-ER5 | 11            | 5"        | 2, 3, 4"    | nickel bronze | \$953.91   |
| FD-102, 3, 4-ER7 | 12            | 7"        | 2, 3, 4"    | nickel bronze | 1,006.32   |
| FD-102, 3, 4-ER9 | 13            | 9"        | 2, 3, 4"    | nickel bronze | 1,415.05   |



| Chart A       |        |      |
|---------------|--------|------|
| Strainer Dia. | Min.   | Max. |
| 5"            | 1 1/2" | 4"   |
| 7"            | 2 1/2" | 4"   |
| 9"            | 2 1/2" | 4"   |

| Chart B   |        |         |               |              |         |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 3"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 4"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 6"        | 3 1/2" | -       | -             | -            | -       |



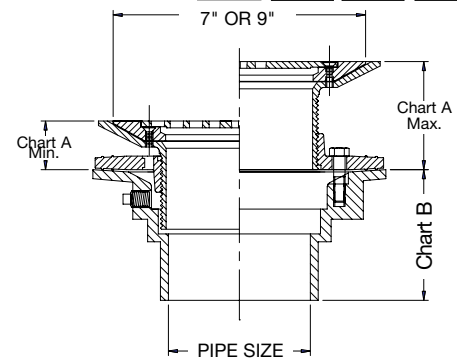
## FD-100-C-FC Floor Drain with Surface Membrane Clamp



| Model Number       | Weight (lbs.) | Str. Size | Outlet Size | Strainer        | List Price |
|--------------------|---------------|-----------|-------------|-----------------|------------|
| FD-102, 3, 4-FC7   | 15            | 7"        | 2, 3, 4"    | nickel bronze   | \$748.23   |
| FD-102, 3, 4-FC7-3 | 15            | 7"        | 2, 3, 4"    | stainless steel | 1,162.54   |
| FD-102, 3, 4-FC9   | 18            | 9"        | 2, 3, 4"    | nickel bronze   | 1,339.50   |



| Chart B   |        |         |               |              |         |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 3"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 4"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 6"        | 3 1/2" | -       | -             | -            | -       |



| Chart A       |        |        |
|---------------|--------|--------|
| Strainer Dia. | Min.   | Max.   |
| 7"            | 2 1/4" | 3 3/4" |
| 9"            | 2 1/4" | 3 3/4" |

**Note:** Funnels are ordered separately. See page 76 for details.

### Options for FD-100 Series:

| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -15    | Strainer Extension (DD-50)               | \$118.00   |
| P      | Push-On Outlet                             | \$48.75    | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| T      | Threaded Outlet                            | 115.00     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| None   | 6" Outlet No Hub Only                      | 115.00     | -F4-50 | 4" Round Cast Iron Funnel                | 139.50     |
| -5     | Sediment Bucket                            | 62.00      | F4-1   | 4" Round Nickel Bronze Funnel            | 290.00     |
| -6     | Vandal Proof                               | 48.75      | -F6-1  | 6" Round Nickel Bronze Funnel            | 749.00     |
| -7     | Trap Primer Tapping                        | No Add     | -G-50  | 4x9" Oval Cast Iron Funnel               | 189.50     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 115.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 395.50     |
| -12    | Galvanized Body                            | 177.00     | -S0    | Side Outlet (2, 3, 4" Only)              | 272.00     |



Consult factory for all applications outside of listed parameters. Prices do not include applicable taxes.

# Finished Area Floor Drains

## FD-100-C-H

### Floor Drain with Elastomeric Flange

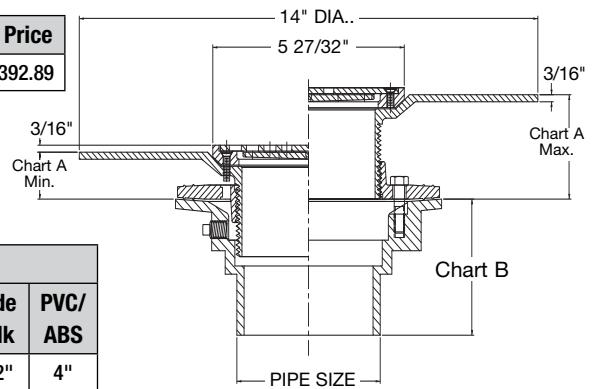


| Model Number   | Weight (lbs.) | Str. Size | Outlet Size | Strainer      | List Price |
|----------------|---------------|-----------|-------------|---------------|------------|
| FD-102, 3, 4-H | 15            | 6"        | 2, 3, 4"    | nickel bronze | \$1,392.89 |



| Chart A       |      |        |
|---------------|------|--------|
| Strainer Dia. | Min. | Max.   |
| 6"            | 7/8" | 3 1/4" |

| Chart B   |        |         |               |              |         |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 3"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 4"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 6"        | 3 1/2" | -       | -             | -            | -       |



## FD-100-C-K5

### Floor Drain with Dome Strainer

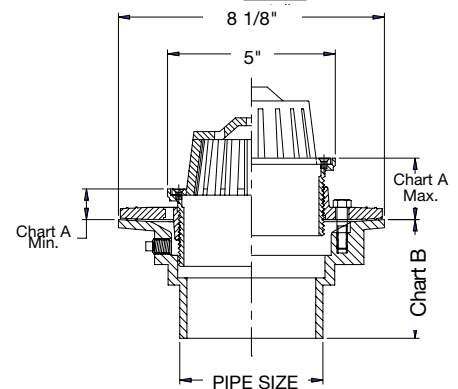


| Model Number        | Weight (lbs.) | Str. Size | Outlet Size | Strainer      | List Price |
|---------------------|---------------|-----------|-------------|---------------|------------|
| FD-102, 3, 4-C-K5-1 | 11            | 5" dome   | 2, 3, 4"    | nickel bronze | \$820.13   |



| Chart A       |        |        |
|---------------|--------|--------|
| Strainer Dia. | Min.   | Max.   |
| 5"            | 13/16" | 3 1/4" |

| Chart B   |        |         |               |              |         |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 3"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 4"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 6"        | 3 1/2" | -       | -             | -            | -       |



**Note:** Funnels are ordered separately.  
See page 76 for details.

## Options for FD-100 Series:

| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -15    | Strainer Extension (DD-50)               | \$118.00   |
| P      | Push-On Outlet                             | \$48.75    | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| T      | Threaded Outlet                            | 115.00     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| None   | 6" Outlet No Hub Only                      | 115.00     | -F4-50 | 4" Round Cast Iron Funnel                | 139.50     |
| -5     | Sediment Bucket                            | 62.00      | F4-1   | 4" Round Nickel Bronze Funnel            | 290.00     |
| -6     | Vandal Proof                               | 48.75      | -F6-1  | 6" Round Nickel Bronze Funnel            | 749.00     |
| -7     | Trap Primer Tapping                        | No Add     | -G-50  | 4x9" Oval Cast Iron Funnel               | 189.50     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 115.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 395.50     |
| -12    | Galvanized Body                            | 177.00     | -S0    | Side Outlet (2, 3, 4" Only)              | 272.00     |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



# Finished Area Floor Drains

## FD-100-C-L

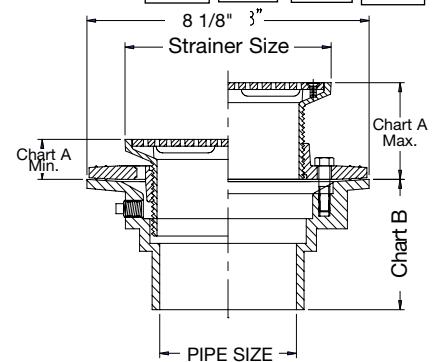
### Floor Drain with Square Heavy Duty Strainer



| Model Number      | Weight (lbs.) | Str. Size | Outlet Size | Strainer      | List Price |
|-------------------|---------------|-----------|-------------|---------------|------------|
| FD-102, 3, 4-L5-1 | 10            | 5" x 5"   | 2, 3, 4"    | nickel bronze | \$658.05   |
| FD-102, 3, 4-L5-4 | 11            | 5" x 5"   | 2, 3, 4"    | ductile iron  | 373.51     |
| FD-102, 3, 4-L6-1 | 14            | 6" x 6"   | 2, 3, 4"    | nickel bronze | 718.62     |
| FD-102, 3, 4-L8-1 | 16            | 8" x 8"   | 2, 3, 4"    | nickel bronze | 1,164.81   |



| Chart A  |        |        |
|----------|--------|--------|
| Strainer | Min.   | Max.   |
| 5" x 5"  | 7/8"   | 3 1/4" |
| 6" x 6"  | 1"     | 3 1/4" |
| 8" x 8"  | 1 3/8" | 3 5/8" |



| Chart B   |        |         |               |              |         |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 3"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 4"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 6"        | 3 1/2" | -       | -             | -            | -       |

## FD-100-C-RS

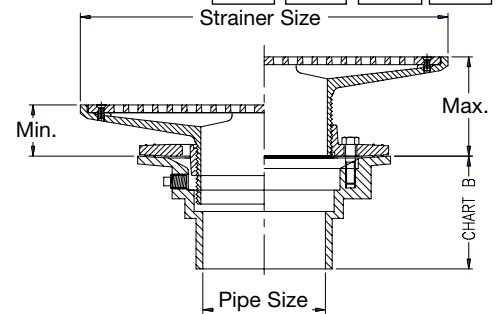
### Floor Drain with Rectangular Strainer



| Model Number       | Weight (lbs.) | Str. Size | Outlet Size | Strainer      | List Price |
|--------------------|---------------|-----------|-------------|---------------|------------|
| FD-102, 3, 4-RS48  | 12            | 4" x 8"   | 2, 3, 4"    | nickel bronze | \$862.63   |
| FD-102, 3, 4-RS412 | 14            | 4" x 12"  | 2, 3, 4"    | nickel bronze | 926.36     |
| FD-102, 3, 4-RS517 | 24            | 5" x 17"  | 2, 3, 4"    | nickel bronze | 1,672.98   |



| Chart A  |        |        |
|----------|--------|--------|
| Strainer | Min.   | Max.   |
| 4" x 8"  | 1 1/2" | 3 3/4" |
| 4" x 12" | 1 1/2" | 3 3/4" |
| 5" x 17" | 2"     | 4 3/8" |



| Chart B   |        |         |               |              |         |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 3"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 4"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 6"        | 3 1/2" | -       | -             | -            | -       |

Note: Funnels are ordered separately.  
See page 76 for details.

### Options for FD-100 Series:

| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -15    | Strainer Extension (DD-50)               | \$118.00   |
| P      | Push-On Outlet                             | \$48.75    | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| T      | Threaded Outlet                            | 115.00     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| None   | 6" Outlet No Hub Only                      | 115.00     | -F4-50 | 4" Round Cast Iron Funnel                | 139.50     |
| -5     | Sediment Bucket                            | 62.00      | F4-1   | 4" Round Nickel Bronze Funnel            | 290.00     |
| -6     | Vandal Proof                               | 48.75      | -F6-1  | 6" Round Nickel Bronze Funnel            | 749.00     |
| -7     | Trap Primer Tapping                        | No Add     | -G-50  | 4x9" Oval Cast Iron Funnel               | 189.50     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 115.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 395.50     |
| -12    | Galvanized Body                            | 177.00     | -S0    | Side Outlet (2, 3, 4" Only)              | 272.00     |



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Finished Area Floor Drains

## FD-100-C-VD Floor Drain with Round Hinged Solid Cover

## Floor Drain with Round Hinged Solid Cover

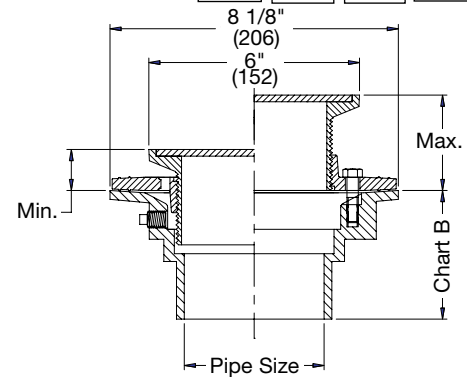


| Model Number    | Weight (lbs.) | Str. Size | Outlet Size | Strainer      | List Price |
|-----------------|---------------|-----------|-------------|---------------|------------|
| FD-102, 3, 4-VD | 15            | 6"        | 2, 3, 4"    | nickel bronze | \$1,049.91 |



| Chart A  |        |        |
|----------|--------|--------|
| Strainer | Min.   | Max.   |
| 6"       | 13/16" | 3 1/4" |

| Chart B   |        |         |               |              |         |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 3"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 4"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 6"        | 3 1/2" | -       | -             | -            | -       |



## FD-100-C-VS Floor Drain with Square Hinged Solid Cover

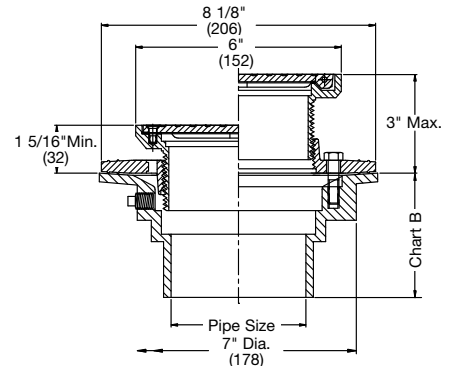
## Floor Drain with Square Hinged Solid Cover



| Model Number    | Weight (lbs.) | Str. Size     | Outlet Size | Strainer      | List Price |
|-----------------|---------------|---------------|-------------|---------------|------------|
| FD-102, 3, 4-VS | 15            | 6" x 6 Cover" | 2, 3, 4"    | nickel bronze | \$1,636.16 |



| Chart B   |        |         |               |              |         |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 3"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 4"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 6"        | 3 1/2" | -       | -             | -            | -       |



Note: Funnels are ordered separately. See page 76 for details.

### Options for FD-100 Series:

| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -15    | Strainer Extension (DD-50)               | \$118.00   |
| P      | Push-On Outlet                             | \$48.75    | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| T      | Threaded Outlet                            | 115.00     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| None   | 6" Outlet No Hub Only                      | 115.00     | -F4-50 | 4" Round Cast Iron Funnel                | 139.50     |
| -5     | Sediment Bucket                            | 62.00      | F4-1   | 4" Round Nickel Bronze Funnel            | 290.00     |
| -6     | Vandal Proof                               | 48.75      | -F6-1  | 6" Round Nickel Bronze Funnel            | 749.00     |
| -7     | Trap Primer Tapping                        | No Add     | -G-50  | 4x9" Oval Cast Iron Funnel               | 189.50     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 115.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 395.50     |
| -12    | Galvanized Body                            | 177.00     | -S0    | Side Outlet (2, 3, 4" Only)              | 272.00     |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



# Finished Area Floor Drains

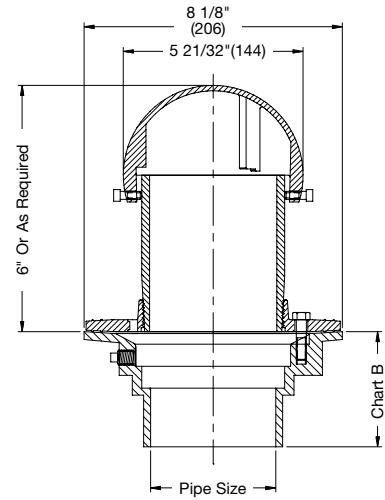
## FD-100-C-WD Floor Drain with Domed Standpipe



| Model Number    | Weight (lbs.) | Str. Size       | Outlet Size | List Price |
|-----------------|---------------|-----------------|-------------|------------|
| FD-102, 3, 4-WD | 11            | Domed Standpipe | 2, 3, 4"    | \$1,079.53 |



| Chart B   |        |         |               |              |         |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 3"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 4"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 6"        | 3 1/2" | -       | -             | -            | -       |

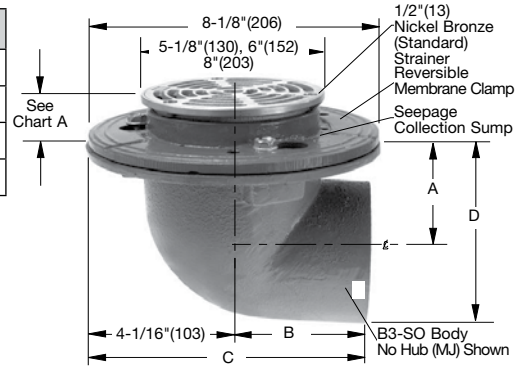


## FD-160-C Floor Drain with Side Outlet for Membrane Floor



| Model Number        | Weight (lbs.) | Str. Size | Outlet Size | Strainer      | List Price |
|---------------------|---------------|-----------|-------------|---------------|------------|
| FD-162, 3, 4-C-A5-1 | 17            | 5"        | 2, 3, 4"    | nickel bronze | \$716.49   |
| FD-162, 3, 4-C-6-1  | 18            | 6"        | 2, 3, 4"    | nickel bronze | 957.47     |
| FD-162, 3, 4-C-A7-1 | 18            | 7"        | 2, 3, 4"    | nickel bronze | 1,000.74   |
| FD-162, 3, 4-C-8-1  | 28            | 8"        | 2, 3, 4"    | nickel bronze | 1,248.64   |

FD-160-C Body Only: 2", 3", 4" \$318.00



| Chart B |              |              |               |             |
|---------|--------------|--------------|---------------|-------------|
| Model   | A            | B            | C             | D           |
| B3-2-SO | 4 5/8"(117)  | 7 1/4"(184)  | 11 5/16"(287) | 5 3/4"(146) |
| B3-3-SO | 4 3/32"(104) | 5 3/4"(146)  | 9 27/32"(250) | 5 3/4"(146) |
| B3-4-SO | 3 5/8"(92)   | 4 1/32"(102) | 8 3/32"(206)  | 5 3/4"(146) |

Note: Funnelns are ordered separately. See page 76 for details.

### Options for FD-160-C Series:

| Suffix | Description  | List Price |
|--------|--------------|------------|
| -6     | Vandal Proof | \$115.00   |

**WATTS** Consult factory for all applications outside of listed parameters. Prices do not include applicable taxes.

# On-Grade Finished Area Floor Drains

## FD-200

### Floor Drain with Round Heavy Duty Strainer

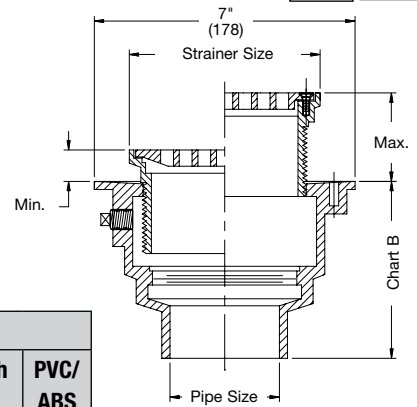


| Model Number      | Weight (lbs.) | Str. Size | Outlet Size | Strainer      | List Price |
|-------------------|---------------|-----------|-------------|---------------|------------|
| FD-202, 3, 4-5-4  | 13            | 5"        | 2, 3, 4"    | ductile iron  | \$263.35   |
| FD-202, 3, 4-5-1  | 8             | 5"        | 2, 3, 4"    | nickel bronze | 434.15     |
| FD-202, 3, 4-6-1  | 9.5           | 6"        | 2, 3, 4"    | nickel bronze | 569.46     |
| FD-202, 3, 4-8-1  | 16            | 8"        | 2, 3, 4"    | nickel bronze | 860.63     |
| FD-202, 3, 4-10-1 | 20            | 10"       | 2, 3, 4"    | nickel bronze | 1,910.92   |



| Chart A  |         |        |
|----------|---------|--------|
| Strainer | Min.    | Max.   |
| 5"       | 1"      | 2 1/4" |
| 6"       | 1"      | 2 1/4" |
| 8"       | 1 7/16" | 2 3/4" |
| 10"      | 1"      | 2 1/4" |

| Chart B   |        |         |         |
|-----------|--------|---------|---------|
| Pipe Size | No Hub | Push On | PVC/ABS |
| 2"        | 4 3/4" | 5 1/2"  | 4"      |
| 3"        | 4 3/4" | 5 1/2"  | 4"      |
| 4"        | 4 3/4" | 5 1/2"  | 4"      |



## FD-200-A

### Floor Drain with Round Strainer

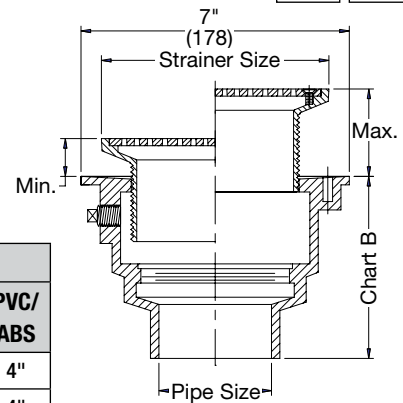


| Model Number      | Weight (lbs.) | Str. Size | Outlet Size | Strainer      | List Price |
|-------------------|---------------|-----------|-------------|---------------|------------|
| FD-202, 3, 4-A5-1 | 8             | 5"        | 2, 3, 4"    | nickel bronze | \$328.48   |
| FD-202, 3, 4-A6-1 | 9.5           | 6"        | 2, 3, 4"    | nickel bronze | 447.48     |
| FD-202, 3, 4-A7-1 | 12            | 7"        | 2, 3, 4"    | nickel bronze | 612.73     |



| Chart A  |        |        |
|----------|--------|--------|
| Strainer | Min.   | Max.   |
| 5"       | 7/16"  | 2 1/4" |
| 6"       | 5/8"   | 2 1/4" |
| 7"       | 11/16" | 2 1/4" |
| 8"       | 3/4"   | 2 3/4" |
| 10"      | 1"     | 2 1/4" |

| Chart B   |        |         |         |
|-----------|--------|---------|---------|
| Pipe Size | No Hub | Push On | PVC/ABS |
| 2"        | 4 3/4" | 5 1/2"  | 4"      |
| 3"        | 4 3/4" | 5 1/2"  | 4"      |
| 4"        | 4 3/4" | 5 1/2"  | 4"      |



**Note:** Funnels are ordered separately.  
See page 65 for details.

### Options for FD-200 Series:

| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -15    | Strainer Extension (DD-50)               | \$118.00   |
| P      | Push-On Outlet                             | \$48.75    | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| T      | Threaded Outlet                            | 115.00     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| None   | 6" Outlet No Hub Only                      | 115.00     | -F4-50 | 4" Round Cast Iron Funnel                | 139.50     |
| -5     | Sediment Bucket                            | 62.00      | F4-1   | 4" Round Nickel Bronze Funnel            | 290.00     |
| -6     | Vandal Proof                               | 48.75      | -F6-1  | 6" Round Nickel Bronze Funnel            | 749.00     |
| -7     | Trap Primer Tapping                        | No Add     | -G-50  | 4x9" Oval Cast Iron Funnel               | 189.50     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 115.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 395.50     |
| -12    | Galvanized Body                            | 177.00     | -S0    | Side Outlet (2, 3, 4" Only)              | 272.00     |

Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

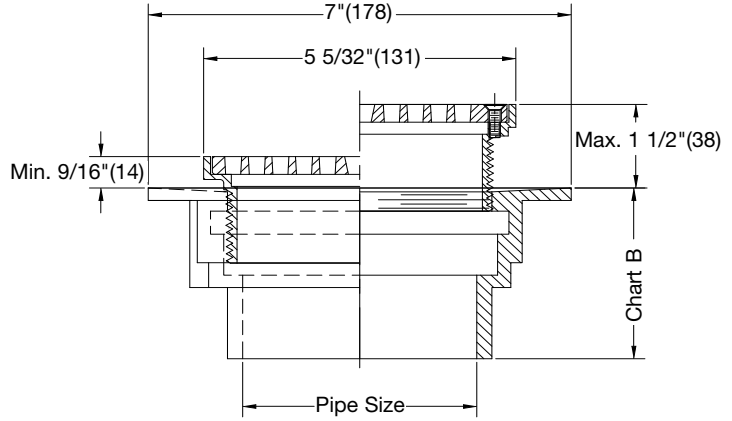


# On-Grade Finished Area Floor Drains

## FD-200-XH Floor Drain with Round Heavy Duty Strainer

| Model Number | Weight (lbs.) | Str. Size | Outlet Size | Strainer      | List Price |
|--------------|---------------|-----------|-------------|---------------|------------|
| FD-200-XH5-1 | 9             | 5"        | 2, 3, 4"    | nickel bronze | \$541.92   |
| FD-200-XH5-4 | 13            | 5"        | 2, 3, 4"    | ductile iron  | 277.51     |
| FD-200-XH6-1 | 10            | 6"        | 2, 3, 4"    | nickel bronze | 616.67     |

No Photo Available



| Chart A  |           |            |             |                   |
|----------|-----------|------------|-------------|-------------------|
| Strainer | Min.      | Max.       | Load Rating | Free Area Sq. In. |
| 5"(127)  | 9/16"(14) | 1 1/2"(38) | *XHD        | 7                 |
| 6"(152)  | 3/4"(19)  | 1 3/4"(44) | *XHD        | 8                 |

| Chart B   |             |           |               |
|-----------|-------------|-----------|---------------|
| Pipe Size | Std. No Hub | P Push On | 60/61 PVC/ABS |
| 2"(51)    | 3"(76)      | 4"(102)   | 4"(102)       |
| 3"(76)    | 3"(76)      | 4"(102)   | 3 3/4"(95)    |
| 4"(102)   | 3"(76)      | 4"(102)   | 3 3/4"(95)    |

### Options for FD-200 Series:

| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -15    | Strainer Extension (DD-50)               | \$118.00   |
| P      | Push-On Outlet                             | \$48.75    | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| T      | Threaded Outlet                            | 115.00     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| None   | 6" Outlet No Hub Only                      | 115.00     | -F4-50 | 4" Round Cast Iron Funnel                | 139.50     |
| -5     | Sediment Bucket                            | 62.00      | F4-1   | 4" Round Nickel Bronze Funnel            | 290.00     |
| -6     | Vandal Proof                               | 48.75      | -F6-1  | 6" Round Nickel Bronze Funnel            | 749.00     |
| -7     | Trap Primer Tapping                        | No Add     | -G-50  | 4x9" Oval Cast Iron Funnel               | 189.50     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 115.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 395.50     |
| -12    | Galvanized Body                            | 177.00     | -S0    | Side Outlet (2, 3, 4" Only)              | 272.00     |



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Adjustable Floor Drains

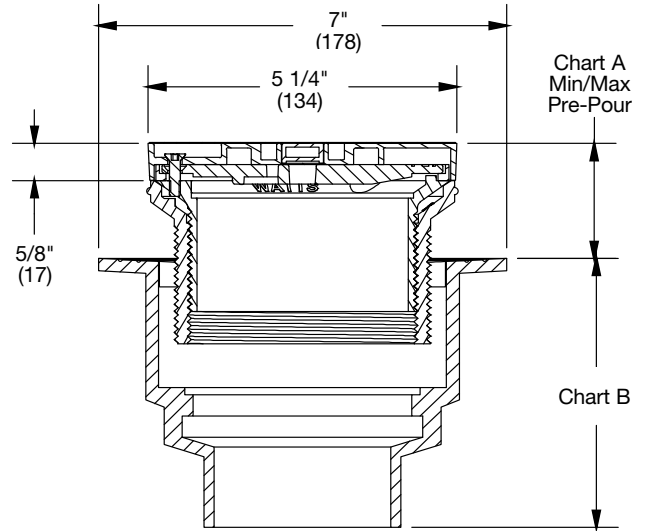
FD-290-PR

Pronto!® Cast Iron Adjustable Floor Drain w/Integrated Level

| Model Number     | Weight Lbs. | Str. Size | Outlet Size | Strainer      | List Price |
|------------------|-------------|-----------|-------------|---------------|------------|
| FD-292, 3, 4-PR5 | 13          | 5"(127)   | 2, 3, 4"    | nickel bronze | \$CF**     |
| FD-292, 3, 4-PR6 | 15          | 6"(152)   | 2, 3, 4"    | nickel bronze | CF**       |
| FD-292, 3, 4-PR7 | 17          | 7"(178)   | 2, 3, 4"    | nickel bronze | CF**       |
| FD-292, 3, 4-PR8 | 20          | 8"(203)   | 2, 3, 4"    | nickel bronze | CF**       |



**PATENTED**



Patent No. USD897503 and Patents Pending

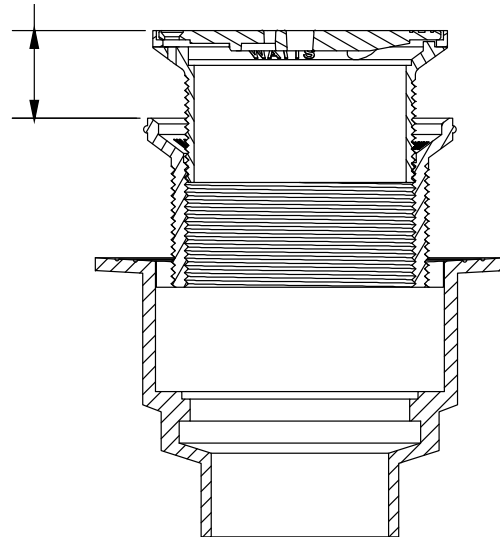
Chart A

| Strainer Size | Min.         | Max.        | Load Rating | Free Area Sq. In |
|---------------|--------------|-------------|-------------|------------------|
| 5"(127)       | 1 1/2"(38)   | 3 1/4"(83)  | MD          | 6 1/16"(154)     |
| 6"(152)       | 1 1/2"(38)   | 3 1/4"(83)  | LD          | 10 3/4"(273)     |
| 7"(178)       | 1 9/16"(40)  | 3 5/16"(84) | LD          | 13 1/4"(337)     |
| 8"(203)       | 1 11/16"(43) | 3 7/16"(87) | MD          | 19"(483)         |

Chart B

| Pipe Size | Std. No Hub | P Push On   | 60/61 PVC/ABS |
|-----------|-------------|-------------|---------------|
| 2"(51)    | 4 1/2"(114) | 5 1/2"(140) | 4"(102)       |
| 3"(76)    | 4 1/2"(114) | 5 1/2"(140) | 4"(102)       |
| 4"(102)   | 4 1/2"(114) | 5 1/2"(140) | 4"(102)       |

0-7/8" Adj. Post-Pour



Note: Funnels are ordered separately.  
See page 76 for details.

## Options for FD-290-PR Series:

| Suffix | Description                                | List Price | Suffix | Description                    | List Price |
|--------|--|------------|--------|--------------------------------|------------|
| None   | No Hub Outlet                              | No Add     | -15    | Strainer Extension (DD-50)     | \$118.00   |
| P      | Push-On Outlet                             | \$48.75    | -F4-50 | 4" Round Cast Iron Funnel      | 139.50     |
| T      | Threaded Outlet                            | 115.00     | F4-1   | 4" Round Nickel Bronze Funnel  | 290.00     |
| None   | 6" Outlet No Hub Only                      | 115.00     | -F6-1  | 6" Round Nickel Bronze Funnel  | 749.00     |
| -7     | Trap Primer Tapping                        | No Add     | -G-50  | 4x9" Oval Cast Iron Funnel     | 189.50     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 115.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel | 395.50     |
| -12    | Galvanized Body                            | 177.00     |        |                                |            |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.





# Adjustable Floor Drains

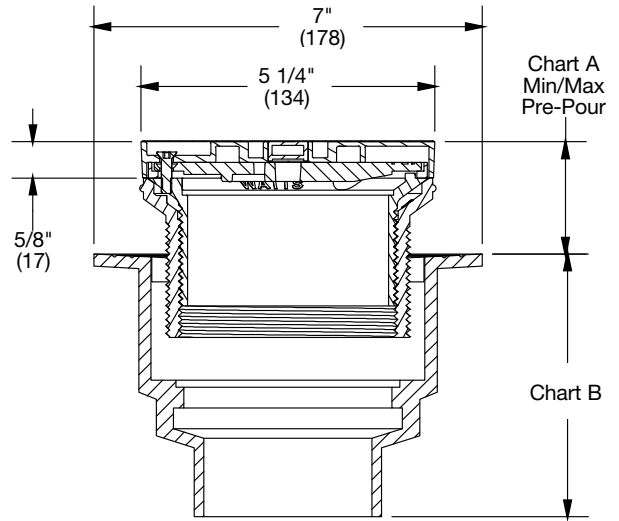
FD-290-PR-60

Pronto!® PVC Adjustable Floor Drain w/Integrated Level

| Model Number        | Weight Lbs. | Str. Size | Outlet Size | Strainer      | List Price |
|---------------------|-------------|-----------|-------------|---------------|------------|
| FD-292, 3, 4-PR5-60 | 4           | 5"(127)   | 2, 3, 4"    | nickel bronze | \$CF**     |
| FD-292, 3, 4-PR6-60 | 5           | 6"(152)   | 2, 3, 4"    | nickel bronze | CF**       |
| FD-292, 3, 4-PR7-60 | 6           | 7"(178)   | 2, 3, 4"    | nickel bronze | CF**       |
| FD-292, 3, 4-PR8-60 | 7           | 8"(203)   | 2, 3, 4"    | nickel bronze | CF**       |



**PATENTED**



Patent No. USD897503 and Patents Pending

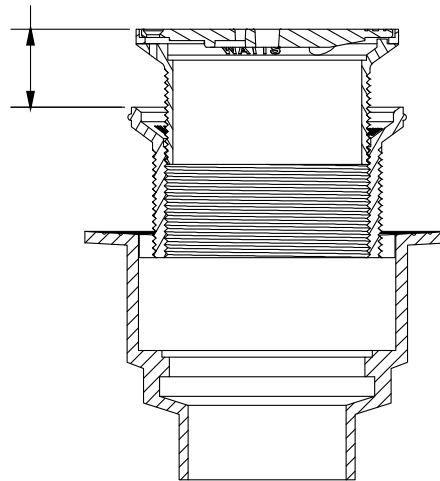
Chart A

| Strainer Size | Min.         | Max.        | Load Rating | Free Area Sq. In |
|---------------|--------------|-------------|-------------|------------------|
| 5"(127)       | 1 1/2"(38)   | 3 1/4"(83)  | MD          | 6 1/16"(154)     |
| 6"(152)       | 1 1/2"(38)   | 3 1/4"(83)  | LD          | 10 3/4"(273)     |
| 7"(178)       | 1 9/16"(40)  | 3 5/16"(84) | LD          | 13 1/4"(337)     |
| 8"(203)       | 1 11/16"(43) | 3 7/16"(87) | MD          | 19"(483)         |

Chart B

| Pipe Size | 60 PVC      |
|-----------|-------------|
| 2"(51)    | 4 1/2"(114) |
| 3"(76)    | 4 1/2"(114) |
| 4"(102)   | 4 1/2"(114) |

0-7/8" Adj. Post-Pour



**Note:** Funnels are ordered separately. See page 76 for details.

## Options for FD-290-PR-60 Series:

| Suffix | Description                   | List Price | Suffix | Description                    | List Price |
|--------|-------------------------------|------------|--------|--------------------------------|------------|
| -7     | Trap Primer Tapping           | No Add     | F6-1   | 6" Round Nickel Bronze Funnel  | \$749.00   |
| -8     | Squeeze in Backwater Valve    | \$115.00   | -G-50  | 4x9" Oval Cast Iron Funnel     | 189.50     |
| -15    | Strainer Extension (DD-50)    | 118.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel | 395.50     |
| -61    | ABS Body w/Socket Outlet      | 35.75      |        |                                |            |
| -F4-50 | 4" Round Cast Iron Funnel     | 139.50     |        |                                |            |
| -F4-1  | 4" Round Nickel Bronze Funnel | 290.00     |        |                                |            |



Consult factory for all applications outside of listed parameters. Prices do not include applicable taxes.

# On-Grade Finished Area Floor Drains

## FD-200-AS

### Floor Drain with Angle Strainer

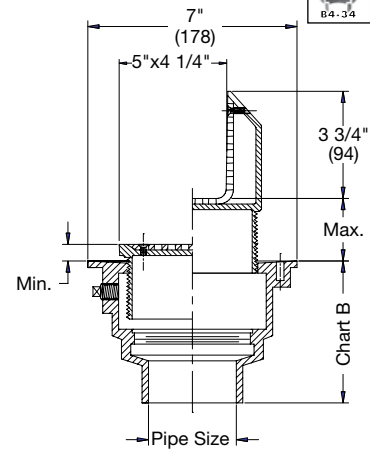


| Model Number    | Weight (lbs.) | Str. Size | Outlet Size | Strainer      | List Price |
|-----------------|---------------|-----------|-------------|---------------|------------|
| FD-202, 3, 4-AS | 8             | 5" x 4"   | 2, 3, 4"    | nickel bronze | \$1,385.48 |



| Chart A |        |
|---------|--------|
| Min.    | Max..  |
| 13/16"  | 3 1/4" |

| Chart B   |        |         |         |
|-----------|--------|---------|---------|
| Pipe Size | No Hub | Push On | PVC/ABS |
| 2"        | 4 3/4" | 5 1/2"  | 4"      |
| 3"        | 4 3/4" | 5 1/2"  | 4"      |
| 4"        | 4 3/4" | 5 1/2"  | 4"      |



## FD-200-DD

### Floor Drain with Hub Funnel

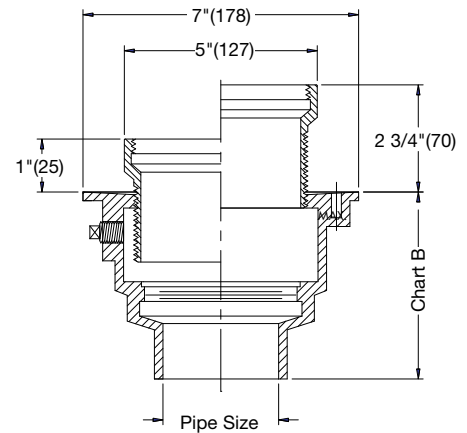


| Model Number       | Weight (lbs.) | Str. Size | Outlet Size | Strainer      | List Price |
|--------------------|---------------|-----------|-------------|---------------|------------|
| FD-202, 3, 4-DD-50 | 7             | N/A       | 2, 3, 4"    | cast iron     | \$221.65   |
| FD-202, 3, 4-DD-1  | 7             | N/A       | 2, 3, 4"    | nickel bronze | 766.19     |



| Chart A |        |
|---------|--------|
| Min.    | Max..  |
| 13/16"  | 3 1/4" |

| Chart B   |        |         |         |
|-----------|--------|---------|---------|
| Pipe Size | No Hub | Push On | PVC/ABS |
| 2"        | 4 3/4" | 5 1/2"  | 4"      |
| 3"        | 4 3/4" | 5 1/2"  | 4"      |
| 4"        | 4 3/4" | 5 1/2"  | 4"      |



**Note:** Funnel are ordered separately.  
See page 76 for details.

## Options for FD-200 Series:

| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -15    | Strainer Extension (DD-50)               | \$118.00   |
| P      | Push-On Outlet                             | \$48.75    | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| T      | Threaded Outlet                            | 115.00     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| None   | 6" Outlet No Hub Only                      | 115.00     | -F4-50 | 4" Round Cast Iron Funnel                | 139.50     |
| -5     | Sediment Bucket                            | 62.00      | F4-1   | 4" Round Nickel Bronze Funnel            | 290.00     |
| -6     | Vandal Proof                               | 48.75      | -F6-1  | 6" Round Nickel Bronze Funnel            | 749.00     |
| -7     | Trap Primer Tapping                        | No Add     | -G-50  | 4x9" Oval Cast Iron Funnel               | 189.50     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 115.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 395.50     |
| -12    | Galvanized Body                            | 177.00     | -S0    | Side Outlet (2, 3, 4" Only)              | 272.00     |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



# On-Grade Finished Area Floor Drains

## FD-200-EF Floor Drain with Round Funnel

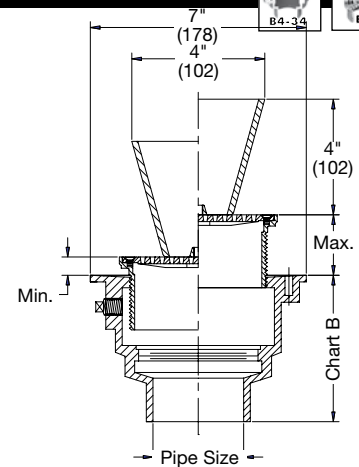


| Model Number       | Weight (lbs.) | Str. Size | Outlet Size | Funnel        | List Price |
|--------------------|---------------|-----------|-------------|---------------|------------|
| FD-202, 3, 4-EF-1  | 9             | 5"        | 2, 3, 4"    | nickel bronze | \$618.24   |
| FD-202, 3, 4-EF-50 | 10            | 5"        | 2, 3, 4"    | nickel bronze | 364.76     |



| Chart A       |       |        |
|---------------|-------|--------|
| Strainer Dia. | Min.  | Max.   |
| 5"            | 7/16" | 1 5/8" |

| Chart B   |        |         |         |
|-----------|--------|---------|---------|
| Pipe Size | No Hub | Push On | PVC/ABS |
| 2"        | 4 3/4" | 5 1/2"  | 4"      |
| 3"        | 4 3/4" | 5 1/2"  | 4"      |
| 4"        | 4 3/4" | 5 1/2"  | 4"      |



## FD-200-EG Floor Drain with Oval Funnel

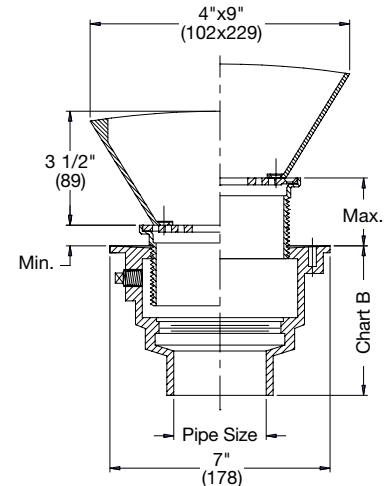


| Model Number       | Weight (lbs.) | Str. Size | Outlet Size | Funnel        | List Price |
|--------------------|---------------|-----------|-------------|---------------|------------|
| FD-202, 3, 4-EG-1  | 10            | 5"        | 2, 3, 4"    | nickel bronze | \$745.70   |
| FD-202, 3, 4-EG-50 | 10            | 5"        | 2, 3, 4"    | cast iron     | 429.40     |



| Chart A       |       |        |
|---------------|-------|--------|
| Strainer Dia. | Min.  | Max.   |
| 5"            | 7/16" | 1 5/8" |

| Chart B   |        |         |         |
|-----------|--------|---------|---------|
| Pipe Size | No Hub | Push On | PVC/ABS |
| 2"        | 4 3/4" | 5 1/2"  | 4"      |
| 3"        | 4 3/4" | 5 1/2"  | 4"      |
| 4"        | 4 3/4" | 5 1/2"  | 4"      |



**Note:** Funnel is ordered separately.  
See page 76 for details.

## Options for FD-200 Series:

| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -15    | Strainer Extension (DD-50)               | \$118.00   |
| P      | Push-On Outlet                             | \$48.75    | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| T      | Threaded Outlet                            | 115.00     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| None   | 6" Outlet No Hub Only                      | 115.00     | -F4-50 | 4" Round Cast Iron Funnel                | 139.50     |
| -5     | Sediment Bucket                            | 62.00      | F4-1   | 4" Round Nickel Bronze Funnel            | 290.00     |
| -6     | Vandal Proof                               | 48.75      | -F6-1  | 6" Round Nickel Bronze Funnel            | 749.00     |
| -7     | Trap Primer Tapping                        | No Add     | -G-50  | 4x9" Oval Cast Iron Funnel               | 189.50     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 115.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 395.50     |
| -12    | Galvanized Body                            | 177.00     | -S0    | Side Outlet (2, 3, 4" Only)              | 272.00     |



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# On-Grade Finished Area Floor Drains

## FD-200-ER Floor Drain with Extended Rim Strainer

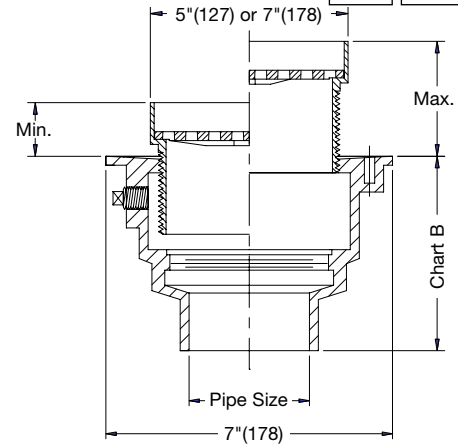


| Model Number      | Weight (lbs.) | Str. Size | Outlet Size | Strainer      | List Price |
|-------------------|---------------|-----------|-------------|---------------|------------|
| FD-202, 3, 4-ER5  | 11            | 5"        | 2, 3, 4"    | nickel bronze | \$868.49   |
| FD-202, 3, 4-ER7  | 12            | 7"        | 2, 3, 4"    | nickel bronze | 920.90     |
| FD-202, 3, 4, ER9 | 13            | 9"        | 2, 3, 4"    | nickel bronze | 1,329.63   |



| Chart A       |        |      |
|---------------|--------|------|
| Strainer Dia. | Min.   | Max. |
| 5"            | 1 3/4" | 3"   |
| 7"            | 1 3/4" | 3"   |
| 9"            | 1 3/4" | 3"   |

| Chart B   |        |         |         |
|-----------|--------|---------|---------|
| Pipe Size | No Hub | Push On | PVC/ABS |
| 2"        | 4 3/4" | 5 1/2"  | 4"      |
| 3"        | 4 3/4" | 5 1/2"  | 4"      |
| 4"        | 4 3/4" | 5 1/2"  | 4"      |



## FD-200-FC Floor Drain with Surface Membrane Clamp

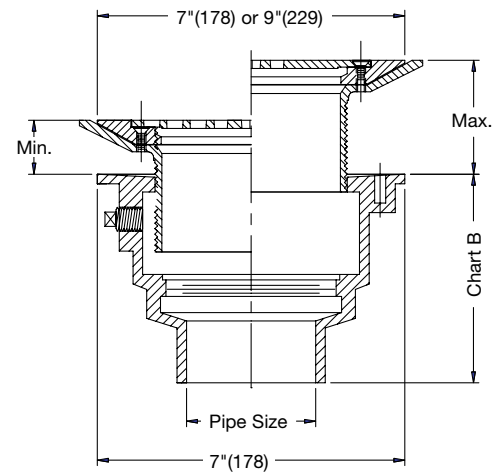


| Model Number       | Weight (lbs.) | Str. Size | Outlet Size | Strainer        | List Price |
|--------------------|---------------|-----------|-------------|-----------------|------------|
| FD-202, 3, 4-FC7   | 15            | 7"        | 2, 3, 4"    | nickel bronze   | \$662.81   |
| FD-202, 3, 4-FC7-3 | 15            | 7"        | 2, 3, 4"    | stainless steel | 1,077.12   |
| FD-202, 3, 4-FC9   | 16            | 9"        | 2, 3, 4"    | nickel bronze   | 1,254.08   |



| Chart A       |        |        |
|---------------|--------|--------|
| Strainer Dia. | Min.   | Max.   |
| 7"            | 1 1/2" | 2 3/4" |
| 9"            | 1 1/2" | 2 3/4" |

| Chart B   |        |         |         |
|-----------|--------|---------|---------|
| Pipe Size | No Hub | Push On | PVC/ABS |
| 2"        | 4 3/4" | 5 1/2"  | 4"      |
| 3"        | 4 3/4" | 5 1/2"  | 4"      |
| 4"        | 4 3/4" | 5 1/2"  | 4"      |



Note: Funnel are ordered separately. See page 76 for details.

### Options for FD-200 Series:

| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -15    | Strainer Extension (DD-50)               | \$118.00   |
| P      | Push-On Outlet                             | \$48.75    | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| T      | Threaded Outlet                            | 115.00     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| None   | 6" Outlet No Hub Only                      | 115.00     | -F4-50 | 4" Round Cast Iron Funnel                | 139.50     |
| -5     | Sediment Bucket                            | 62.00      | F4-1   | 4" Round Nickel Bronze Funnel            | 290.00     |
| -6     | Vandal Proof                               | 48.75      | -F6-1  | 6" Round Nickel Bronze Funnel            | 749.00     |
| -7     | Trap Primer Tapping                        | No Add     | -G-50  | 4x9" Oval Cast Iron Funnel               | 189.50     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 115.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 395.50     |
| -12    | Galvanized Body                            | 177.00     | -S0    | Side Outlet (2, 3, 4" Only)              | 272.00     |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



# On-Grade Finished Area Floor Drains

**FD-200-H**

**Floor Drain with Elastomeric Flange**

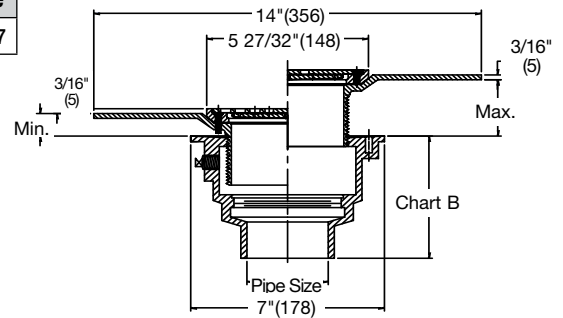


| Model Number   | Weight (lbs.) | Str. Size | Outlet Size | Strainer      | List Price |
|----------------|---------------|-----------|-------------|---------------|------------|
| FD-202, 3, 4-H | 15            | 6"        | 2, 3, 4"    | nickel bronze | \$1,307.47 |



| Chart A       |      |        |
|---------------|------|--------|
| Strainer Dia. | Min. | Max.   |
| 6"            | 1"   | 2 1/4" |

| Chart B   |        |         |         |
|-----------|--------|---------|---------|
| Pipe Size | No Hub | Push On | PVC/ABS |
| 2"        | 4 3/4" | 5 1/2"  | 4"      |
| 3"        | 4 3/4" | 5 1/2"  | 4"      |
| 4"        | 4 3/4" | 5 1/2"  | 4"      |



**FD-200-K**

**Floor Drain with Dome Strainer**

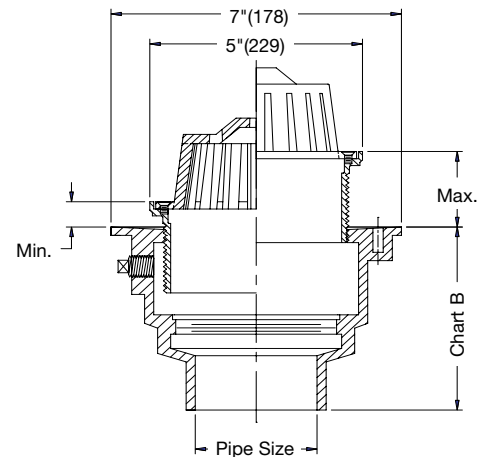


| Model Number      | Weight (lbs.) | Str. Size | Outlet Size | Strainer      | List Price |
|-------------------|---------------|-----------|-------------|---------------|------------|
| FD-202, 3, 4-K5-1 | 11            | 5" dome   | 2, 3, 4"    | nickel bronze | \$734.71   |



| Chart A       |      |        |
|---------------|------|--------|
| Strainer Dia. | Min. | Max.   |
| 5"            | 1"   | 2 1/4" |

| Chart B   |        |         |         |
|-----------|--------|---------|---------|
| Pipe Size | No Hub | Push On | PVC/ABS |
| 2"        | 4 3/4" | 5 1/2"  | 4"      |
| 3"        | 4 3/4" | 5 1/2"  | 4"      |
| 4"        | 4 3/4" | 5 1/2"  | 4"      |



*Note:* Funnels are ordered separately.  
See page 76 for details.

## Options for FD-200 Series:

| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -15    | Strainer Extension (DD-50)               | \$118.00   |
| P      | Push-On Outlet                             | \$48.75    | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| T      | Threaded Outlet                            | 115.00     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| None   | 6" Outlet No Hub Only                      | 115.00     | -F4-50 | 4" Round Cast Iron Funnel                | 139.50     |
| -5     | Sediment Bucket                            | 62.00      | F4-1   | 4" Round Nickel Bronze Funnel            | 290.00     |
| -6     | Vandal Proof                               | 48.75      | -F6-1  | 6" Round Nickel Bronze Funnel            | 749.00     |
| -7     | Trap Primer Tapping                        | No Add     | -G-50  | 4x9" Oval Cast Iron Funnel               | 189.50     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 115.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 395.50     |
| -12    | Galvanized Body                            | 177.00     | -S0    | Side Outlet (2, 3, 4" Only)              | 272.00     |



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# On-Grade Finished Area Floor Drains

## FD-200-L

### Floor Drain with Square Heavy Duty Strainer

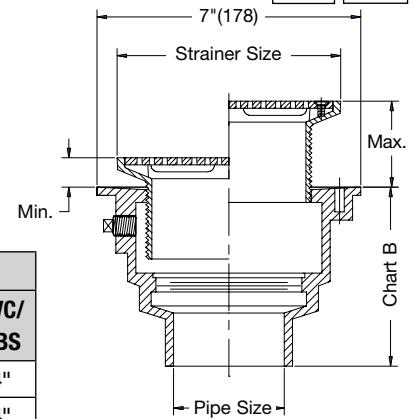


| Model Number    | Weight (lbs.) | Str. Size | Outlet Size | Strainer      | List Price |
|-----------------|---------------|-----------|-------------|---------------|------------|
| FD-202, 3, 4-L5 | 10            | 5" Sq.    | 2, 3, 4"    | nickel bronze | \$572.63   |
| FD-202, 3, 4-L6 | 14            | 6" Sq.    | 2, 3, 4"    | nickel bronze | 633.20     |
| FD-202, 3, 4-L8 | 16            | 8" Sq.    | 2, 3, 4"    | nickel bronze | 1,079.39   |



| Chart A       |        |         |
|---------------|--------|---------|
| Strainer Dia. | Min.   | Max.    |
| 5" x 5"       | 1 1/2" | 2 5/16" |
| 6" x 6"       | 1 1/2" | 2 5/16" |
| 8" x 8"       | 1 1/2" | 2 3/4"  |

| Chart B   |        |         |         |
|-----------|--------|---------|---------|
| Pipe Size | No Hub | Push On | PVC/ABS |
| 2"        | 4 3/4" | 5 1/2"  | 4"      |
| 3"        | 4 3/4" | 5 1/2"  | 4"      |
| 4"        | 4 3/4" | 5 1/2"  | 4"      |



## FD-200-RS

### Floor Drain with Rectangular Strainer

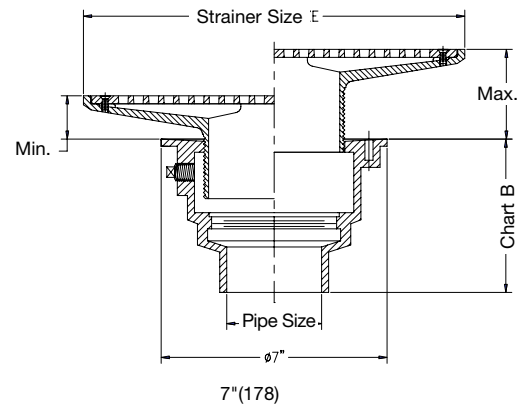


| Model Number       | Weight (lbs.) | Str. Size | Outlet Size | Strainer      | List Price |
|--------------------|---------------|-----------|-------------|---------------|------------|
| FD-202, 3, 4-RS48  | 12            | 4" x 8"   | 2, 3, 4"    | nickel bronze | \$777.21   |
| FD-202, 3, 4-RS412 | 14            | 4" x 12"  | 2, 3, 4"    | nickel bronze | 840.94     |
| FD-202, 3, 4-RS517 | 24            | 5" x 17"  | 2, 3, 4"    | nickel bronze | 1,587.56   |



| Chart A  |        |        |
|----------|--------|--------|
| Strainer | Min.   | Max.   |
| 4"x8"    | 1 1/2" | 2 3/4" |
| 4"x12"   | 1 1/2" | 3"     |
| 5"x17"   | 1 1/2" | 3 1/2" |

| Chart B   |        |         |         |
|-----------|--------|---------|---------|
| Pipe Size | No Hub | Push On | PVC/ABS |
| 2"        | 4 3/4" | 5 1/2"  | 4"      |
| 3"        | 4 3/4" | 5 1/2"  | 4"      |
| 4"        | 4 3/4" | 5 1/2"  | 4"      |



Note: Funnels are ordered separately. See page 76 for details.

### Options for FD-200 Series:

| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -15    | Strainer Extension (DD-50)               | \$118.00   |
| P      | Push-On Outlet                             | \$48.75    | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| T      | Threaded Outlet                            | 115.00     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| None   | 6" Outlet No Hub Only                      | 115.00     | -F4-50 | 4" Round Cast Iron Funnel                | 139.50     |
| -5     | Sediment Bucket                            | 62.00      | F4-1   | 4" Round Nickel Bronze Funnel            | 290.00     |
| -6     | Vandal Proof                               | 48.75      | -F6-1  | 6" Round Nickel Bronze Funnel            | 749.00     |
| -7     | Trap Primer Tapping                        | No Add     | -G-50  | 4x9" Oval Cast Iron Funnel               | 189.50     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 115.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 395.50     |
| -12    | Galvanized Body                            | 177.00     | -S0    | Side Outlet (2, 3, 4" Only)              | 272.00     |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



# On-Grade Finished Area Floor Drains

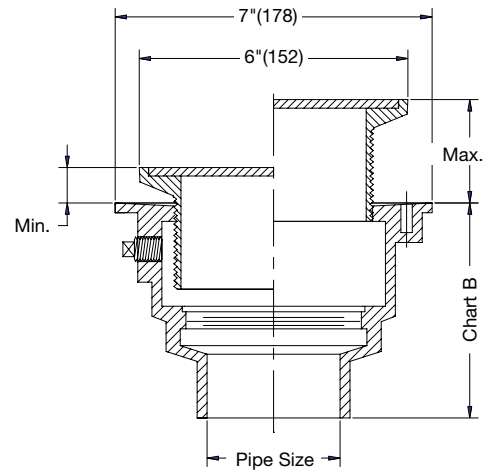
## FD-200-VD Floor Drain with Round Hinged Solid Cover



| Model Number    | Weight (lbs.) | Str. Size | Outlet Size | Strainer      | List Price |
|-----------------|---------------|-----------|-------------|---------------|------------|
| FD-202, 3, 4-VD | 15            | 6" cover  | 2, 3, 4"    | nickel bronze | \$964.49   |



| Chart B   |        |         |         |
|-----------|--------|---------|---------|
| Pipe Size | No Hub | Push On | PVC/ABS |
| 2"        | 4 3/4" | 5 1/2"  | 4"      |
| 3"        | 4 3/4" | 5 1/2"  | 4"      |
| 4"        | 4 3/4" | 5 1/2"  | 4"      |



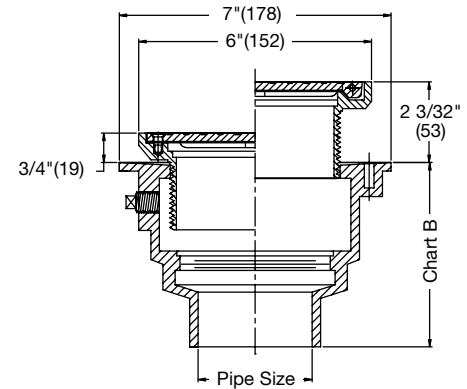
## FD-200-VS Floor Drain with Square Hinged Solid Cover



| Model Number    | Weight (lbs.) | Str. Size | Outlet Size | Strainer      | List Price |
|-----------------|---------------|-----------|-------------|---------------|------------|
| FD-202, 3, 4-VS | 15            | 6" x 6"   | 2, 3, 4"    | nickel bronze | \$1,550.74 |



| Chart B   |        |         |         |
|-----------|--------|---------|---------|
| Pipe Size | No Hub | Push On | PVC/ABS |
| 2"        | 4 3/4" | 5 1/2"  | 4"      |
| 3"        | 4 3/4" | 5 1/2"  | 4"      |
| 4"        | 4 3/4" | 5 1/2"  | 4"      |



**Note:** Funnels are ordered separately.  
See page 76 for details.

### Options for FD-200 Series:

| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -15    | Strainer Extension (DD-50)               | \$118.00   |
| P      | Push-On Outlet                             | \$48.75    | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| T      | Threaded Outlet                            | 115.00     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| None   | 6" Outlet No Hub Only                      | 115.00     | -F4-50 | 4" Round Cast Iron Funnel                | 139.50     |
| -5     | Sediment Bucket                            | 62.00      | F4-1   | 4" Round Nickel Bronze Funnel            | 290.00     |
| -6     | Vandal Proof                               | 48.75      | -F6-1  | 6" Round Nickel Bronze Funnel            | 749.00     |
| -7     | Trap Primer Tapping                        | No Add     | -G-50  | 4x9" Oval Cast Iron Funnel               | 189.50     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 115.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 395.50     |
| -12    | Galvanized Body                            | 177.00     | -S0    | Side Outlet (2, 3, 4" Only)              | 272.00     |



Consult factory for all applications outside of listed parameters.  
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# On-Grade Finished Area Floor Drains

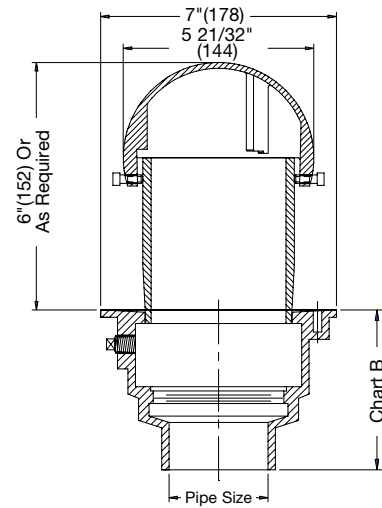
## FD-200-WD Floor Drain with Domed Standpipe



| Model Number    | Weight (lbs.) | Strainer Type   | Outlet Size | List Price |
|-----------------|---------------|-----------------|-------------|------------|
| FD-202, 3, 4-WD | 11            | domed standpipe | 2, 3, 4"    | \$994.11   |



| Chart B   |        |         |         |
|-----------|--------|---------|---------|
| Pipe Size | No Hub | Push On | PVC/ABS |
| 2"        | 4 3/4" | 5 1/2"  | 4"      |
| 3"        | 4 3/4" | 5 1/2"  | 4"      |
| 4"        | 4 3/4" | 5 1/2"  | 4"      |



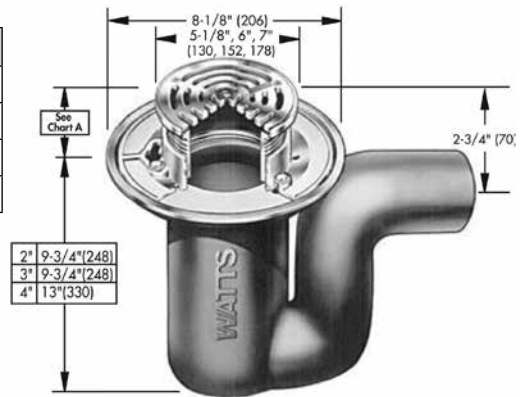
## FD-220-C Floor Drain with Integral Trap for Membrane Floor



| Model Number     | Weight (lbs.) | Str. Size | Outlet Size | Strainer      | List Price |
|------------------|---------------|-----------|-------------|---------------|------------|
| FD-223, 4-C-5-1  | 24            | 5"(127)   | 3, 4"       | nickel bronze | \$1,414.70 |
| FD-223, 4-C-6-1  | 42            | 6"(152)   | 3, 4"       | nickel bronze | 1,655.68   |
| FD-223, 4-C-A7-1 | 43            | 7"(178)   | 3, 4"       | nickel bronze | 1,698.95   |
| FD-223, 4-C-8-1  | 44            | 8"(203)   | 3, 4"       | nickel bronze | 1,946.85   |

Note: Funnels are ordered separately. See page 76 for details.

| Chart A   |           |            |
|-----------|-----------|------------|
| Str. Dia. | Min.      | Max.       |
| 2"(51)    | 7/16"(11) | 1 5/8"(41) |
| 3"(76)    | 5/8"(16)  | 1 7/8"(47) |
| 4"(102)   | 3/4"(19)  | 2 1/4"(56) |



## Options for FD-200 Series:

| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -15    | Strainer Extension (DD-50)               | \$118.00   |
| P      | Push-On Outlet                             | \$48.75    | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| T      | Threaded Outlet                            | 115.00     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| None   | 6" Outlet No Hub Only                      | 115.00     | -F4-50 | 4" Round Cast Iron Funnel                | 139.50     |
| -5     | Sediment Bucket                            | 62.00      | F4-1   | 4" Round Nickel Bronze Funnel            | 290.00     |
| -6     | Vandal Proof                               | 48.75      | -F6-1  | 6" Round Nickel Bronze Funnel            | 749.00     |
| -7     | Trap Primer Tapping                        | No Add     | -G-50  | 4x9" Oval Cast Iron Funnel               | 189.50     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 115.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 395.50     |
| -12    | Galvanized Body                            | 177.00     | -S0    | Side Outlet (2, 3, 4" Only)              | 272.00     |

Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.





# On-Grade Finished Area Floor Drains

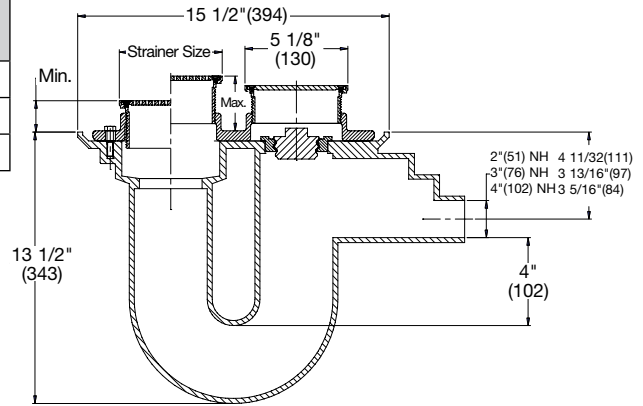
## FD-230-A

### Combined Floor Drain/Cleanout with Integral Trap

| Model Number | Weight (lbs.) | Str. Size | Outlet Size | Strainer      | List Price |
|--------------|---------------|-----------|-------------|---------------|------------|
| FD-233, 4-A5 | 57            | 5"        | 3, 4"       | nickel bronze | \$CF**     |
| FD-233, 4-A6 | 58            | 6"        | 3, 4"       | nickel bronze | CF**       |
| FD-233, 4-A7 | 60            | 7"        | 3, 4"       | nickel bronze | CF**       |



| Chart A   |         |        |
|-----------|---------|--------|
| Str. Size | Min.    | Max.   |
| 5" Dia.   | 1 7/16" | 2 1/4" |
| 6" Dia.   | 1 9/16" | 2 3/8" |
| 7" Dia.   | 1 1/16" | 3 1/4" |
| 5" Sq.    | 7/8"    | 3 1/4" |
| 6" Sq.    | 1"      | 3 1/4" |



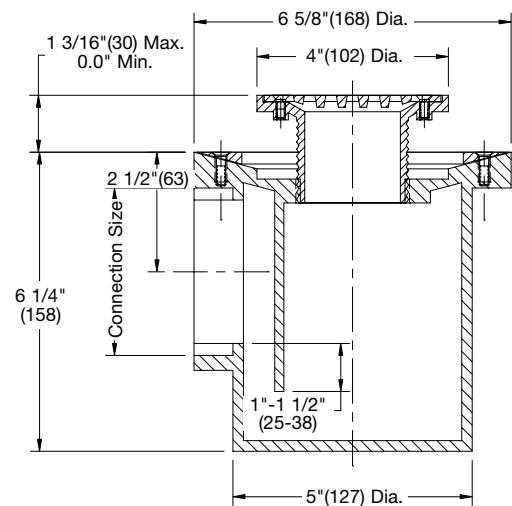
### Options for FD-230-A Series:

| Suffix | Description                                | List Price | Suffix | Description                    | List Price |
|--------|--|------------|--------|--------------------------------|------------|
| None   | No Hub Outlet                              | No Add     | -F4-50 | 4" Round Cast Iron Funnel      | \$139.50   |
| -5     | Sediment Bucket                            | \$62.00    | F4-1   | 4" Round Nickel Bronze Funnel  | 290.00     |
| -6     | Vandal Proof                               | 48.75      | -F6-1  | 6" Round Nickel Bronze Funnel  | 749.00     |
| -7     | Trap Primer Tapping                        | No Add     | -G-50  | 4x9" Oval Cast Iron Funnel     | 189.50     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 115.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel | 395.50     |
| -15    | Strainer Extension (DD-50)                 | 118.00     |        |                                |            |

## FD-240

### Prison Cell Floor Drain

| Model Number | Weight (lbs.) | Str. Size | Outlet Size | Strainer      | List Price |
|--------------|---------------|-----------|-------------|---------------|------------|
| FD-242,      | 15            | 4"        | 2"          | nickel bronze | \$1,176.46 |
| FD-243       | 14            | 4"        | 3"          | nickel bronze | 801.45     |



Note: Funnel are ordered separately.  
See page 76 for details.

### Options for FD-240 Series:

| Suffix | Description         | List Price |
|--------|---------------------|------------|
| -7     | Trap Primer Tapping | \$193.50   |



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Area Drains

## FD-300

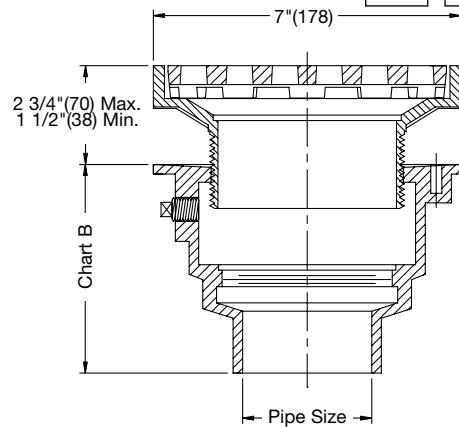
### Area Drain with 7" Adjustable Top



| Model Number     | Weight (lbs.) | Grate Size | Outlet Size | Grate        | List Price |
|------------------|---------------|------------|-------------|--------------|------------|
| FD-302, 3, 4     | 13            | 7"         | 2, 3, 4"    | ductile iron | \$397.57   |
| FD-302, 3, 4-101 | 18            | 7"         | 2, 3, 4"    | Solid NB     | CF**       |



| Chart B   |        |         |         |
|-----------|--------|---------|---------|
| Pipe Size | No Hub | Push On | PVC/ABS |
| 2"        | 4 3/4" | 5 1/2"  | 4"      |
| 3"        | 4 3/4" | 5 1/2"  | 4"      |
| 4"        | 4 3/4" | 5 1/2"  | 4"      |



## FD-310

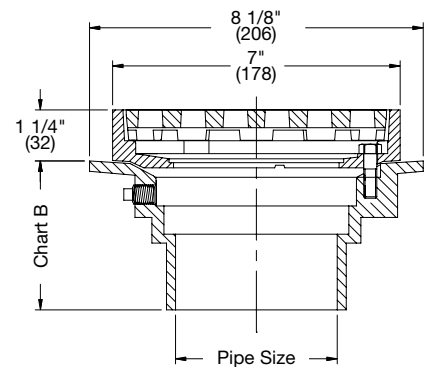
### Area Drain with 7" Fixed Top



| Model Number     | Weight (lbs.) | Grate Size | Outlet Size | Grate        | List Price |
|------------------|---------------|------------|-------------|--------------|------------|
| FD-312, 3, 4     | 13            | 7"         | 2, 3, 4"    | ductile iron | \$408.82   |
| FD-312, 3, 4-101 | 18            | 7"         | 2, 3, 4"    | Solid NB     | CF**       |



| Chart B   |        |         |               |              |         |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2"        | 3 5/8" | 3 5/8"  | 4 1/4"        | 4 1/4"       | 2 3/4"  |
| 3"        | 3 5/8" | 4"      | 4 1/4"        | 4 1/4"       | 3 5/8"  |
| 4"        | 3 5/8" | 4"      | 4 1/4"        | 4 1/4"       | 3 7/8"  |
| 6"        | 3 1/2" | -       | -             | -            | -       |



Note: Funnels are ordered separately. See page 76 for details.

### Options for FD-300, 310, 320, 330 Series:

| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -21    | Secondary Strainer                       | \$72.88    |
| P      | Push-On Outlet                             | \$44.31    | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 32.31      |
| T      | Threaded Outlet                            | 104.33     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 32.31      |
| None   | 6" Outlet No Hub Only                      | 180.28     | -F4-50 | 4" Round Cast Iron Funnel                | 126.72     |
| -5     | Sediment Bucket                            | 56.32      | F4-1   | 4" Round Nickel Bronze Funnel            | 263.36     |
| -6     | Vandal Proof                               | 44.31      | -F6-1  | 6" Round Nickel Bronze Funnel            | 680.74     |
| -7     | Trap Primer Tapping                        | No Add     | -G-50  | 4x9" Oval Cast Iron Funnel               | 172.24     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 104.33     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 359.40     |
| -12    | Hot Dipped Galvanized                      | 160.66     | -S0    | Side Outlet (2, 3, 4" Only)              | 247.15     |
| -15    | Strainer Extension (DD-50)                 | 106.86     |        |  |            |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



# Area Drains

**FD-320**

**Area Drain with 8" Adjustable Top**

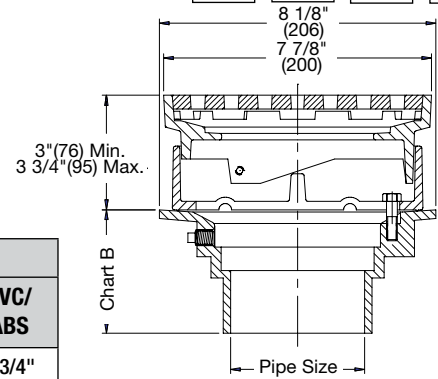


| Model Number   | Weight (lbs.) | Grate Size | Outlet Size | Grate         | List Price |
|----------------|---------------|------------|-------------|---------------|------------|
| FD-322, 3, 4   | 19            | 8"         | 2, 3, 4"    | ductile iron  | \$486.93   |
| FD-322, 3, 4-1 | 20            | 8"         | 2, 3, 4"    | nickel bronze | 1,182.16   |

**Note:** Canada collar includes slots.



| Chart B   |        |         |               |              |         |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2"        | 3 5/8" | 3 5/8"  | 4 1/4"        | 4 1/4"       | 2 3/4"  |
| 3"        | 3 5/8" | 4"      | 4 1/4"        | 4 1/4"       | 3 5/8"  |
| 4"        | 3 5/8" | 4"      | 4 1/4"        | 4 1/4"       | 3 7/8"  |
| 6"        | 3 1/2" | -       | -             | -            | -       |



**FD-320-SET**

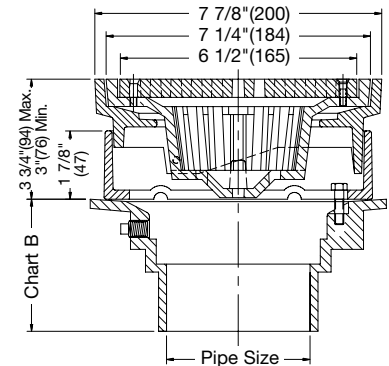
**Area Drain with 8" Adjustable Top, Grate Supported by Bucket**

| Model Number         | Weight (lbs.) | Grate Size | Outlet Size | Grate        | List Price |
|----------------------|---------------|------------|-------------|--------------|------------|
| FD-322, 3, 4-Set     | 19            | 8"         | 2, 3, 4"    | ductile iron | \$603.04   |
| FD-322, 3, 4-Set-101 | 19            | 8"         | 2, 3, 4"    | Solid NB     | P.O.A.     |

**Note:** Canada collar includes slots.



| Chart B   |        |         |               |              |         |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2"        | 3 5/8" | 3 5/8"  | 4 1/4"        | 4 1/4"       | 2 3/4"  |
| 3"        | 3 5/8" | 4"      | 4 1/4"        | 4 1/4"       | 3 5/8"  |
| 4"        | 3 5/8" | 4"      | 4 1/4"        | 4 1/4"       | 3 7/8"  |
| 6"        | 3 1/2" | -       | -             | -            | -       |



**Note:** Funnels are ordered separately. See page 76 for details.

## Options for FD-300, 310, 320, 330 Series:

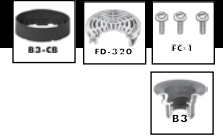
| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -21    | Secondary Strainer                       | \$80.25    |
| P      | Push-On Outlet                             | \$48.75    | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| T      | Threaded Outlet                            | 115.00     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 35.75      |
| None   | 6" Outlet No Hub Only                      | 198.50     | -F4-50 | 4" Round Cast Iron Funnel                | 139.50     |
| -5     | Sediment Bucket                            | 62.00      | F4-1   | 4" Round Nickel Bronze Funnel            | 290.00     |
| -6     | Vandal Proof                               | 48.75      | -F6-1  | 6" Round Nickel Bronze Funnel            | 749.00     |
| -7     | Trap Primer Tapping                        | No Add     | -G-50  | 4x9" Oval Cast Iron Funnel               | 189.50     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 115.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 395.50     |
| -12    | Hot Dipped Galvanized                      | 177.00     | -S0    | Side Outlet (2, 3, 4" Only)              | 272.00     |
| -15    | Strainer Extension (DD-50)                 | 118.00     |        |  |            |

**WATTS®** Consult factory for all applications outside of listed parameters. Prices do not include applicable taxes.

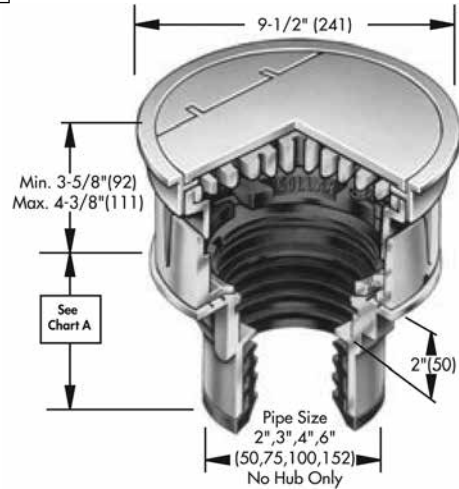
# Area Drains

**FD-320-25**

**Detention Area Floor Drain with Tamper Resistant Hinged Cover**



| Model Number      | Weight (lbs.) | Grate Size  | Outlet Size | Grate           | List Price |
|-------------------|---------------|-------------|-------------|-----------------|------------|
| FD-322, 3, 4-25-1 | 19            | 6 1/2"(165) | 2, 3, 4"    | NB Hinged Cover | \$1,312.33 |



**Chart A**

| Pipe Size | Std. No Hub | P Push On   | T Female Thread | X Inside Caulk | 60/61 PVC/ABS |
|-----------|-------------|-------------|-----------------|----------------|---------------|
| 2"(51)    | 3 5/8"(92)  | 4 1/4"(108) | 4 1/4"(108)     | 4 1/2"(114)    | 3 3/4"(95)    |
| 3"(76)    | 3 5/8"(92)  | 4 1/4"(108) | 4 1/4"(108)     | 4 1/2"(114)    | 3 3/4"(95)    |
| 4"(102)   | 3 5/8"(92)  | 4 1/4"(108) | 4 1/4"(108)     | 4 1/2"(114)    | 4"(102)       |
| 6"(152)   | 3 1/2"(89)  |             |                 |                |               |

**Options for FD-320-25 Series:**

| Suffix | Description          | List Price |
|--------|----------------------|------------|
| -P     | Push-On              | \$50.50    |
| -T     | Threaded Outlet      | 104.50     |
| 6"     | 6" Outlet MJ/NH Only | 104.50     |

Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.



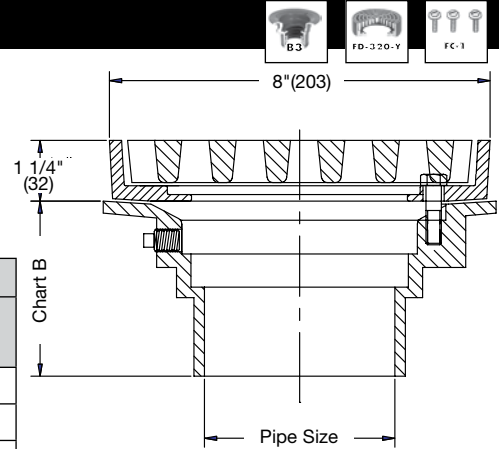
# Area Drains

## FD-320-Y Area Drain with 8" Fixed Top

| Model Number       | Weight (lbs.) | Grate Size | Outlet Size | Grate        | List Price |
|--------------------|---------------|------------|-------------|--------------|------------|
| FD-322, 3, 4-Y     | 19            | 8"         | 2, 3, 4"    | ductile iron | \$328.52   |
| FD-322, 3, 4-Y-101 | 20            | 8"         | 2, 3, 4"    | Solid NB     | 1,319.16   |



| Chart B   |        |         |               |              |         |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2"        | 3 5/8" | 3 5/8"  | 4 1/4"        | 4 1/4"       | 2 3/4"  |
| 3"        | 3 5/8" | 4"      | 4 1/4"        | 4 1/4"       | 3 5/8"  |
| 4"        | 3 5/8" | 4"      | 4 1/4"        | 4 1/4"       | 3 7/8"  |
| 6"        | 3 1/2" | -       | -             | -            | -       |



### Options for FD-320-Y Series:

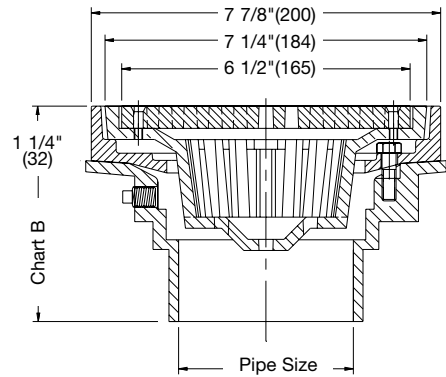
| Suffix | Description                              | List Price |
|--------|--|------------|
| -28    | All Type 304 Stainless Steel             | P.O.A.     |
| -5SS   | Type 304 Stainless Steel Sediment Bucket | \$445.00   |

## FD-320-Y-SET Area Drain with 8" Fixed Top, Grate Supported by Bucket

| Model Number           | Weight (lbs.) | Grate Size | Outlet Size | Grate        | List Price |
|------------------------|---------------|------------|-------------|--------------|------------|
| FD-322, 3, 4-Y-SET     | 19            | 8"         | 2, 3, 4"    | ductile iron | \$450.45   |
| FD-322, 3, 4-Y-SET-101 | 19            | 8"         | 2, 3, 4"    | Solid NB     | \$127.86   |



| Chart B   |        |         |               |              |         |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2"        | 3 5/8" | 3 5/8"  | 4 1/4"        | 4 1/4"       | 2 3/4"  |
| 3"        | 3 5/8" | 4"      | 4 1/4"        | 4 1/4"       | 3 5/8"  |
| 4"        | 3 5/8" | 4"      | 4 1/4"        | 4 1/4"       | 3 7/8"  |
| 6"        | 3 1/2" | -       | -             | -            | -       |



*Note:* Funnels are ordered separately. See page 76 for details.

### Options for FD-300, 310, 320, 330 Series:

| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -21    | Secondary Strainer                       | \$80.25    |
| P      | Push-On Outlet                             | \$48.75    | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 36.50      |
| T      | Threaded Outlet                            | 115.00     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 36.50      |
| None   | 6" Outlet No Hub Only                      | 198.50     | -F4-50 | 4" Round Cast Iron Funnel                | 139.50     |
| -5     | Sediment Bucket                            | 62.00      | F4-1   | 4" Round Nickel Bronze Funnel            | 290.00     |
| -6     | Vandal Proof                               | 48.75      | -F6-1  | 6" Round Nickel Bronze Funnel            | 749.00     |
| -7     | Trap Primer Tapping                        | No Add     | -G-50  | 4x9" Oval Cast Iron Funnel               | 189.50     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 115.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 395.50     |
| -12    | Hot Dipped Galvanized                      | 177.00     | -S0    | Side Outlet (2, 3, 4" Only)              | 273.50     |
| -15    | Strainer Extension (DD-50)                 | 118.00     |        |  |            |

# Area Drains

## FD-330 Area Drain with 8" x 8" Adjustable Top

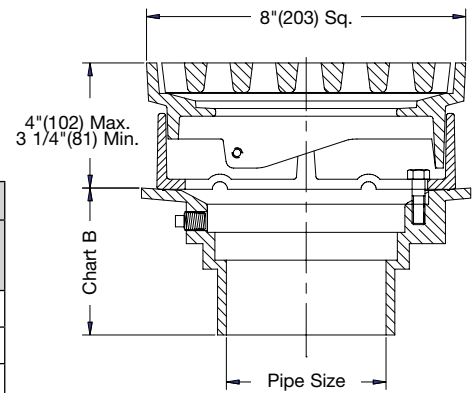


| Model Number   | Weight (lbs.) | Grate Size | Outlet Size | Grate         | List Price |
|----------------|---------------|------------|-------------|---------------|------------|
| FD-332, 3, 4   | 22            | 8" Sq.     | 2, 3, 4"    | ductile iron  | CF**       |
| FD-332, 3, 4-1 | 23            | 8" Sq.     | 2, 3, 4"    | nickel bronze | 2,014.12   |

**Note:** Canada collar includes slots.



| Chart B   |        |         |               |              |         |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2"        | 3 5/8" | 3 5/8"  | 4 1/4"        | 4 1/4"       | 2 3/4"  |
| 3"        | 3 5/8" | 4"      | 4 1/4"        | 4 1/4"       | 3 5/8"  |
| 4"        | 3 5/8" | 4"      | 4 1/4"        | 4 1/4"       | 3 7/8"  |
| 6"        | 3 1/2" | -       | -             | -            | -       |



### Options for FD-330 Series:

| Suffix | Description  | List Price |
|--------|--------------|------------|
| -9     | Hinged Grate | \$335.50   |

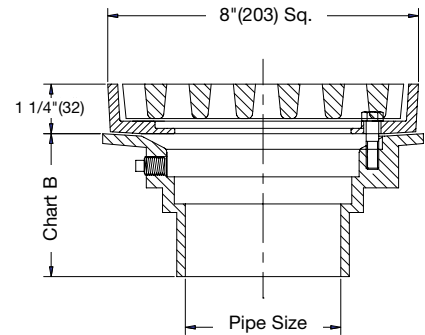
## FD-330-Y Area Drain with 8" x 8" Fixed Top



| Model Number       | Weight (lbs.) | Grate Size | Outlet Size | Grate        | List Price |
|--------------------|---------------|------------|-------------|--------------|------------|
| FD-332, 3, 4-Y-4   | 22            | 8" Sq.     | 2, 3, 4"    | ductile iron | \$CF**     |
| FD-332, 3, 4-Y-101 | 23            | 8" Sq.     | 2, 3, 4"    | Solid NB     | 1,544.70   |



| Chart B   |        |         |               |              |         |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2"        | 3 5/8" | 3 5/8"  | 4 1/4"        | 4 1/4"       | 2 3/4"  |
| 3"        | 3 5/8" | 4"      | 4 1/4"        | 4 1/4"       | 3 5/8"  |
| 4"        | 3 5/8" | 4"      | 4 1/4"        | 4 1/4"       | 3 7/8"  |
| 6"        | 3 1/2" | -       | -             | -            | -       |



### Options for FD-330-Y Series:

| Suffix | Description  | List Price |
|--------|--------------|------------|
| -9     | Hinged Grate | \$335.50   |

### Options for FD-300, 310, 320, 330 Series:

| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -21    | Secondary Strainer                       | \$80.25    |
| P      | Push-On Outlet                             | \$48.75    | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 36.50      |
| T      | Threaded Outlet                            | 115.00     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 36.50      |
| None   | 6" Outlet No Hub Only                      | 198.50     | -F4-50 | 4" Round Cast Iron Funnel                | 139.50     |
| -5     | Sediment Bucket                            | 62.00      | F4-1   | 4" Round Nickel Bronze Funnel            | 290.00     |
| -6     | Vandal Proof                               | 48.75      | -F6-1  | 6" Round Nickel Bronze Funnel            | 749.00     |
| -7     | Trap Primer Tapping                        | No Add     | -G-50  | 4x9" Oval Cast Iron Funnel               | 189.50     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 115.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 395.50     |
| -12    | Hot Dipped Galvanized                      | 177.00     | -S0    | Side Outlet (2, 3, 4" Only)              | 273.50     |
| -15    | Strainer Extension (DD-50)                 | 118.00     |        |  |            |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



# Area Drains

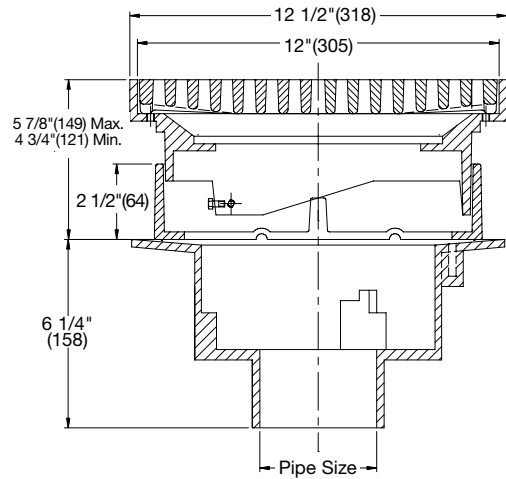
**FD-340**

**Area Drain with 12" Round Adjustable Top**



| Model Number         | Weight (lbs.) | Grate Size | Outlet Size       | Grate        | List Price |
|----------------------|---------------|------------|-------------------|--------------|------------|
| FD-342,3,4,5,6,8     | 62            | 12"        | 2, 3, 4, 5, 6, 8" | ductile iron | \$1,277.84 |
| FD-342,3,4,5,6,8-101 | 62            | 12"        | 2, 3, 4, 5, 6, 8" | Solid NB     | 3,969.04   |

*Note:* Canada does not use the B2-CB Collar shown.

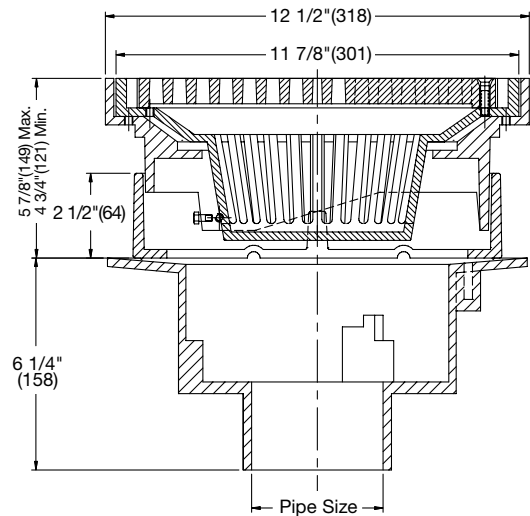


**FD-340-SET**

**Area Drain with 12" Round Adjustable Top, Grate Supported By Bucket**

| Model Number             | Weight (lbs.) | Grate Size | Outlet Size       | Grate        | List Price |
|--------------------------|---------------|------------|-------------------|--------------|------------|
| FD-342,3,4,5,6,8-SET     | 62            | 12"        | 2, 3, 4, 5, 6, 8" | ductile iron | \$988.18   |
| FD-342,3,4,5,6,8-SET-101 | 62            | 12"        | 2, 3, 4, 5, 6, 8" | Solid NB     | 5,276.47   |

*Note:* Canada does not use collar shown below.



*Note:* Funnels are ordered separately. See page 76 for details.

**Options for FD-340, FD-340-Y Series:**

| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -21    | Secondary Strainer                       | \$87.50    |
| P      | Push-On Outlet                             | \$48.75    | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 36.50      |
| T      | Threaded Outlet                            | 115.00     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 36.50      |
| -5     | Sediment Bucket                            | 210.00     | -F4-50 | 4" Round Cast Iron Funnel                | 140.50     |
| -6     | Vandal Proof                               | 49.25      | F4-1   | 4" Round Nickel Bronze Funnel            | 290.00     |
| -7     | Trap Primer Tapping                        | No Add     | -F6-1  | 6" Round Nickel Bronze Funnel            | 749.00     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 115.00     | -G-50  | 4x9" Oval Cast Iron Funnel               | 189.50     |
| -12    | Hot Dipped Galvanized                      | 177.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 395.50     |
| -15    | Strainer Extension (DD-50)                 | 118.00     | -S0    | Side Outlet (2, 3, 4" Only)              | 286.50     |

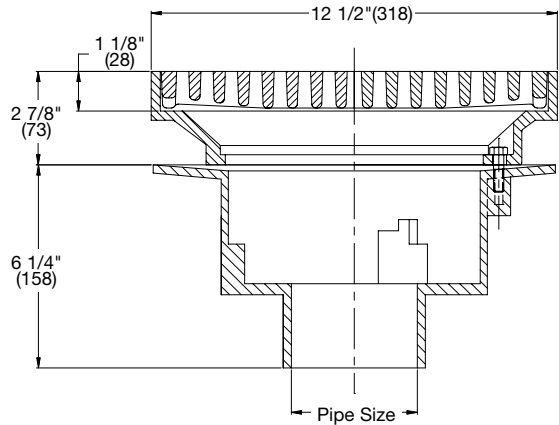
# Area Drains

## FD-340-Y

### Area Drain with 12" Round Fixed Top



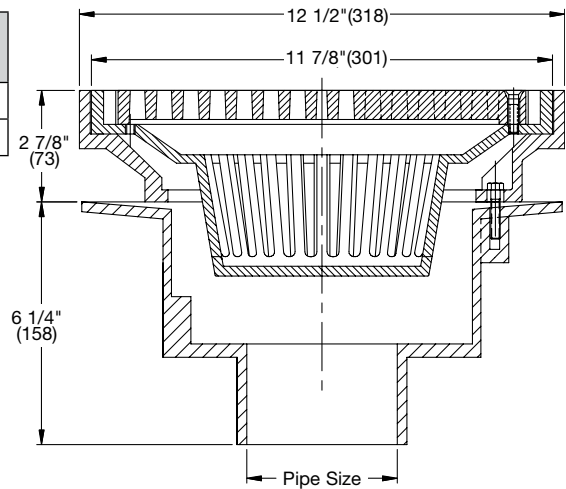
| Model Number           | Weight (lbs.) | Grate Size | Outlet Size  | Grate        | List Price |
|------------------------|---------------|------------|--------------|--------------|------------|
| FD-342,3,4,5,6,8-Y     | 60            | 12"        | 2,3,4,5,6,8" | ductile iron | \$953.23   |
| FD-342,3,4,5,6,8-Y-101 | 60            | 12"        | 2,3,4,5,6,8" | Solid NB     | 3,106.08   |



## FD-340-Y-SET

### Area Drain with 12" Round Fixed Top Grate Supported By Bucket

| Model Number               | Weight (lbs.) | Grate Size | Outlet Size  | Grate        | List Price |
|----------------------------|---------------|------------|--------------|--------------|------------|
| FD-342,3,4,5,6,8-Y-SET     | 60            | 12"        | 2,3,4,5,6,8" | ductile iron | \$1,202.32 |
| FD-342,3,4,5,6,8-Y-SET-101 | 60            | 12"        | 2,3,4,5,6,8" | Solid NB     | 7,312.57   |



*Note:* Funnels are ordered separately.  
See page 76 for details.

### Options for FD-340, FD-340-Y Series:

| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -21    | Secondary Strainer                       | \$87.50    |
| P      | Push-On Outlet                             | \$49.25    | -34    | Closure Plug                             | 157.00     |
| T      | Threaded Outlet                            | 115.00     | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 36.50      |
| -5     | Sediment Bucket                            | 210.00     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 36.50      |
| -6     | Vandal Proof                               | 49.25      | -F4-50 | 4" Round Cast Iron Funnel                | 140.50     |
| -7     | Trap Primer Tapping                        | No Add     | F4-1   | 4" Round Nickel Bronze Funnel            | 290.00     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 115.00     | -F6-1  | 6" Round Nickel Bronze Funnel            | 749.00     |
| -12    | Hot Dipped Galvanized                      | 177.00     | -G-50  | 4x9" Oval Cast Iron Funnel               | 189.50     |
| -15    | Strainer Extension (DD-50)                 | 118.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 395.50     |
|        |  |            | -S0    | Side Outlet (2, 3, 4" Only)              | 286.50     |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.





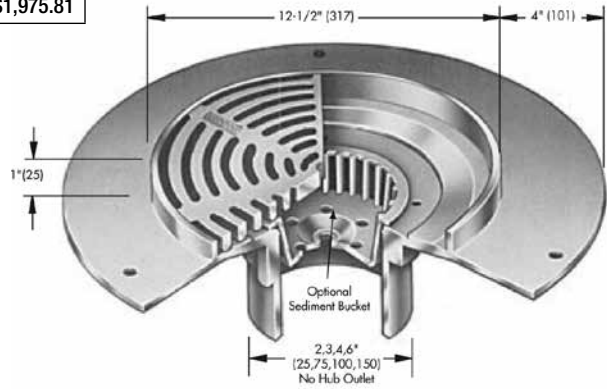
# Area Drains

**FD-340-67**

**Floor Drain for Pre-Cast Slabs**



| Model Number          | Weight (lbs.) | Grate Size | Outlet Size    | Grate        | List Price |
|-----------------------|---------------|------------|----------------|--------------|------------|
| FD-342,3,4,5,6,8-4-67 | 62            | 12"(305)   | 2, 3, 4, 6, 8" | ductile iron | \$1,975.81 |



### Options for FD-340-67 Series:

| Suffix | Description     | List Price |
|--------|-----------------|------------|
| P      | Push-On         | \$49.25    |
| T      | Threaded Outlet | 104.50     |



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

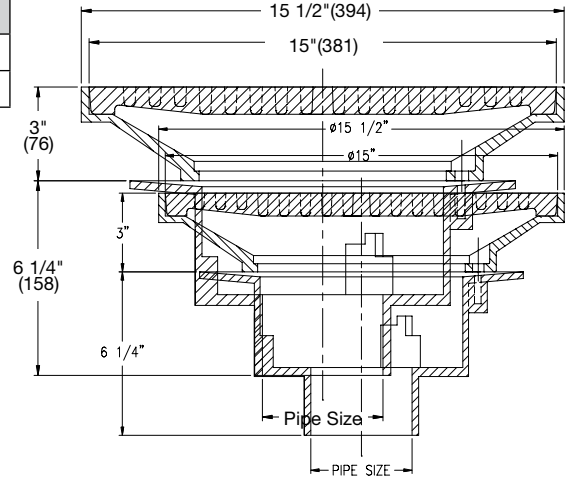
# Area Drains

**FD-360-Y**

**Area Drain with 15" Round Fixed Top**



| Model Number           | Weight (lbs.) | Grate Size | Outlet Size       | Grate        | List Price |
|------------------------|---------------|------------|-------------------|--------------|------------|
| FD-362,3,4,5,6,8-Y     | 110           | 15"        | 2, 3, 4, 5, 6, 8" | ductile iron | \$1,440.01 |
| FD-362,3,4,5,6,8-Y-101 | 110           | 15"        | 2, 3, 4, 5, 6, 8" | Solid NB     | 4,387.97   |



*Note:* Funnels are ordered separately. See page 76 for details.

## Options for FD-360, FD-360-Y Series:

| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -21    | Secondary Strainer                       | \$87.50    |
| P      | Push-On Outlet                             | \$49.25    | -34    | Closure Plug                             | 157.00     |
| T      | Threaded Outlet                            | 115.00     | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 36.50      |
| -5     | Sediment Bucket                            | 210.00     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 36.50      |
| -6     | Vandal Proof                               | 49.25      | -F4-50 | 4" Round Cast Iron Funnel                | 140.50     |
| -7     | Trap Primer Tapping                        | No Add     | F4-1   | 4" Round Nickel Bronze Funnel            | 290.00     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 115.00     | -F6-1  | 6" Round Nickel Bronze Funnel            | 749.00     |
| -12    | Hot Dipped Galvanized                      | 177.00     | -G-50  | 4x9" Oval Cast Iron Funnel               | 189.50     |
| -15    | Strainer Extension (DD-50)                 | 118.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 395.50     |
|        |  |            | -S0    | Side Outlet (2, 3, 4" Only)              | 286.50     |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

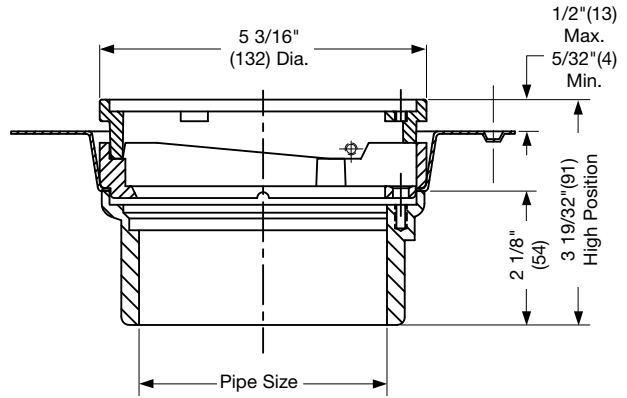


# Area & General Purpose Floor Drains

**FD-380**

**Adjustable Wood Floor Drain**

| Model Number | Weight (lbs.) | Grate Size | Outlet Size | Grate         | List Price |
|--------------|---------------|------------|-------------|---------------|------------|
| FD-382,3,4   | 7             | 5"         | 2, 3, 4"    | nickel bronze | \$695.92   |

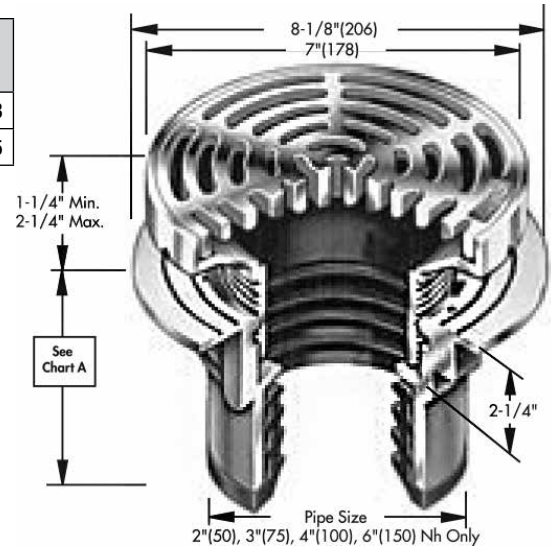


**FD-390**

**Floor Drain with 7\"/>**



| Model Number     | Weight (lbs.) | Grate Size | Outlet Size | Grate | List Price |
|------------------|---------------|------------|-------------|-------|------------|
| FD-392, 3, 4-101 | 14            | 7\"/>      |             |       |            |
| FD-392, 3, 4-4   | 14            | 7\"/>      |             |       |            |



| Chart B   |             |           |                |
|-----------|-------------|-----------|----------------|
| Pipe Size | Std. No Hub | P Push On | 60/61 PVC/ ABS |
| 2\"/>     |             |           |                |
| 3\"/>     |             |           |                |
| 4\"/>     |             |           |                |
| 6\"/>     |             |           |                |

*Note:* Funnels are ordered separately.  
See page 76 for details.

**Options for FD-390 Series:**

| Suffix | Description | List Price |
|--------|-------------|------------|
| P      | Push-On     | \$49.25    |



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Area Drains

**FD-450**

**Area Drain with 15" x 15" Adjustable Top**

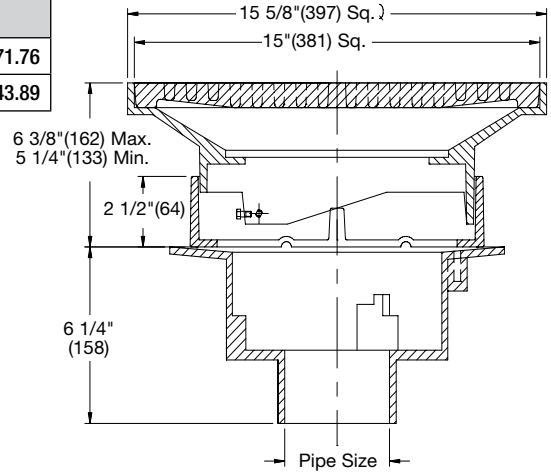


| Model Number         | Weight (lbs.) | Grate Size       | Outlet Size       | Grate        | List Price |
|----------------------|---------------|------------------|-------------------|--------------|------------|
| FD-452,3,4,5,6,8     | 120           | 15"(381) Sq.     | 2, 3, 4, 5, 6, 8" | ductile iron | \$2,171.76 |
| FD-452,3,4,5,6,8-101 | 120           | 15 1/2"(394) Sq. | 2, 3, 4, 5, 6, 8" | Solid NB     | 12,843.89  |

**Note:** Canada does not use the B2-CB Collar shown.



**Note:** Funnels are ordered separately. See page 76 for details.



**FD-450-F**

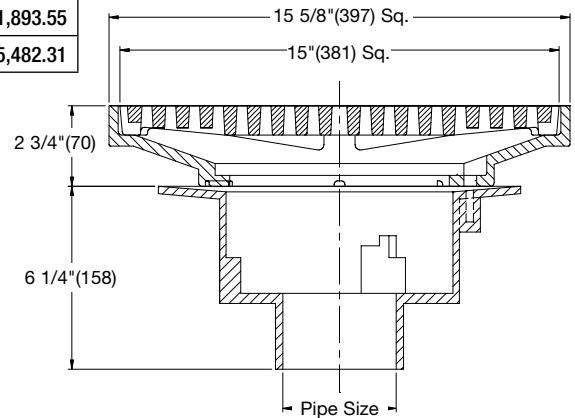
**Area Drain with 15" x 15" Fixed Top**



| Model Number           | Weight (lbs.) | Grate Size       | Outlet Size       | Grate        | List Price |
|------------------------|---------------|------------------|-------------------|--------------|------------|
| FD-452,3,4,5,6,8-F     | 120           | 15"(381) Sq.     | 2, 3, 4, 5, 6, 8" | ductile iron | \$1,893.55 |
| FD-452,3,4,5,6,8-F-101 | 120           | 15 1/2"(394) Sq. | 2, 3, 4, 5, 6, 8" | Solid NB     | 5,482.31   |



**Note:** Funnels are ordered separately. See page 76 for details.



## Options for FD-450, FD-450-F Series:

| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -34    | Closure Plug                             | \$157.00   |
| P      | Push-On Outlet                             | \$49.25    | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 36.50      |
| T      | Threaded Outlet                            | 96.75      | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 36.50      |
| -5     | Sediment Bucket                            | 233.50     | -F4-50 | 4" Round Cast Iron Funnel                | 140.50     |
| -6     | Vandal Proof                               | 49.25      | F4-1   | 4" Round Nickel Bronze Funnel            | 290.00     |
| -7     | Trap Primer Tapping                        | No Add     | -F6-1  | 6" Round Nickel Bronze Funnel            | 749.00     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 118.50     | -G-50  | 4x9" Oval Cast Iron Funnel               | 189.50     |
| -12    | Hot Dipped Galvanized                      | 177.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 395.50     |
| -15    | Strainer Extension (DD-50)                 | 118.00     | -S0    | Side Outlet (2, 3, 4" Only)              | 286.50     |
| -21    | Secondary Strainer                         | 87.50      |        |  |            |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



# Area Drains

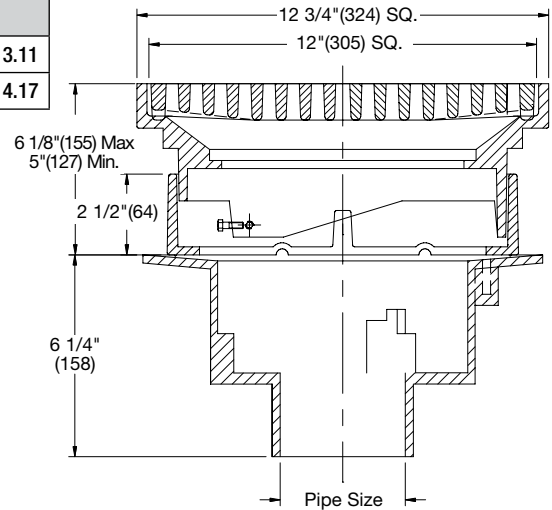
**FD-460**

**Area Drain with 12" Square Adjustable Top**



| Model Number       | Weight (lbs.) | Grate Size   | Outlet Size       | Grate         | List Price |
|--------------------|---------------|--------------|-------------------|---------------|------------|
| FD-462,3,4,5,6,8   | 70            | 12"(305)     | 2, 3, 4, 5, 6, 8" | ductile iron  | \$1,813.11 |
| FD-462,3,4,5,6,8-1 | 70            | 12 1/2"(318) | 2, 3, 4, 5, 6, 8" | nickel bronze | 2,914.17   |

*Note:* Canada does not use the B2-CB Collar shown.

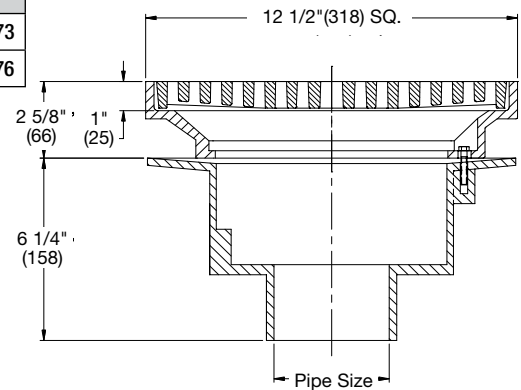


**FD-460-F**

**Area Drain with 12" Square Fixed Top**



| Model Number         | Weight (lbs.) | Grate Size       | Outlet Size       | Grate         | List Price |
|----------------------|---------------|------------------|-------------------|---------------|------------|
| FD-462,3,4,5,6,8-F   | 85            | 12"(305) Sq.     | 2, 3, 4, 5, 6, 8" | ductile iron  | \$1,093.73 |
| FD-462,3,4,5,6,8-F-1 | 85            | 12 1/2"(318) Sq. | 2, 3, 4, 5, 6, 8" | nickel bronze | 2,206.76   |



*Note:* Funnels are ordered separately. See page 76 for details.

## Options for FD-460, FD-460-F Series:

| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -21    | Secondary Strainer                       | \$87.50    |
| P      | Push-On Outlet                             | \$49.25    | -34    | Closure Plug                             | 157.00     |
| T      | Threaded Outlet                            | 96.75      | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 36.50      |
| -5     | Sediment Bucket                            | 233.50     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 36.50      |
| -6     | Vandal Proof                               | 49.25      | -F4-50 | 4" Round Cast Iron Funnel                | 140.50     |
| -7     | Trap Primer Tapping                        | No Add     | F4-1   | 4" Round Nickel Bronze Funnel            | 290.00     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 118.50     | -F6-1  | 6" Round Nickel Bronze Funnel            | 749.00     |
| -12    | Hot Dipped Galvanized                      | 177.00     | -G-50  | 4x9" Oval Cast Iron Funnel               | 189.50     |
| -15    | Strainer Extentsion                        | 118.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 395.50     |
|        |  |            | -S0    | Side Outlet (2, 3, 4" Only)              | 286.50     |



Consult factory for all applications outside of listed parameters. Prices do not include applicable taxes.

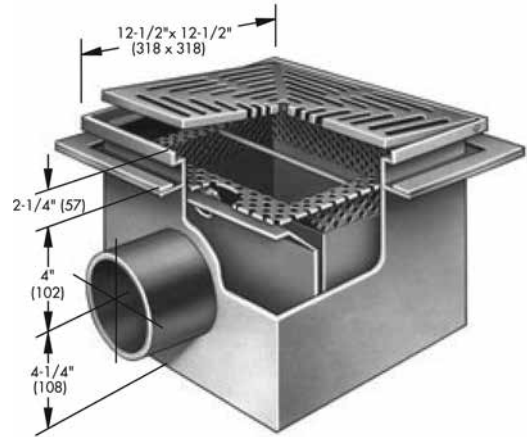
# Area Drains

**FD-460-F-9-46      Area Drain with 12" Square Adjustable Top**

| Model Number        | Weight (lbs.) | Grate Size  | Outlet Size | Grate        | List Price |
|---------------------|---------------|-------------|-------------|--------------|------------|
| FD-462,3,4,6-F-9-46 | 216           | 12-1/2" Sq. | 2, 3, 4, 6" | ductile iron | P.O.A.     |

**Options for FD-460-F-9-46:**

| Suffix | Option  | List Price |
|--------|---|------------|
| -C     | Membrane Clamp                                    | P.O.A.     |
| -X     | Special Dimension, per inch of invert             | P.O.A.     |
| -3     | Stainless Steel Trap                              | P.O.A.     |
| -5     | Sediment Bucket                                   | P.O.A.     |
| -6     | Vandal Proof Grate                                | P.O.A.     |
| -9     | Hinged Grate                                      | P.O.A.     |
| -12    | Galvanized Top                                    | P.O.A.     |
| -13    | All Galvanized                                    | P.O.A.     |
| -19    | Deflector Grate                                   | P.O.A.     |
| -21    | Secondary Strainer                                | P.O.A.     |
| -23    | Chained Grate                                     | P.O.A.     |
| -26    | Hinged Locking Grate                              | P.O.A.     |
| -28    | All Stainless Steel Body, EHD Fabricated SS Grate | P.O.A.     |
| -35    | Bronze Mesh Bucket                                | P.O.A.     |
| -113M  | Special Epoxy from 3M product selection           | P.O.A.     |



Consult factory for all applications outside of listed parameters.

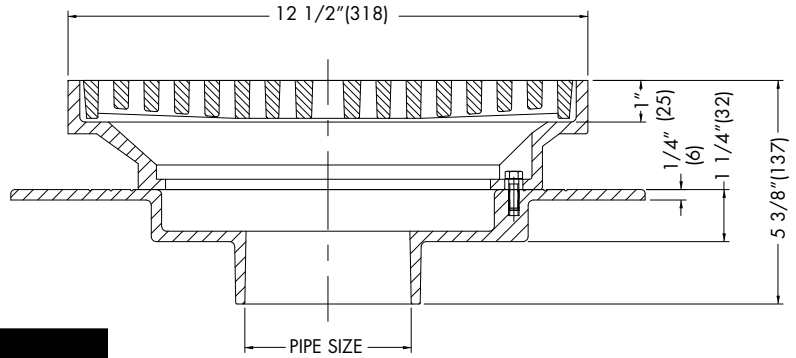
Prices do not include applicable taxes.



# Area Drains

## FD-480-F-1      12" x 12" Shallow Body Promenade Drian

| Model Number        | Weight (lbs.) | Grate Size | Outlet Size | Grate         | List Price |
|---------------------|---------------|------------|-------------|---------------|------------|
| FD-483,4,6, 8-F-101 | 81            | 12" Sq.    | 3, 4, 6, 8" | Solid NB      | \$4,060.17 |
| FD-483,4,6, 8-F-4   | 81            | 12" Sq.    | 3, 4, 6, 8" | nickel bronze | P.O.A.     |



### Options for FD-480-F-1 Series:

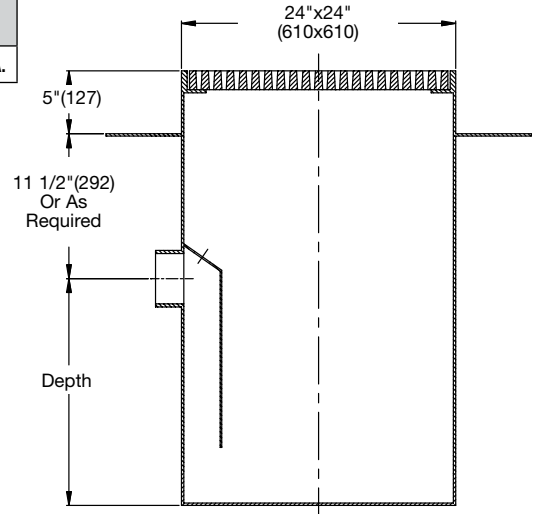
| Suffix | Description                  | List Price |
|--------|------------------------------|------------|
| -5     | Sediment Bucket              | \$332.00   |
| -6     | Vandal Proof                 | 189.50     |
| -D     | Underdeck Clamp              | 313.50     |
| -E     | Slotted Extension (Per 3/4") | 313.50     |

# Parking Area Drains

## FD-410

## Parking Area Catch Basin with Heavy Duty Grate

| Model Number           | Weight (lbs.) | Grate Size   | Outlet Size | Grate     | List Price |
|------------------------|---------------|--------------|-------------|-----------|------------|
| FD-413,4,6 (A,B,C,D,E) | 800           | 20 x 20 1/2" | 3, 4, 6"    | cast iron | P.O.A.     |



### Options for FD-410 Series:

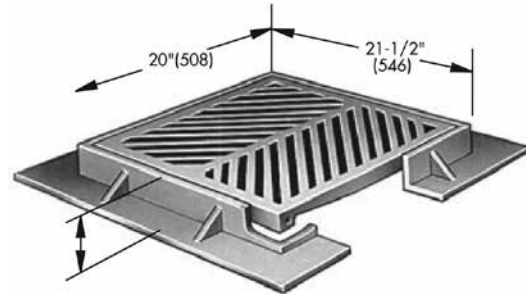
| Suffix | Description           | List Price |
|--------|-----------------------|------------|
| -6     | Vandal Proof          | P.O.A.     |
| -Q     | Special Dimension     | P.O.A.     |
| -SI    | Side Inlet Connection | P.O.A.     |
| -ST    | Solid Top             | No Add     |
| -T     | Threaded Outlet       | P.O.A.     |

| Pipe Size | Depth    |          |          |          |         |
|-----------|----------|----------|----------|----------|---------|
|           | (A)      | (B)      | (C)      | (D)      | (E)     |
| 3, 4, 6"  | 18"(457) | 24"(610) | 30"(762) | 36"(914) | Special |

## FD-420

## Parking Area Catch Basin Frame & Grate

| Model Number | Weight (lbs.) | Grate Size   | Outlet Size | Grate     | List Price  |
|--------------|---------------|--------------|-------------|-----------|-------------|
| FD-420-50    | 350           | 20 x 20-1/2" | n/a         | cast iron | \$31,876.83 |



*Note:* Funnels are ordered separately.  
See page 76 for details.

Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.



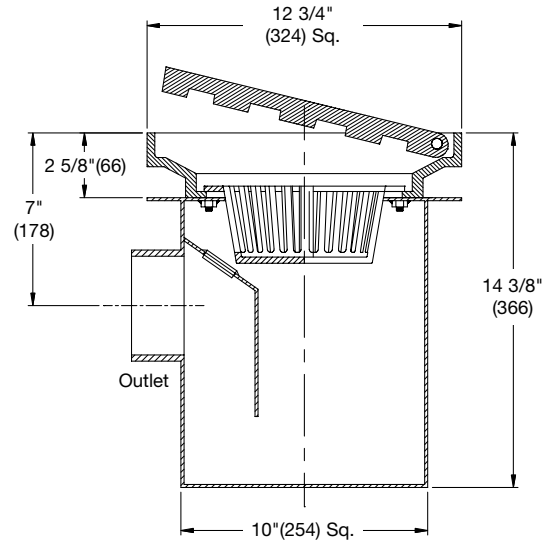


# Parking Area Drains

**FD-430**

**Side Outlet Area Drain with Hinged Grate**

| Model Number | Weight (lbs.) | Grate Size  | Outlet Size | Grate         | List Price |
|--------------|---------------|-------------|-------------|---------------|------------|
| FD-432,3,4,6 | 63            | 12 1/2" Sq. | 2, 3, 4, 6" | ductile iron  | \$2,107.86 |
| FD-432,3,4-1 | 63            | 12 1/2" Sq. | 2, 3, 4"    | nickel bronze | 6,861.91   |



*Note:* Funnels are ordered separately.  
See page 76 for details.

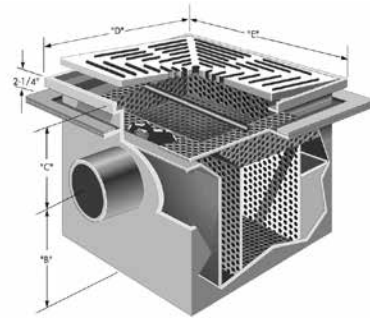
## Options for FD-430 Series:

| Suffix | Description     | List Price |
|--------|-----------------|------------|
| -6     | Vandal Proof    | P.O.A.     |
| -T     | Threaded Outlet | P.O.A.     |

**FD-440**

**Sediment & Oil Intercepting Drain**

| Model Number | Weight (lbs.) | Grate Size      | Outlet Size | Grate        | List Price |
|--------------|---------------|-----------------|-------------|--------------|------------|
| FD-440-12    | n/a           | 12 1/2" Sq.     | 2, 3, 4, 6" | ductile iron | P.O.A.     |
| FD-440-60    | n/a           | 24-1/2"x12-1/2" | 2, 3, 4, 6" | ductile iron | P.O.A.     |
| FD-440-100   | n/a           | 24-1/2" Sq.     | 2, 3, 4, 6" | ductile iron | P.O.A.     |
| FD-440-200   | n/a           | 36-1/2"x24-1/2" | 2, 3, 4, 6" | ductile iron | P.O.A.     |



## Options for FD-440 Series:

| Suffix | Description                   | List Price |
|--------|-------------------------------|------------|
| -C     | Membrane Clamp - 12"          | P.O.A.     |
| -C     | Membrane Clamp - 60"          | P.O.A.     |
| -C     | Membrane Clamp - 100"         | P.O.A.     |
| -C     | Membrane Clamp - 200"         | P.O.A.     |
| -X     | Special "C" Dimension, per 3" | P.O.A.     |
| -6     | Vandal Proof Top              | P.O.A.     |

| Model Number | Sludge Capacity Lbs. | Grate Free Area (Sq. In.) | "A" Outlet Size | "B" Base To Center | "C" Top To Center | "D" Length | "E" Width |
|--------------|----------------------|---------------------------|-----------------|--------------------|-------------------|------------|-----------|
| FD-440-12    | 12                   | 51                        | 2"              | 12"                | 6"                | 12-1/2"    | 12-1/2"   |
| FD-440-60    | 60                   | 100                       | 3"              | 22"                | 6"                | 24-1/2"    | 12-1/2"   |
| FD-440-100   | 100                  | 200                       | 4"              | 30"                | 6"                | 24-1/2"    | 24-1/2"   |
| FD-440-200   | 200                  | 300                       | 4"              | 30"                | 6"                | 36-1/2"    | 24-1/2"   |



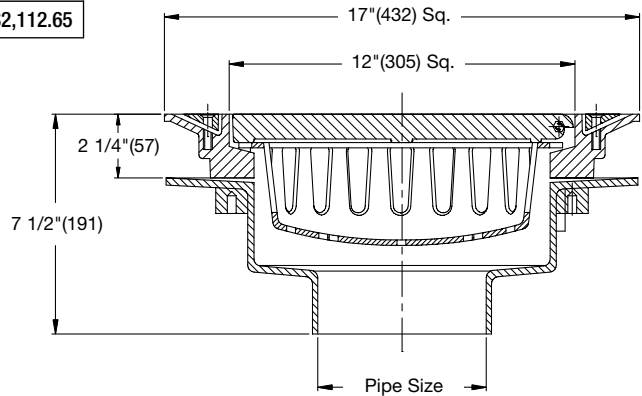
Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Parking Deck Drains

**FD-490-F-4**

**Parking Structure Drain with Heavy Duty Grate and Bucket**

| Model Number          | Weight (lbs.) | Grate Size | Outlet Size        | Grate        | List Price |
|-----------------------|---------------|------------|--------------------|--------------|------------|
| FD-493,4,5,6,8,10-F-4 | 112           | 12" Sq.    | 3, 4, 5, 6, 8, 10" | ductile iron | \$2,112.65 |



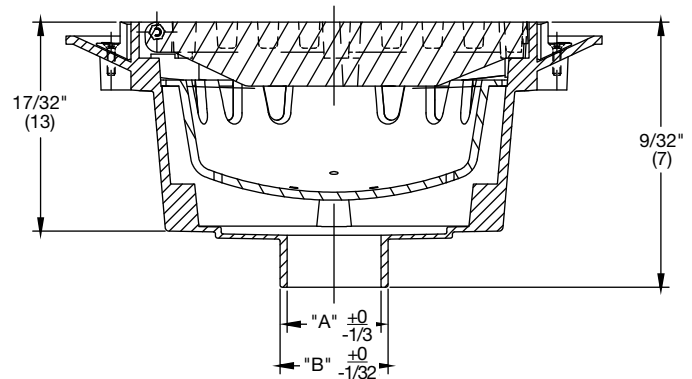
### Options for FD-490 Series:

| Suffix | Description           | List Price |
|--------|-----------------------|------------|
| -6     | Vandal Proof          | \$222.50   |
| -12    | Hot Dipped Galvanized | 393.50     |
| 65mm   | EXTN                  | 944.50     |
| 85mm   | EXTN                  | 1,023.00   |

**FD-490-F-80**

**Aluminum Parking Structure Drain with Heavy Duty Grate and Bucket**

| Model Number          | Weight (lbs.) | Grate Size | Outlet Size  | Grate    | List Price |
|-----------------------|---------------|------------|--------------|----------|------------|
| FD-493, 4, 6, 8,-F-80 | 112           | 12" Sq.    | 3, 4, 6, 8," | aluminum | \$3,589.44 |



*Note:* Funnels are ordered separately.  
See page 76 for details.

### Options for FD-490-F-80 Series:

| Suffix | Description                                 | List Price |
|--------|---|------------|
| -10    | Secured Top c/w Phillips Screws             | \$211.50   |
| -TE    | Top Extended Body for Thick Membrane System | 217.00     |
| -78    | 1 1/2" Extension                            | 805.00     |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

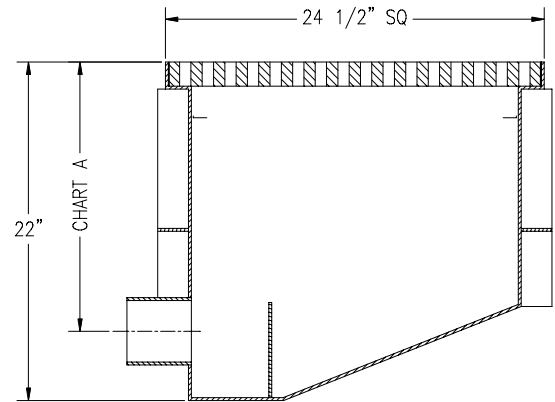


# Parking Area Drains

**FD-520**

**Large Capacity Side Outlet Parking Area Drain**

| Model Number | Weight (lbs.) | Grate Size | Outlet Size | Grate        | List Price |
|--------------|---------------|------------|-------------|--------------|------------|
| FD-524,6,8   | 400           | 24" Sq.    | 4, 6, 8" NH | ductile iron | P.O.A.     |



**Options for FD-520 Series:**

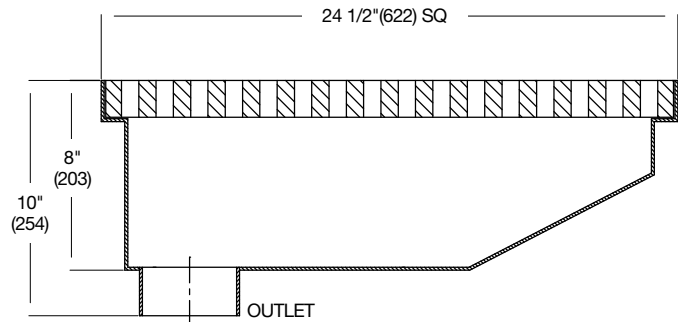
| Suffix | Description             | List Price |
|--------|-------------------------|------------|
| -C     | Membrane Clamp          | \$911.00   |
| -T     | Vandal Proof Grate      | 343.00     |
| -5     | Solids Retaining Baffle | 357.50     |
| -6     | Membrane Clamp          | 590.50     |
| -38    | Threaded Outlet         | 751.00     |

| Chart A     |                         |
|-------------|-------------------------|
| Outlet Size | Top to Center of Outlet |
| 4, 6"       | 16 1/2"(419)            |
| 8"          | 11 1/2"(292)            |

**FD-530**

**Large Capacity Bottom Outlet Offset Parking Area Drain**

| Model Number | Weight (lbs.) | Grate Size | Outlet Size    | Grate        | List Price |
|--------------|---------------|------------|----------------|--------------|------------|
| FD-533,4,6,8 | 400           | 24" Sq.    | 3, 4, 6, 8" NH | ductile iron | P.O.A.     |



*Note:* Funnels are ordered separately. See page 68 for details.

**Options for FD-530 Series:**

| Suffix | Description             | List Price |
|--------|-------------------------|------------|
| -5     | Sediment Bucket         | \$1,852.00 |
| -10    | Secured Grate           | 45.75      |
| -38    | Solids Retaining Baffle | 641.50     |
| -C     | Membrane Clamp          | 124.50     |
| -T     | Threaded Outlet         | 343.00     |



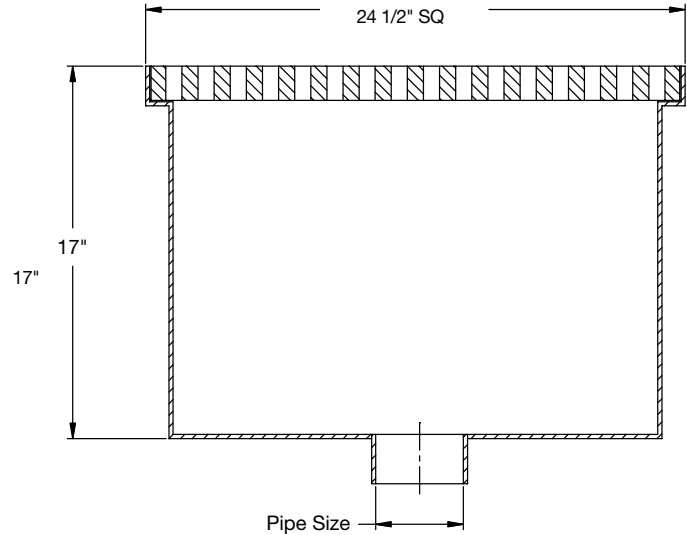
Consult factory for all applications outside of listed parameters. Prices do not include applicable taxes.

# Parking Deck Drains

**FD-540**

**Large Capacity Bottom Outlet Parking Area Drain**

| Model Number    | Weight (lbs.) | Grate Size | Outlet Size | Grate        | List Price |
|-----------------|---------------|------------|-------------|--------------|------------|
| FD-543, 4, 6, 8 | 400           | 24" Sq.    | 3,4,6,8" NH | ductile iron | P.O.A.     |



### Options for FD-540 Series:

| Suffix | Description             | List Price |
|--------|-------------------------|------------|
| -C     | Membrane Clamp          | P.O.A.     |
| -T     | Threaded Outlet         | P.O.A.     |
| -5     | Sediment Bucket         | P.O.A.     |
| -6     | Vandal Proof Grate      | P.O.A.     |
| -38    | Solids Retaining Baffle | P.O.A.     |

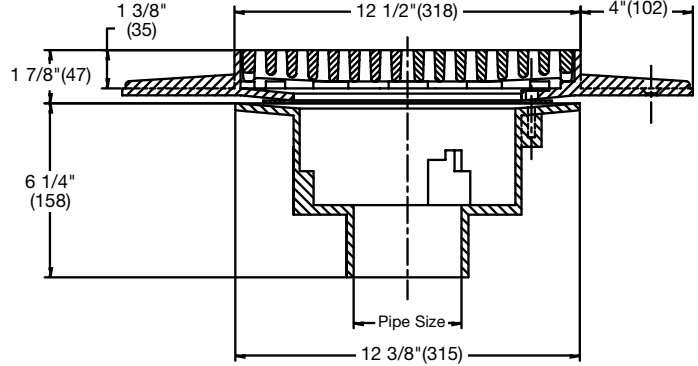
PIPE SIZE

# Parking Deck Drains

**FD-900**

**Parking Deck Drain for Precast Slabs**

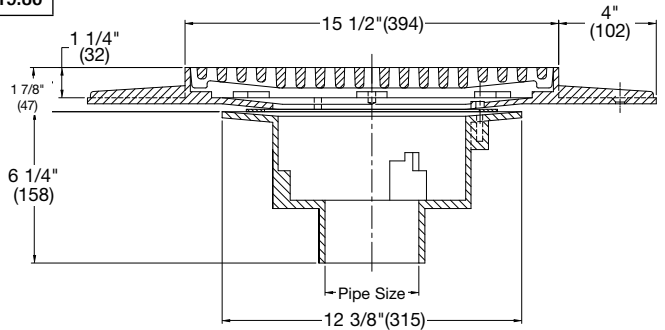
| Model Number          | Weight (lbs.) | Cover Size | Pipe Size         | Grate        | List Price |
|-----------------------|---------------|------------|-------------------|--------------|------------|
| FD-902, 3, 4, 5, 6, 8 | 62            | 12"        | 2, 3, 4, 5, 6, 8" | ductile iron | \$1,975.81 |



**FD-910**

**Parking Deck Drain For Precast Slabs**

| Model Number          | Weight (lbs.) | Cover Size | Pipe Size         | Grate        | List Price |
|-----------------------|---------------|------------|-------------------|--------------|------------|
| FD-912, 3, 4, 5, 6, 8 | 76            | 15"        | 2, 3, 4, 5, 6, 8" | ductile iron | \$1,819.86 |



*Note:* Funnels are ordered separately.  
See page 76 for details.

## Options for FD-900/910/920 Series:

| Suffix | Description                        | List Price |
|--------|------------------------------------|------------|
| None   | No Hub                             | No Add     |
| P      | Push-On Outlet (2, 3, 4, 6" Only)  | No Add     |
| T      | Threaded Outlet (2, 3, 4, 6" Only) | \$102.50   |
| -5     | Sediment Bucket                    | 332.00     |
| -6     | Vandal Proof                       | 189.50     |
| D      | Underdeck Clamp                    | 313.50     |



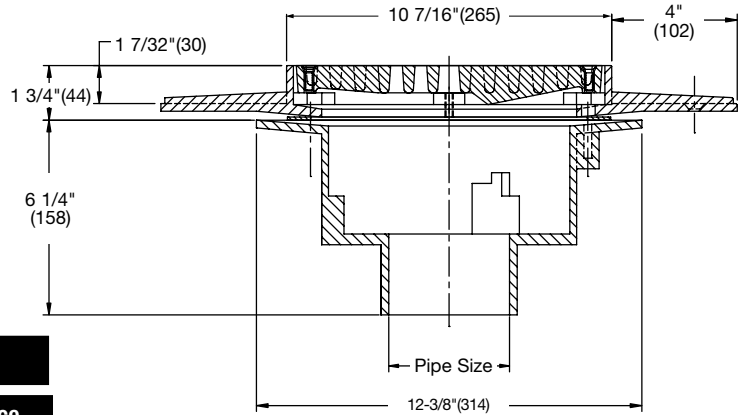
Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Parking Deck Drains

**FD-920**

**Parking Deck Drain For Precast Slabs**

| Model Number          | Weight (lbs.) | Cover Size | Pipe Size          | Grate        | List Price |
|-----------------------|---------------|------------|--------------------|--------------|------------|
| FD-922, 3, 4, 5, 6, 8 | 48            | 10"        | 2, 3, 4, 5, 6, 8," | ductile iron | \$1,546.16 |



### Options for FD-900/910/920 Series:

| Suffix | Description                        | List Price |
|--------|------------------------------------|------------|
| None   | No Hub                             | No Add     |
| P      | Push-On Outlet (2, 3, 4, 6" Only)  | No Add     |
| T      | Threaded Outlet (2, 3, 4, 6" Only) | \$102.50   |
| -5     | Sediment Bucket                    | 332.00     |
| -6     | Vandal Proof                       | 189.50     |
| D      | Underdeck Clamp                    | 313.50     |

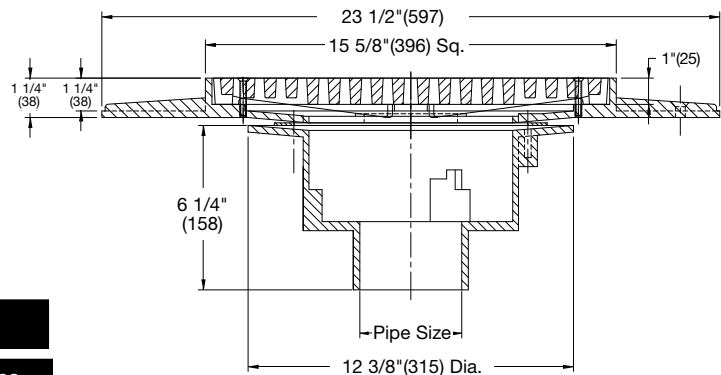
**FD-930**

**Parking Deck Drain For Precast Slabs**

| Model Number          | Weight (lbs.) | Cover Size | Pipe Size          | Grate        | List Price |
|-----------------------|---------------|------------|--------------------|--------------|------------|
| FD-932, 3, 4, 5, 6, 8 | 85            | 15" Sq.    | 2, 3, 4, 5, 6, 8," | ductile iron | \$3,365.50 |



*Note:* Funnels are ordered separately.  
See page 76 for details.



### Options for FD-930 Series:

| Suffix | Description                        | List Price |
|--------|------------------------------------|------------|
| None   | No Hub                             | No Add     |
| P      | Push-On Outlet (2, 3, 4, 6" Only)  | No Add     |
| T      | Threaded Outlet (2, 3, 4, 6" Only) | \$102.50   |
| -5     | Sediment Bucket                    | 332.00     |
| -6     | Vandal Proof                       | 189.50     |
| D      | Underdeck Clamp                    | 313.50     |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



# Isolation Drains

**FD-600**

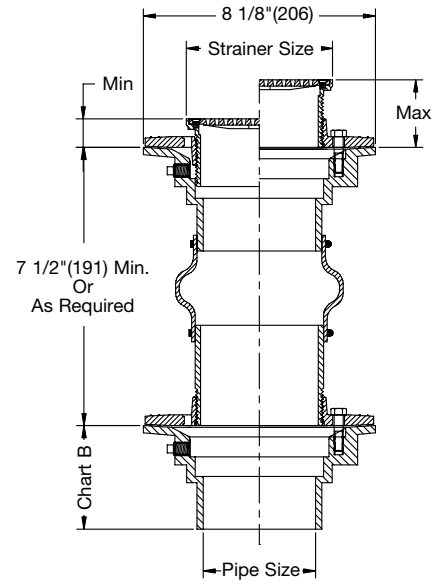
**Isolation Floor Drain**

| Model Number      | Weight (lbs.) | Strainer Size | Pipe Size | Strainer      | List Price |
|-------------------|---------------|---------------|-----------|---------------|------------|
| FD-602, 3, 4-A5-1 | 17            | 5"            | 2, 3, 4"  | nickel bronze | \$1,188.47 |
| FD-602, 3, 4-A6-1 | 17.5          | 6"            | 2, 3, 4"  | nickel bronze | 1,307.47   |
| FD-602, 3, 4-8-1  | 23            | 8"            | 2, 3, 4"  | nickel bronze | 1,720.62   |



| Chart A   |        |        |
|-----------|--------|--------|
| Str. Dia. | Min.   | Max.   |
| 5"        | 13/16" | 3 1/4" |
| 6"        | 7/8"   | 3 3/8" |
| 8"        | 7/8"   | 3 3/4" |

| Chart B   |        |         |               |              |         |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2"        | 3 5/8" | 3 5/8"  | 4 1/4"        | 4 1/4"       | 3 3/4"  |
| 3"        | 3 5/8" | 4"      | 4 1/4"        | 4 1/4"       | 3 5/8"  |
| 4"        | 3 5/8" | 4"      | 4 1/4"        | 4 1/4"       | 3 7/8"  |



See FD-100 Options on page 17.

**FD-620**

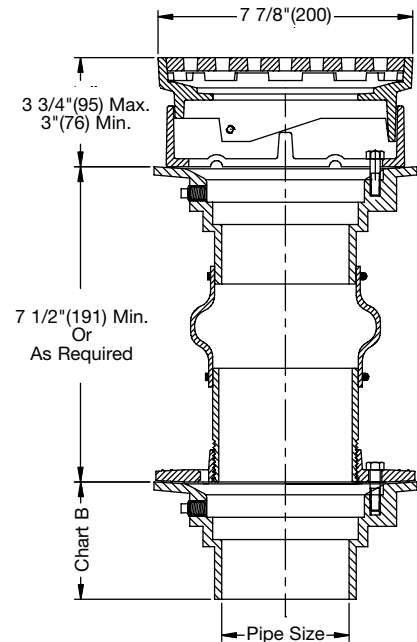
**Isolation Area Drain**

| Model Number   | Weight (lbs.) | Str. Size | Pipe Size | Strainer      | List Price |
|----------------|---------------|-----------|-----------|---------------|------------|
| FD-622, 3, 4   | 25            | 8"        | 2, 3, 4"  | ductile iron  | \$1,261.50 |
| FD-622, 3, 4-1 | 25            | 8"        | 2, 3, 4"  | nickel bronze | 2,005.16   |

*Note:* Canada collar includes slots.



| Chart B   |        |         |               |              |         |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2"        | 3 5/8" | 3 5/8"  | 4 1/4"        | 4 1/4"       | 3 3/4"  |
| 3"        | 3 5/8" | 4"      | 4 1/4"        | 4 1/4"       | 3 5/8"  |
| 4"        | 3 5/8" | 4"      | 4 1/4"        | 4 1/4"       | 3 7/8"  |



*Note:* Funnels are ordered separately. See page 76 for details.

See FD-320 Options on page 41.



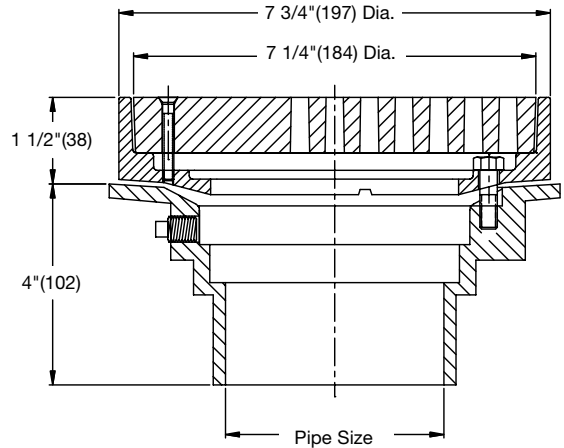
Consult factory for all applications outside of listed parameters. Prices do not include applicable taxes.

# Isolation Drains

**FD-660**

**PVC Area Drain with 7" Fixed Top**

| Model Number | Weight (lbs.) | Str. Size | Pipe Size | Strainer | List Price |
|--------------|---------------|-----------|-----------|----------|------------|
| FD-662, 3, 4 | 7             | 7"        | 2,3,4"    | PVC      | \$548.29   |



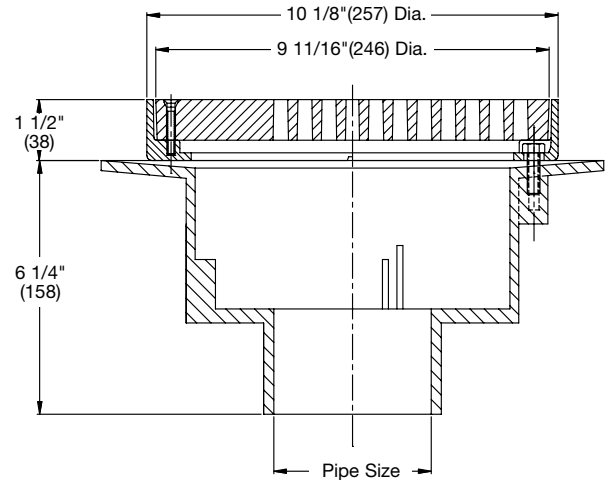
### Options for FD-660 Series:

| Suffix | Description                              | List Price | Suffix | Description                    | List Price |
|--------|--|------------|--------|--------------------------------|------------|
| -5     | Sediment Bucket                          | \$163.00   | -F4-50 | 4" Round Cast Iron Funnel      | \$140.50   |
| -6     | Vandal Proof                             | No Add     | F4-1   | 4" Round Nickel Bronze Funnel  | 290.00     |
| -7     | Trap Primer Tapping                      | No Add     | -F6-1  | 6" Round Nickel Bronze Funnel  | 749.00     |
| -34    | Closure Plug                             | 140.00     | -G-50  | 4x9" Oval Cast Iron Funnel     | 189.50     |
| -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | No Add     | -G-1   | 4x9" Oval Nickel Bronze Funnel | 395.50     |
| -150   | 1/2 Grate                                | No Add     |        |                                |            |

**FD-670**

**PVC Area Drain with 10" Fixed Top**

| Model Number    | Weight (lbs.) | Str. Size | Pipe Size | Strainer | List Price |
|-----------------|---------------|-----------|-----------|----------|------------|
| FD-672, 3, 4, 6 | 8             | 10"       | 2,3,4,6"  | PVC      | \$485.89   |



*Note:* Funnels are ordered separately. See page 76 for details.

### Options for FD-670 Series:

| Suffix | Description                              | List Price | Suffix | Description                    | List Price |
|--------|--|------------|--------|--------------------------------|------------|
| -5     | Sediment Bucket                          | \$266.50   | -F4-50 | 4" Round Cast Iron Funnel      | \$140.50   |
| -6     | Vandal Proof                             | No Add     | F4-1   | 4" Round Nickel Bronze Funnel  | 290.00     |
| -26    | Sand Bucket                              | 266.50     | -F6-1  | 6" Round Nickel Bronze Funnel  | 749.00     |
| -34    | Closure Plug                             | 157.00     | -G-50  | 4x9" Oval Cast Iron Funnel     | 189.50     |
| -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | No Add     | -G-1   | 4x9" Oval Nickel Bronze Funnel | 395.50     |
| -150   | 1/2 Grate                                | No Add     |        |                                |            |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



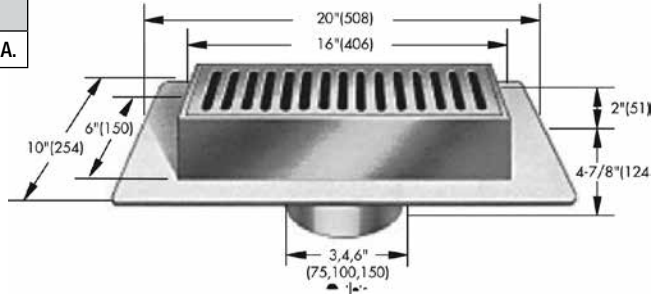


# Specialty Drains

**FD-750**

**Gutter Drain with 6" x 16" Top**

| Model Number    | Weight (lbs.) | Str. Size | Pipe Size | Strainer     | List Price |
|-----------------|---------------|-----------|-----------|--------------|------------|
| FD-752, 3,4,6-4 | 35            | 7" x 15"  | 2,3,4,6"  | ductile iron | P.O.A.     |



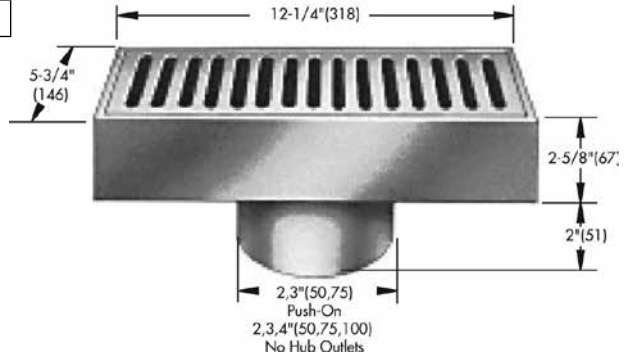
**Options for FD-750 Series:**

| Suffix | Description                     | List Price |
|--------|---------------------------------|------------|
| -C     | Membrane Clamp                  | P.O.A.     |
| -6     | Vandal Proof Top                | P.O.A.     |
| -10    | Secured Top c/w Phillips Screws | P.O.A.     |
| -12    | All Galvanized                  | P.O.A.     |
| -F     | Flange                          | P.O.A.     |
| -39    | Full Flow Grate                 | P.O.A.     |

**FD-760**

**Cast Iron Gutter Drain with 6" x 12" Top**

| Model Number  | Weight (lbs.) | Str. Size | Pipe Size | Strainer     | List Price |
|---------------|---------------|-----------|-----------|--------------|------------|
| FD-762, 3,4-4 | 25            | 4" x 12"  | 2,3,4,6"  | ductile iron | P.O.A.     |



**Options for FD-760 Series:**

| Suffix | Description                     | List Price |
|--------|---------------------------------|------------|
| -C     | Membrane Clamp                  | \$1,380.00 |
| -6     | Vandal Proof Top                | 146.00     |
| -10    | Secured Top c/w Phillips Screws | 43.75      |
| -12    | All Galvanized                  | 177.00     |
| -F     | Flange                          | 2,085.00   |
| -39    | Full Flow Grate                 | 689.00     |



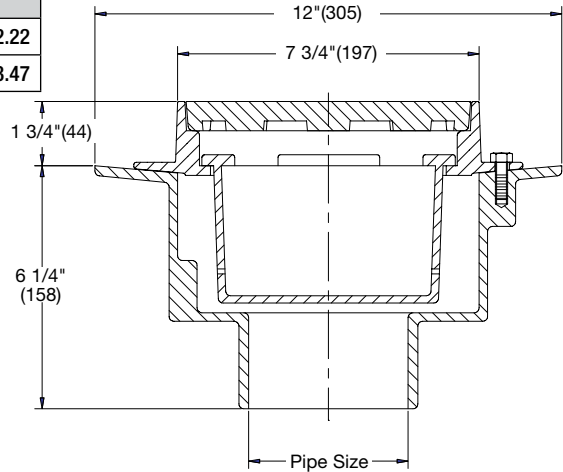
Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Flushing Rim Floor Drains

**FD-810**

**Iowa Garage Drain**

| Model Number            | Weight (lbs.) | Str. Size | Pipe Size         | Strainer      | List Price |
|-------------------------|---------------|-----------|-------------------|---------------|------------|
| FD-812, 3, 4, 5, 6, 8   | 14            | 8"        | 2, 3, 4, 5, 6, 8" | ductile iron  | \$662.22   |
| FD-812, 3, 4, 5, 6, 8-1 | 15            | 8"        | 2, 3, 4, 5, 6, 8" | nickel bronze | 1,163.47   |



**Options for FD-810 Series:**

| Suffix | Description                                 | List Price |
|--------|---|------------|
| None   | No Hub                                      | No Add     |
| P      | Push-On Outlet (2, 3, 4, 6" Only)           | No Add     |
| T      | Threaded Outlet (2, 3, 4, 6" Only)          | \$102.50   |
| -6     | Vandal Proof                                | 189.50     |
| -7     | Trap Primer Tapping                         | 193.50     |
| -60    | PVC Body w/Socket Outlet (2, 3, 4, 6" Only) | No Add     |
| -61    | ABS Body w/Socket Outlet (2, 3, 4" Only)    | No Add     |

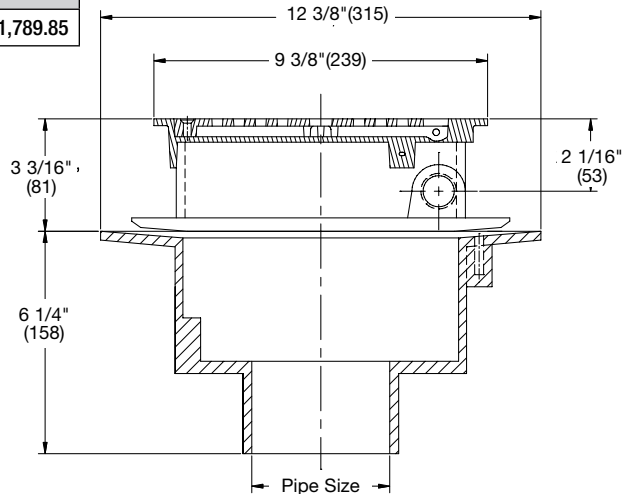
**FD-820**

**Flushing Rim Floor Drain**

| Model Number | Weight (lbs.) | Str. Size | Pipe Size | Strainer      | List Price |
|--------------|---------------|-----------|-----------|---------------|------------|
| FD-822, 3, 4 | 30            | 9 1/2"    | 2, 3, 4"  | nickel bronze | \$1,789.85 |



*Note:* Funnels are ordered separately. See page 76 for details.



**Options for FD-820 Series:**

| Suffix | Description                | List Price |
|--------|----------------------------|------------|
| None   | No Hub                     | No Add     |
| -6     | Vandal Proof               | \$189.50   |
| -G     | Trap w/Flushing Connection | 1,361.00   |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

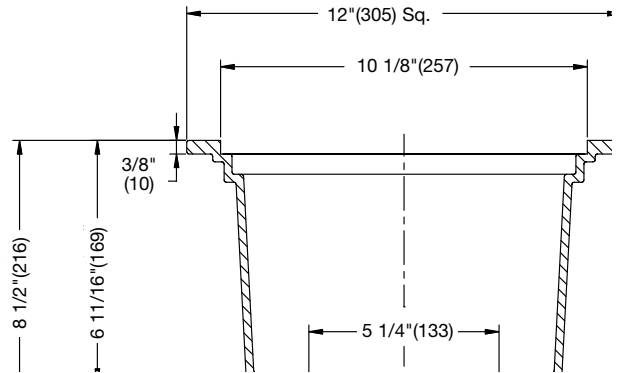


# Flushing Rim Floor Drains

**FD-830**

**Hopper Drain**

| Model Number | Weight (lbs.) | Str. Size | Pipe Size | Material  | List Price |
|--------------|---------------|-----------|-----------|-----------|------------|
| FD-832, 3, 4 | 27            | 5 1/4"    | 2,3,4"    | cast iron | \$916.76   |



### Options for FD-830 Series:

| Suffix | Description              | List Price |
|--------|--------------------------|------------|
| -1     | Nickel Bronze Top        | \$514.00   |
| -5     | Sediment Bucket          | 126.00     |
| -7     | Trap Primer Tapping      | 193.50     |
| -TG    | Top Grate - Ductile Iron | 124.00     |

Pipe Size

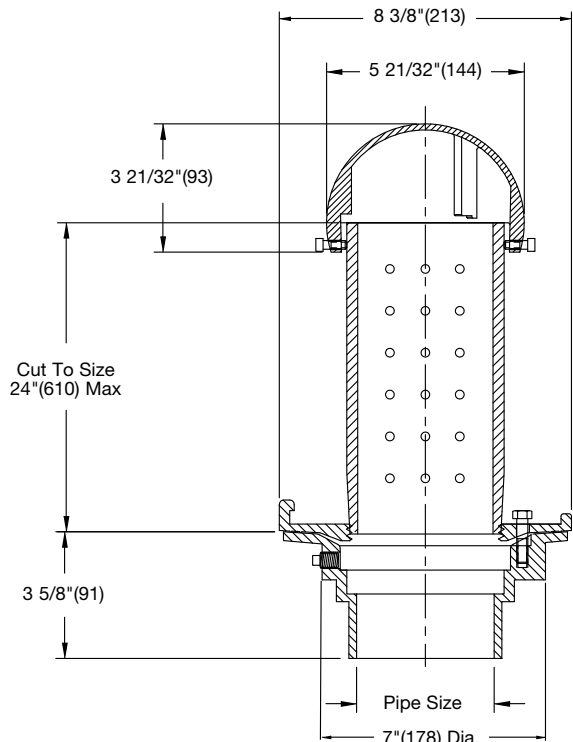
**FD-870-P**

**Planting Area Drain with Dome Cap**

| Model Number    | Weight (lbs.) | Str. Type       | Pipe Size | List Price |
|-----------------|---------------|-----------------|-----------|------------|
| FD-872, 3, 4, 6 | 11            | Domed Standpipe | 2,3,4,6"  | \$868.42   |



*Note:* Funnels are ordered separately. See page 76 for details.



### Options for FD-870-P Series:

| Suffix | Description                       | List Price |
|--------|-----------------------------------|------------|
| -12    | Hot Dipped Galvanized             | \$177.00   |
| -60    | PVC Body w/Socket Outlet          | No Add     |
| -61    | ABS Body w/Socket Outlet          | No Add     |
| P      | Push-On Outlet (2, 3, 4, 6" Only) | 49.25      |
| -T     | Threaded Outlet                   | 102.50     |



Consult factory for all applications outside of listed parameters. Prices do not include applicable taxes.

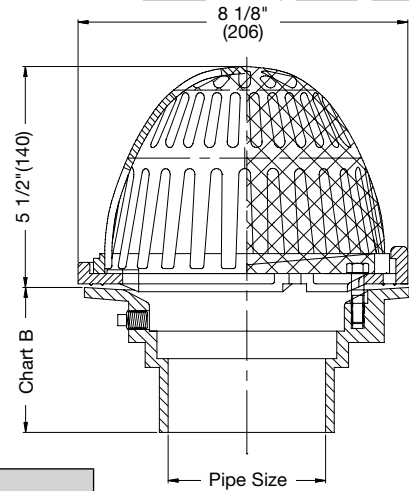
# Planter Area Floor Drains

**FD-860**

**Planting Area Drain with Screened Dome**



| Model Number    | Weight (lbs.) | Str. Size   | Pipe Size   | Strainer        | List Price |
|-----------------|---------------|-------------|-------------|-----------------|------------|
| FD-862, 3, 4, 6 | 25            | 8 1/2" Dome | 2, 3, 4, 6" | alum. w/SS mesh | \$CF**     |



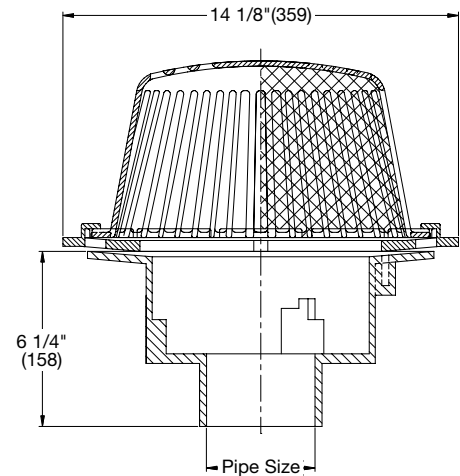
| Chart B   |            |            |               |              |            |
|-----------|------------|------------|---------------|--------------|------------|
| Pipe Size | No Hub     | Push On    | Female Thread | Inside Caulk | PVC/ABS    |
| 2"(51)    | 3 5/8"(92) | 3 5/8"(92) | 4 1/4"(108)   | 4 1/4"(108)  | 2 3/4"(70) |
| 3"(76)    | 3 5/8"(92) | 4"(102)    | 4 1/4"(108)   | 4 1/4"(108)  | 3 5/8"(92) |
| 4"(102)   | 3 5/8"(92) | 4"(102)    | 4 1/4"(108)   | 4 1/4"(108)  | 3 7/8"(98) |
| 6"(152)   | 3 1/2"(89) | -          | -             | -            | -          |

**FD-870-PA**

**Large Planting Area Drain with Screened Dome**



| Model Number       | Weight (lbs.) | Str. Size   | Pipe Size | Dome            | List Price |
|--------------------|---------------|-------------|-----------|-----------------|------------|
| FD-872, 3, 4, 6-PA | 50            | 8 1/2" Dome | 2, 3, 4"  | alum. w/SS mesh | \$CF**     |



**Note:** Funnels are ordered separately.  
See page 76 for details.

## Options for FD-860/870 Series:

| Suffix | Description           | List Price | Suffix | Description                                 | List Price |
|--------|-----------------------|------------|--------|---|------------|
| None   | No Hub Outlet         | No Add     | -60    | PVC Body w/Socket Outlet (2, 3, 4, 6" Only) | \$36.50    |
| P      | Push-On Outlet        | \$49.25    | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only)    | 36.50      |
| T      | Threaded Outlet       | 102.50     | -81    | Bronze Dome                                 | 793.00     |
| -6     | Vandal Proof          | 149.50     | -S0    | Side Outlet                                 | 286.50     |
| -12    | Hot Dipped Galvanized | 177.00     |        |   |            |

Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

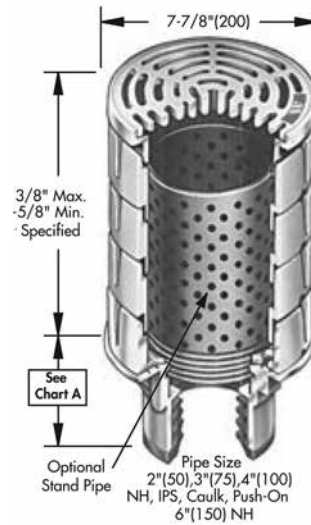


# Planter Area Drains

**FD-870-TG**

**Planting Area Drain w/Deck Level Drainage Grate**

| Model Number  | Weight (lbs.) | Str. Size | Pipe Size | Strainer      | List Price |
|---------------|---------------|-----------|-----------|---------------|------------|
| FD-873,4-TG-1 | 45            | 8"(203)   | 3,4"      | nickel bronze | \$CF**     |
| FD-873,4-TG-4 | 45            | 8"(203)   | 3,4"      | ductile iron  | 942.04     |



| Chart A   |             |             |                 |                |               |
|-----------|-------------|-------------|-----------------|----------------|---------------|
| Pipe Size | Std. No Hub | P Push On   | T Female Thread | X Inside Caulk | 60/61 PVC/ABS |
| 2"(50)    | 3 5/8"(92)  | 4 1/4"(108) | 4 1/4"(108)     | 4 1/2"(114)    | 3 3/4"(95)    |
| 3"(76)    | 3 5/8"(92)  | 4 1/4"(108) | 4 1/4"(108)     | 4 1/2"(114)    | 3 3/4"(95)    |
| 4"(102)   | 3 5/8"(92)  | 4 1/4"(108) | 4 1/4"(108)     | 4 1/2"(114)    | 4"(102)       |
| 6"(152)   | 3 1/2"(89)  | -           | -               | -              | -             |

**Note:** Funnels are ordered separately. See page 76 for details.

## Options for FD-870-TG Series:

| Suffix | Description                     | List Price | Suffix | Description                            | List Price |
|--------|---------------------------------|------------|--------|--|------------|
| -B     | Sump Receiver                   | \$115.00   | -6     | Vandal Proof                           | \$49.25    |
| -D     | Deck Clamp                      | 73.00      | -15    | Adjustable Extension, 1 3/4" to 3 1/2" | 146.00     |
| -P     | Push-On Outlet                  | 49.25      | -42    | Perforated Standpipe                   | 166.00     |
| -S     | Side Outlet (integral) 2, 3, 4" | 301.00     |        |  |            |
| -T     | Threaded IPS Outlet             | 115.00     |        |  |            |



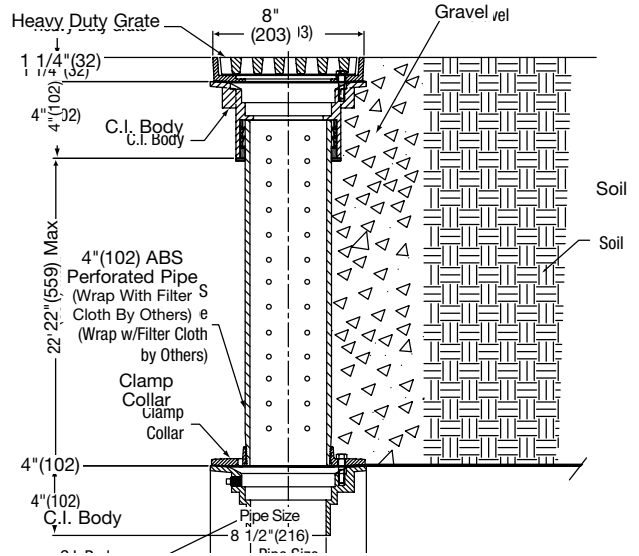
Consult factory for all applications outside of listed parameters. Prices do not include applicable taxes.

# Containment Drains

**FD-880**

**Ground Water Containment Drain**

| Model Number    | Weight (lbs.) | Str. Size | Pipe Size   | Strainer     | List Price |
|-----------------|---------------|-----------|-------------|--------------|------------|
| FD-882, 3, 4, 6 | 34            | 8"        | 2, 3, 4, 6" | ductile iron | \$1,096.68 |



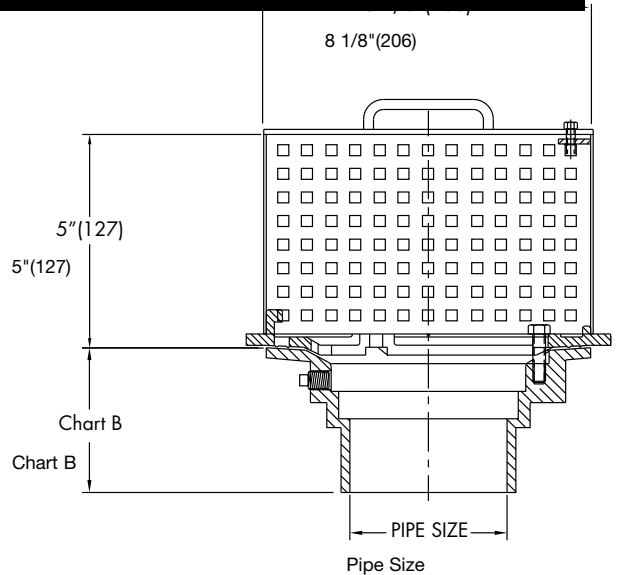
## Options for FD-880 Series:

| Suffix | Description       | List Price | Suffix | Description                 | List Price |
|--------|-------------------|------------|--------|-----------------------------|------------|
| None   | No Hub            | No Add     | -6     | Vandal Proof                | \$47.50    |
| -P     | Push-On Outlet    | No Add     | -7     | Trap Primer Tapping         | No Add     |
| -T     | Threaded Outlet   | \$102.50   | -21    | Secondary Strainer          | 87.50      |
| -1     | Nickel Bronze Top | 680.00     | -S0    | Side Outlet (2, 3, 4" Only) | 273.50     |
| -5     | Sediment Bucket   | 54.75      |        |                             |            |

**FD-890**

**Planter Drain with Removable Cover**

| Model Number    | Weight (lbs.) | Pipe Size   | Cover           | List Price |
|-----------------|---------------|-------------|-----------------|------------|
| FD-892, 3, 4, 6 | 14            | 2, 3, 4, 6" | Stainless Steel | \$1,717.65 |



*Note:* Funnels are ordered separately. See page 76 for details.

## Options for FD-890 Series:

| Suffix | Description     | List Price | Suffix | Description             | List Price |
|--------|-----------------|------------|--------|-------------------------|------------|
| None   | No Hub Outlet   | No Add     | -12    | Galvanized Body & Clamp | \$177.00   |
| P      | Push-On Outlet  | \$49.25    | -S0    | Side Outlet             | 273.50     |
| T      | Threaded Outlet | 102.50     |        |                         |            |

Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.



# Floor Drains with Stainless Steel Strainers

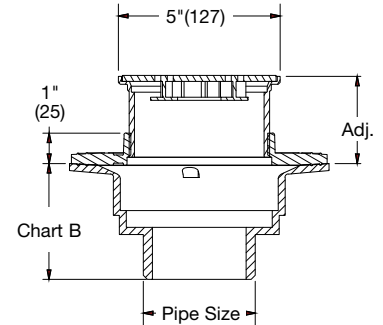
## FD-1100-A-LR Floor Drain with Ligature Resistant Round Strainer

| Model Number        | Weight (lbs.) | Str. Size | Pipe Size | Strainer        | List Price |
|---------------------|---------------|-----------|-----------|-----------------|------------|
| FD-1102, 3, 4-A5-LR | 11            | 5"        | 2, 3, 4"  | stainless steel | \$1,369.01 |
| FD-1102, 3, 4-A6-LR | 12.5          | 6"        | 2, 3, 4"  | stainless steel | 189.81     |
| FD-1102, 3, 4-A8-LR | 16            | 8"        | 2, 3, 4"  | stainless steel | 189.81     |



| Chart A  |        |        |
|----------|--------|--------|
| Strainer | Min.   | Max.   |
| 5"       | 13/16" | 2 1/2" |
| 6"       | 7/8"   | 2 3/4" |
| 8"       | 7/8"   | 3 1/4" |

| Chart B   |            |             |               |              |         |
|-----------|------------|-------------|---------------|--------------|---------|
| Pipe Size | No Hub     | Push On     | Female Thread | Inside Caulk | PVC/ABS |
| 2"(51)    | 3 5/8"(92) | 4 1/4"(108) | 4 1/4"(108)   | 4 1/2"(114)  | 4"(102) |
| 3"(76)    | 3 5/8"(92) | 4 1/4"(108) | 4 1/4"(108)   | 4 1/2"(114)  | 4"(102) |
| 4"(102)   | 3 5/8"(92) | 4 1/4"(108) | 4 1/4"(108)   | 4 1/2"(114)  | 4"(102) |
| 6"(152)   | 3 1/2"(89) | -           | -             | -            | -       |



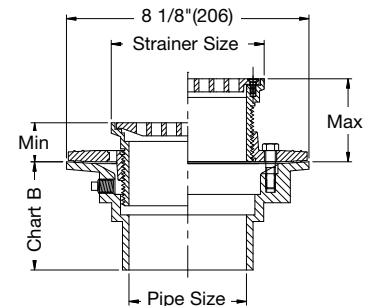
## FD-1100-C Planter Drain with Round Stainless Steel Strainer

| Model Number     | Weight (lbs.) | Str. Size | Pipe Size   | Strainer        | List Price |
|------------------|---------------|-----------|-------------|-----------------|------------|
| FD-1102,3,4-C5-3 | 11            | 5"        | 2, 3, 4, 6" | stainless steel | \$671.25   |
| FD-1102,3,4-C6-3 | 12.5          | 6"        | 2, 3, 4, 6" | stainless steel | 864.16     |
| FD-1102,3,4-C8-3 | 16            | 8"        | 2, 3, 4, 6" | stainless steel | 2,221.59   |



| Chart A  |        |        |
|----------|--------|--------|
| Strainer | Min.   | Max.   |
| 5"       | 13/16" | 3 1/4" |
| 6"       | 7/8"   | 3 3/8" |
| 8"       | 7/8"   | 3 1/4" |

| Chart B   |        |         |               |              |         |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 3"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 4"        | 3 5/8" | 4 1/4"  | 4 1/4"        | 4 1/2"       | 4"      |
| 6"        | 3 1/2" | -       | -             | -            | -       |



**Note:** Funnels are ordered separately. See page 76 for details.

## Options for FD-1100 A-LR / FD-1100-C Series:

| Suffix | Description                                | List Price | Suffix | Description                                    | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -28    | 304 SS Body & Collar (No Hub Only)             | P.O.A.     |
| P      | Push-On Outlet                             | \$49.25    | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only)       | \$36.50    |
| T      | Threaded Outlet                            | 102.50     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only)       | 36.50      |
| None   | 6" Outlet No Hub Only                      | 157.00     | -F4-3  | 4" Round SS Funnel (FD-1100-C Only)            | 299.00     |
| -5     | Sediment Bucket                            | 62.00      | -F4-50 | 4" Round Cast Iron Funnel (FD-1100-C Only)     | 140.50     |
| -6     | Vandal Proof                               | 49.25      | -F4-1  | 4" Round Nickel Bronze Funnel (FD-1100-C-Only) | 286.50     |
| -7     | Trap Primer Tapping                        | No Add     | -F6-1  | 6" Round Nickel Bronze Funnel (FD-1100-C-Only) | 749.00     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 106.00     | -G-50  | 4x9" Oval Cast Iron Funnel (FD-1100-C Only)    | 390.00     |
| -12    | Galvanized Body                            | 177.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel FD-1100-C Only) | 395.50     |
| -15    | Strainer Extension (DD-50)                 | 118.50     | -S0    | Side Outlet (2, 3, 4" Only)                    | 273.50     |

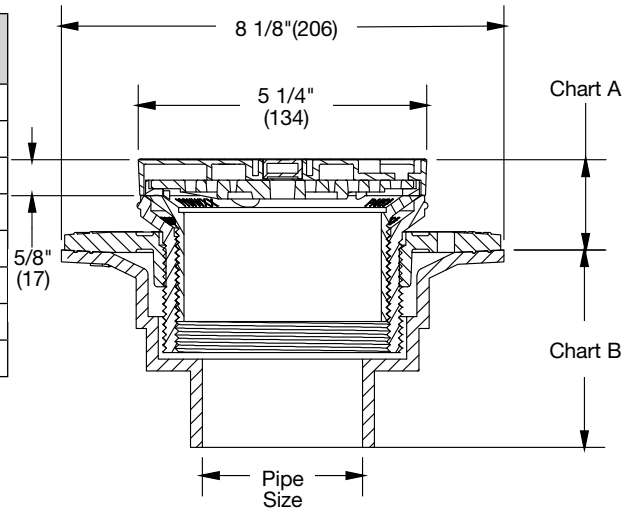
**WATTS®** Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Adjustable Floor Drains with Stainless Steel Strainers

FD-1190-PR

Pronto!® Cast Iron Adjustable Floor Drain w/Integrated Level

| Model Number      | Weight Lbs. | Str. Size | Outlet Size | Strainer        | List Price |
|-------------------|-------------|-----------|-------------|-----------------|------------|
| FD-1192, 3, 4-PR5 | 14          | 5"(127)   | 2, 3, 4"    | stainless steel | \$CF**     |
| FD-1192, 3, 4-PR6 | 16          | 6"(152)   | 2, 3, 4"    | stainless steel | CF**       |
| FD-1192, 3, 4-PR7 | 18          | 7"(178)   | 2, 3, 4"    | stainless steel | CF**       |
| FD-1192, 3, 4-PR8 | 21          | 8"(203)   | 2, 3, 4"    | stainless steel | CF**       |
| FD-1196-PR5       | 14          | 5"(127)   | 6"          | stainless steel | CF**       |
| FD-1196-PR6       | 16          | 6"(152)   | 6"          | stainless steel | CF**       |
| FD-1196-PR7       | 18          | 7"(178)   | 6"          | stainless steel | CF**       |
| FD-1196-PR8       | 21          | 8"(203)   | 6"          | stainless steel | CF**       |



**PATENTED**

Patent No. USD897503 and Patents Pending

Chart A

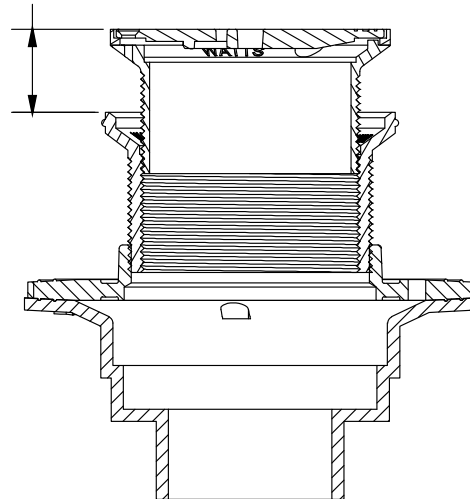
| Strainer Size | Min.       | Max.        | Load Rating | Free Area Sq. In |
|---------------|------------|-------------|-------------|------------------|
| 5"(127)       | 1 3/4"(44) | 4 1/4"(108) | MD          | 6 1/16"(154)     |
| 6"(152)       | 1 3/4"(44) | 4 1/4"(108) | LD          | 10 3/4"(273)     |
| 7"(178)       | 1 7/8"(48) | 4 3/8"(111) | LD          | 13 1/4"(337)     |
| 8"(203)       | 2"(51)     | 4 1/2"(114) | MD          | 19"(483)         |

Chart B

| Pipe Size | Std. No Hub | P Push On   | T Female Thread | X Inside Caulk | 60 PVC  |
|-----------|-------------|-------------|-----------------|----------------|---------|
| 2"(51)    | 3 5/8"(92)  | 4 1/4"(108) | 4 1/4"(108)     | 4 1/2"(114)    | 4"(102) |
| 3"(76)    | 3 5/8"(92)  | 4 1/4"(108) | 4 1/4"(108)     | 4 1/2"(114)    | 4"(102) |
| 4"(102)   | 3 5/8"(92)  | 4 1/4"(108) | 4 1/4"(108)     | 4 1/2"(114)    | 4"(102) |
| 6"(152)   | 3 1/2"(89)  |             |                 |                |         |

Note: Funnels are ordered separately. See page 76 for details.

0-7/8" Adj. Post-Pour



## Options for FD-1190-PR Series:

| Suffix | Description                                | List Price | Suffix | Description                   | List Price |
|--------|--|------------|--------|-------------------------------|------------|
| None   | No Hub Outlet                              | No Add     | -15    | Strainer Extension (DD-50)    | \$118.50   |
| P      | Push-On Outlet                             | \$49.25    | -F4-50 | 4" Round Cast Iron Funnel     | 140.50     |
| T      | Threaded Outlet                            | 102.50     | -F4-1  | 4" Round Nickel Bronze Funnel | 286.50     |
| None   | 6" Outlet No Hub Only                      | 157.00     | -F6-1  | 6" Round Nickel Bronze Funnel | 680.74     |
| -7     | Trap Primer Tapping                        | No Add     | -G-50  | 4x9" Oval Cast Iron Funnel    | 390.00     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 106.00     | -G-1   | 4x9" Nickel Bronze Funnel     | 395.50     |
| -12    | Galvanized Body                            | 177.00     | -S0    | Side Outlet (2, 3, 4" Only)   | 273.50     |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.





# Adjustable Floor Drains with Stainless Steel Strainers

## FD-1190-PR-60 Pronto!® PVC Adjustable Floor Drain w/Integrated Level

| Model Number         | Weight Lbs. | Str. Size | Outlet Size | Strainer        | List Price |
|----------------------|-------------|-----------|-------------|-----------------|------------|
| FD-1192, 3, 4-PR5-60 | 5           | 5"(127)   | 2, 3, 4"    | stainless steel | \$CF**     |
| FD-1192, 3, 4-PR6-60 | 6           | 6"(152)   | 2, 3, 4"    | stainless steel | CF**       |
| FD-1192, 3, 4-PR7-60 | 7           | 7"(178)   | 2, 3, 4"    | stainless steel | CF**       |
| FD-1192, 3, 4-PR8-60 | 8           | 8"(203)   | 2, 3, 4"    | stainless steel | CF**       |



**PATENTED**

Patent No. USD897503 and Patents Pending

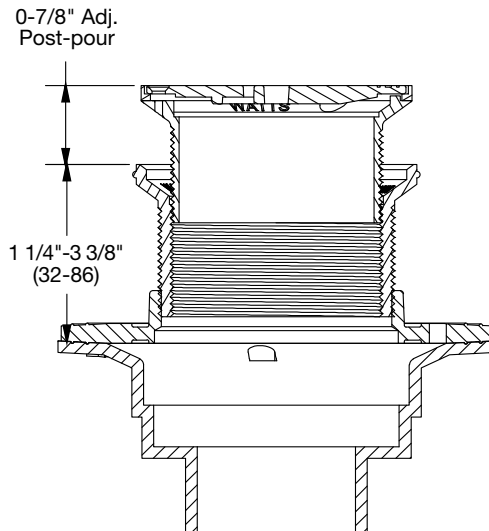
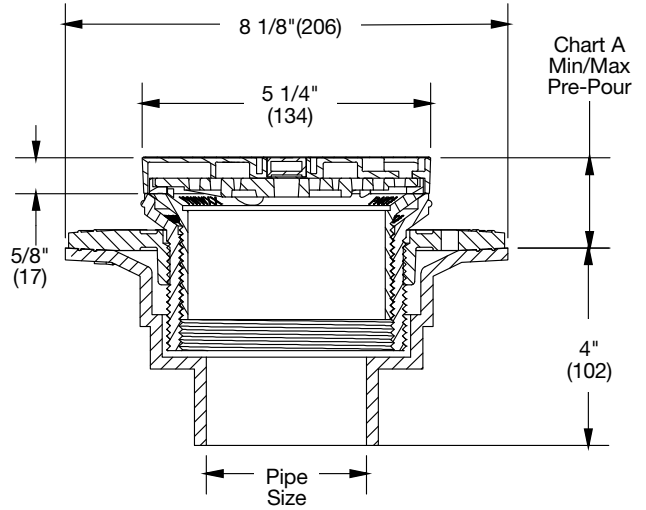


Chart A

| Strainer Size | Min.       | Max.        | Load Rating | Free Area Sq. In |
|---------------|------------|-------------|-------------|------------------|
| 5"(127)       | 2 1/2"(64) | 4 1/4"(108) | MD          | 6 1/16"(154)     |
| 6"(152)       | 2 1/2"(64) | 4 1/4"(108) | LD          | 10 3/4"(273)     |
| 7"(178)       | 2 5/8"(67) | 4 3/8"(111) | LD          | 13 1/4"(337)     |
| 8"(203)       | 2 3/4"(70) | 4 1/2"(114) | MD          | 19"(483)         |

Note: Funnels are ordered separately.  
See page 76 for details.

### Options for FD-1190-PR-60 Series:

| Suffix | Description                | List Price | Suffix | Description                    | List Price |
|--------|----------------------------|------------|--------|--------------------------------|------------|
| -7     | Trap Primer Tapping        | No Add     | -F4-1  | 4" Round Nickel Bronze Funnel  | \$286.50   |
| -8     | Squeeze in Backwater Valve | \$106.00   | -F6-1  | 6" Round Nickel Bronze Funnel  | 749.00     |
| -15    | Strainer Extension (DD-50) | 118.50     | -G-50  | 4x9" Oval Cast Iron Funnel     | 390.00     |
| -61    | ABS Body w/Socket Outlet   | 36.50      | -G-1   | 4x9" Oval Nickel Bronze Funnel | 395.50     |
| -F4-50 | 4" Round Cast Iron Funnel  | 140.50     |        |                                |            |



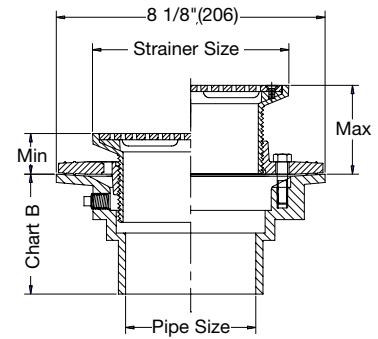
Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Floor Drains with Stainless Steel Strainers

## FD-1100-L

### Floor Drain with Heavy Duty Square Stainless Steel Strainer

| Model Number     | Weight (lbs.) | Str. Size | Pipe Size   | Strainer        | List Price |
|------------------|---------------|-----------|-------------|-----------------|------------|
| FD-1102,3,4-L5-3 | 10            | 5" x 5"   | 2, 3, 4, 6" | stainless steel | \$642.09   |
| FD-1102,3,4-L6-3 | 14            | 6" x 6"   | 2, 3, 4, 6" | stainless steel | 1,051.40   |
| FD-1102,3,4-L8-3 | 16            | 8" x 8"   | 2, 3, 4, 6" | stainless steel | 1,287.01   |



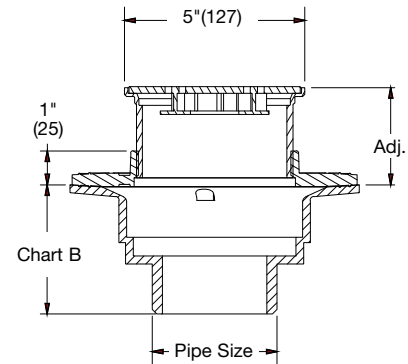
| Chart B   |        |         |               |              |         |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2"        | 3 5/8" | 3 5/8"  | 4 1/4"        | 4 1/4"       | 2 3/4"  |
| 3"        | 3 5/8" | 4"      | 4 1/4"        | 4 1/4"       | 3 5/8"  |
| 4"        | 3 5/8" | 4"      | 4 1/4"        | 4 1/4"       | 3 7/8"  |
| 6"        | 3 1/2" | -       | -             | -            | -       |

| Chart A  |        |        |
|----------|--------|--------|
| Strainer | Min.   | Max.   |
| 5"x5"    | 7/8"   | 3 1/4" |
| 6"x6"    | 1"     | 3 1/4" |
| 8"x8"    | 1 3/8" | 3 5/8" |

## FD-1100-M-LR

### Floor Drain with Ligature Resistant Square Strainer

| Model Number        | Weight (lbs.) | Str. Size | Pipe Size | Strainer        | List Price |
|---------------------|---------------|-----------|-----------|-----------------|------------|
| FD-1102, 3, 4-M5-LR | 11            | 5"        | 2, 3, 4"  | stainless steel | \$189.81   |
| FD-1102, 3, 4-M6-LR | 12.5          | 6"        | 2, 3, 4"  | stainless steel | 189.81     |
| FD-1102, 3, 4-M8-LR | 16            | 8"        | 2, 3, 4"  | stainless steel | 189.81     |



| Chart A  |        |        |
|----------|--------|--------|
| Strainer | Min.   | Max.   |
| 5"       | 13/16" | 2 1/2" |
| 6"       | 7/8"   | 2 3/4" |
| 8"       | 1 3/8" | 3 5/8" |

| Chart B   |            |             |               |              |         |
|-----------|------------|-------------|---------------|--------------|---------|
| Pipe Size | No Hub     | Push On     | Female Thread | Inside Caulk | PVC/ABS |
| 2"(51)    | 3 5/8"(92) | 4 1/4"(108) | 4 1/4"(108)   | 4 1/2"(114)  | 4"(102) |
| 3"(76)    | 3 5/8"(92) | 4 1/4"(108) | 4 1/4"(108)   | 4 1/2"(114)  | 4"(102) |
| 4"(102)   | 3 5/8"(92) | 4 1/4"(108) | 4 1/4"(108)   | 4 1/2"(114)  | 4"(102) |
| 6"(152)   | 3 1/2"(89) | -           | -             | -            | -       |

### Options for FD-1100-L / FD-1100-M-LR Series:

| Suffix | Description                                | List Price | Suffix | Description                                     | List Price |
|--------|--|------------|--------|---|------------|
| None   | No Hub Outlet                              | No Add     | -28    | 304 SS Body & Collar (No Hub Only)              | \$3,254.00 |
| P      | Push-On Outlet                             | \$49.25    | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only)        | 36.50      |
| T      | Threaded Outlet                            | 102.50     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only)        | 36.50      |
| None   | 6" Outlet No Hub Only                      | 157.00     | -F4-3  | 4" Round SS Funnel (FD-1100-L Only)             | 299.00     |
| -5     | Sediment Bucket                            | 56.32      | -F4-50 | 4" Round Cast Iron Funnel (FD-1100-L Only)      | 140.50     |
| -6     | Vandal Proof                               | 49.25      | -F4-1  | 4" Round Nickel Bronze Funnel (FD-1100-L Only)  | 286.50     |
| -7     | Trap Primer Tapping                        | No Add     | -F6-1  | 6" Round Nickel Bronze Funnel (FD-1100-L Only)  | 749.00     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 106.00     | -G-50  | 4x9" Oval Cast Iron Funnel (FD-1100-L Only)     | 390.00     |
| -12    | Galvanized Body                            | 177.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel (FD-1100-L Only) | 395.50     |
| -15    | Strainer Extension (DD-50)                 | 118.50     | -S0    | Side Outlet (2, 3, 4" Only)                     | 273.50     |

Consult factory for all applications outside of listed parameters.

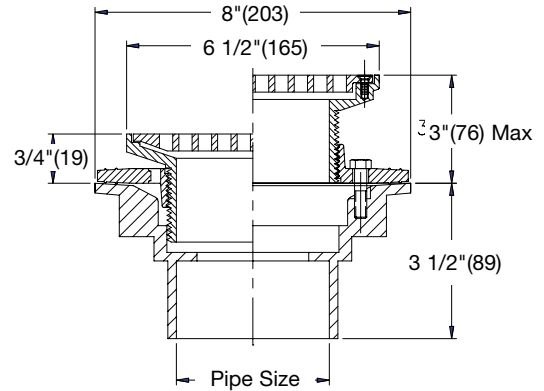
Prices do not include applicable taxes.



# On-Grade Floor Drains with Stainless Steel Strainers

## FD-1160 Chemical Resistant Floor Drain

| Model Number | Weight (lbs.) | Str. Size | Pipe Size | Strainer | List Price |
|--------------|---------------|-----------|-----------|----------|------------|
| FD-1162,3,4  | 6             | 6 1/2"    | 2, 3, 4"  | PVC      | \$626.96   |



### Options for FD-1160 Series:

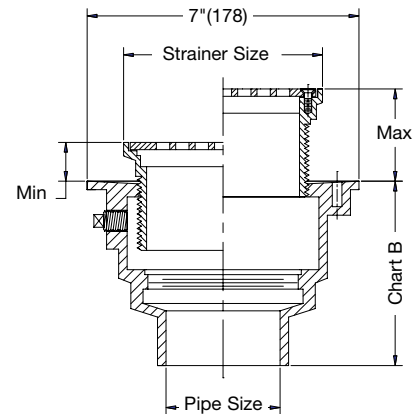
| Suffix | Description         | List Price | Suffix | Description                   | List Price |
|--------|---------------------|------------|--------|-------------------------------|------------|
| -5     | Sediment Bucket     | \$138.50   | -F4-1  | 4" Round Nickel Bronze FUNnel | \$290.00   |
| -6     | Vandal Proof        | 71.25      | -F6-1  | 6" Round Nickel Bronze Funnel | 749.00     |
| -7     | Trap Primer Tapping | No Add     | -G-1   | 4x9" Nickel Bronze Funnel     | 395.50     |

## FD-1200 Floor Drain with Heavy Duty Round Stainless Steel Strainer

| Model Number    | Weight (lbs.) | Str. Size | Pipe Size | Strainer        | List Price |
|-----------------|---------------|-----------|-----------|-----------------|------------|
| FD-1202,3,4-5-3 | 11            | 5"        | 2, 3, 4"  | stainless steel | \$585.84   |
| FD-1202,3,4-6-3 | 12.5          | 6"        | 2, 3, 4"  | stainless steel | 744.46     |
| FD-1202,3,4-8-3 | 16            | 8"        | 2, 3, 4"  | stainless steel | 2,101.89   |



| Chart A   |       |        | Chart B   |        |         |         |
|-----------|-------|--------|-----------|--------|---------|---------|
| Str. Dia. | Min.  | Max.   | Pipe Size | No Hub | Push On | PVC/ABS |
| 5"        | 7/16" | 2 1/4" | 2"        | 4 3/4" | 5 1/2"  | 4"      |
| 6"        | 5/8"  | 2 1/4" | 3"        | 4 3/4" | 5 1/2"  | 4"      |
| 8"        | 3/4"  | 2 3/4" | 4"        | 4 3/4" | 5 1/2"  | 4"      |



Note: Funnels are ordered separately.  
See page 76 for details.

### Options for FD-1200 Series:

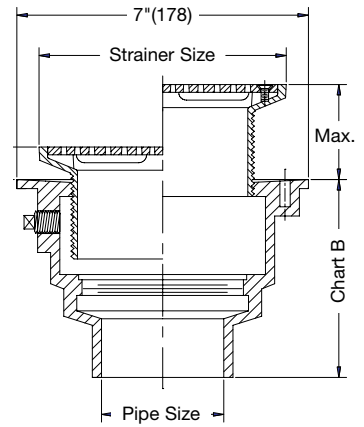
| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -28    | 304 SS Body & Collar (No Hub Only)       | \$3,254.00 |
| P      | Push-On Outlet                             | \$49.25    | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 36.50      |
| T      | Threaded Outlet                            | 102.50     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 36.50      |
| None   | 6" Outlet No Hub Only                      | 157.00     | -F4-3  | 4" Round SS Funnel                       | 189.50     |
| -5     | Sediment Bucket                            | 62.00      | -F4-50 | 4" Round Cast Iron Funnel                | 140.50     |
| -6     | Vandal Proof                               | 49.25      | -F4-1  | 4" Round Nickel Bronze Funnel            | 290.00     |
| -7     | Trap Primer Tapping                        | No Add     | -F6-1  | 6" Round Nickel Bronze Funnel            | 749.00     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 106.00     | -G-50  | 4x9" Oval Cast Iron Funnel               | 390.00     |
| -12    | Galvanized Body                            | 177.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 395.50     |
| -15    | Strainer Extension (DD-50)                 | 118.50     | -S0    | Side Outlet (2, 3, 4" Only)              | 273.50     |

**WATTS®** Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Adjustable Floor Drains with Stainless Steel Strainers

## FD-1200-L Floor Drain with Heavy Duty Square Stainless Steel Strainer

| Model Number     | Wt. (lbs.) | Str. Size | Pipe Size | Strainer        | List Price |
|------------------|------------|-----------|-----------|-----------------|------------|
| FD-1202,3,4-L5-3 | 10         | 5 x 5"    | 2, 3, 4"  | stainless steel | \$556.67   |
| FD-1202,3,4-L6-3 | 14         | 6 x 6"    | 2, 3, 4"  | stainless steel | 965.98     |
| FD-1202,3,4-L8-3 | 16         | 8 x 8"    | 2, 3, 4"  | stainless steel | 1,201.59   |



| Chart A  |        |         |
|----------|--------|---------|
| Strainer | Min.   | Max.    |
| 5" x 5"  | 1 1/2" | 2 5/16" |
| 6" x 6"  | 1 1/2" | 2 5/16" |
| 8" x 8"  | 3/4"   | 2 3/4"  |

| Chart B   |        |         |         |
|-----------|--------|---------|---------|
| Pipe Size | No Hub | Push On | PVC/ABS |
| 2"        | 4 3/4" | 5 1/2"  | 4"      |
| 3"        | 4 3/4" | 5 1/2"  | 4"      |
| 4"        | 4 3/4" | 5 1/2"  | 4"      |

*Note:* Funnels are ordered separately. See page 76 for details.

### Options for FD-1200 Series:

| Suffix | Description                                | List Price | Suffix | Description                              | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -28    | 304 SS Body & Collar (No Hub Only)       | \$3,254.00 |
| P      | Push-On Outlet                             | \$49.25    | -60    | PVC Body w/Socket Outlet (2, 3, 4" Only) | 36.50      |
| T      | Threaded Outlet                            | 102.50     | -61    | ABS Body w/Socket Outlet (2, 3, 4" Only) | 36.50      |
| None   | 6" Outlet No Hub Only                      | 157.00     | -F4-3  | 4" Round SS Funnel                       | 189.50     |
| -5     | Sediment Bucket                            | 62.00      | -F4-50 | 4" Round Cast Iron Funnel                | 140.50     |
| -6     | Vandal Proof                               | 49.25      | -F4-1  | 4" Round Nickel Bronze Funnel            | 290.00     |
| -7     | Trap Primer Tapping                        | No Add     | -F6-1  | 6" Round Nickel Bronze Funnel            | 749.00     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 106.00     | -G-50  | 4x9" Oval Cast Iron Funnel               | 390.00     |
| -12    | Galvanized Body                            | 177.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel           | 395.50     |
| -15    | Strainer Extension (DD-50)                 | 118.50     | -S0    | Side Outlet (2, 3, 4" Only)              | 273.50     |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

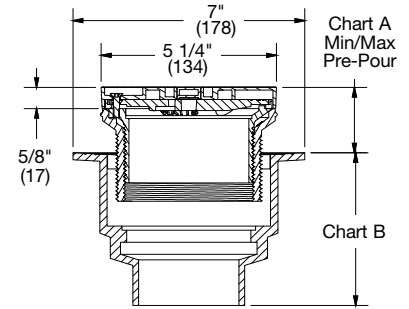


# Adjustable Floor Drains with Stainless Steel Strainers

**FD-1290-PR**

**Pronto!® Cast Iron Adjustable Floor Drain w/Integrated Level**

| Model Number      | Weight Lbs. | Str. Size | Outlet Size | Strainer        | List Price |
|-------------------|-------------|-----------|-------------|-----------------|------------|
| FD-1292, 3, 4-PR5 | 13          | 5"(127)   | 2, 3, 4"    | stainless steel | \$CF**     |
| FD-1292, 3, 4-PR6 | 15          | 6"(152)   | 2, 3, 4"    | stainless steel | CF**       |
| FD-1292, 3, 4-PR7 | 17          | 7"(178)   | 2, 3, 4"    | stainless steel | CF**       |
| FD-1292, 3, 4-PR8 | 20          | 8"(203)   | 2, 3, 4"    | stainless steel | CF**       |

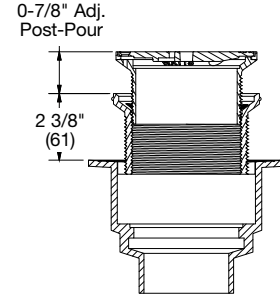


**Chart A**

| Strainer Size | Min.         | Max.        | Load Rating | Free Area Sq. In |
|---------------|--------------|-------------|-------------|------------------|
| 5"(127)       | 1 1/2"(38)   | 3 1/4"(83)  | MD          | 6 1/16"(154)     |
| 6"(152)       | 1 1/2"(38)   | 3 1/4"(83)  | LD          | 10 3/4"(273)     |
| 7"(178)       | 1 9/16"(40)  | 3 5/16"(84) | LD          | 13 1/4"(337)     |
| 8"(203)       | 1 11/16"(43) | 3 7/16"(87) | MD          | 19"(483)         |

**Chart B**

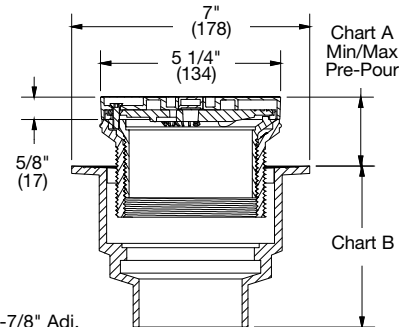
| Pipe Size | Std. No Hub | P Push On   | 60/61 PVC/ABS |
|-----------|-------------|-------------|---------------|
| 2"(51)    | 4 1/2"(114) | 5 1/2"(140) | 4"(102)       |
| 3"(76)    | 4 1/2"(114) | 5 1/2"(140) | 4"(102)       |
| 4"(102)   | 4 3/4"(121) | 5 1/2"(140) | 4"(102)       |



**FD-1290-PR-60**

**Pronto!® PVC Adjustable Floor Drain w/Integrated Level**

| Model Number         | Wt. Lbs. | Str. Size | Outlet Size | Strainer        | List Price |
|----------------------|----------|-----------|-------------|-----------------|------------|
| FD-1292, 3, 4-PR5-60 | 4        | 5"(127)   | 2, 3, 4"    | stainless steel | \$CF**     |
| FD-1292, 3, 4-PR6-60 | 5        | 6"(152)   | 2, 3, 4"    | stainless steel | CF**       |
| FD-1292, 3, 4-PR7-60 | 6        | 7"(178)   | 2, 3, 4"    | stainless steel | CF**       |
| FD-1292, 3, 4-PR8-60 | 7        | 8"(203)   | 2, 3, 4"    | stainless steel | CF**       |

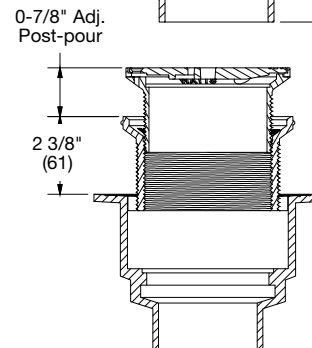


**Chart A**

| Strainer Size | Min.         | Max.        | Load Rating | Free Area Sq. In |
|---------------|--------------|-------------|-------------|------------------|
| 5"(127)       | 1 1/2"(38)   | 3 1/4"(83)  | MD          | 6 1/16"(154)     |
| 6"(152)       | 1 1/2"(38)   | 3 1/4"(83)  | LD          | 10 3/4"(273)     |
| 7"(178)       | 1 9/16"(40)  | 3 5/16"(84) | LD          | 13 1/4"(337)     |
| 8"(203)       | 1 11/16"(43) | 3 7/16"(87) | MD          | 19"(483)         |

**Chart B**

| Pipe Size | 60 PVC      |
|-----------|-------------|
| 2"(51)    | 4 1/2"(114) |
| 3"(76)    | 4 1/2"(114) |
| 4"(102)   | 4 1/2"(114) |



*Note:* Funnels are ordered separately. See page 76 for details.

## Options for FD-1290-PR Series:

| Suffix | Description                                | List Price | Suffix | Description                                | List Price |
|--------|--|------------|--------|--|------------|
| None   | No Hub Outlet                              | No Add     | -61    | ABS Body w/Socket Outlet (FD-1190-PR Only) | CF**       |
| P      | Push-On Outlet                             | \$49.25    | -F4-50 | 4" Round Cast Iron Funnel                  | \$189.50   |
| T      | Threaded Outlet                            | 102.50     | -F4-1  | 4" Round Nickel Bronze Funnel              | 140.50     |
| None   | 6" Outlet No Hub Only                      | 157.00     | -F6-1  | 6" Round Nickel Bronze Funnel              | 749.00     |
| -7     | Trap Primer Tapping                        | No Add     | -G-50  | 4x9" Oval Cast Iron Funnel                 | 290.00     |
| -8     | Squeeze in Backwater Valve (2, 3, 4" Only) | 106.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel             | 390.00     |
| -12    | Galvanized Body (FD-1190-PR Only)          | 177.00     | -S0    | Side Outlet (FD-1190-PR 2, 3, 4" Only)     | CF**       |
| -15    | Strainer Extension (DD-50)                 | 118.50     |        |  |            |



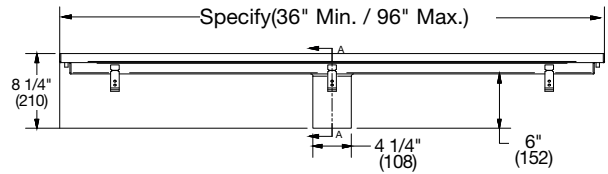
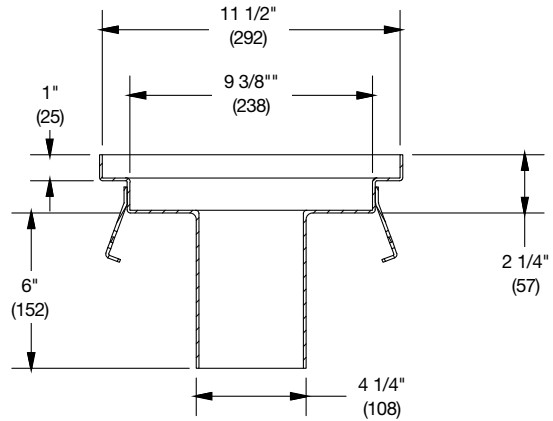
Consult factory for all applications outside of listed parameters. Prices do not include applicable taxes.

# Channel Drains/Accessories

## TD-300 Elevator Channel Drain

| Model Number               | Size | EDP Number | Grate           | List Price |
|----------------------------|------|------------|-----------------|------------|
| TD-324                     | 24"  | 8189398    | stainless steel | \$CF**!    |
| *TD-336                    | 36"  | 8189211    | stainless steel | 10,653.50  |
| *TD-342                    | 42"  | 8189377    | stainless steel | 14,653.56  |
| *TD-348                    | 48"  | 8189779    | stainless steel | 14,530.88  |
| *TD-360                    | 60"  | 8189780    | stainless steel | CF**       |
| *TD-396                    | 96"  | 8189375    | stainless steel | 33,498.87  |
| Special Order: Add Per Ft. |      |            |                 | \$4,112.00 |

\*Note: TD-300 is ANSI and ASME certified

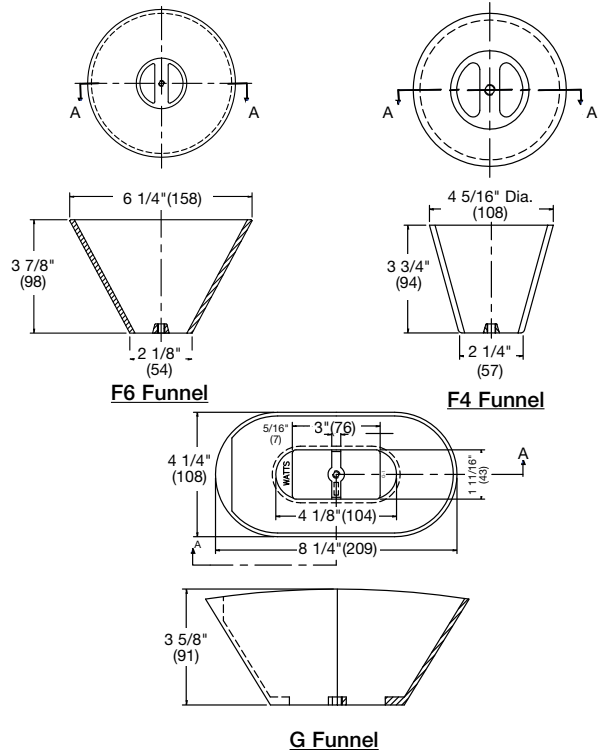


### Options for TD-300 Series:

| Suffix | Description           | List Price |
|--------|-----------------------|------------|
| -06    | 6"(152) No Hub Outlet | \$649.00   |

## FD-Funnels Bolt-On Funnels

| Model Number | EDP#    | Size      | Material        | List Price |
|--------------|---------|-----------|-----------------|------------|
| F4-50        | 8135668 | 4" Round  | cast iron       | \$140.87   |
| F4-1         | 8135666 | 4" Round  | nickel bronze   | 290.38     |
| F4-3         | 8187293 | 4" Round  | stainless steel | 535.84     |
| F6-1         | 8135671 | 6" Round  | nickel bronze   | 290.38     |
| G-50         | 8141444 | 4x9" Oval | cast iron       | 192.01     |
| G-1          | 8141441 | 4x9" Oval | nickel bronze   | 397.40     |
| G-3          | 8141443 | 4x9" Oval | stainless steel | 481.05     |



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.



# Sanitary Floor Sinks

## Table Of Contents

- Pictorial Index
- Recommendations
- Floor Sink Selection Factors
  - Materials
  - Pipe Connections
  - Load Ratings
  - Design Considerations
  - Commonly Specified Options
  - Option Configurations
- Typical Installations



# Sanitary Floor Sinks

## Pictorial Index



**FS-700**  
8" Round x 3" Deep



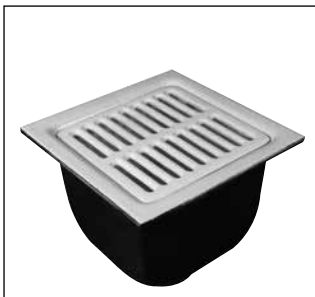
**FS-710**  
8" Square x 6" Deep



**FS-720**  
8" Round x 6" Deep



**FS-730**  
12" Square x 6" Deep



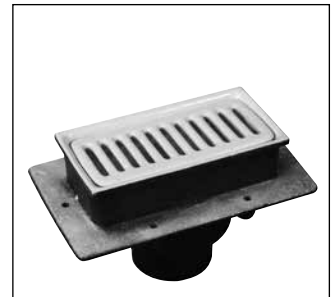
**FS-740**  
12" Square x 8" Deep



**FS-750**  
12" Square x 10" Deep



**FS-760**  
12" Round x 8" Deep



**FS-770**  
4"X8" Rectangular  
X 4" Deep



**FS-780**  
Stainless Steel  
12" Square x 6" Deep



**FS-790**  
Stainless Steel  
12" Square x 8" Deep



**FS-800**  
Can Wash Sink



**FS-850**  
16" Square x 12" Deep



**FS-900**  
12"x 24"x17" Deep

Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.





# Sanitary Floor Sinks

## Recommendations

Watts Sanitary Floor Sinks are recommended for indirect waste reception, generally in food handling or preparation areas. Sanitary floor sinks are constructed of porcelain enamel coated cast iron, or type 304 stainless steel. The smooth interior and rounded corners eliminate areas where pockets of waste and bacteria might otherwise accumulate.

## Floor Sink Selection Factors

### Materials

#### Porcelain enamel coated cast iron

White, glasslike inorganic coating common in sanitary plumbing applications. Corrosion proof and easy to clean, in compliance with strict sanitation standards.

#### Stainless steel

14 ga. in accordance with ASTM-351-Grade CF8 (Type 304) standard specification. Highly durable and resistant to corrosion.

#### PVC

Standard sch. 40 PVC, corrosion resistant, for direct solvent weld connection.

### Pipe Connections

#### No hub (standard)

Butt connection using a no hub or neoprene coupling. Suitable for cast iron, plastic, and most other piping applications.

#### Push-on (-P)

ASTM C-564 gasket connection, with pipe stop. Suitable for no hub or service weight cast iron, sch. 40 plastic, and steel pipe. Not recommended for above grade.

#### Inside caulk

Used for lead and oakum joints, pipe is inserted through a caulk ring on the drain outlet.

### Load Ratings

Floor sinks are not designed for traffic, and generally should not be specified in areas where traffic may occur. Please consult Watts technical support before specifying Sanitary Floor Sinks in an area subject to foot or other traffic.

### Design Considerations

#### Porcelain grating

Porcelain floor sink grates are specifically designed to maximize flow through the grate.

*Note: Porcelain grating is slippery and unstable, and cannot accept any foot or other traffic.*

#### Above grade installation

Above grade floor sinks must be specified with a flange (option -F) to prevent water from seeping around the sink, and leaking through the floor. If the floor is properly waterproofed with a membrane, option -FC (flange and clamp) should be specified.

# Sanitary Floor Sinks

## Floor Sink Selection Factors

### Commonly Specified Options

#### -F Flange with Weepholes

Anchors the sink in above grade applications. Water seeping around the outside of the sink will stop at the flange, and return to the sink through the weepholes.

#### -FC Flange with Weepholes and Flashing Clamp

Flange and flashing clamp secure a waterproofing membrane in above grade applications.

#### -1 Nickel Bronze Rim & Grate

Finished area top assembly for porcelain enamel coated sinks.

#### -3 Stainless Steel Rim & Grate

Finished area top assembly for porcelain enamel coated sinks.

#### -5 Sediment Bucket

Catches debris at the drain to prevent it from collecting and blocking the p-trap.

#### -6 Vandal Proof

Grate secured with Allen Head screws. Security screws (Torx and Pin, Allen and Pin) may be specified for high security applications.

#### -7 Trap Primer Tapping

Plugged 1/2" threaded inlet on drain body, for connection to trap primer valve (see Watts #LFTP300-DR).

#### -9 Hinged Grate

Available on square top floor sinks with optional nickel bronze (-1) or stainless steel (-3) top assemblies. Provides easy access to sediment buckets and drain lines requiring regular maintenance.

#### -21 Secondary Strainer

Fits in bottom of drain body, secondary protection against debris that bypasses sediment bucket.

#### -33 Less Grate

Grate removed for indirect waste reception.

#### -128 Grate with 2-1/2" Center Opening

For indirect waste line.

#### -150 1/2 Grate

Commonly specified under refrigeration cases. Receives indirect waste from back side, while grate covers exposed area.

#### -175 3/4 Grate

For indirect waste line.

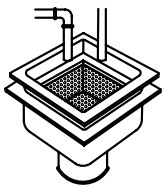
#### -F4-1, -F6-1 Round Funnels

4" or 6" dia. nickel bronze round funnels to accept single condensate lines. Bolt supplied to attach funnel through underside of grate.

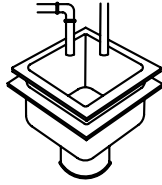
#### -G-1 Oval Funnel

4"x9" nickel bronze oval funnel, to accept multiple condensate lines. Bolt supplied to attach funnel through underside of grate.

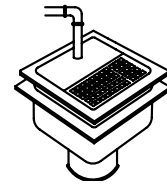
### Option Configurations



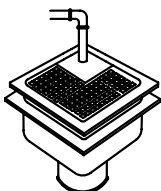
-5 Sediment Bucket



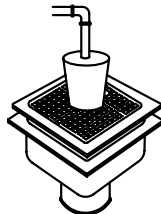
-33 Less Grate



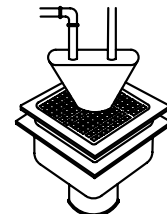
-150 1/2 Grate



-175 3/4 Grate



-F4-1 NB Round Funnel



-G-1 NB Oval Funnel

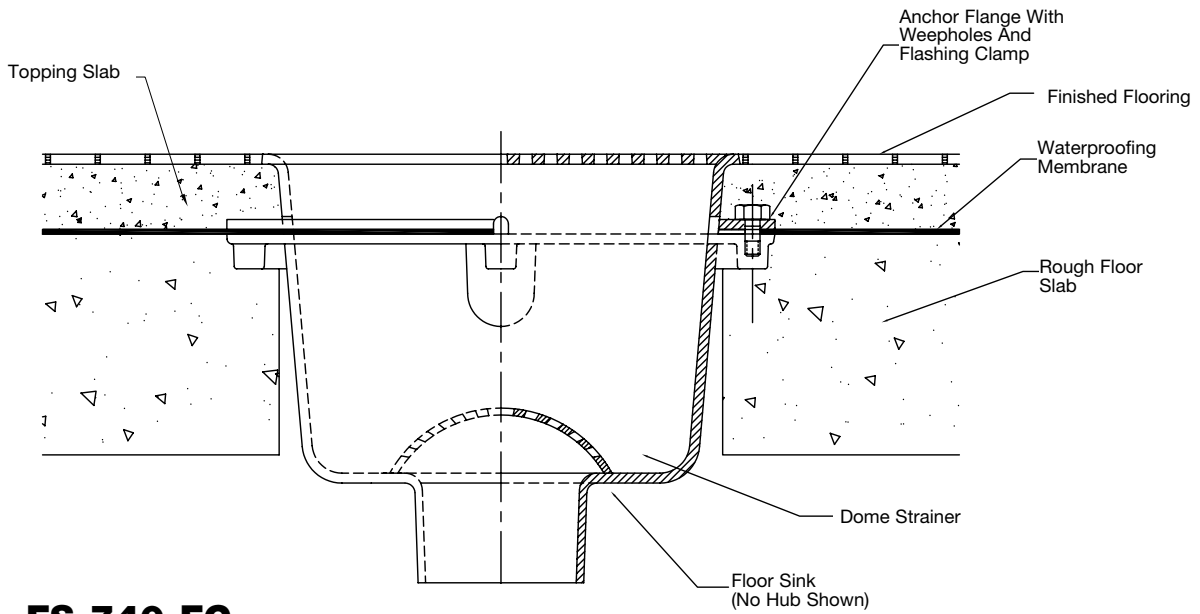
Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



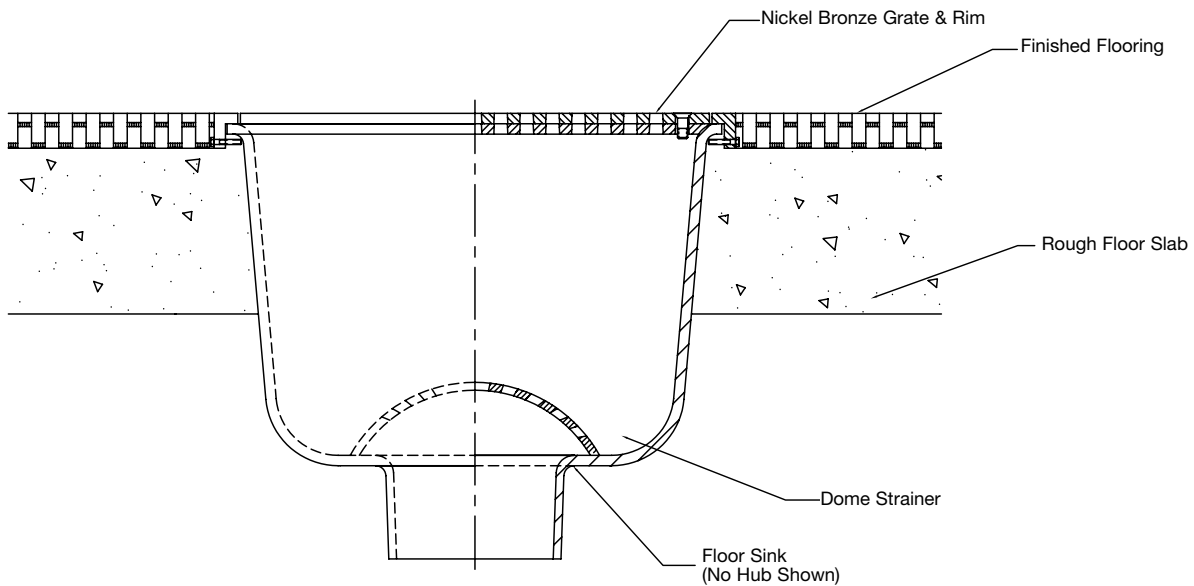
# Sanitary Floor Sinks

## Typical Installations



### FS-740-FC

ABOVE GRADE INSTALLATION



### FS-740-1

ON GRADE INSTALLATION



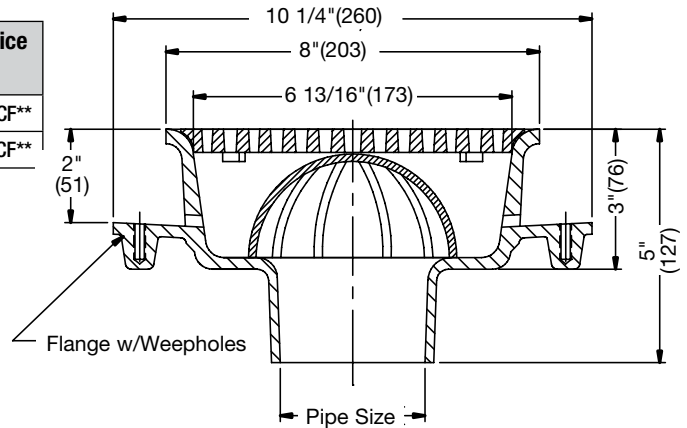
Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Sanitary Floor Sinks

**FS-700**

**8" Round x 3" Deep Sanitary Floor Sink**

| Model Number   | Weight (lbs.) | Top Size | Outlet Size | Top           | List Price |
|----------------|---------------|----------|-------------|---------------|------------|
| FS-702, 3, 4   | 14            | 8" Round | 2, 3, 4"    | porcelain     | \$CF**     |
| FS-702, 3, 4-1 | 20            | 8" Round | 2, 3, 4"    | nickel bronze | CF**       |



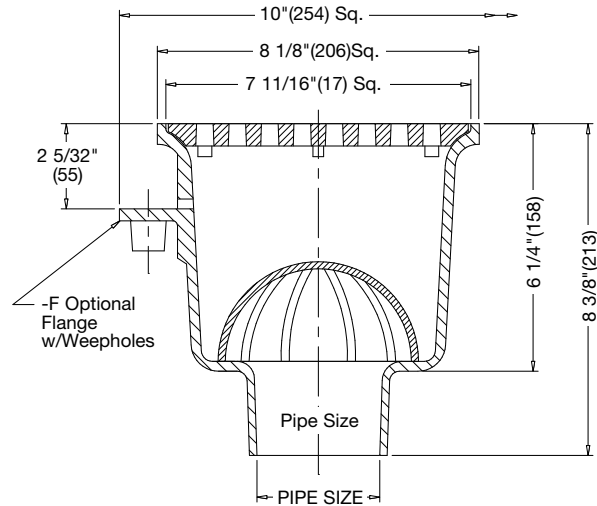
## Options for FS-700 Series:

| Suffix | Description                         | List Price | Suffix | Description                    | List Price |
|--------|-------------------------------------|------------|--------|--------------------------------|------------|
| None   | No Hub Outlet                       | No Add     | -21    | Secondary Strainer             | \$87.50    |
| P      | Push-On Outlet                      | \$49.25    | -150   | 1/2 Grate                      | No Add     |
| FC     | Flange w/Weepholes & Flashing Clamp | 241.00     | -175   | 3/4 Grate                      | No Add     |
| -5     | Sediment Bucket                     | 291.50     | -F4-1  | 4" Round Nickel Bronze Funnel  | 547.00     |
| -6     | Vandal Proof (-1 Only)              | 98.50      | -F6-1  | 6" Round Nickel Bronze Funnel  | 749.00     |
| -7     | Trap Primer Tapping                 | 251.50     | -G-1   | 4x9" Oval Nickel Bronze Funnel | 1,130.00   |

**FS-710**

**8" Square x 6" Deep Sanitary Floor Sink**

| Model Number   | Weight (lbs.) | Top Size | Outlet Size | Top             | List Price |
|----------------|---------------|----------|-------------|-----------------|------------|
| FS-712, 3, 4   | 20            | 8" Sq.   | 2, 3, 4"    | porcelain       | \$1,527.67 |
| FS-712, 3, 4-1 | 20            | 8" Sq.   | 2, 3, 4"    | nickel bronze   | 1,924.80   |
| FS-712, 3, 4-3 | 20            | 8" Sq.   | 2, 3, 4"    | stainless steel | 2,612.00   |



## Options for FS-710/720 Series:

| Suffix | Description                         | List Price | Suffix | Description                    | List Price |
|--------|-------------------------------------|------------|--------|--------------------------------|------------|
| None   | No Hub Outlet                       | No Add     | -21    | Secondary Strainer             | \$87.50    |
| P      | Push-On Outlet                      | \$49.25    | -150   | 1/2 Grate                      | No Add     |
| F      | Flange w/Weepholes                  | 273.50     | -175   | 3/4 Grate                      | No Add     |
| FC     | Flange w/Weepholes & Flashing Clamp | 494.00     | -F4-1  | 4" Round Nickel Bronze Funnel  | 290.00     |
| -5     | Sediment Bucket                     | 377.50     | -F6-1  | 6" Round Nickel Bronze Funnel  | 749.00     |
| -6     | Vandal Proof (-1, -3 Only)          | 93.00      | -G-1   | 4x9" Oval Nickel Bronze Funnel | 395.50     |
| -7     | Trap Primer Tapping                 | 124.00     |        |                                |            |

Consult factory for all applications outside of listed parameters.

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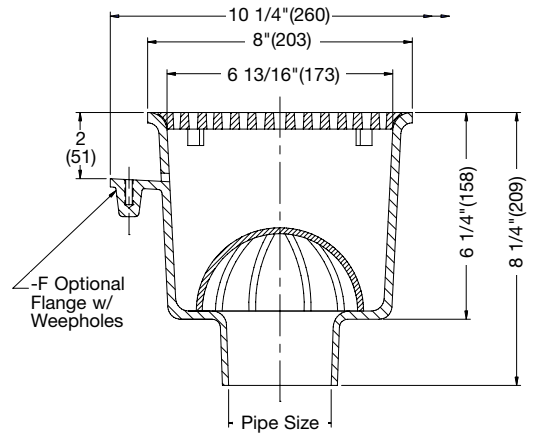


# Sanitary Floor Sinks

**FS-720**

**8" Round x 6" Deep Sanitary Floor Sink**

| Model Number   | Weight (lbs.) | Top Size | Outlet Size | Top           | List Price |
|----------------|---------------|----------|-------------|---------------|------------|
| FS-722, 3, 4   | 16            | 8" Round | 2, 3, 4"    | porcelain     | \$CF**     |
| FS-722, 3, 4-1 | 16            | 8" Round | 2, 3, 4"    | nickel bronze | CF**       |



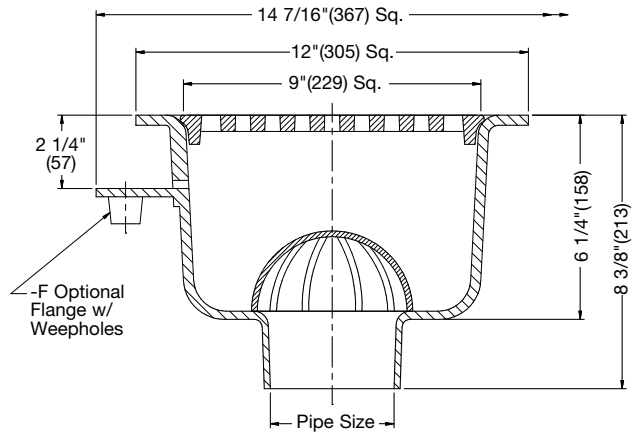
**Options for FS-710/720 Series:**

| Suffix | Description                         | List Price | Suffix | Description                    | List Price |
|--------|-------------------------------------|------------|--------|--------------------------------|------------|
| None   | No Hub Outlet                       | No Add     | -21    | Secondary Strainer             | \$87.50    |
| P      | Push-On Outlet                      | \$49.25    | -150   | 1/2 Grate                      | No Add     |
| F      | Flange w/Weepholes                  | 273.50     | -175   | 3/4 Grate                      | No Add     |
| FC     | Flange w/Weepholes & Flashing Clamp | 494.00     | -F4-1  | 4" Round Nickel Bronze Funnel  | 290.00     |
| -5     | Sediment Bucket                     | 377.50     | -F6-1  | 6" Round Nickel Bronze Funnel  | 749.00     |
| -6     | Vandal Proof (-1, -3 Only)          | 93.00      | -G-1   | 4x9" Oval Nickel Bronze Funnel | 395.50     |
| -7     | Trap Primer Tapping                 | 124.00     |        |                                |            |

**FS-730**

**12" Square x 6" Deep Sanitary Floor Sink**

| Model Number   | Weight (lbs.) | Top Size | Outlet Size | Top           | List Price |
|----------------|---------------|----------|-------------|---------------|------------|
| FS-732, 3, 4   | 32            | 12" Sq.  | 2, 3, 4"    | porcelain     | \$977.01   |
| FS-732, 3, 4-1 | 32            | 12" Sq.  | 2, 3, 4"    | nickel bronze | 1,908.15   |



**Options for FS-730 / FS-740 / FS-750 Series:**

| Suffix | Description                         | List Price | Suffix | Description                      | List Price |
|--------|-------------------------------------|------------|--------|----------------------------------|------------|
| None   | No Hub Outlet                       | No Add     | -9     | Hinged Grate (-1, -3 Only)       | \$455.50   |
| P      | Push-On Outlet                      | \$49.25    | -21    | Secondary Strainer               | 87.50      |
| -F     | Flange w/Weepholes                  | 273.50     | -128   | Grate with 2 1/2" Center Opening | 230.00     |
| FC     | Flange w/Weepholes & Flashing Clamp | 494.00     | -150   | 1/2 Grate                        | No Add     |
| -3     | Stainless Steel (Rim & Grate)       | 1,163.00   | -175   | 3/4 Grate                        | No Add     |
| -5     | Sediment Bucket                     | 377.50     | -F4-1  | 4" Round Nickel Bronze Funnel    | 290.00     |
| -6     | Vandal Proof (-1, -3 Only)          | 93.00      | -F6-1  | 6" Round Nickel Bronze Funnel    | 749.00     |
| -7     | Trap Primer Tapping                 | 124.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel   | 395.50     |



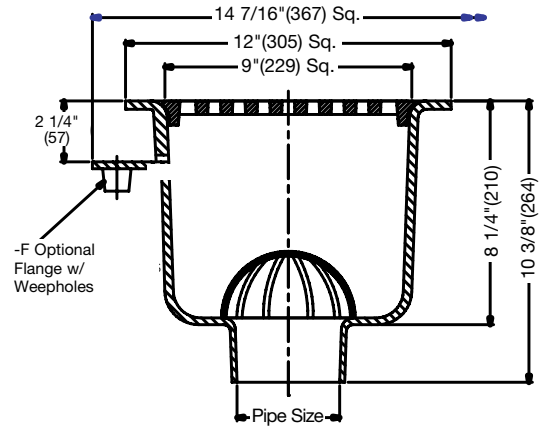
Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Sanitary Floor Sinks

**FS-740**

**12" Square x 8" Deep Sanitary Floor Sink**

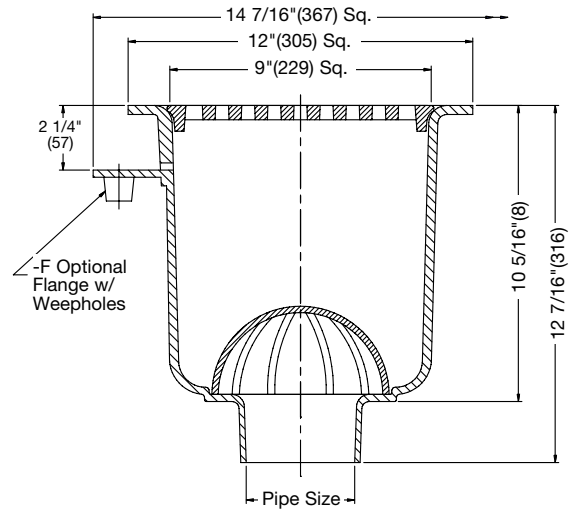
| Model Number   | Weight (lbs.) | Top Size | Outlet Size | Top           | List Price |
|----------------|---------------|----------|-------------|---------------|------------|
| FS-742, 3, 4   | 34            | 12" Sq.  | 2, 3, 4"    | porcelain     | \$1,281.71 |
| FS-742, 3, 4-1 | 34            | 12" Sq.  | 2, 3, 4"    | nickel bronze | 2,212.85   |



**FS-750**

**12" Square x 10" Deep Sanitary Floor Sink**

| Model Number   | Weight (lbs.) | Top Size | Outlet Size | Top           | List Price |
|----------------|---------------|----------|-------------|---------------|------------|
| FS-752, 3, 4   | 36            | 12" Sq.  | 2, 3, 4"    | porcelain     | \$CF**     |
| FS-752, 3, 4-1 | 36            | 12" Sq.  | 2, 3, 4"    | nickel bronze | CF**       |



## Options for FS-730 / FS-740 / FS-750 Series:

| Suffix | Description                         | List Price | Suffix | Description                      | List Price |
|--------|-------------------------------------|------------|--------|----------------------------------|------------|
| None   | No Hub Outlet                       | No Add     | -9     | Hinged Grate (-1, -3 Only)       | \$455.50   |
| P      | Push-On Outlet                      | \$49.25    | -21    | Secondary Strainer               | 87.50      |
| -F     | Flange w/Weepholes                  | 273.50     | -128   | Grate with 2 1/2" Center Opening | 230.00     |
| FC     | Flange w/Weepholes & Flashing Clamp | 494.00     | -150   | 1/2 Grate                        | No Add     |
| -3     | Stainless Steel (Rim & Grate)       | 1,163.00   | -175   | 3/4 Grate                        | No Add     |
| -5     | Sediment Bucket                     | 377.50     | -F4-1  | 4" Round Nickel Bronze Funnel    | 290.00     |
| -6     | Vandal Proof (-1, -3 Only)          | 93.00      | -F6-1  | 6" Round Nickel Bronze Funnel    | 749.00     |
| -7     | Trap Primer Tapping                 | 124.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel   | 395.50     |

Consult factory for all applications outside of listed parameters.

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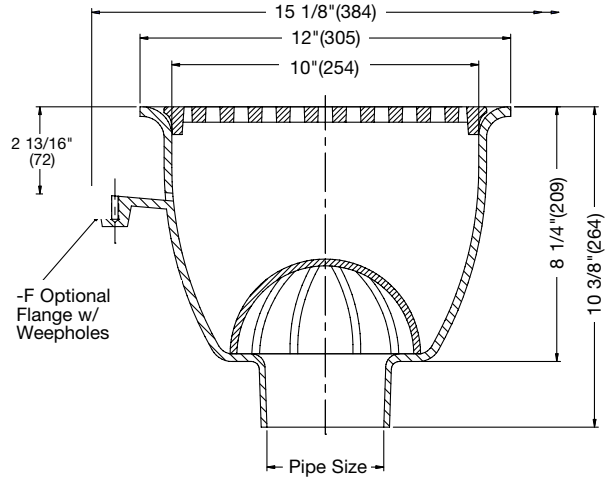


# Sanitary Floor Sinks

**FS-760**

**12" Round x 8" Deep Sanitary Floor Sink**

| Model Number   | Weight (lbs.) | Top Size  | Outlet Size | Top           | List Price |
|----------------|---------------|-----------|-------------|---------------|------------|
| FS-762, 3, 4   | 32            | 12" Round | 2, 3, 4"    | porcelain     | \$CF**     |
| FS-762, 3, 4-1 | 32            | 12" Round | 2, 3, 4"    | nickel bronze | CF**       |



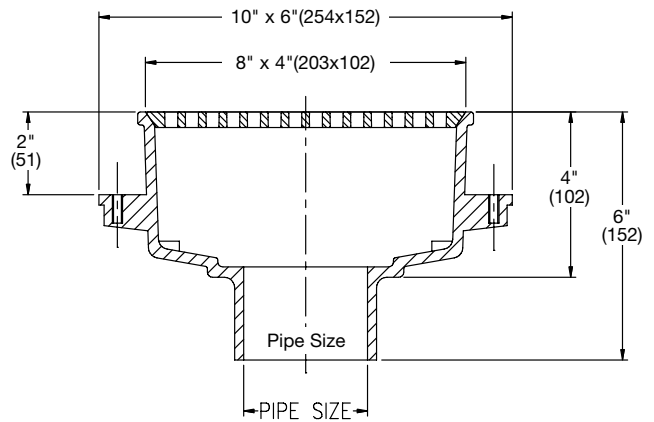
**Options for FS-760 Series:**

| Suffix | Description                         | List Price | Suffix | Description                    | List Price |
|--------|-------------------------------------|------------|--------|--------------------------------|------------|
| None   | No Hub Outlet                       | No Add     | -21    | Secondary Strainer             | \$87.50    |
| P      | Push-On Outlet                      | \$49.25    | -150   | 1/2 Grate                      | No Add     |
| -F     | Flange w/Weepholes                  | 273.50     | -175   | 3/4 Grate                      | No Add     |
| FC     | Flange w/Weepholes & Flashing Clamp | 492.00     | -F4-1  | 4" Round Nickel Bronze Funnel  | 290.00     |
| -5     | Sediment Bucket                     | 377.50     | -F6-1  | 6" Round Nickel Bronze Funnel  | 749.00     |
| -6     | Vandal Proof (-1, -3 Only)          | 93.00      | -G-1   | 4x9" Oval Nickel Bronze Funnel | 395.50     |
| -7     | Trap Primer Tapping                 | 124.00     |        |                                |            |

**FS-770**

**8" x 4" x 4" Deep Sanitary Floor Sink**

| Model Number | Weight (lbs.) | Top Size | Outlet Size | Top           | List Price |
|--------------|---------------|----------|-------------|---------------|------------|
| FS-772, 3,   | 16            | 4" x 8"  | 2, 3"       | porcelain     | \$834.26   |
| FS-772, 3-1  | 16            | 4" x 8"  | 2, 3"       | nickel bronze | CF**       |



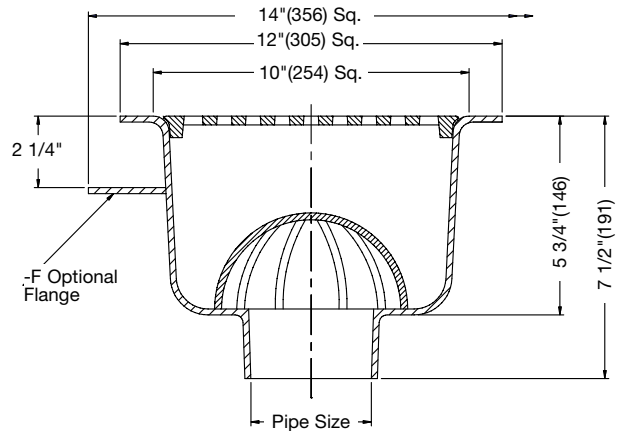
**Options for FS-770 Series:**

| Suffix | Description            | List Price | Suffix | Description                    | List Price |
|--------|------------------------|------------|--------|--------------------------------|------------|
| None   | No Hub Outlet          | No Add     | -150   | 1/2 Grate                      | No Add     |
| P      | Push-On Outlet         | \$49.25    | -F4-1  | 4" Round Nickel Bronze Funnel  | \$290.00   |
| FC     | Flashing Clamp         | 492.00     | -F6-1  | 6" Round Nickel Bronze Funnel  | 749.00     |
| -5     | Sediment Bucket        | 250.50     | -G-1   | 4x9" Oval Nickel Bronze Funnel | 395.50     |
| -6     | Vandal Proof (-1 Only) | 98.50      |        |                                |            |
| -7     | Trap Primer Tapping    | 124.00     |        |                                |            |

# Sanitary Floor Sinks

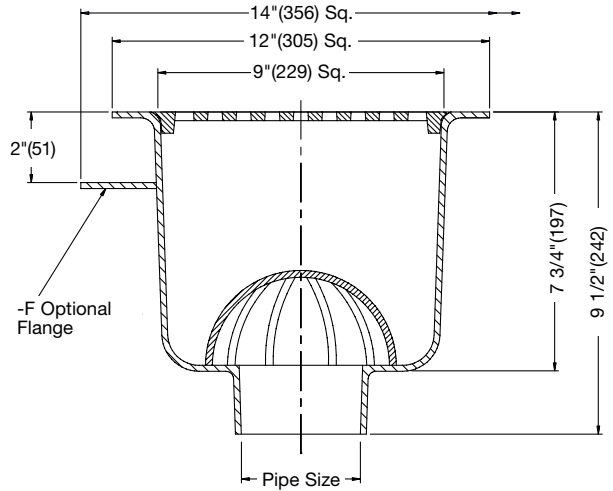
## FS-780 12" Square x 6" Deep Sanitary Floor Sink

| Model Number | Weight (lbs.) | Top Size | Outlet Size | Top             | List Price |
|--------------|---------------|----------|-------------|-----------------|------------|
| FS-782, 3, 4 | 16            | 12" Sq.  | 2, 3, 4"    | stainless steel | \$3,618.73 |



## FS-790 12" Square x 8" Deep Stainless Steel Sanitary Floor Sink

| Model Number | Weight (lbs.) | Top Size | Outlet Size | Top             | List Price |
|--------------|---------------|----------|-------------|-----------------|------------|
| FS-792, 3, 4 | 18            | 12" Sq.  | 2, 3, 4"    | stainless steel | \$5,526.14 |



### Options for FS-780 / FS-790 Series:

| Suffix | Description                         | List Price | Suffix | Description                    | List Price |
|--------|-------------------------------------|------------|--------|--------------------------------|------------|
| None   | No Hub Outlet                       | No Add     | -150   | 1/2 Grate                      | No Add     |
| P      | Push-On Outlet                      | \$49.25    | -175   | 3/4 Grate                      | No Add     |
| -F     | Flange w/Weepholes                  | 711.00     | -F4-1  | 4" Round Nickel Bronze Funnel  | \$290.00   |
| FC     | Flange w/Weepholes & Flashing Clamp | 1,334.00   | -F6-1  | 6" Round Nickel Bronze Funnel  | 749.00     |
| -5     | Sediment Bucket                     | 536.00     | -G-1   | 4x9" Oval Nickel Bronze Funnel | 395.50     |
| -6     | Vandal Proof                        | 827.50     | -HD    | Heavy Duty Grate               | 504.00     |
| -21    | Secondary Strainer                  | 87.50      |        |                                |            |

Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.



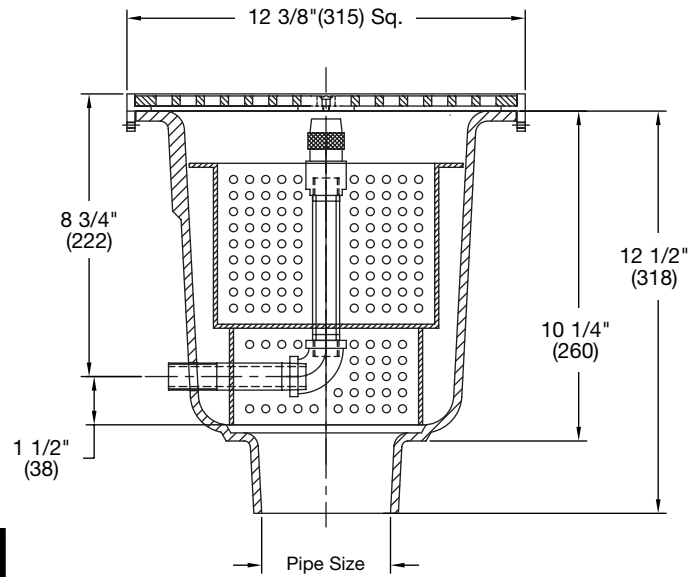


# Sanitary Floor Sinks

**FS-800**

**Sanitary Can Wash**

| Model Number | Weight (lbs.) | Top Size | Outlet Size | Top           | List Price |
|--------------|---------------|----------|-------------|---------------|------------|
| FS-804       | 39            | 12" Sq.  | 4"          | nickel bronze | \$4,515.26 |



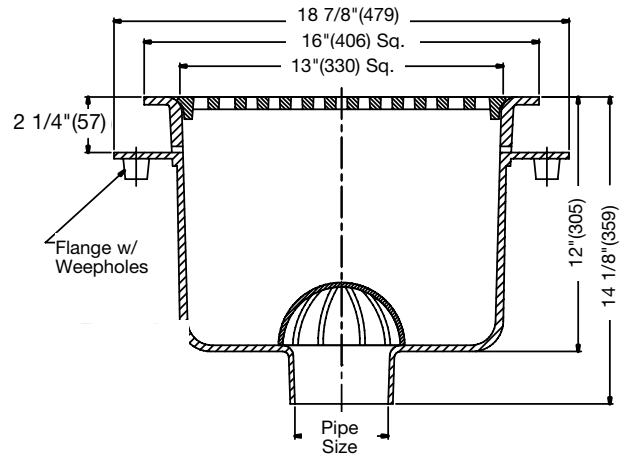
**Options for FS-800 Series:**

| Suffix | Description  | List Price |
|--------|--------------|------------|
| -6     | Vandal Proof | \$98.50    |

**FS-850**

**16" Square x 12" Deep Sanitary Floor Sink**

| Model Number | Weight (lbs.) | Top Size | Outlet Size | Top           | List Price |
|--------------|---------------|----------|-------------|---------------|------------|
| FS-854,6     | 150           | 16" Sq.  | 4, 6"       | porcelain     | \$4,866.94 |
| FS-854,6-1   | 150           | 16" Sq.  | 4, 6"       | nickel bronze | 5,877.57   |



**Options for FS-850 Series:**

| Suffix | Description            | List Price | Suffix | Description                    | List Price |
|--------|------------------------|------------|--------|--------------------------------|------------|
| FC     | Flashing Clamp         | \$729.00   | -175   | 3/4 Grate                      | No Add     |
| -5     | Sediment Bucket        | 1,072.00   | -F4-1  | 4" Round Nickel Bronze Funnel  | \$290.00   |
| -6     | Vandal Proof (-1 Only) | 90.50      | -F6-1  | 6" Round Nickel Bronze Funnel  | 749.00     |
| -7     | Trap Primer Tapping    | 251.50     | -G-1   | 4x9" Oval Nickel Bronze Funnel | 395.50     |
| -150   | 1/2 Grate              | No Add     |        |                                |            |

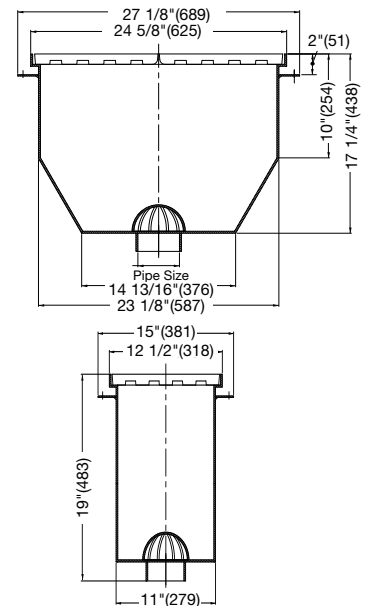
**WATTS®** Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Sanitary Floor Sinks & Receptor

**FS-900**

**12" x 24" x 17" Deep Floor Receptor**

| Model Number   | Weight (lbs.) | Top Size  | Outlet Size | Top           | List Price |
|----------------|---------------|-----------|-------------|---------------|------------|
| FS-902,3,4,6   | 82            | 12" x 24" | 2, 3, 4, 6" | ductile iron  | \$CF**     |
| FS-902,3,4,6-1 | 82            | 12" x 24" | 2, 3, 4, 6" | nickel bronze | CF**       |



## Options for FS-900 Series:

| Suffix | Description            | List Price | Suffix | Description                    | List Price |
|--------|------------------------|------------|--------|--------------------------------|------------|
| None   | No Hub                 | No Add     | -150   | 1/2 Grate                      | No Add     |
| P      | Push-On Outlet         | \$49.25    | -175   | 3/4 Grate                      | No Add     |
| -FC    | Flashing Clamp         | 729.00     | -F4-1  | 4" Round Nickel Bronze Funnel  | \$290.00   |
| -5     | Sediment Bucket        | 2,431.00   | -F6-1  | 6" Round Nickel Bronze Funnel  | 749.00     |
| -6     | Vandal Proof (-1 Only) | 98.50      | -G-1   | 4x9" Oval Nickel Bronze Funnel | 395.50     |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



# Dead Level® Trench Drains

## Table Of Contents

- Pictorial Index
- Dead Level® Features
- Design Considerations
- Gratings
- Load Classifications
- Configure & Order Dead Level
- Typical Configurations



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Dead Level® Trench Drains

## Pictorial Index



**Dead Level® BK**  
6" Wide SS Grating w/  
Ductile Iron Frame



**Dead Level® D**  
6" Wide Pre-Sloped  
w/Ductile Iron Frame



**Dead Level® P**  
6" Wide Pre-Sloped  
w/Polypropylene Frame



**Dead Level® DX**  
12" Wide Pre-Sloped  
w/Ductile Iron Frame



**Dead Level® S**  
6" Wide Deck Channel For  
Cast in Place



**Dead Level® Z**  
6" Wide Flanged Deck  
Channel For Precast



**Dead Level® DL-GF**  
6" Wide Grating  
w/Ductile Iron Frame



**Dead Level® DLP-GF**  
6" Wide Grating  
w/Polypropylene Frame



**Dead Level® DX-GF**  
12" Wide Grating  
w/Ductile Iron Frame



**Dead Level® Catch Basin**  
6"x24"x24" & 24"x24"x24"  
Catch Basins

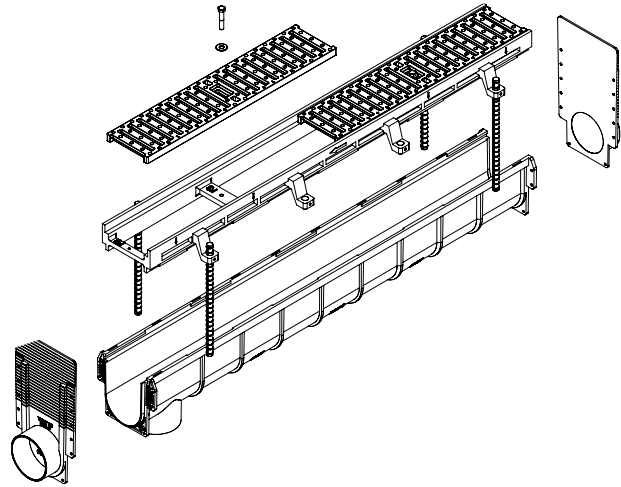
Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.



# Dead Level® Trench Drains

## Dead Level® Features

Uniquely engineered,  
Dead Level® installs and  
performs like no other  
trench drain system



### Applications

Recommended for surface drainage in indoor or outdoor applications.

### Superior materials

Chemical resistant, UV stabilized injection molded polypropylene channels. Standard ductile iron frames for heavy traffic, or durable polypropylene frames for moderate traffic.

### Stability & structural strength

Channels lock longitudinally outside of the structural frame, and cannot pinch or fold in with the concrete pour. Concentrated and dynamic loads transfer directly from the frame to the slab, protecting channels from stress and loading failure.

### Frame anchored design

Support anchors tie directly to the structural frame, not the channels. Straight, level installations are easily accomplished, with less risk of channel floating.

### Solid connections

Flanged channel, end cap, and frame connections create proper joints and alignment. Pre-molded no hub outlets guarantee a solid connection to discharge piping.

### Short & corner/tee sections

1' straight and combination corner/tee sections add flexibility on uneven runs, while eliminating difficult field cutting operations.

### Maximum flow

.7% sloped channels, with radiused bottom and smooth interior generate maximum hydraulic flow.

### Gratings for diverse commercial applications

Ductile iron, stainless steel, galvanized, polypropylene, fiberglass, and bronze gratings available to meet DIN 19580 Load Classifications A through F. Check product specifications for heel proof and ADA requirements.

### Shipped with construction covers

Time-saving construction covers protect the grating, and keep channels free of debris during construction.

## Design Considerations

### Traffic

Vehicular or equipment traffic requires higher load classifications, depending upon the specific type of loading. In general, non-pneumatic wheels and high velocity traffic create the heaviest loads. Trench drains subject to pedestrian traffic may require heel proof or ADA compliant grating. Polypropylene grating should be specified in areas with barefoot traffic, particularly around swimming pools, where chlorine can attack stainless steel grating.

### Flow & Outlets

Specific flow calculations are typically used for outdoor trench drain. Indoors, flushing is usually of primary concern, particularly in sanitary environments. Pre-sloped trench drain is designed to be self-flushing, although minimal flows or long travel to an outlet will reduce flushing action. A general recommendation is minimum one outlet every 80' outdoors, every 100' indoors.

### Catch Basins

Catch basins should be used as a point to trap debris, transition flow from the trench drain to discharge piping, or as a junction box receiving multiple runs.

### Cosmetics

Any cast iron or ductile iron surface should be expected to show rust, even with an applied coating. Metal grating specified in a high visibility area should be galvanized or stainless steel. Optional galvanized or stainless steel frame guards are specified to match the frame to the grating, and maintain a uniform appearance.

\* See Watts Dead Level® Trench Drains catalogue for complete information.



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Dead Level® Trench Drains

## Grating



### Ductile Iron

8187063 DLG-DI12 12"  
8187307 DLG-DI 24"



### Galvanized Steel Slotted

8187346 DLG-GS12 12" 8187309 DLG-GS 48"  
8187366 DLG-GS24 24"  
8188706 DLG-GS36 36"



### Galvanized Steel Perforated

8187347 DLG-GP12 12" 8187312 DLG-GP 48"  
8187358 DLG-GP24 24"  
8188705 DLG-GP36 36"



### Stainless Steel Slotted

8187348 DLG-SS12 12" 8187308 DLG-SS 48"  
8187368 DLG-SS24 24"  
8188708 DLG-SS36 36"



### Stainless Steel Perforated

8187349 DLG-SP12 12" 8189435 DLG-SP40 40"  
8187369 DLG-SP24 24"  
8188707 DLG-SP36 36"



### Polypropylene Composite

8187370 DLG-PP12 12"  
8187030 DLG-PP 24"



### Decorative Bronze

8187425 DLG-BR 24"



### Galvanized Ductile Iron

8187989 DLG-GDI12 12"



### Ductile Iron ADA

8187611 DLG-DI12-ADA 12"  
8187430 DLG-DI-ADA 24"



### Solid Cast Iron

8185967 DLG-SCI 24"



### Stainless Steel Brickslot

8189419 DLG-BK12 12"  
8189003 DLG-BK24 24"  
8189004 DLG-BK 48"

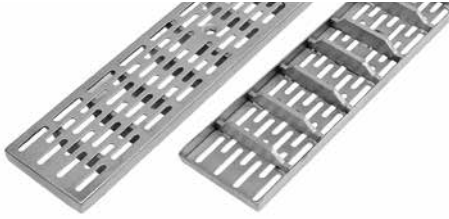
Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



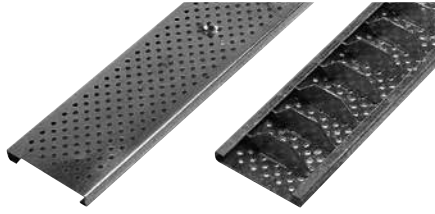
# Dead Level® Trench Drains

## Grating



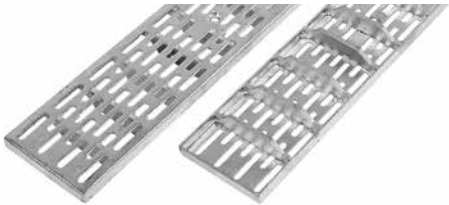
**Reinforced Galvanized  
Steel Slotted**

8187350 DLG-RGS12 12" 8188720 DLG-RGS36 36"  
8187367 DLG-RGS24 24" 8187314 DLG-RGS 48"



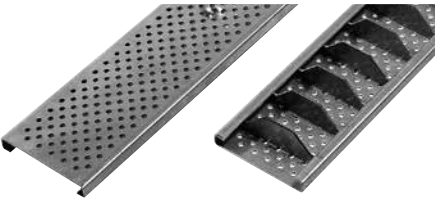
**Reinforced Galvanized  
Steel Perforated**

8187351 DLG-RGP12 12" 8188722 DLG-RGP36 36"  
8187406 DLG-RGP24 24" 8187316 DLG-RGP 48"



**Reinforced Stainless  
Steel Slotted**

8187352 DLG-RSS12 12" 8188721 DLG-RSS36 36"  
8187377 DLG-RSS24 24" 8187315 DLG-RSS 48"



**Reinforced Stainless  
Steel Perforated**

8187353 DLG-RSP12 12" 8188723 DLG-RSP36 36"  
8187382 DLG-RSP24 24" 8187317 DLG-RSP 48"

# Dead Level® Trench Drains

## Load Classifications

### DIN 19580 / EN 1433 Load Classifications

#### Load Class Description



**A** Pedestrian areas, pavements, bicycle lanes, square, yard improvements, individual construction.



**B** Individual construction, private garages, gardens and parks, artificial landscape, private car parks.



**C** Pedestrian areas, waysides, parking areas, garages, car service stations, territory improvements.

#### Load Class Description



**D** Fuel filling stations, car washes, industrial areas, transport terminals, roads and automobile enterprises.



**E** Airports, highways, industrial companies, ports, fuel filling stations, transport terminals and storage terminals.



**F** Airport runways, industrial areas, transport terminals, structures with extreme loads on the road surface.

### Dead Level P - Polypropylene Frame 6"

| Grating<br>Suffix | Grating<br>Desc.                      | Std.<br>Length | DIN<br>Class | ANSI<br>Class | H-20<br>Compliant | ADA<br>Compliant | Heel<br>Proof | Open<br>Area |
|-------------------|---------------------------------------|----------------|--------------|---------------|-------------------|------------------|---------------|--------------|
| BR                | Decorative Bronze                     | 24"            | B            | MD            | N                 | Y                | Y             | 30%          |
| DI                | Ductile Iron                          | 24"            | C*           | HD*           | N                 | N                | N             | 30%          |
| DI-ADA            | Ductile Iron ADA                      | 24"            | C*           | HD*           | N                 | Y                | Y             | 25%          |
| GDI               | Galvanized Ductile Iron               | 24"            | C*           | HD*           | N                 | N                | N             | 30%          |
| PP                | Polypropylene                         | 24"            | C            | MD            | N                 | Y                | Y             | 15%          |
| GP                | Galvanized Perforated                 | 48"            | A            | LD            | N                 | Y                | Y             | 15%          |
| GS                | Galvanized Slotted                    | 48"            | A            | LD            | N                 | Y                | N             | 12%          |
| RGP               | Reinforced Galvanized Perforated      | 48"            | C*           | HD*           | N                 | Y                | Y             | 15%          |
| RGS               | Reinforced Galvanized Slotted         | 48"            | C*           | HD*           | N                 | Y                | Y             | 30%          |
| SP                | Stainless Steel Perforated            | 48"            | A            | LD            | N                 | Y                | Y             | 15%          |
| SS                | Stainless Steel Slotted               | 48"            | A            | LD            | N                 | Y                | Y             | 12%          |
| RSP               | Reinforced Stainless Steel Perforated | 48"            | C*           | HD*           | N                 | Y                | Y             | 15%          |
| RSS               | Reinforced Stainless Steel Slotted    | 48"            | C*           | HD*           | N                 | Y                | Y             | 30%          |
| SCI               | Solid Cast Iron                       | 24"            | C*           | HD*           | N                 | Y                | Y             | 0%           |

\*Load Class E / ANSI Class XHD with Frame Guards

### Dead Level D, S, Z - Ductile Iron Frame 6" Wide

|        |                                       |     |   |     |   |   |   |     |
|--------|---------------------------------------|-----|---|-----|---|---|---|-----|
| BR     | Decorative Bronze                     | 24" | B | MD  | N | Y | Y | 30% |
| DI     | Ductile Iron                          | 24" | F | SD  | Y | N | N | 30% |
| DI-ADA | Ductile Iron ADA                      | 24" | F | SD  | Y | Y | Y | 25% |
| GDI    | Galvanized Ductile Iron               | 24" | F | SD  | Y | N | N | 30% |
| PP     | Polypropylene                         | 24" | C | MD  | N | Y | Y | 15% |
| GP     | Galvanized Perforated                 | 48" | A | LD  | N | Y | Y | 15% |
| GS     | Galvanized Slotted                    | 48" | A | LD  | N | Y | N | 12% |
| RGP    | Reinforced Galvanized Perforated      | 48" | E | XHD | Y | Y | Y | 15% |
| RGS    | Reinforced Galvanized Slotted         | 48" | E | XHD | Y | Y | Y | 30% |
| SP     | Stainless Steel Perforated            | 48" | A | LD  | N | Y | Y | 15% |
| SS     | Stainless Steel Slotted               | 48" | A | LD  | N | Y | Y | 12% |
| RSP    | Reinforced Stainless Steel Perforated | 48" | E | SD  | Y | Y | Y | 15% |
| RSS    | Reinforced Stainless Steel Slotted    | 48" | E | SD  | Y | Y | Y | 30% |
| SCI    | Solid Cast Iron                       | 24" | F | SD  | Y | Y | Y | 0%  |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.





# Dead Level® Trench Drains

## Load Classifications

### DIN 19580 / EN 1433 Load Classifications

#### Load Class Description



**A** Pedestrian areas, pavements, bicycle lanes, square, yard improvements, individual construction.



**B** Individual construction, private garages, gardens and parks, artificial landscape, private car parks.



**C** Pedestrian areas, waysides, parking areas, garages, car service stations, territory improvements.

#### Load Class Description



**D** Fuel filling stations, car washes, industrial areas, transport terminals, roads and automobile enterprises.



**E** Airports, highways, industrial companies, ports, fuel filling stations, transport terminals and storage terminals.



**F** Airport runways, industrial areas, transport terminals, structures with extreme loads on the road surface.

### Dead Level DX - Ductile Iron Frame 12" Wide

| Grating Suffix | Grating Desc.                         | Std. Length | DIN Class | ANSI Class | H-20 Compliant | ADA Compliant | Heel Proof | Open Area |
|----------------|---------------------------------------|-------------|-----------|------------|----------------|---------------|------------|-----------|
| DI             | Ductile Iron                          | 24"         | F         | SD         | Y              | N             | N          | 40%       |
| DI-ADA         | Ductile Iron ADA                      | 24"         | F         | SD         | Y              | Y             | Y          | 30%       |
| GDI            | Galvanized Ductile Iron               | 24"         | F         | SD         | Y              | N             | N          | 40%       |
| RGP            | Reinforced Galvanized Perforated      | 24"         | E         | XHD        | Y              | Y             | Y          | 15%       |
| RGS            | Reinforced Galvanized Slotted         | 24"         | E         | XHD        | Y              | Y             | Y          | 30%       |
| RSP            | Reinforced Stainless Steel Perforated | 24"         | E         | SD         | Y              | Y             | Y          | 15%       |
| RSS            | Reinforced Stainless Steel Slotted    | 24"         | E         | SD         | Y              | Y             | Y          | 30%       |
| SDI            | Solid Ductile Iron                    | 24"         | F         | SD         | Y              | Y             | Y          | 0%        |

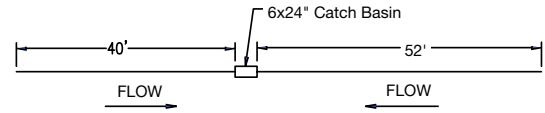
### Catch Basins

| Grating Suffix | Grating Desc.   | Std. Length | DIN Class | ANSI Class | H-20 Compliant | ADA Compliant | Heel Proof | Open Area |
|----------------|---|-------------|-----------|------------|----------------|---------------|------------|-----------|
| 6x24x24        | See Dead Level P or Dead Level D - Same as Trench Drain Grating |             |           |            |                |               |            |           |
| 24x24x24       | Ductile Iron  | 24"         | F         | SD         | Y              | Y             | Y          | 40%       |
| 24x24x24       | Stainless Steel   | 24"         | F         | SD         | Y              | Y             | Y          | 30%       |

# How to Configure & Order Dead Level® Trench System

## 1. Sketch General Layout

For each separate trench configuration show length(s), position of outlet(s), direction of flow(s), and position of catch basins (if required).



## 2. Specify Frame

Ductile Iron  
Polypropylene

## Ordering Code

D or DX  
P

## 3. Specify Length in Feet

(Do not Include Catch Basins)

Numeric

## 4. Specify Outlet

Straight Run End Outlet  
Straight Run Center Outlet  
Other Configuration

EO  
CO  
XO

## 5. Specify Grating

Ductile Iron  
ADA Ductile Iron  
Galvanized Ductile Iron  
Galvanized Steel Slotted  
Galvanized Steel Perforated  
Stainless Steel Slotted  
Stainless Steel Perforated  
Reinforced Galvanized Steel Slotted  
Reinforced Galvanized Steel Perforated  
Reinforced Stainless Steel Slotted  
Reinforced Stainless Steel Perforated  
Polypropylene

DI  
DI-ADA  
GDI  
GS  
GP  
SS  
SP  
RGS  
RGP  
RSS  
RSP  
PP

## 6. Specify Catch Basin

(If Required)

6x24x24" Catch Basin  
24x24x24" Catch Basin

B6  
B24

## 7. Specify Frame Guards

(If Required)

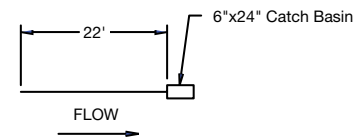
Galvanized Steel  
Stainless Steel

FG  
FS

## 8a. Configure Straight Run (EO or CO)

EX.

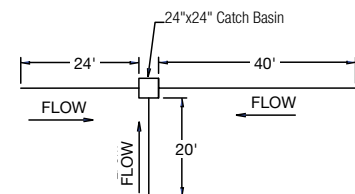
P22-EO-RSS-B6-FS  
P = Polypropylene Frame  
22 = Trench Length in Feet  
EO = End Outlet  
RSS = Reinforced Stainless Steel Slotted Grates  
B6 = 6x24x24" Catch Basin  
FS = Stainless Steel Frame Guard



## 8b. Configure Special Run (XO)

EX.

D84-XO-DI-B24  
D = Ductile Iron Frame  
84 = Trench Length in Feet  
XO = Other Configuration (Provide Sketch or Describe)  
DI = Ductile Iron Grates  
B24 = 24x24x24" Catch Basin



Consult factory for all applications outside of listed parameters.

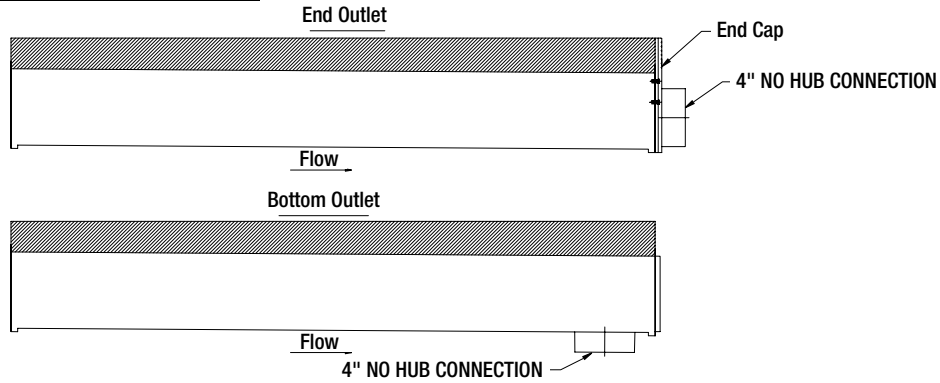
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**WATTS®**

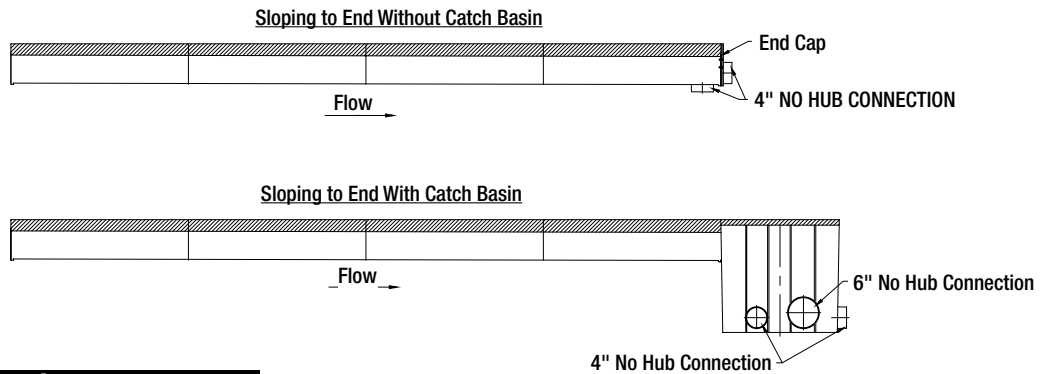
# Dead Level® Trench Drains

## Standard Configurations

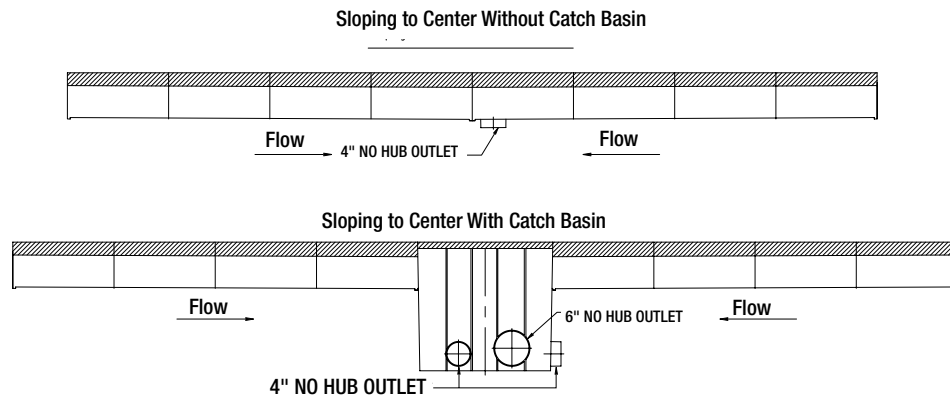
### Outlet Variations



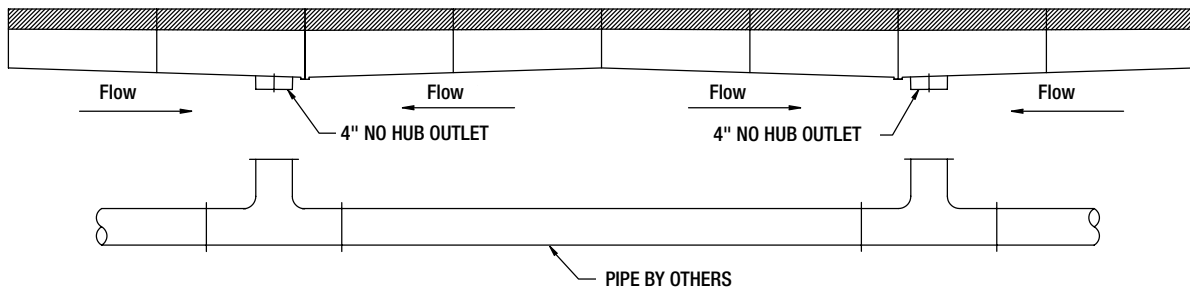
### Sloping to End



### Sloping to Center



### Multiple Outlets

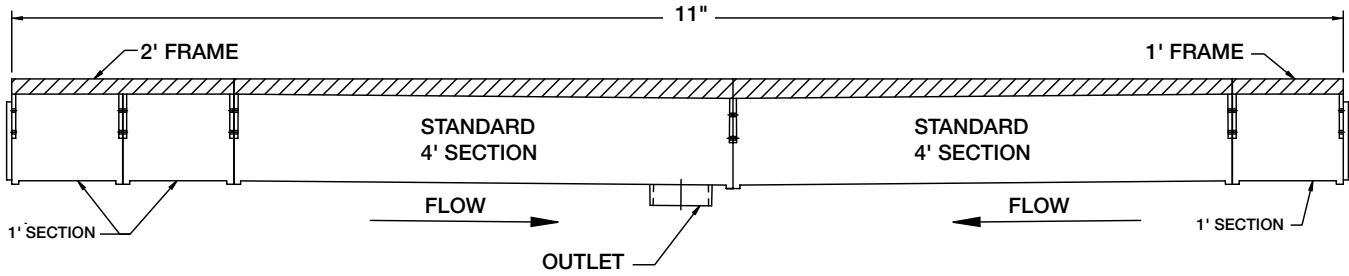


# Dead Level® Trench Drains

## Special Configurations

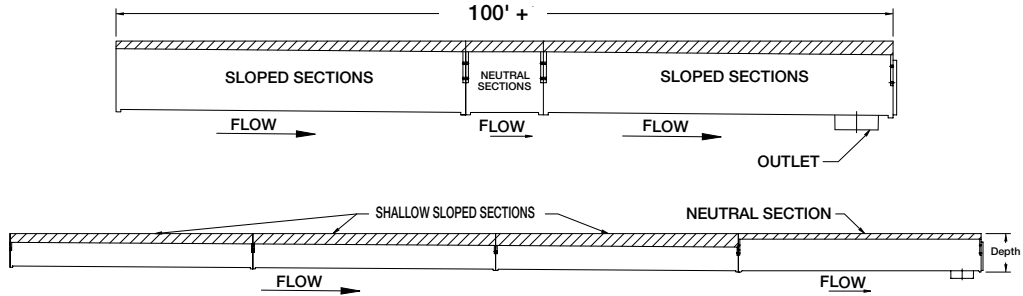
### Use of Short Section

USE OF SHORT SECTIONS



### Use of Neutral Channels

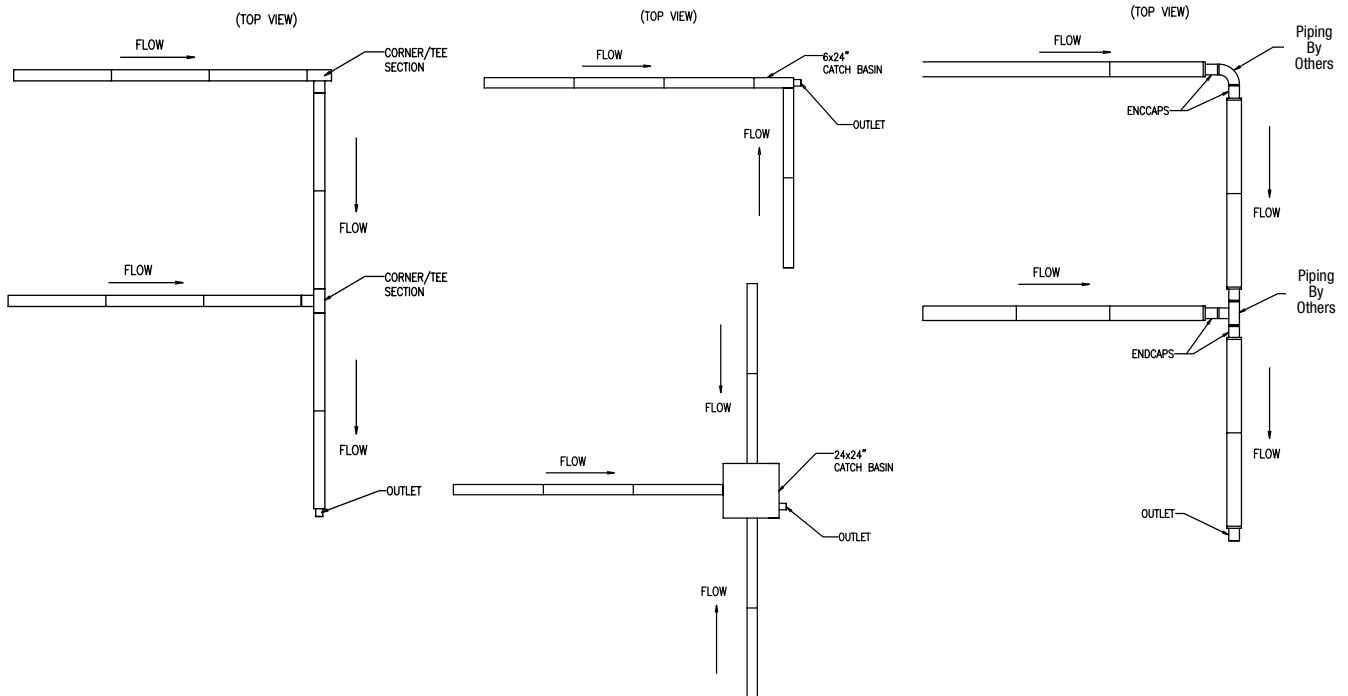
USE OF NEUTRAL CHANNELS  
EXTEND RUN BEYOND 100'



### Use of Corner & Tee Section

### Corner or Tee w/Catch Basin

### Piped Corners and Tees

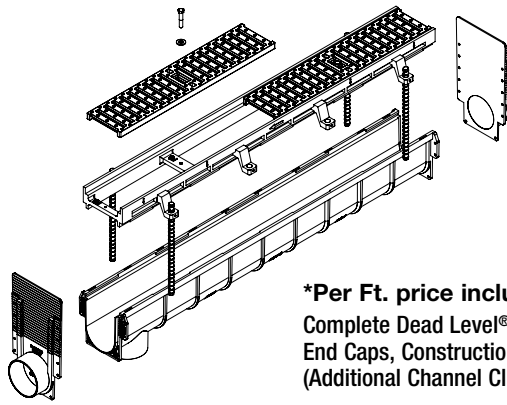


Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



# Dead Level® 6" Wide Pre-Sloped Trench Drain



**\*Per Ft. price includes:**

Complete Dead Level® System with Channels, Frames, Grates, Lockdowns, Frame Connectors, End Caps, Construction Covers, 10 Channel Clips per run and Hardware as Required. (Additional Channel Clips may be ordered. See pricing below)

| System Pricing                                 |                     |
|--|---------------------|
| Dead Level D w/Ductile Iron Frame Grating Type | List Price Per Ft.* |
| BK - Brickslot                                 | \$887.00            |
| BK-AC12 Brickslot Access Cover                 | P.O.A.              |
| BR - Decorative Bronze                         | P.O.A.              |
| DI - Ductile Iron                              | 627.50              |
| DI-ADA - ADA Ductile Iron                      | 689.00              |
| GDI - Galvanized Ductile Iron                  | 780.50              |
| GS - Galvanized Slotted                        | 547.00              |
| GP - Galvanized Perforated                     | 547.00              |
| SS - Stainless Slotted                         | 808.50              |
| SP - Stainless Perforated                      | 808.50              |
| RGS - HD Galvanized Slotted                    | 642.50              |
| RGP - HD Galvanized Perforated                 | 642.50              |
| RSS - HD Stainless Slotted                     | 903.50              |
| RSP - HD Stainless Perforated                  | 903.50              |
| PP - Polypropylene                             | 547.00              |
| SCI - Solid Cast Iron                          | 724.50              |

| System Pricing                                  |                     |
|---|---------------------|
| Dead Level P w/Polypropylene Frame Grating Type | List Price Per Ft.* |
| BK - Brickslot                                  | \$782.00            |
| BK-AC12 Brickslot Access Cover                  | P.O.A.              |
| BR - Decorative Bronze                          | 747.00              |
| DI - Ductile Iron                               | 523.00              |
| DI-ADA - ADA Ductile Iron                       | 565.50              |
| GDI - Galvanized Ductile Iron                   | 657.00              |
| GS - Galvanized Slotted                         | 442.50              |
| GP - Galvanized Perforated                      | 442.50              |
| SS - Stainless Slotted                          | 705.50              |
| SP - Stainless Perforated                       | 705.50              |
| RGS - HD Galvanized Slotted                     | 541.50              |
| RGP - HD Galvanized Perforated                  | 541.50              |
| RSS - HD Stainless Slotted                      | 803.00              |
| RSP - HD Stainless Perforated                   | 803.00              |
| PP - Polypropylene                              | 442.50              |
| SCI - Solid Cast Iron                           | 595.50              |

| Channel Clips Order # | List Price Each |
|-----------------------|-----------------|
| 8189227               | \$8.04          |



| Catch Basins | Description                                      | List Price Per Ft. |
|--------------|--|--------------------|
| CB-624D      | 6x24x24 Catch Basin w/DI Frame, Less Grate       | \$1,279.00         |
| CB-624P      | 6x24x24 Catch Basin w/PP Frame, Less Grate       | 1,042.00           |
| CB-624D-T    | 6x24x24 Catch Basin w/DI Frame, Trash Basket     | 1,563.00           |
| CB-624P-T    | 6x24x24 Catch Basin w/PP Frame, Trash Basket     | 1,326.00           |
| CB-2424      | 24x24x24 Catch Basin w/DI Grate                  | 6,173.00           |
| CB-2424T     | 24x24x24 Catch Basin w/DI Grate, Trash Basket    | 6,839.00           |
| CB-2424-RGS  | 24x24x24 Catch Basin w/Galv. Grate               | 6,760.00           |
| CB-2424T-RGS | 24x24x24 Catch Basin w/Galv. Grate, Trash Basket | 7,427.00           |
| CB-2424-SS   | 24x24x24 Catch Basin w/SS Grate                  | 7,718.00           |
| CB-2424T-SS  | 24x24x24 Catch Basin w/SS Grate, Trash Basket    | 8,364.00           |



| Frame Guards | Description       | List Price Per Ft. |
|--------------|-------------------|--------------------|
| FG-BR        | Decorative Bronze | \$355.00           |
| FG-GV        | Galvanized Steel  | 93.50              |
| FG-SS        | Stainless Steel   | 287.50             |



**WATTS®** Consult factory for all applications outside of listed parameters. Prices do not include applicable taxes.

# Dead Level® DX 12" Wide Pre-Sloped Trench Drain



**\*Per Ft. price includes:**

Complete Dead Level® System with Channels, Frames, Grates, Lockdowns, Frame Connectors, End Caps, Construction Covers, and Hardware as Required.

| System Pricing                                  |                     |
|---|---------------------|
| Dead Level DX w/Ductile Iron Frame Grating Type | List Price Per Ft.* |
| DI - Ductile Iron                               | \$1,270.00          |
| DI-ADA - ADA Ductile Iron                       | 1,426.00            |
| GDI - Galvanized Ductile Iron                   | 1,313.00            |
| RGP - HD Galvanized Perforated                  | 1,607.00            |
| RGS - HD Galvanized Slotted                     | 1,607.00            |
| RSP - HD Stainless Perforated                   | 2,220.00            |
| RSS - HD Stainless Slotted                      | 2,220.00            |
| SCI - Solid Cast Iron                           | 1,270.00            |



| Catch Basins | Description   | List Price Per Ft. |
|--------------|---|--------------------|
| CB-2424      | 24x24x24 Catch Basin w/DI Grate                       | \$6,173.00         |
| CB-2424D-12  | 24x24x12 Catch Basin w/Galvanized Grate & Frame       | 7,502.00           |
| CB-2424T     | 24x24x24 Catch Basin w/DI Grate, Trash Basket         | 6,839.00           |
| CB-2424-RGS  | 24x24x24 Catch Basin w/Galvanized Grate               | 6,760.00           |
| CB-2424T-RGS | 24x24x24 Catch Basin w/Galvanized Grate, Trash Basket | 7,427.00           |
| CB-2424-SS   | 24x24x24 Catch Basin w/SS Grate                       | 7,718.00           |
| CB-2424T-SS  | 24x24x24 Catch Basin w/SS Grate, Trash Basket         | 8,364.00           |



| Frame Guards | Description      | List Price Per Ft. |
|--------------|------------------|--------------------|
| -FGX-GV      | Galvanized Steel | \$93.50            |
| -FGX-SS      | Stainless Steel  | 287.50             |

| Corners/Tees | List Price Per Ft. |
|--------------|--------------------|
| Corner/Tee   | \$780.50           |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



# Dead Level® Deck Channels

## Dead Level® S 6" Wide Deck Channel For Cast in Place

| System Pricing                            |                     |
|---|---------------------|
| Grating Type                              | List Price Per Ft.* |
| BK - Brickslot                            | P.O.A.              |
| BK-AC12 Brickslot Access Cover            | P.O.A.              |
| BR - Decorative Bronze                    | \$855.00            |
| DI - Ductile Iron                         | 627.50              |
| DI-ADA Ductile Iron ADA                   | 689.00              |
| GDI Galvanized Ductile Iron               | 780.50              |
| GP Galvanized Perforated                  | 550.00              |
| GS Galvanized Slotted                     | 550.00              |
| SP Stainless Steel Perforated             | 808.50              |
| SS Stainless Steel Slotted                | 808.50              |
| RGP Reinforced Galvanized Perforated      | 642.50              |
| RGS Reinforced Galvanized Slotted         | 642.50              |
| RSP Reinforced Stainless Steel Perforated | 903.50              |
| RSS Reinforced Stainless Steel Slotted    | 903.50              |
| PP Polypropylene                          | 547.00              |
| SCI Solid Cast Iron                       | 724.50              |



\*Per Ft. price includes:  
Complete Dead Level® System with Channels, Frames,  
Grates, Lockdowns, Frame Connectors, End Caps, Construction  
Covers, and Hardware as Required.

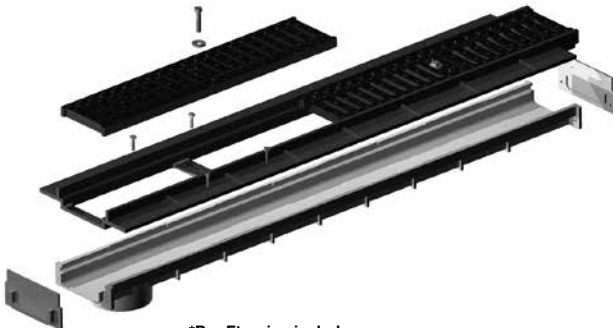
| Frame Guards | Description       | List Price Per Ft. |
|--------------|-------------------|--------------------|
| FG-BR        | Decorative Bronze | \$355.00           |
| FG-GV        | Galvanized Steel  | 93.50              |
| FG-SS        | Stainless Steel   | 287.50             |

## Dead Level® Z 6" Wide Flanged Deck Channel For Precast

| System Pricing               |                     |
|------------------------------|---------------------|
| Grating Type                 | List Price Per Ft.* |
| DI - Ductile Iron            | \$523.00            |
| DI-ADA Ductile Iron ADA      | 689.00              |
| GDI Galvanized Ductile Iron  | 780.50              |
| RGP HD Galvanized Perforated | 541.50              |
| RGS HD Galvanized Slotted    | 541.50              |
| RSP HD Stainless Perforated  | 803.00              |
| RSS HD Stainless Slotted     | 803.00              |

| Frame Guards | Description       | List Price Per Ft. |
|--------------|-------------------|--------------------|
| FG-BR        | Decorative Bronze | \$355.00           |
| FG-GV        | Galvanized Steel  | 93.50              |
| FG-SS        | Stainless Steel   | 287.50             |



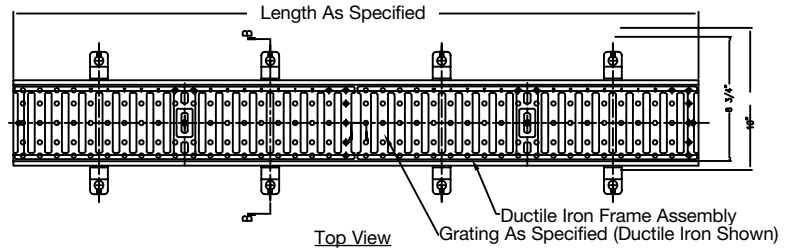
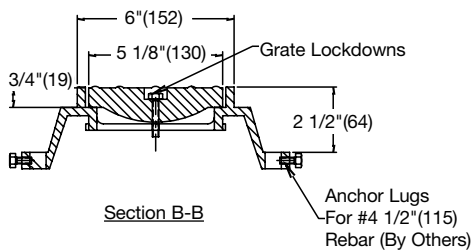
\*Per Ft. price includes:  
Complete Dead Level® System with Channels, Frames,  
Grates, Lockdowns, Frame Connectors, End Caps, Construction  
Covers, and Hardware as Required.

# Dead Level® 6" Wide Grate & Frame

**DL-GF**

**6" Wide Ductile Iron Trench Frame & Grating**

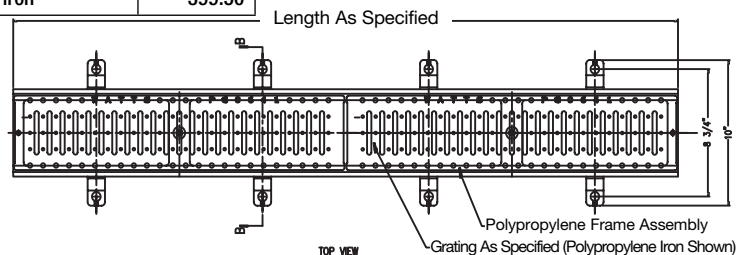
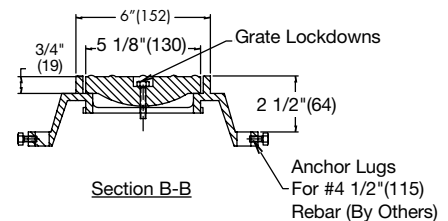
| Model Number | Weight (lbs.) | Frame        | Grating                               | List Price Per Ft. |
|--------------|---------------|--------------|---------------------------------------|--------------------|
| DL-GF-BR     | 14 lbs./ft.   | ductile iron | decorative bronze                     | \$674.00           |
| DL-GF-DI     | 16 lbs./ft.   | ductile iron | ductile iron                          | 446.50             |
| DL-GF-DI-ADA | 16 lbs./ft.   | ductile iron | ductile iron ADA                      | 508.00             |
| DL-GF-GDI    | 16 lbs./ft.   | ductile iron | galvanized ductile iron               | 599.50             |
| DL-GF-GP     | 11 lbs./ft.   | ductile iron | galvanized perforated                 | 366.00             |
| DL-GF-GS     | 11 lbs./ft.   | ductile iron | galvanized slotted                    | 366.00             |
| DL-GF-RGP    | 12 lbs./ft.   | ductile iron | reinforced galvanized perforated      | 461.00             |
| DL-GF-RGS    | 12 lbs./ft.   | ductile iron | reinforced galvanized slotted         | 461.00             |
| DL-GF-SP     | 11 lbs./ft.   | ductile iron | stainless steel perforated            | 627.50             |
| DL-GF-SS     | 11 lbs./ft.   | ductile iron | stainless steel slotted               | 627.50             |
| DL-GF-RSP    | 12 lbs./ft.   | ductile iron | reinforced stainless steel perforated | 722.50             |
| DL-GF-RSS    | 12 lbs./ft.   | ductile iron | reinforced stainless steel slotted    | 722.50             |
| DL-GF-SCI    | 17 lbs./ft.   | ductile iron | solid cast iron                       | 538.00             |



**DLP-GF**

**6" Wide Polypropylene Trench Frame & Grating**

| Model Number  | Weight (lbs.) | Frame         | Grating                               | List Price Per Ft. |
|---------------|---------------|---------------|---------------------------------------|--------------------|
| DLP-GF-BR     | 6 lbs./ft.    | polypropylene | decorative bronze                     | \$565.50           |
| DLP-GF-DI     | 8 lbs./ft.    | polypropylene | ductile iron                          | 342.00             |
| DLP-GF-DI-ADA | 8 lbs./ft.    | polypropylene | ductile iron ADA                      | 384.50             |
| DLP-GF-GDI    | 8 lbs./ft.    | polypropylene | galvanized ductile iron               | 476.00             |
| DLP-GF-GP     | 3 lbs./ft.    | polypropylene | galvanized perforated                 | 261.50             |
| DLP-GF-GS     | 3 lbs./ft.    | polypropylene | galvanized slotted                    | 261.50             |
| DLP-GF-PP     | 3 lbs./ft.    | polypropylene | polypropylene                         | 261.50             |
| DLP-GF-RGP    | 4 lbs./ft.    | polypropylene | reinforced galvanized perforated      | 360.50             |
| DLP-GF-RGS    | 4 lbs./ft.    | polypropylene | reinforced galvanized slotted         | 360.50             |
| DLP-GF-SP     | 3 lbs./ft.    | polypropylene | stainless steel perforated            | 524.50             |
| DLP-GF-SS     | 3 lbs./ft.    | polypropylene | stainless steel slotted               | 524.50             |
| DLP-GF-RSP    | 4 lbs./ft.    | polypropylene | reinforced stainless steel perforated | 621.50             |
| DLP-GF-RSS    | 4 lbs./ft.    | polypropylene | reinforced stainless steel slotted    | 621.50             |
| DLP-GF-SCI    | 9 lbs./ft.    | polypropylene | solid cast iron                       | 399.50             |



| Frame Guards | Description       | List Price Per Ft. |
|--------------|-------------------|--------------------|
| FG-BR        | Decorative Bronze | \$355.00           |
| FG-GV        | Galvanized Steel  | 93.50              |
| FG-SS        | Stainless Steel   | 287.50             |

Consult factory for all applications outside of listed parameters.

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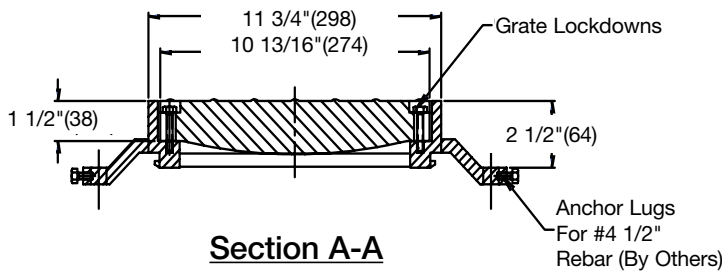


# Dead Level® 12" Wide Grate & Frame

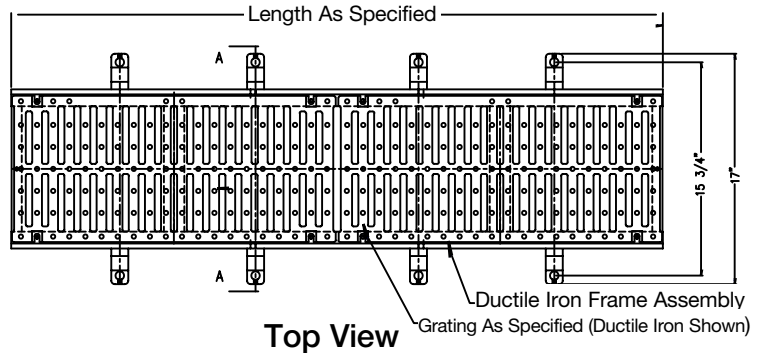
**DX-GF**

**12" Wide Ductile Iron Trench Frame & Grating**

| Model Number | Weight (lbs.) | Frame        | Grating                               | List Price Per Ft. |
|--------------|---------------|--------------|---------------------------------------|--------------------|
| DX-GF-DI     | 32 lbs./ft.   | ductile iron | ductile iron                          | \$799.00           |
| DX-GF-DI-ADA | 32 lbs./ft.   | ductile iron | ductile iron ADA                      | 898.00             |
| DX-GF-GDI    | 32 lbs./ft.   | ductile iron | galvanized ductile iron               | 827.00             |
| DX-GF-RGP    | 22 lbs./ft.   | ductile iron | reinforced galvanized perforated      | 1,012.00           |
| DX-GF-RGS    | 22 lbs./ft.   | ductile iron | reinforced galvanized slotted         | 1,012.00           |
| DX-GF-RSP    | 22 lbs./ft.   | ductile iron | reinforced stainless steel perforated | 1,397.00           |
| DX-GF-RSS    | 22 lbs./ft.   | ductile iron | reinforced stainless steel slotted    | 1,397.00           |
| DX-GF-SCI    | 33 lbs./ft.   | ductile iron | solid ductile iron                    | 883.00             |



| Frame Guards | Description     | List Price Per Ft. |
|--------------|-----------------|--------------------|
| FG-GV        | Galvanized      | \$93.50            |
| FG-SS        | Stainless Steel | 287.50             |

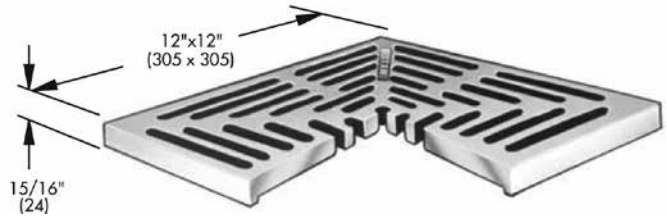


Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Trench Drains

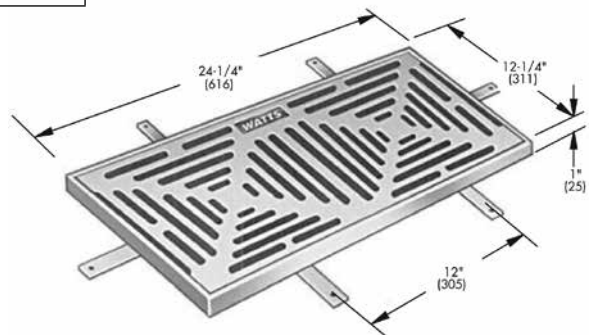
## FD-460-AF-PG Medium Duty Sectional 12" Wide Trench Drain Grate Only

| Model Number     | Nominal Size | Frame | Grating                    | List Price Per Ft. |
|------------------|--------------|-------|----------------------------|--------------------|
| FD-460-AF-PG-4-9 | 12" x 12"    | None  | Ductile Iron               | \$510.50           |
| FD-460-AF-PG-1   | 12" x 12"    | None  | Ductile Iron w/NB Veneer   | 1,304.00           |
| FD-460-AF-PG-3-9 | 12" x 12"    | None  | Ductile w/Stainless Veneer | 1,192.00           |



## TD-900-B Medium Duty Sectional Trench Drain Grate & Frame

| Model Number | Nominal Size | Frame           | Grating                    | List Price Per Ft. |
|--------------|--------------|-----------------|----------------------------|--------------------|
| TD-900-B-4   | 12" x 24"    | Steel           | Ductile Iron               | P.O.A.             |
| TD-900-B-4-1 | 12" x 24"    | Nickel Bronze   | Ductile Iron w/NB Veneer   | P.O.A.             |
| TD-900-B-4-3 | 12" x 24"    | Stainless Steel | Ductile/w/Stainless Veneer | P.O.A.             |
| TD-900-B-28  | 12" x 24"    | Stainless Steel | Solid Stainless Grate      | P.O.A.             |



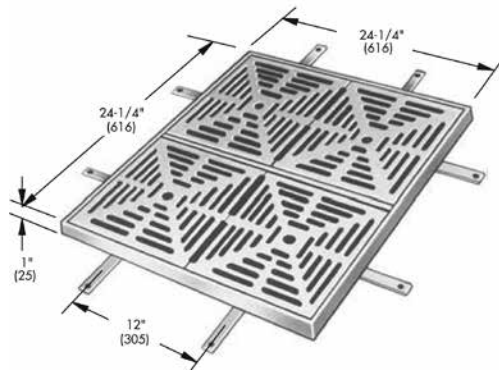
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# Trench Drains

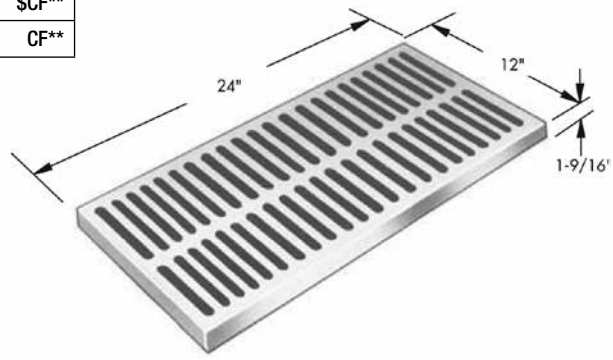
## TD-900-C Light Duty Sectional 24" Wide Trench Drain Grate & Frame

| Model Number  | Nominal Size | Frame           | Grating                    | List Price Per Ft. |
|---------------|--------------|-----------------|----------------------------|--------------------|
| TD-900-C2-4   | 24" x 24"    | Steel           | Ductile Iron               | P.O.A.             |
| TD-900-C2-4-1 | 24" x 24"    | Nickel Bronze   | Ductile Iron w/NB Veneer   | P.O.A.             |
| TD-900-C2-4-3 | 24" x 24"    | Stainless Steel | Ductile/w/Stainless Veneer | P.O.A.             |
| TD-900--28    | 24" x 24"    | Stainless Steel | Solid Stainless Grate      | P.O.A.             |



## TD-910 Heavy Duty Sectional 12" Wide Trench Drain Grate

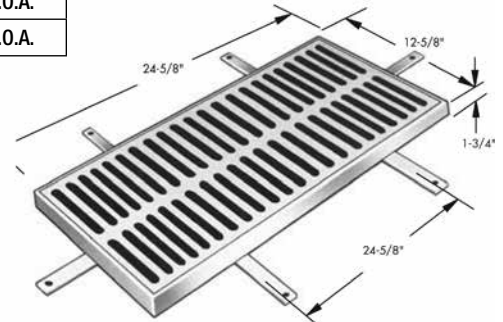
| Model Number | Nominal Size | Frame | Grating                    | List Price Per Ft. |
|--------------|--------------|-------|----------------------------|--------------------|
| TD-910-4     | 12" x 24"    | None  | Ductile                    | \$CF**             |
| TD-910-4-3   | 12" x 24"    | None  | Ductile w/Stainless Veneer | CF**               |



# Trench Drains

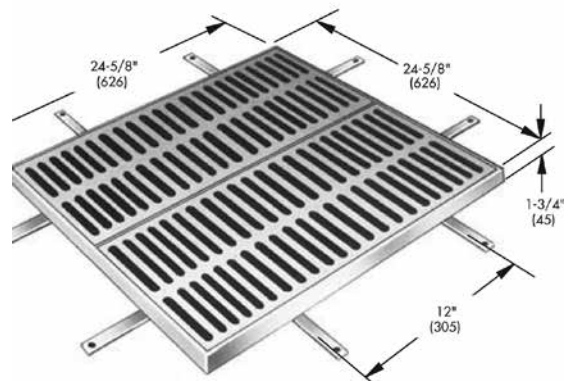
## TD-910-B Heavy Duty Sectional 12" Wide Trench Drain Grate & Frame

| Model Number | Nominal Size | Frame           | Grating                    | List Price Per Ft. | Add per 12" |
|--------------|--------------|-----------------|----------------------------|--------------------|-------------|
| TD-910-B-4   | 12" x 24"    | Steel           | Ductile Iron               | P.O.A.             | P.O.A.      |
| TD-910-B-4-3 | 12" x 24"    | Stainless Steel | Ductile w/Stainless Veneer | P.O.A.             | P.O.A.      |



## TD-910-C Heavy Duty Sectional 24" Wide Trench Drain Grate & Frame

| Model Number  | Nominal Size | Frame           | Grating                    | List Price Per Ft. | Add per 12" |
|---------------|--------------|-----------------|----------------------------|--------------------|-------------|
| TD-910-C2-4   | 24" x 24"    | Steel           | Ductile Iron               | P.O.A.             | P.O.A.      |
| TD-910-C2-4-3 | 24" x 24"    | Stainless Steel | Ductile w/Stainless Veneer | P.O.A.             | P.O.A.      |



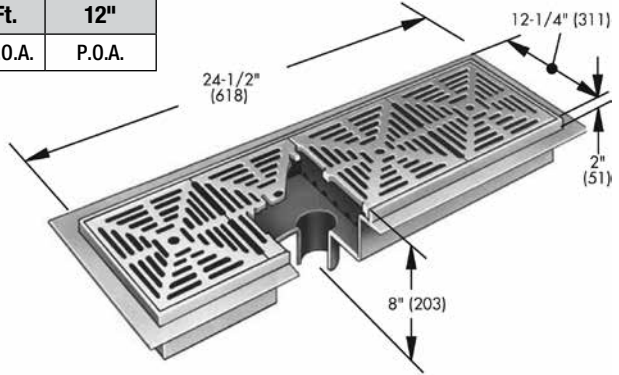
Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.



# Trench Drains

## TD-920 Sectional Trench Drain 12" Wide

| Model Number     | Nominal Size | Frame             | Grating      | List Price Per Ft. | Add per 12" |
|------------------|--------------|-------------------|--------------|--------------------|-------------|
| TD-922,3,4,5,6-4 | 12" x 24"    | Cold Rolled Steel | Ductile Iron | P.O.A.             | P.O.A.      |

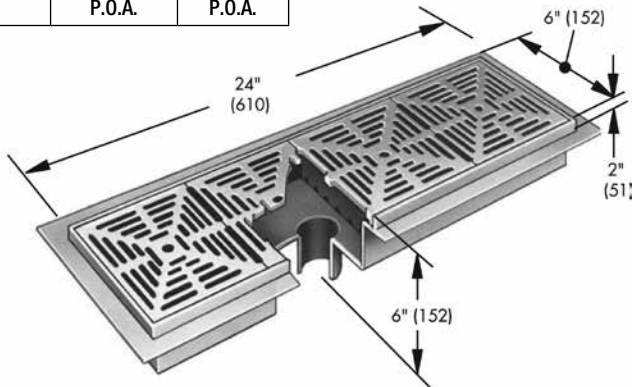


### Options for TD-920 Series:

| Suffix | Description                            | List Price |
|--------|--|------------|
| -5     | Sediment Bucket                        | P.O.A.     |
| -6     | Vandal Proof per 12"                   | P.O.A.     |
| -8     | Backwater Valve (per outlet)           | P.O.A.     |
| -20    | Secondary Dome Strainer                | P.O.A.     |
| -21    | Solids Retaining Baffle (2 per outlet) | P.O.A.     |
| -38    | Anchor Flange                          | P.O.A.     |
| -P     | Push-On Connection                     | P.O.A.     |
| -S     | Side or End Outlet                     | P.O.A.     |

## TD-940 Sectional Trench Drain 6" Wide

| Model Number        | Nominal Size | Frame             | Grating                    | List Price/ Per Ft. | Add per 12" |
|---------------------|--------------|-------------------|----------------------------|---------------------|-------------|
| TD-942,3,4,5,6-3-28 | 6" x 24"     | Stainless Steel   | Ductile w/Stainless Veneer | P.O.A.              | P.O.A.      |
| TD-942,3,4,5,6-4    | 6" x 24"     | Cold Rolled Steel | Ductile Iron               | P.O.A.              | P.O.A.      |



### Options for TD-920 Series:

| Suffix | Description                            | List Price |
|--------|--|------------|
| -5     | Sediment Bucket                        | P.O.A.     |
| -6     | Vandal Proof per 12"                   | P.O.A.     |
| -8     | Backwater Valve (per outlet)           | P.O.A.     |
| -20    | Secondary Dome Strainer                | P.O.A.     |
| -21    | Solids Retaining Baffle (2 per outlet) | P.O.A.     |
| -38    | Anchor Flange                          | P.O.A.     |
| -P     | Push-On Connection                     | P.O.A.     |
| -S     | Side or End Outlet                     | P.O.A.     |

# Green Roof Drains

## Table Of Contents

- Pictorial Index
- Recommendations
- Green Roof Drainage
  - Placement & Sizing
  - Materials
  - Pipe Connections
  - Commonly Specified Options
  - Typical Installations



# Green Roof Drains

## Pictorial Index



**GRD-610**  
Green Roof Large  
Planter Drain



**GRD-610-W**  
Green Roof Large  
Planter Overflow Drain



**GRD-620**  
Green Roof Plaza Area  
Drain



**GRD-630**  
Green Roof Intensive  
Area Drain



**GRD-640**  
Green Roof Metered  
Overflow Drain



**GRD-650**  
Green Roof Multi-Level  
Planter Drain



**GRD-670**  
Green Roof Drain  
w/Auxiliary Inlet



**GRD-680**  
Green Roof Planter Drain  
with Traffic Grate



**GRD-690**  
Green Roof Shallow  
Planter Drain



**GRD-730**  
Green Roof Large Multi-  
Level Planter Drain

# Green Roof Drains

## Recommendations

### Application

|                             |                    |
|-----------------------------|--------------------|
| Extensive Area Primary..... | GRD-650, GRD-610   |
| Intensive Area Primary..... | GRD-630            |
| Maintenance Walkway.....    | GRD-680            |
| Multi-Level.....            | GRD-650, GRD-730   |
| Overflow.....               | GRD-610-W, GRD-640 |
| Planting Area Primary.....  | GRD-610, GRD-670   |
| Plaza Area.....             | GRD-620            |

### Product

## Green Roof Drainage

Drainage is a critical aspect of green roof design and construction. Excessive accumulation of water in planting mediums can add considerable weight to a roof structure, creating a potentially hazardous condition.

*Extensive* green roof systems are comprised of grasses and vegetation requiring minimum or no maintenance. These systems typically have a soil depth of approx. 6", and an overall build-up of 12" or less above the structural roof.

*Intensive* green roof systems generally have a much deeper soil depth, and can incorporate bushes, trees, shrubs, and other decorative plants. Extensive green roof systems are designed to be regularly visited and maintained. Properly designed drainage is critical to ensure efficient water removal, and keep vegetation from interfering with drains.

### Placement & Sizing

Refer to standard Roof Drain Placement & Sizing on p.100.

### Materials

#### Cast iron epoxy coated\*

Industrial grade cast iron, finished with Watts gray acid resistant epoxy coating.

*Note: \* Watts Drainage standard epoxy coating is designed for interim protection of iron components during processing, shipping, and construction. It is not intended to protect surfaces subject to traffic, or environmental conditions. Exposed iron surfaces should be expected to show surface oxidation (rusting) after a short period of time.*

#### Domes

Standard non-rusting aluminum, covered with type 304 stainless steel mesh.

#### Perforated ABS

Standard 4" sch. 40 pipe size with 1/2" dia. perforations.

#### Perforated stainless steel

20 gauge, 3/8" dia. perforations, in accordance with ASTM-351-Grade CF8 (Type 304) standard specification.

### Pipe Connections

#### No hub (standard)

Butt connection using a no hub or neoprene coupling. Suitable for cast iron, plastic, and most other piping applications.

#### Push-on (-P)

ASTM C-564 gasket connection, with pipe stop. Suitable for no hub service weight cast iron, sch. 40 plastic, and steel pipe. Not recommended for above grade.

#### Inside caulk (-X)

Used for lead and oakum joints, pipe is inserted through a caulk ring on the drain outlet.

#### PVC (-60) or ABS (-61) socket

For direct solvent weld connection to sch. 40 plastic pipe.

#### Threaded (-THD)

Female threaded outlet for connection to IPS threaded pipe.



# Green Roof Drains

## Green Roof Drainage

### Commonly Specified Options

#### -12 Galvanized body and flashing clamp

Standard zinc galvanizing, typically specified in coastal environments.

#### -B Sump Receiver

Receives roof drain flange for installation flush with the roof deck, eliminating stress on the roofing membrane, and potential puddling around the drain.

#### -D Underdeck Clamp

Install on the underside of the roof deck, securely fastens the roof drain to the deck.

#### -F Deck Flange / Adjustable Extension

10 ga. zinc plated steel flange creates a structurally sound mounting surface over the roof penetration, and enables the drain to be elevated to the insulation height. *Note: a separate sump receiver is not required when a drain is specified with -F Deck Flange / Adjustable Extension.*

#### -L Vandal Proof Dome

Dome secured with Allen head bolts.

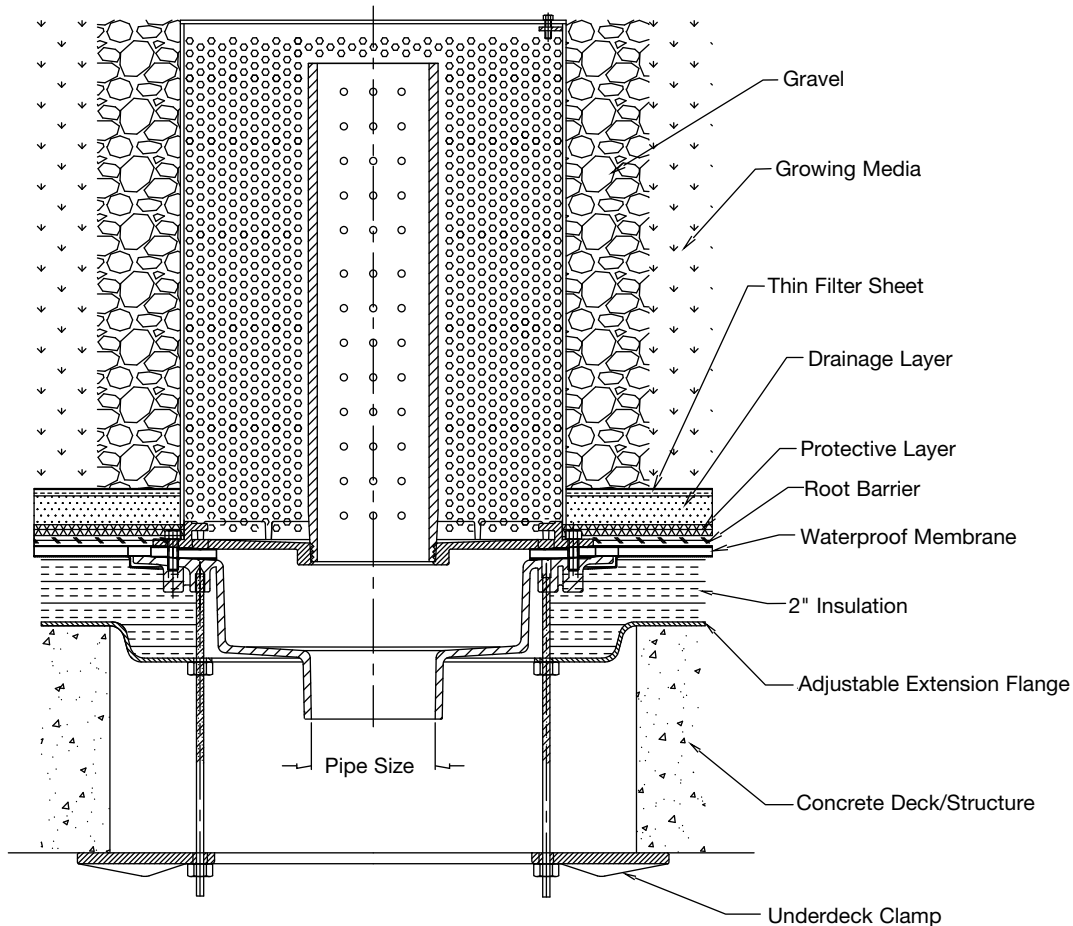
#### -US Buy American Compliant

Product will be supplied with minimum 51% domestic content, in compliance with FAR 52.225-9 Buy American Act.

### Typical Installations

#### GRD-630

#### INTENSIVE AREA



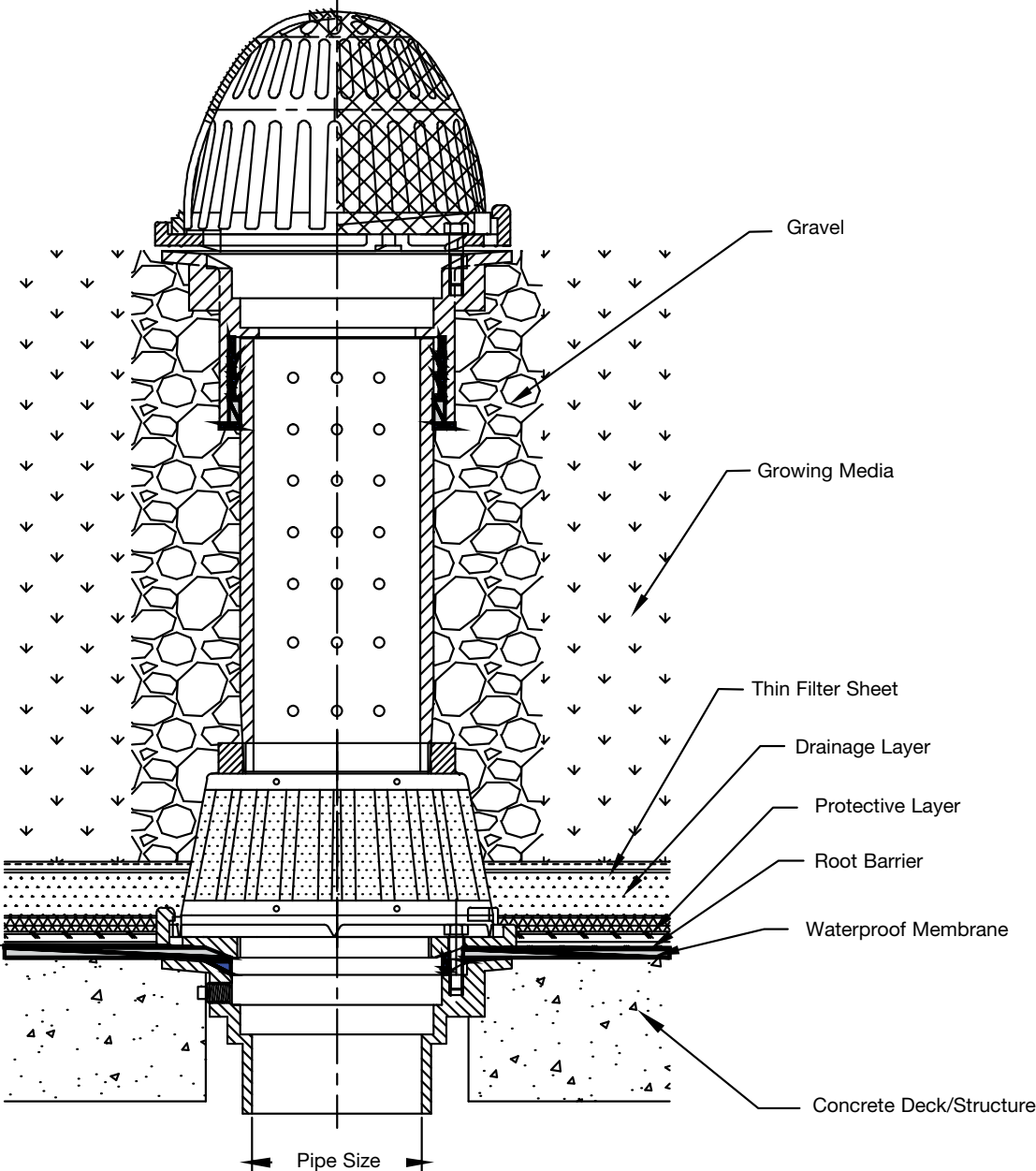
Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Green Roof Drains

## Typical Installations

### GRD-650

MULTI-LEVEL PLANTING AREA



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

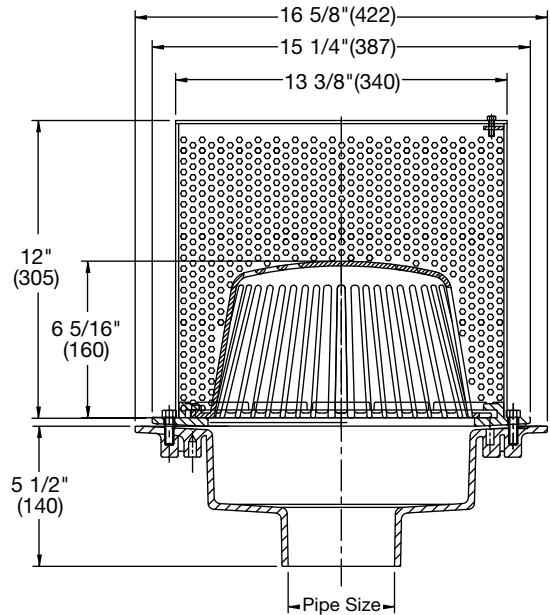


# Green Roof Drains

## GRD-610

## Green Roof Large Planter Drain

| Model Number                | Outlet Size           | WT., lbs. | List Price |
|-----------------------------|-----------------------|-----------|------------|
| GRD-612, 3, 4, 5, 6, 8, 10" | 2, 3, 4, 5, 6, 8, 10" | 32        | \$CF**     |



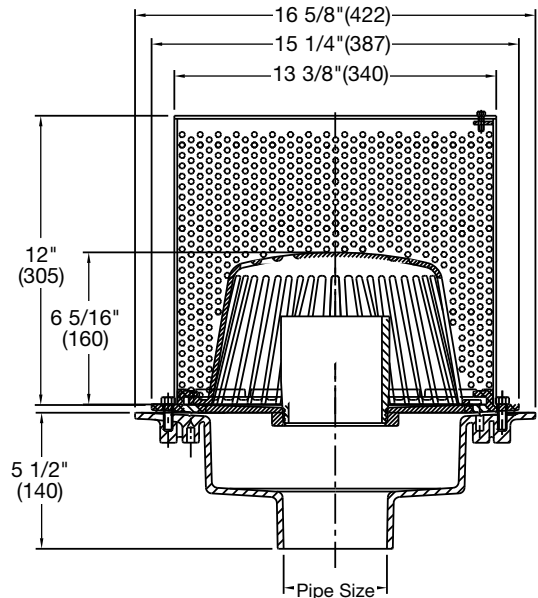
### Options for GRD-610 Series:

| Suffix | Description                  | List Price |
|--------|------------------------------|------------|
| -12    | Galvanized Body              | \$177.00   |
| -B     | Vandal Proof per 12"         | 297.00     |
| -D     | Backwater Valve (per outlet) | 262.50     |
| -F     | Secondary Dome Strainer      | 401.00     |
| -P     | Push On                      | 49.25      |

## GRD-610-W

## Green Roof Large Planter Overflow Drain

| Model Number                 | Outlet Size           | WT., lbs. | List Price |
|------------------------------|-----------------------|-----------|------------|
| GRD-612, 3, 4, 5, 6, 8, 10-W | 2, 3, 4, 5, 6, 8, 10" | 37        | \$2,351.21 |



### Options for GRD-610-W Series:

| Suffix | Description                  | List Price |
|--------|------------------------------|------------|
| -12    | Galvanized Body              | \$177.00   |
| -B     | Vandal Proof per 12"         | 297.00     |
| -D     | Backwater Valve (per outlet) | 262.50     |
| -F     | Secondary Dome Strainer      | 401.00     |
| -W2    | 2" Internal Standpipe        | No Add     |



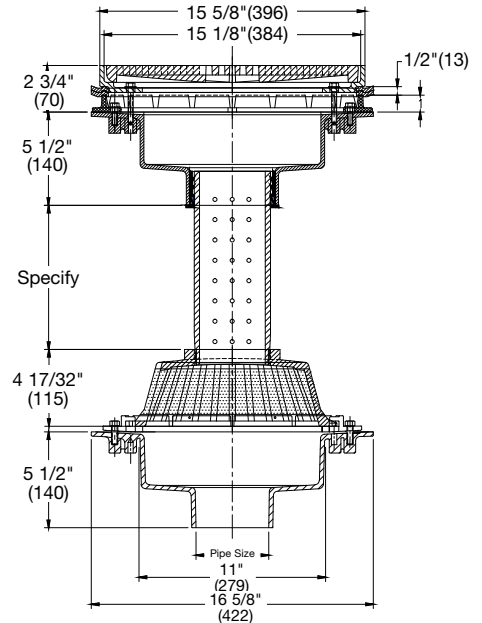
Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Green Roof Drains

## GRD-620

## Green Roof Plaza Area Drain

| Model Number               | Outlet Size           | Grate         | WT., lbs. | List Price  |
|----------------------------|-----------------------|---------------|-----------|-------------|
| GRD-622, 3, 4, 5, 6, 8, 10 | 2, 3, 4, 5, 6, 8, 10" | nickel bronze | 130       | \$10,089.22 |



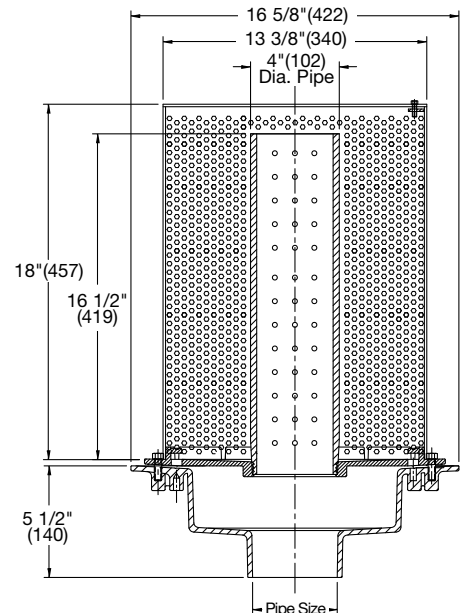
### Options for GRD-620 Series:

| Suffix | Description     | List Price | Suffix | Description                | List Price |
|--------|-----------------|------------|--------|----------------------------|------------|
| -5     | Sediment Bucket | \$281.00   | -B     | Sump Receiver              | \$297.00   |
| -6     | Vandal Proof    | 160.50     | -D     | Underdeck Clamp            | 262.50     |
| -12    | Galvanized Body | 177.00     | -F     | Deck Flange/Adj. Extension | 402.00     |

## GRD-630

## Green Roof Intensive Area Drain

| Model Number               | Outlet Size           | WT., lbs. | List Price |
|----------------------------|-----------------------|-----------|------------|
| GRD-632, 3, 4, 5, 6, 8, 10 | 2, 3, 4, 5, 6, 8, 10" | 34        | \$3,505.97 |



### Options for GRD-630 Series:

| Suffix | Description                | List Price |
|--------|----------------------------|------------|
| -12    | Galvanized Body            | \$297.00   |
| -B     | Sump Receiver              | 262.50     |
| -D     | Underdeck Clamp            | 402.00     |
| -F     | Deck Flange/Adj. Extension | 389.50     |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

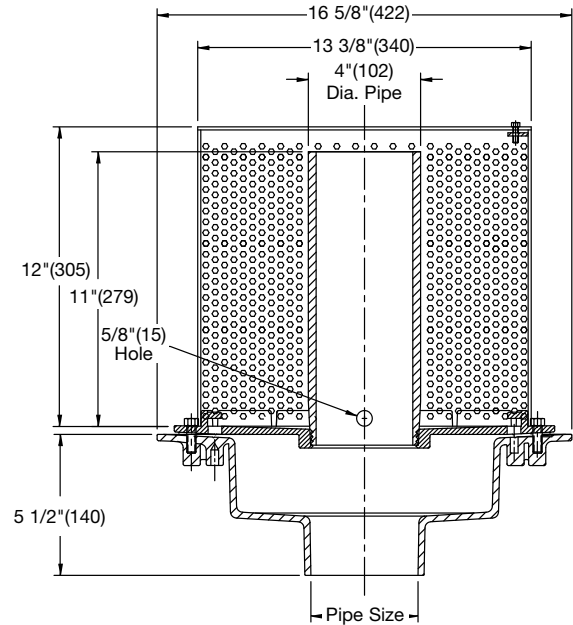


# Green Roof Drains

## GRD-640

## Green Roof Metered Overflow Drain

| Model Number               | Outlet Size           | WT., lbs. | List Price |
|----------------------------|-----------------------|-----------|------------|
| GRD-642, 3, 4, 5, 6, 8, 10 | 2, 3, 4, 5, 6, 8, 10" | 37        | \$2,403.29 |



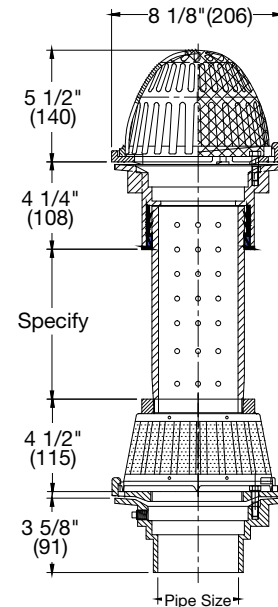
### Options for GRD-640 Series:

| Suffix | Description                | List Price |
|--------|----------------------------|------------|
| -12    | Galvanized Body            | \$177.00   |
| -B     | Sump Receiver              | 297.00     |
| -D     | Underdeck Clamp            | 262.50     |
| -F     | Deck Flange/Adj. Extension | 402.00     |

## GRD-650

## Green Roof Multi-Level Planter Drain

| Model Number   | Outlet Size | WT., lbs. | List Price |
|----------------|-------------|-----------|------------|
| GRD-652, 3, 4, | 2, 3, 4,"   | 29        | \$2,706.94 |



### Options for GRD-620 Series:

| Suffix | Description     | List Price | Suffix | Description                | List Price |
|--------|-----------------|------------|--------|----------------------------|------------|
| -5     | Sediment Bucket | \$155.00   | -D     | Underdeck Clamp            | \$262.50   |
| -6     | Vandal Proof    | 157.00     | -F     | Deck Flange/Adj. Extension | 401.00     |
| -12    | Galvanized Body | 177.00     | -P     | Push On                    | 49.25      |
| -B     | Sump Receiver   | 281.00     | -SO    | Side Outlet                | 273.50     |



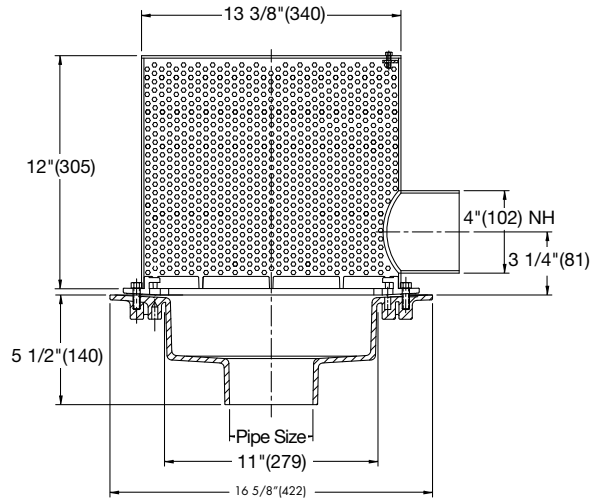
Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Green Roof Drains

## GRD-670

## Green Roof Drain w/Auxiliary Inlet

| Model Number               | Outlet Size           | WT., lbs. | List Price |
|----------------------------|-----------------------|-----------|------------|
| GRD-672, 3, 4, 5, 6, 8, 10 | 2, 3, 4, 5, 6, 8, 10" | 38        | \$2,177.18 |



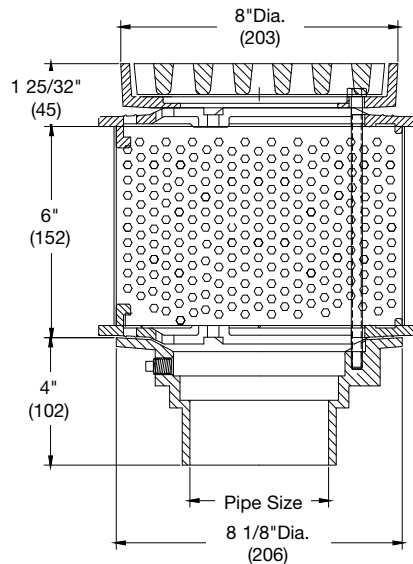
### Options for GRD-670 Series:

| Suffix | Description                | List Price |
|--------|----------------------------|------------|
| -12    | Galvanized Body            | \$177.00   |
| -B     | Sump Receiver              | 298.00     |
| -D     | Underdeck Clamp            | 262.50     |
| -F     | Deck Flange/Adj. Extension | 401.00     |
| -P     | Push On                    | 49.25      |
| -Q     | Additional Inlet(s)        | 328.00 ea  |

## GRD-680

## Green Roof Planter Drain w/ Traffic Grate

| Model Number   | Outlet Size | Grate        | WT., lbs. | List Price |
|----------------|-------------|--------------|-----------|------------|
| GRD-682, 3, 4, | 2, 3, 4,"   | ductile iron | 22        | \$502.95   |



### Options for GRD-680 Series:

| Suffix | Description           | List Price | Suffix | Description                | List Price |
|--------|-----------------------|------------|--------|----------------------------|------------|
| -1     | All Nickel Bronze Top | \$678.00   | -D     | Underdeck Clamp            | \$164.00   |
| -6     | Vandal Proof          | 157.00     | -F     | Deck Flange/Adj. Extension | 401.00     |
| -12    | Galvanized Body       | 177.00     | -P     | Push On                    | 49.25      |
| -B     | Sump Receiver         | 281.00     | -SO    | Side Outlet                | 273.50     |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

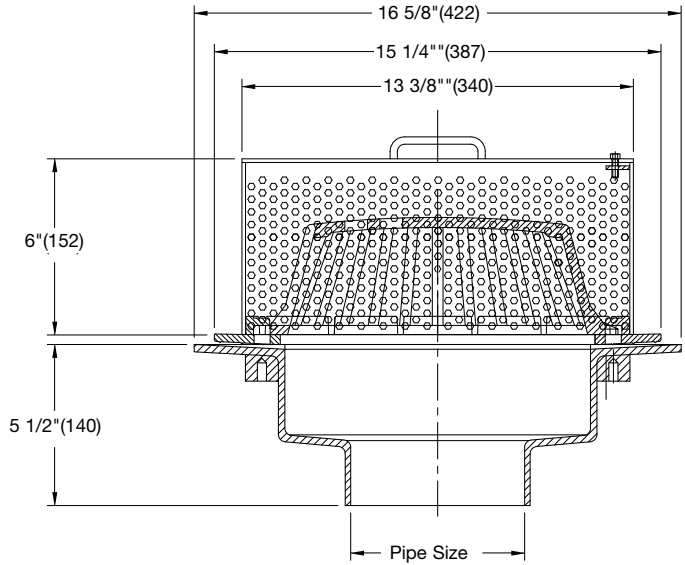


# Green Roof Drains

## GRD-690

## Green Roof Shallow Planter Drain

| Model Number               | Outlet Size           | WT., lbs. | List Price |
|----------------------------|-----------------------|-----------|------------|
| GRD-692, 3, 4, 5, 6, 8, 10 | 2, 3, 4, 5, 6, 8, 10" | 34        | \$2,907.63 |



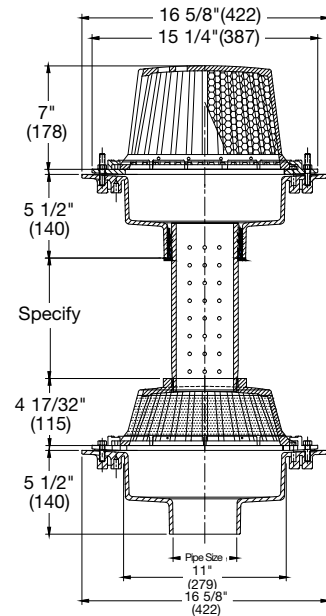
### Options for GRD-690 Series:

| Suffix | Description                | List Price |
|--------|----------------------------|------------|
| -12    | Galvanized Body            | \$177.00   |
| -B     | Sump Receiver              | 297.00     |
| -D     | Underdeck Clamp            | 262.50     |
| -F     | Deck Flange/Adj. Extension | 401.00     |
| -P     | Push On                    | 49.25      |

## GRD-730

## Green Roof Large Multi-Level Planter Drain

| Model Number               | Outlet Size     | WT., lbs. | List Price |
|----------------------------|-----------------|-----------|------------|
| GRD-732, 3, 4, 5, 6, 8, 10 | 2,3,4,5,6,8,10" | 74        | \$4,327.00 |



### Options for GRD-730 Series:

| Suffix | Description     | List Price | Suffix | Description                | List Price |
|--------|-----------------|------------|--------|----------------------------|------------|
| -5     | Sediment Bucket | \$282.50   | -D     | Underdeck Clamp            | \$271.50   |
| -6     | Vandal Proof    | 160.50     | -F     | Deck Flange/Adj. Extension | 401.00     |
| -12    | Galvanized Body | 177.00     | -P     | Push On                    | 49.25      |
| -B     | Sump Receiver   | 297.00     |        |                            |            |



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Roof Drains

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- Pictorial Index
- Product Recommendations
- Roof Drain Selection Factors
  - Placement
  - Sizing
  - Materials
  - Pipe Connections
  - Commonly Specified Options
- Typical Installations



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

**WATTS**<sup>®</sup>

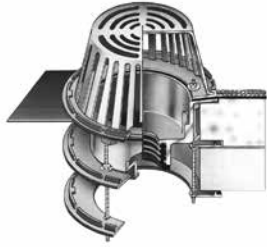


# Roof Drains

## Pictorial Index



**RD-100**  
Roof Drain



**RD-100-BED**  
Large Area Roof Drain w/  
Sump Receiver



**RD-100-BVD**  
Large Sump Roof Drain w/  
Fixed Extension & Clamp



**RD-100-CH**  
Roof Drain w/Adj. IRMA Cast  
Iron Insulation & Ballast Guard



**RD-100-CJ**  
IRMA  
Roof Drain



**RD-100-CP**  
Roof Drain with  
12" x 12" Promenade Top



**RD-100-CP-CJ**  
IRMA Roof Drain  
w/12" x 12" Promenade Top

No Photo  
Available

**RD-100-CT**  
Cooling Tower Roof Drain



**RD-100-F**  
Roof Drain w/Deck  
Flange/Adj. Extension



**RD-100-GSS**  
Roof Drain w/ Stainless Steel  
Insulation & Ballast Guard



**RD-100-R**  
Roof Drain with  
2 in. External Water Dam



**RD-100-SO**  
Roof Drain with Side Outlet



**RD-100-W**  
Roof Drain with 4"  
Internal Standpipe



**RD-200**  
Small Area Roof Drain



**RD-200-BED**  
Small Sump Roof Drain  
For 1-3/4" to 7" Insulation



**RD-200-CP**  
Small Area Roof Drain with  
Promenade Top



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Roof Drains

## Pictorial Index



**RD-200-CP-CJ**  
IRMA Roof Drain with 8 in.  
Promenade Top



**RD-200-R**  
Small Area Roof Drain with  
2 in. External Water Dam



**RD-200-SO**  
Side Outlet Roof Drain



**RD-200-W**  
Small Area Roof Drain with  
4" Internal Standpipe



**RD-230**  
Side Outlet Balcony Drain



**RD-240**  
Bottom Outlet Balcony  
Drain



**RD-250**  
One-Piece Combination  
Roof Drain



**RD-260**  
Combination Roof Drain &  
Secondary Overflow



**RD-270**  
Scupper Drain with Angle  
Grate



**RD-280**  
Flanged Cast Iron  
Roof Drain



**RD-280-SO**  
Flanged Cast Iron Roof  
Drain with Side Outlet



**RD-290**  
Scupper Drain  
w/Flat Grate



**RD-300**  
High Volume Roof Drain



**RD-300-AC**  
Adj. Ext. Compression  
Seal Roof Drain



**RD-300-AE**  
Adj. Ext. Threaded  
Seal Roof Drain



**RD-300-85**  
High Volume  
IRMA Roof Drain

Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

**WATTS®**

# Roof Drains

## Pictorial Index



**RD-300-CP15**  
Roof Drain with 15 x15 in.  
Promenade Top



**RD-300-CP15-85**  
IRMA Roof Drain  
w/15"x15" Promenade Top



**RD-300-F**  
High Volume Roof Drain w/  
Deck Flange/Adj. Extension



**RD-300-R**  
High Volume Roof Drain w/  
2 in. External Water Dam



**RD-300-W**  
High Volume Roof Drain  
w/4 in. Internal Standpipe



**RD-400**  
12 in. Dia.  
Deck Receptor Drain



**RD-410**  
8 in. Dia.  
Deck Receptor Drain



**RD-500**  
Super Flow  
Roof Drain



**RD-680-VC**  
Cast Iron Vent Cap



**RD-700**  
Dual Outlet Roof Drain/  
Overflow



**RD-700-CT**  
Dual Outlet Roof Drain/  
Overflow



**RD-800**  
Dual Outlet Large Capacity  
Roof Drain/Overflow



**RD-800-CT**  
Dual Outlet Large Capacity  
Roof Drain/Overflow



**RD-900**  
Neoprene Expansion  
Coupling



**RD-940**  
Downspout Nozzle



**RD-950**  
Stainless Steel Downspout  
Cover



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Roof Drains

## Pictorial Index



**RD-970/RD-980**  
Downspout Boots

## Recommendations

| Application                  | Product                      |
|------------------------------|------------------------------|
| Balcony or Canopy            | RD-230, RD-240               |
| Combination Primary/Overflow | RD-700                       |
| Deck Receptor                | RD-400, RD-410               |
| Downspout Nozzle/Cover       | RD-940, RD-950               |
| Downspout Boot               | RD-970 / RD-980              |
| IRMA                         | RD-300-85                    |
| Primary Roof Drain           | RD-300, RD-300-F             |
| Primary Roof Overflow        | RD-300-R, RD-300-W           |
| Promenade Area               | RD-100-CP, RD-300-CP15       |
| Promenade Area IRMA          | RD-100-CP-85, RD-300-CP15-85 |
| Scupper or Parapet           | RD-270, RD-290               |

# Roof Drains

## Roof Drain Selection Factors

### Sizing

- 1.) Calculate roof area (sq. ft.) to be drained.
- 2.) Determine the maximum hourly rainfall rate for your area. This information is available from your local weather bureau or code authority.
- 3.) Select leader (drain pipe) size. In general, increasing leader size will decrease the number of drains required.
- 4.) Reference leader size with hourly rainfall rate, to determine the roof area drained by each leader (Chart B).
- 5.) Divide roof area (1.) by area per leader (4.) to determine the number of drains required

**Chart A**

| Leader Pipe Size Inches | Maximum Allowable Horizontal Projected Roof Areas Square Feet at Various Rainfall Rates |           |           |           |           |           |
|-------------------------|---|-----------|-----------|-----------|-----------|-----------|
|                         | 1 in./hr.   | 2 in./hr. | 3 in./hr. | 4 in./hr. | 5 in./hr. | 6 in./hr. |
| 2                       | 2176  | 1088      | 725       | 544       | 435       | 363       |
| 3                       | 6440  | 3220      | 2147      | 1610      | 1288      | 1073      |
| 4                       | 13840   | 6920      | 4613      | 3460      | 2768      | 2307      |
| 5                       | 25120   | 12560     | 8373      | 6280      | 5024      | 4187      |
| 6                       | 40800   | 20400     | 13600     | 10200     | 8160      | 6800      |
| 8                       | 88000   | 44000     | 29333     | 22000     | 17600     | 14667     |

*Chart A is based on Table 11-1 from the Uniform Plumbing Code (UPC) - 2006 Edition*

**Chart B**

| Allowable Flow (GPM) for Vertical Leaders and Horizontal Storm Drains <sup>2</sup> |                 |                                |          |          |
|--|-----------------|--------------------------------|----------|----------|
| Pipe Size Inches   | Vertical Leader | Horizontal Storm Drain / Slope |          |          |
|  |                 | 1/8"/ft.                       | 1/4"/ft. | 1/2"/ft. |
| 2  | 23              | 10                             | 15       | 20       |
| 3  | 67              | 34                             | 48       | 68       |
| 4  | 144             | 78                             | 110      | 156      |
| 5  | 261             | 139                            | 196      | 278      |
| 6  | 424             | 222                            | 314      | 445      |
| 8  | 913             | 478                            | 677      | 956      |
| 10   | -               | 860                            | 1214     | 1721     |
| 12   | -               | 1384                           | 1953     | 2768     |
| 15   | -               | 2473                           | 3491     | 4946     |

*Chart B is based on Table 11-2 from the Uniform Plumbing Code (UPC) - 2006 Edition*

# Roof Drains

## Roof Drain Selection Factors

### Materials

#### Cast iron epoxy coated\*

Industrial grade cast iron, finished with Watts gray acid resistant epoxy coating.

*NOTE: Watts drainage standard epoxy coating is designed for interim protection of iron components during processing, shipping, and construction. It is not intended to protect surfaces subject to traffic, or environmental conditions. Exposed iron surfaces should be expected to show surface oxidation (rusting) after a short period of time.*

#### PVC or ABS

Select roof drains can be specified with optional PVC (-60) or ABS (-61) plastic bodies for direct sch. 40 solvent weld connection.

#### Poly domes

UV stabilized high density polyethylene, high resistance to breakage and weathering.

### Pipe Connections

#### No Hub (standard)

Butt connection using a no hub or neoprene coupling. Suitable for cast iron, plastic, and most other piping applications.

#### Push-on (-P)

ASTM C-564 gasket connection, with pipe stop. Suitable for no hub or service weight cast iron, sch. 40 plastic, and steel pipe. Not recommended for above grade.

#### Inside Caulk (-X)

Used for lead and oakum joints, pipe is inserted through a caulk ring on the drain outlet.

#### PVC (-60) or ABS (-61) socket

For direct solvent weld connection to sch. 40 plastic pipe.

#### Threaded (-THD)

Female threaded outlet for connection to IPS threaded pipe.

### Commonly Specified Options

#### -12 Galvanized body and flashing clamp

Standard zinc galvanizing, typically specified in coastal environments.

#### -85 4" High Perforated SS Extension

For IRMA roof applications, allows drainage through insulation area.

#### -B Sump Receiver

Receives roof drain flange for installation flush with the roof deck, eliminating stress on the roofing membrane, and potential puddling around the drain.

#### -D Underdeck Clamp

Install on the underside of the roof deck, securely fastens the roof drain to the deck.

#### -F Deck Flange / Adjustable Extension

10 ga. zinc plated steel flange creates a structurally sound mounting surface over the roof penetration, and enables drain to be elevated to insulation height.

*Note: a separate sump receiver is not required when the drain is specified with a -F Deck Flange / Adjustable Extension.*

#### -GSS Stainless Steel Ballast Guard

4" high perforated stainless steel, protects drain area and dome in ballasted roof areas.

#### -K Ductile Iron Dome

Superior impact resistance compared to standard cast iron. Finished with standard grey epoxy coating.

#### -K12 Galvanized Ductile Iron Dome

Hot-dipped galvanized, superior impact resistance. Typically specified in coastal environments.

#### -K40 Ductile Iron Low Dome

Low profile, superior impact resistance compared to standard cast iron. Finished with standard grey epoxy coating.

#### -K80 Aluminum Dome

Corrosion resistant, finished with standard grey epoxy coating.

#### -K83 Stainless Steel Mesh Covered Aluminum Dome

Corrosion resistant, mesh prevents small debris from entering the drain.

#### -L Vandal Proof Dome

Dome secured with Allen head bolts.

#### -R 2" High External Water Dam

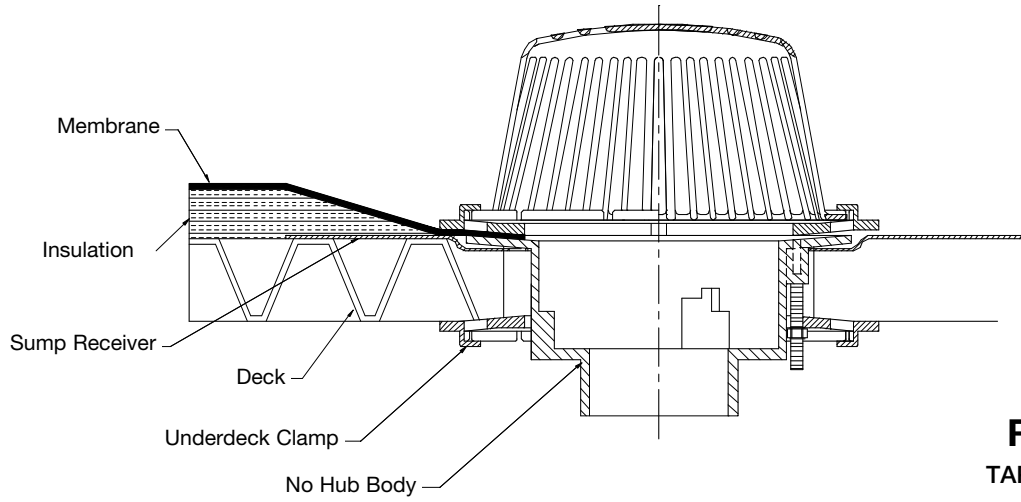
For emergency roof overflow drains, restricts drainage on roof surface below 2".

#### -W 4" High Internal Water Dam

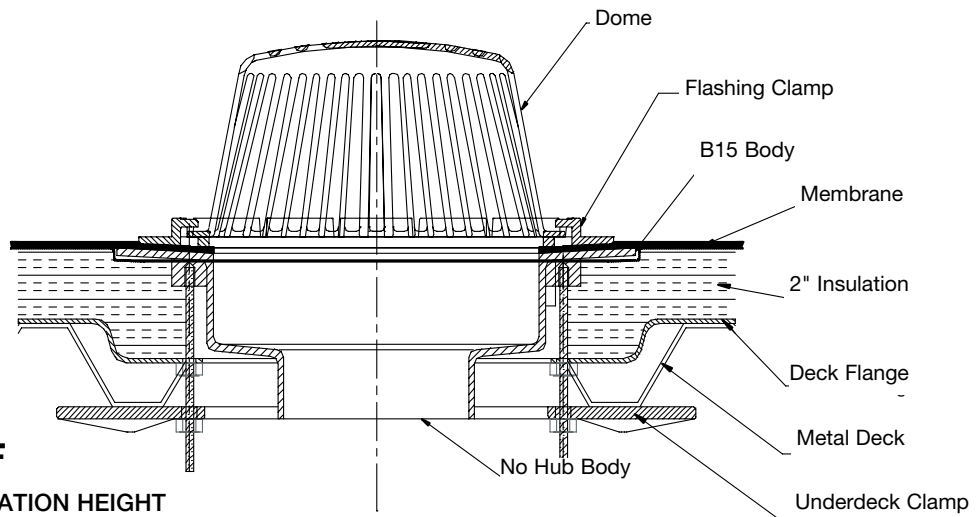
For emergency roof overflow drains, restricts drainage on roof surface below 4".

# Roof Drains

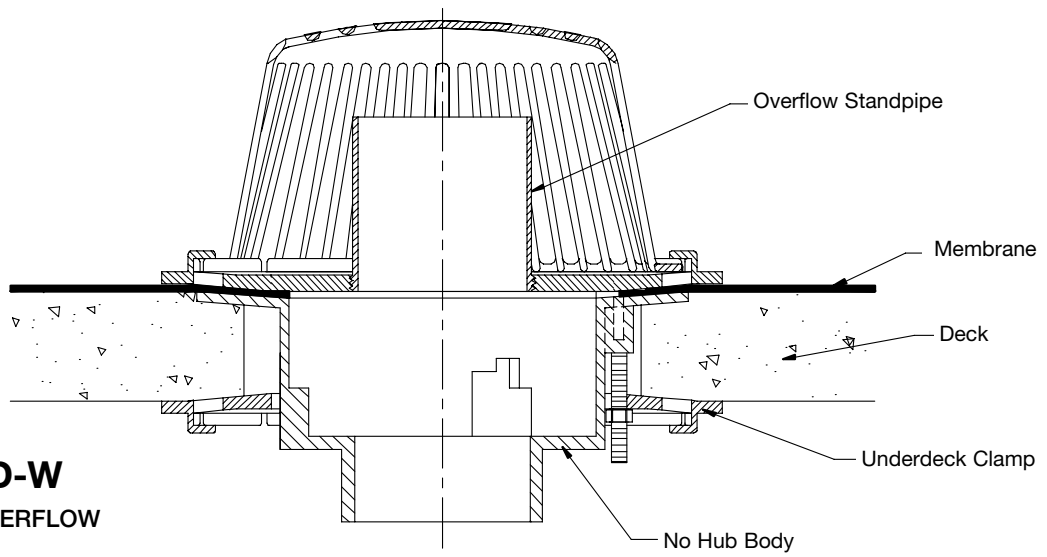
## Typical Installations



**RD-100-B-D**  
TAPERED INSULATION



**RD-300-D-F**  
DRAIN ELEVATED TO INSULATION HEIGHT



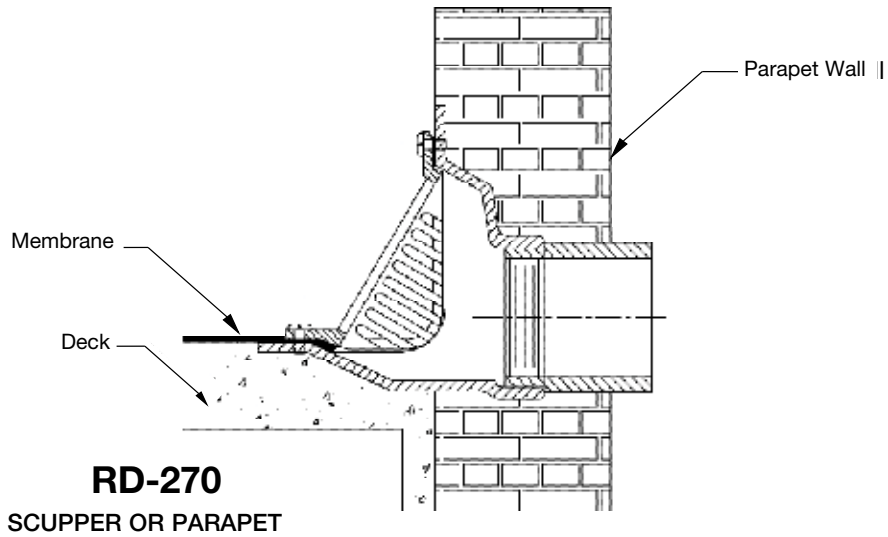
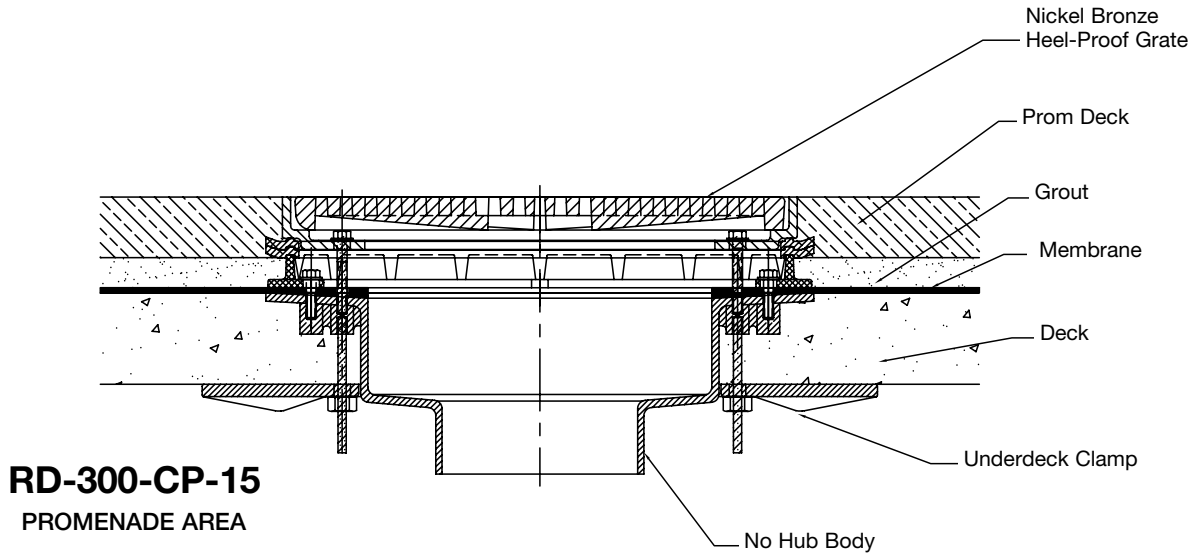
**RD-100-D-W**  
INTERNAL OVERFLOW



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Roof Drains

## Typical Installations





# Roof Drains

**RD-100**

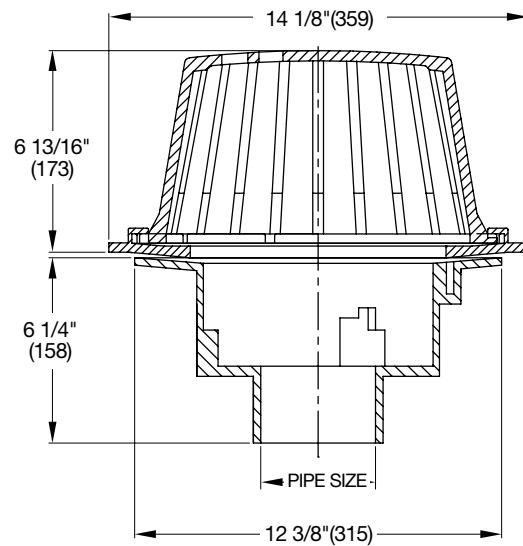
**Roof Drain**



| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-102, 3, 4 | 2, 3, 4, 6" | 26        | \$500.34   |
| RD-105, 6, 8 | 5, 6, 8"    | 26        | 645.24     |



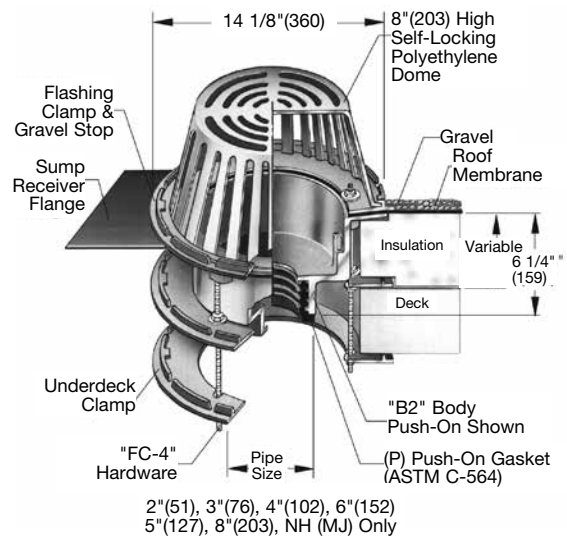
Note: Poly Dome Standard



**RD-100-BED**

**Large Area Roof Drain w/Sump Receiver, Adj. Extension, & Deck Clamp**

| Model Number     | Outlet Size    | WT., Lbs. | Poly Dome |
|------------------|----------------|-----------|-----------|
| RD-102, 3, 4-BED | 2, 3, 4, 5, 6" | 55        | \$997.37  |
| RD-108-BED       | 8"             | 55        | 1,128.91  |



## Options for RD-100 Series:

| Suffix | Description                                 | List Price | Suffix | Description                     | List Price |
|--------|---|------------|--------|---------------------------------|------------|
| None   | No Hub                                      | No Add     | -K     | Ductile Iron Dome               | \$115.00   |
| P      | Push-On Outlet                              | \$49.25    | -K13   | Galvanized Dome                 | 373.50     |
| -T     | Threaded Outlet                             | 102.50     | -K40   | Ductile Iron Low Dome (4" High) | 273.50     |
| -60    | PVC Body w/Socket Outlet (2, 3, 4, 6" Only) | 36.50      | -K80   | Aluminum Dome                   | 115.00     |
| -61    | ABS Body w/Socket Outlet (2, 3, 4" Only)    | 36.50      | -K81   | Rough Bronze Dome               | 1,064.00   |
| -12    | Galvanized Body & Flashing Clamp            | 177.00     | -K83   | SS Mesh Covered Aluminum Dome   | 966.00     |
| -A     | Accutrol Flow Restrictor                    | 266.50     | -L     | Vandal Proof Dome               | 160.50     |
| -B     | Sump Receiver                               | 210.00     | -R     | 2" External Water Dam           | 197.00     |
| -D     | UnderdeckClamp                              | 124.00     | -SO    | Side Outlet (2, 3, 4" Only)     | 285.00     |
| -F     | Deck Flange/Adj. Extension                  | 731.00     | -V     | Fixed Extension                 | 356.00     |
| -GSS   | Stainless Steel Ballast Guard               | 548.50     | -W     | Adjustable Internal Water Dam   | 242.50     |

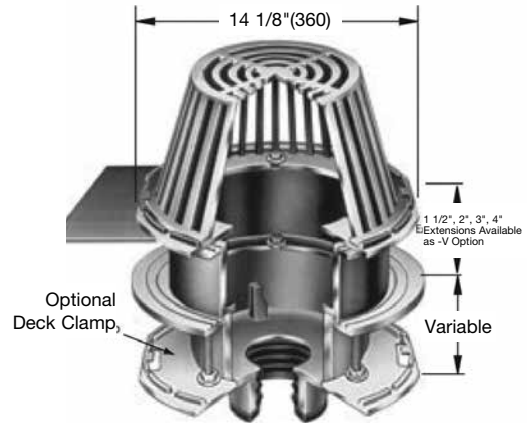


Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Roof Drains

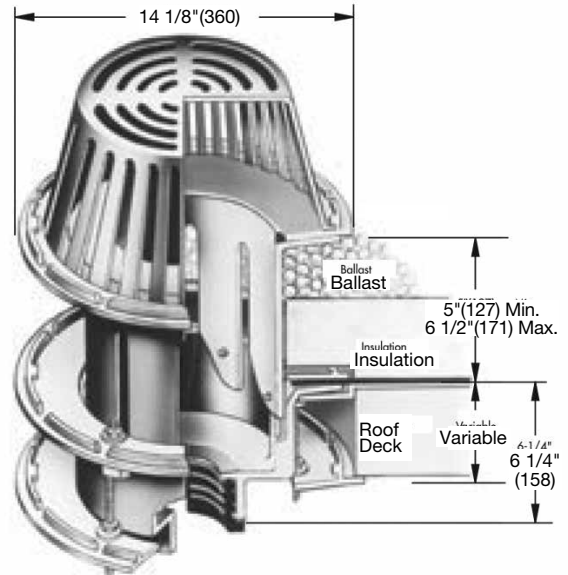
## RD-100-BVD Roof Drain

| Model Number     | Outlet Size | Wt., Lbs. | Poly Dome  |
|------------------|-------------|-----------|------------|
| RD-102, 3, 4-BVD | 2, 3, 4"    | 95        | \$1,144.60 |
| RD-105, 6, 8-BVD | 5, 6, 8"    | N/A       | 1,383.21   |



## RD-100-CH Roof Drain w/Adj. IRMA Cast Iron Insulation & Ballast Guard

| Model Number    | Outlet Size | Wt., Lbs. | Poly Dome  |
|-----------------|-------------|-----------|------------|
| RD-102, 3, 4-CH | 2, 3, 4"    | 65        | \$1,073.79 |
| RD-105, 6, 8-CH | 5, 6, 8"    | n/a       | 1,218.69   |



## Options for RD-100 Series:

| Suffix | Description                                 | List Price | Suffix | Description                     | List Price |
|--------|---|------------|--------|---------------------------------|------------|
| None   | No Hub                                      | No Add     | -K     | Ductile Iron Dome               | \$115.00   |
| P      | Push-On Outlet                              | \$49.25    | -K13   | Galvanized Dome                 | 373.50     |
| -T     | Threaded Outlet                             | 102.50     | -K40   | Ductile Iron Low Dome (4" High) | 273.50     |
| -60    | PVC Body w/Socket Outlet (2, 3, 4, 6" Only) | 36.50      | -K80   | Aluminum Dome                   | 115.00     |
| -61    | ABS Body w/Socket Outlet (2, 3, 4" Only)    | 36.50      | -K81   | Rough Bronze Dome               | 1,064.00   |
| -12    | Galvanized Body & Flashing Clamp            | 177.00     | -K83   | SS Mesh Covered Aluminum Dome   | 966.00     |
| -A     | Accutrol Flow Restrictor                    | 266.50     | -L     | Vandal Proof Dome               | 160.50     |
| -B     | Sump Receiver                               | 210.00     | -R     | 2" External Water Dam           | 197.00     |
| -D     | UnderdeckClamp                              | 124.00     | -SO    | Side Outlet (2, 3, 4" Only)     | 285.00     |
| -F     | Deck Flange/Adj. Extension                  | 731.00     | -V     | Fixed Extension                 | 356.00     |
| -GSS   | Stainless Steel Ballast Guard               | 548.50     | -W     | Adjustable Internal Water Dam   | 242.50     |

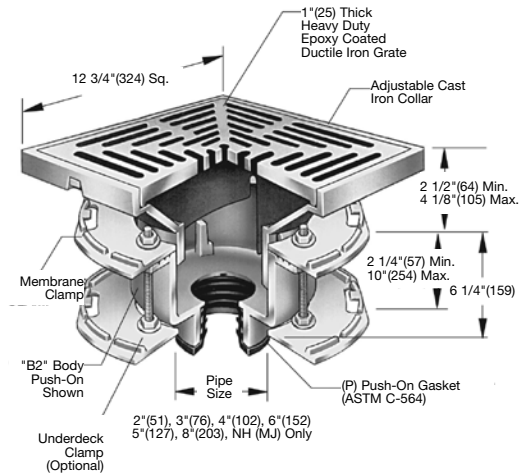
Consult factory for all applications outside of listed parameters.  
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# Roof Drains

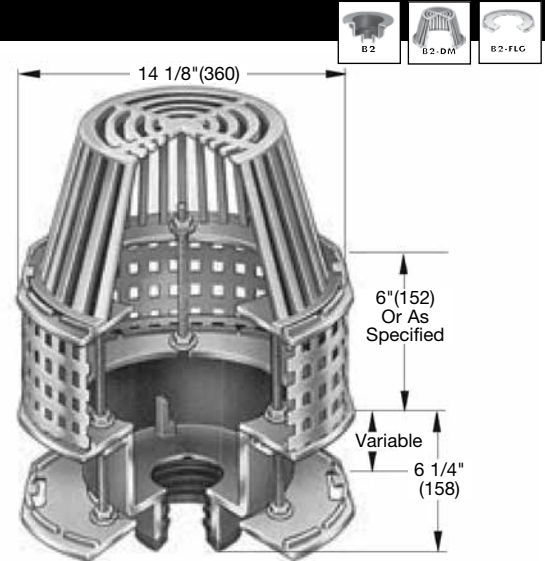
## RD-100-CP Roof Drain w/12" x 12" Promenade Top

| Model Number      | Outlet Size | Wt., Lbs. | List Price |
|-------------------|-------------|-----------|------------|
| RD-102, 3, 4-CP-4 | 2, 3, 4"    | 84        | \$1,384.26 |
| RD-102, 3, 4-CP-1 | 2, 3, 4"    | 84        | 2,352.38   |
| RD-105, 6, 8-CP-4 | 5, 6, 8"    | 84        | CF**       |
| RD-105, 6, 8-CP-1 | 5, 6, 8"    | 84        | 2,497.28   |



## RD-100-CJ IRMA Roof Drain

| Model Number       | Outlet Size | Wt., Lbs. | Poly Dome  |
|--------------------|-------------|-----------|------------|
| RD-102, 3, 4, 6-CJ | 2, 3, 4, 6" | 60        | \$1,198.26 |
| RD-108-CJ          | 8"          | 60        | 1,343.17   |



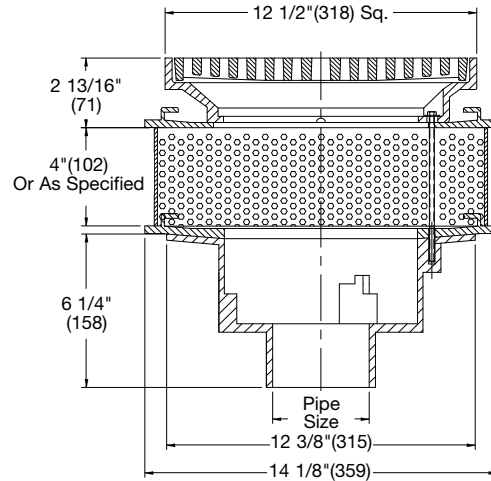
### Options for RD-100 Series:

| Suffix | Description                                 | List Price | Suffix | Description                     | List Price |
|--------|---|------------|--------|---------------------------------|------------|
| None   | No Hub                                      | No Add     | -K     | Ductile Iron Dome               | \$115.00   |
| P      | Push-On Outlet                              | \$49.25    | -K13   | Galvanized Dome                 | 373.50     |
| -T     | Threaded Outlet                             | 102.50     | -K40   | Ductile Iron Low Dome (4" High) | 273.50     |
| -60    | PVC Body w/Socket Outlet (2, 3, 4, 6" Only) | 36.50      | -K80   | Aluminum Dome                   | 115.00     |
| -61    | ABS Body w/Socket Outlet (2, 3, 4" Only)    | 36.50      | -K81   | Rough Bronze Dome               | 1,064.00   |
| -12    | Galvanized Body & Flashing Clamp            | 177.00     | -K83   | SS Mesh Covered Aluminum Dome   | 966.00     |
| -A     | Accutrol Flow Restrictor                    | 266.50     | -L     | Vandal Proof Dome               | 160.50     |
| -B     | Sump Receiver                               | 210.00     | -R     | 2" External Water Dam           | 197.00     |
| -D     | UnderdeckClamp                              | 124.00     | -SO    | Side Outlet (2, 3, 4" Only)     | 285.00     |
| -F     | Deck Flange/Adj. Extension                  | 731.00     | -V     | Fixed Extension                 | 356.00     |
| -GSS   | Stainless Steel Ballast Guard               | 548.50     | -W     | Adjustable Internal Water Dam   | 242.50     |

# Roof Drains

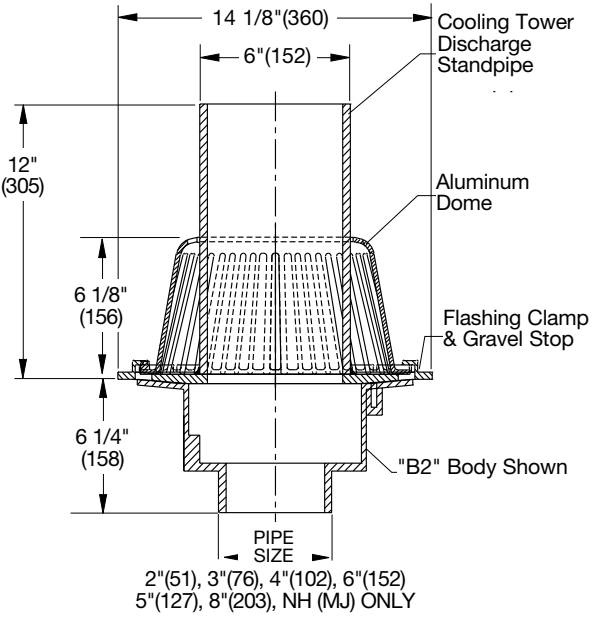
## RD-100-CJ-CP Roof Drain with 12" x 12" Promenade Top

| Model Number         | Outlet Size | Wt., Lbs. | Cast Top   | Nickel Bronze Top |
|----------------------|-------------|-----------|------------|-------------------|
| RD-102, 3, 4-CJ-CP-1 | 2, 3, 4"    | 85        | \$2,320.71 | \$3,024.75        |
| RD-105, 6, 8-CJ-CP-1 | 5, 6, 8"    | 85        | 2,431.52   | 3,169.65          |



## RD-100-CT Roof Drain with Adjustable Extension Flange

| Model Number    | Outlet Size | WT., lbs. | List Price |
|-----------------|-------------|-----------|------------|
| RD-102, 3, 4-CT | 2, 3, 4"    | 85        | \$5,148.52 |
| RD-105, 6, 8-CT | 5, 6, 8"    | 85        | 5,293.42   |



### Options for RD-100 Series:

| Suffix | Description                                 | List Price | Suffix | Description                     | List Price |
|--------|---|------------|--------|---------------------------------|------------|
| None   | No Hub                                      | No Add     | -K     | Ductile Iron Dome               | \$115.00   |
| P      | Push-On Outlet                              | \$49.25    | -K13   | Galvanized Dome                 | 373.50     |
| -T     | Threaded Outlet                             | 102.50     | -K40   | Ductile Iron Low Dome (4" High) | 273.50     |
| -60    | PVC Body w/Socket Outlet (2, 3, 4, 6" Only) | 36.50      | -K80   | Aluminum Dome                   | 115.00     |
| -61    | ABS Body w/Socket Outlet (2, 3, 4" Only)    | 36.50      | -K81   | Rough Bronze Dome               | 1,064.00   |
| -12    | Galvanized Body & Flashing Clamp            | 177.00     | -K83   | SS Mesh Covered Aluminum Dome   | 966.00     |
| -A     | Accutrol Flow Restrictor                    | 266.50     | -L     | Vandal Proof Dome               | 160.50     |
| -B     | Sump Receiver                               | 210.00     | -R     | 2" External Water Dam           | 197.00     |
| -D     | UnderdeckClamp                              | 124.00     | -SO    | Side Outlet (2, 3, 4" Only)     | 285.00     |
| -F     | Deck Flange/Adj. Extension                  | 731.00     | -V     | Fixed Extension                 | 356.00     |
| -GSS   | Stainless Steel Ballast Guard               | 548.50     | -W     | Adjustable Internal Water Dam   | 242.50     |

Consult factory for all applications outside of listed parameters.  
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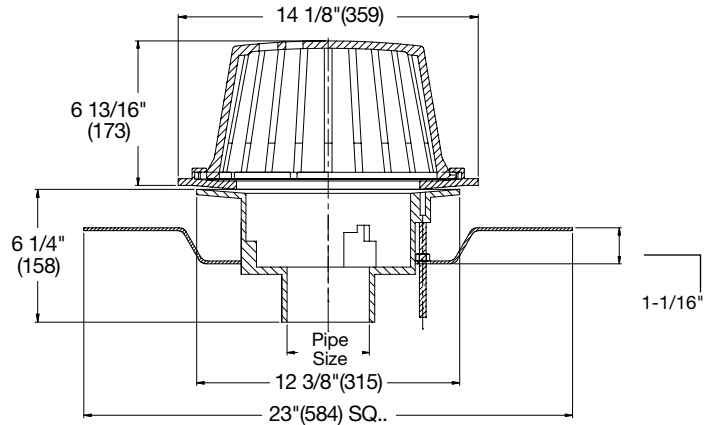
# Roof Drains

## RD-100-F

### Roof Drain with Adjustable Extension Flange



| Model Number   | Outlet Size | WT., lbs. | List Price |
|----------------|-------------|-----------|------------|
| RD-102, 3, 4-F | 2, 3, 4"    | 40        | \$1,222.96 |
| RD-105, 6, 8-F | 5, 6, 8"    | 40        | 1,367.86   |



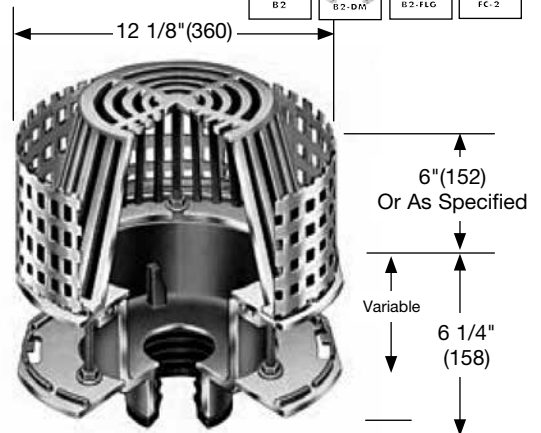
Note: Poly Dome Standard

## RD-100-GSS

### Roof Drain with Stainless Steel Insulation & Ballast Guard



| Model Number        | Outlet Size | Wt., Lbs. | Poly Dome  |
|---------------------|-------------|-----------|------------|
| RD-102, 3, 4, 6-GSS | 2, 3, 4, 6" | 50        | \$1,048.83 |
| RD-108-GSS          | 8"          | 50        | 942.41     |



### Options for RD-100 Series:

| Suffix | Description                                 | List Price | Suffix | Description                     | List Price |
|--------|---|------------|--------|---------------------------------|------------|
| None   | No Hub                                      | No Add     | -K     | Ductile Iron Dome               | \$115.00   |
| P      | Push-On Outlet                              | \$49.25    | -K13   | Galvanized Dome                 | 373.50     |
| -T     | Threaded Outlet                             | 102.50     | -K40   | Ductile Iron Low Dome (4" High) | 273.50     |
| -60    | PVC Body w/Socket Outlet (2, 3, 4, 6" Only) | 36.50      | -K80   | Aluminum Dome                   | 115.00     |
| -61    | ABS Body w/Socket Outlet (2, 3, 4" Only)    | 36.50      | -K81   | Rough Bronze Dome               | 1,064.00   |
| -12    | Galvanized Body & Flashing Clamp            | 177.00     | -K83   | SS Mesh Covered Aluminum Dome   | 966.00     |
| -A     | Accutrol Flow Restrictor                    | 266.50     | -L     | Vandal Proof Dome               | 160.50     |
| -B     | Sump Receiver                               | 210.00     | -R     | 2" External Water Dam           | 197.00     |
| -D     | UnderdeckClamp                              | 124.00     | -SO    | Side Outlet (2, 3, 4" Only)     | 285.00     |
| -F     | Deck Flange/Adj. Extension                  | 731.00     | -V     | Fixed Extension                 | 356.00     |
| -GSS   | Stainless Steel Ballast Guard               | 548.50     | -W     | Adjustable Internal Water Dam   | 242.50     |



Consult factory for all applications outside of listed parameters.  
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# Roof Drains

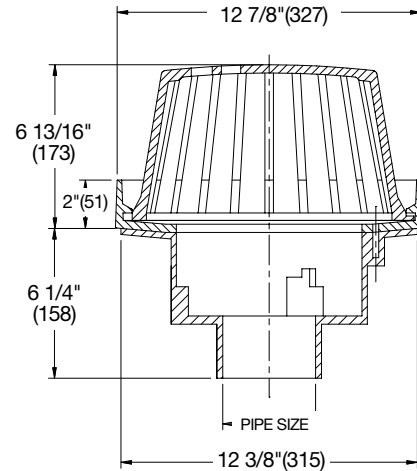
## RD-100-R Overflow Roof Drain with 2" External Water Dam



| Model Number   | Outlet Size | WT., lbs. | List Price |
|----------------|-------------|-----------|------------|
| RD-102, 3, 4-R | 2, 3, 4,"   | 27        | \$568.69   |
| RD-105, 6, 8-R | 5, 6, 8"    | 27        | 713.59     |



Note: Poly-Dome Standard



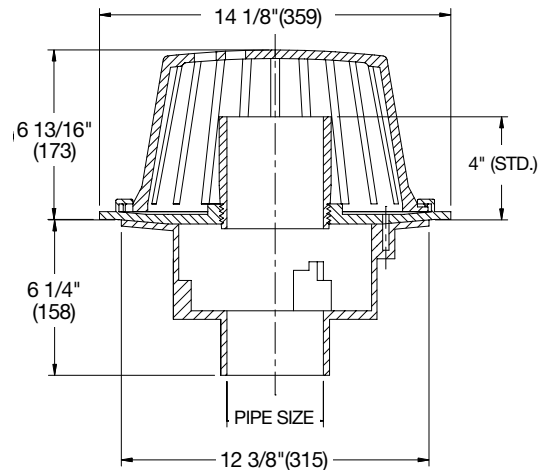
## RD-100-W Overflow Roof Drain with Internal Standpipe



| Outlet Size    | Outlet Size | WT., lbs. | Poly Dome |
|----------------|-------------|-----------|-----------|
| RD-102, 3, 4-W | 2, 3, 4"    | 32        | \$671.22  |
| RD-105, 6, 8-W | 5, 6, 8"    | 32        | 816.12    |



Note: Poly-Dome Standard



### Options for RD-100 Series:

| Suffix | Description                                 | List Price | Suffix | Description                     | List Price |
|--------|---|------------|--------|---------------------------------|------------|
| None   | No Hub                                      | No Add     | -K     | Ductile Iron Dome               | \$115.00   |
| P      | Push-On Outlet                              | \$49.25    | -K13   | Galvanized Dome                 | 373.50     |
| -T     | Threaded Outlet                             | 102.50     | -K40   | Ductile Iron Low Dome (4" High) | 273.50     |
| -60    | PVC Body w/Socket Outlet (2, 3, 4, 6" Only) | 36.50      | -K80   | Aluminum Dome                   | 115.00     |
| -61    | ABS Body w/Socket Outlet (2, 3, 4" Only)    | 36.50      | -K81   | Rough Bronze Dome               | 1,064.00   |
| -12    | Galvanized Body & Flashing Clamp            | 177.00     | -K83   | SS Mesh Covered Aluminum Dome   | 966.00     |
| -A     | Accutrol Flow Restrictor                    | 266.50     | -L     | Vandal Proof Dome               | 160.50     |
| -B     | Sump Receiver                               | 210.00     | -R     | 2" External Water Dam           | 197.00     |
| -D     | UnderdeckClamp                              | 124.00     | -SO    | Side Outlet (2, 3, 4" Only)     | 285.00     |
| -F     | Deck Flange/Adj. Extension                  | 731.00     | -V     | Fixed Extension                 | 356.00     |
| -GSS   | Stainless Steel Ballast Guard               | 548.50     | -W6    | Adjustable Internal Water Dam   | 242.50     |

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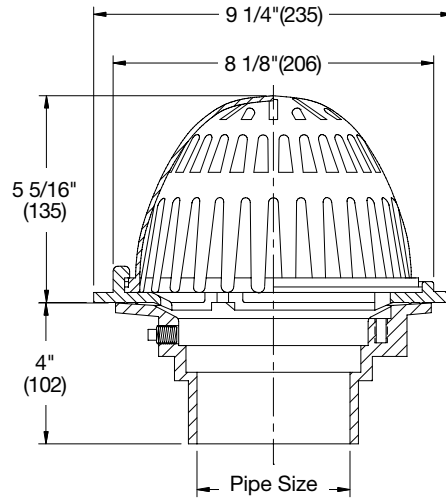
# Roof Drains

**RD-200**

**Small Area Roof Drain**



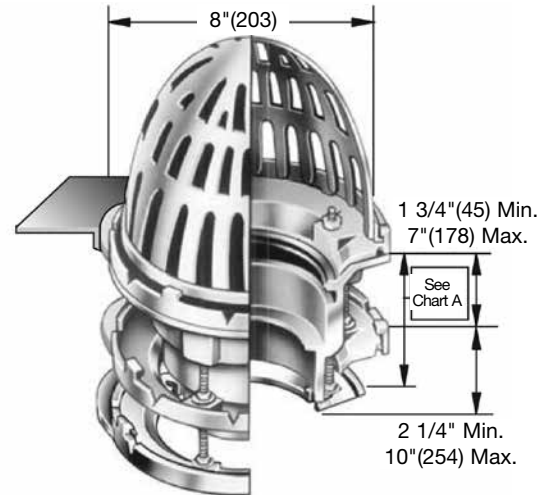
| Model Number    | Outlet Size | WT., lbs. | Poly Dome |
|-----------------|-------------|-----------|-----------|
| RD-202, 3, 4, 6 | 2, 3, 4, 6" | 15        | \$294.90  |



**RD-200-BED**

**Small Sump Roof Drain for 1-3/4" to 7" Insulation**

| Model Number        | Outlet Size | Wt., Lbs. | Poly Dome |
|---------------------|-------------|-----------|-----------|
| RD-202, 3, 4, 6-BED | 2, 3, 4, 6" | 27        | \$615.78  |



| Chart A   |            |             |               |            |
|-----------|------------|-------------|---------------|------------|
|           | Std.       | P           | T             | 60/61      |
| Pipe Size | No Hub     | Push On     | Female Thread | PVC/ABS    |
| 2"(51)    | 3 5/8"(92) | 4 1/4"(108) | 4 1/4"(108)   | 3 3/4"(94) |
| 3"(76)    | 3 5/8"(92) | 4 1/4"(108) | 4 1/4"(108)   | 3 3/4"(94) |
| 4"(100)   | 3 5/8"(92) | 4 1/4"(108) | 4 1/4"(108)   | 4"(102)    |
| 6"(152)   | 3 1/2"(89) |             |               |            |

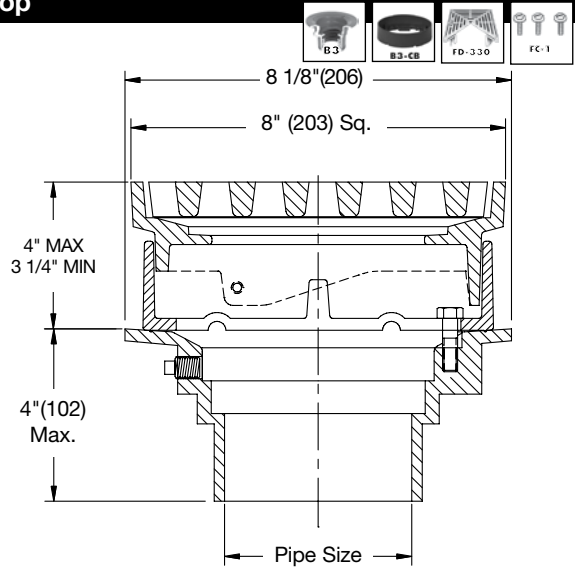
**Options for RD-200 Series:**

| Suffix  | Description                                 | List Price | Suffix | Description                   | List Price |
|---------|---|------------|--------|-------------------------------|------------|
| -A1, A2 | Flow Control                                | \$151.50   | -F     | Deck Flange/Adj. Extension    | \$419.50   |
| None    | No Hub                                      | No Add     | -GSS   | Stainless Steel Ballast Guard | 241.00     |
| P       | Push-On Outlet                              | \$49.25    | -K     | Ductile Iron Dome             | 120.50     |
| -T      | Threaded Outlet                             | 102.50     | -K80   | Aluminum Dome                 | 120.50     |
| -60     | PVC Body w/Socket Outlet (2, 3, 4, 6" Only) | 36.50      | -K81   | Bronze Dome                   | 797.50     |
| -61     | ABS Body w/Socket Outlet (2, 3, 4" Only)    | 36.50      | -K83   | SS Mesh Covered Aluminum Dome | 364.50     |
| -6      | Vandal Proof                                | 49.25      | -L     | Vandal Proof Dome             | 82.00      |
| -12     | Hot Dipped Galvanized                       | 177.00     | -R     | 2" External Water Dam         | 82.00      |
| -B      | Sump Receiver                               | 117.50     | -SO    | Side Outlet                   | 273.50     |
| -D      | UnderdeckClamp                              | 80.25      | -W     | Adjustable Internal Water Dam | 481.00     |

# Roof Drains

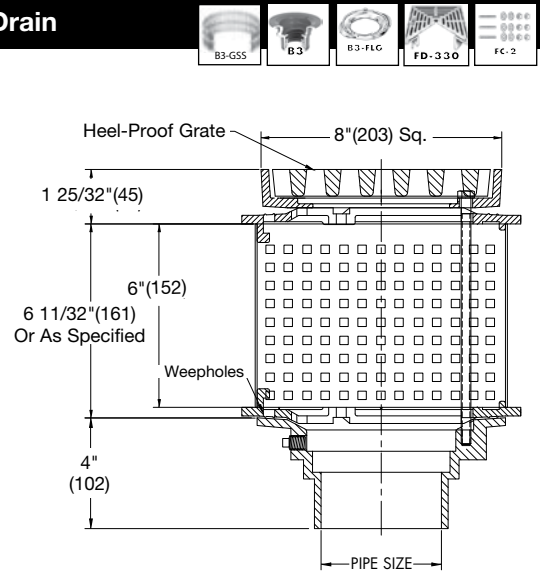
## RD-200-CP Roof Drain with 8" x 8" Promenade Top

| Model Number      | Outlet Size | WT., lbs. | Grate         | List Price |
|-------------------|-------------|-----------|---------------|------------|
| RD-202, 3, 4-CP   | 2, 3, 4, 6" | 22        | ductile iron  | \$612.50   |
| RD-202, 3, 4-CP-1 | 2, 3, 4, 6" | 22        | nickel bronze | 2,048.40   |



## RD-200-CJ-CP Irma Promenade Roof Drain

| Model Number              | Outlet Size | Wt., Lbs. | Ductile Iron Top |
|---------------------------|-------------|-----------|------------------|
| RD-202, 3, 4, 6-CJ-CP     | 2, 3, 4, 6" | 85        | \$502.95         |
| RD-202, 3, 4, 6-CJ-CP-101 | 2, 3, 4, 6" | 85        | 1,646.70         |



### Options for RD-200 Series:

| Suffix  | Description                                 | List Price | Suffix | Description                   | List Price |
|---------|---|------------|--------|-------------------------------|------------|
| -A1, A2 | Flow Control                                | \$151.50   | -F     | Deck Flange/Adj. Extension    | \$419.50   |
| None    | No Hub                                      | No Add     | -GSS   | Stainless Steel Ballast Guard | 241.00     |
| P       | Push-On Outlet                              | 49.25      | -K     | Ductile Iron Dome             | 120.50     |
| -T      | Threaded Outlet                             | 102.50     | -K80   | Aluminum Dome                 | 120.50     |
| -60     | PVC Body w/Socket Outlet (2, 3, 4, 6" Only) | 36.50      | -K81   | Bronze Dome                   | 797.50     |
| -61     | ABS Body w/Socket Outlet (2, 3, 4" Only)    | 36.50      | -K83   | SS Mesh Covered Aluminum Dome | 364.50     |
| -6      | Vandal Proof                                | 49.25      | -L     | Vandal Proof Dome             | 82.00      |
| -12     | Hot Dipped Galvanized                       | 177.00     | -R     | 2" External Water Dam         | 82.00      |
| -B      | Sump Receiver                               | 117.50     | -S0    | Side Outlet                   | 273.50     |
| -D      | UnderdeckClamp                              | 80.25      | -W     | Adjustable Internal Water Dam | 481.00     |

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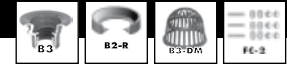




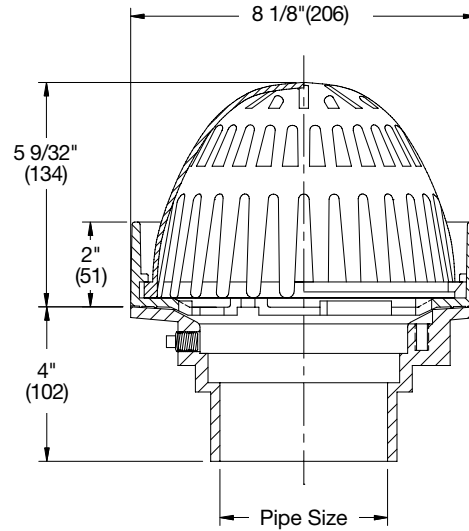
# Roof Drains

**RD-200-R**

**Overflow Roof Drain with 2" External Water Dam**

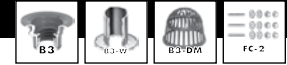


| Model Number      | Outlet Size | WT., lbs. | List Price |
|-------------------|-------------|-----------|------------|
| RD-202, 3, 4, 6-R | 2, 3, 4, 6" | 25        | \$341.05   |

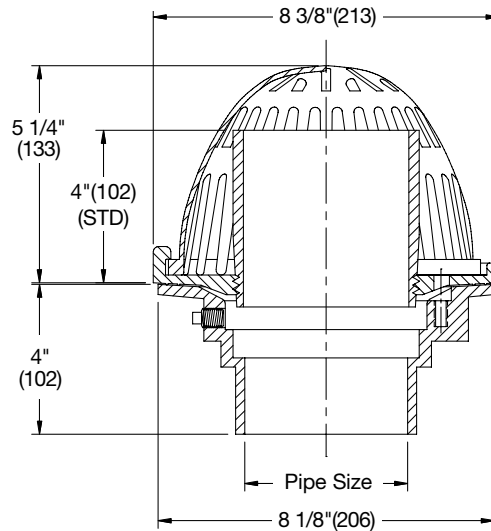


**RD-200-W**

**Overflow Roof Drain with Internal Standpipe**



| Model Number      | Outlet Size | WT., lbs. | List Price |
|-------------------|-------------|-----------|------------|
| RD-202, 3, 4, 6-W | 2, 3, 4, 6" | 25        | \$407.10   |



## Options for RD-200 Series:

| Suffix  | Description                                 | List Price | Suffix | Description                   | List Price |
|---------|---|------------|--------|-------------------------------|------------|
| -A1, A2 | Flow Control                                | \$144.50   | -F     | Deck Flange/Adj. Extension    | \$419.50   |
| None    | No Hub                                      | No Add     | -GSS   | Stainless Steel Ballast Guard | 241.00     |
| P       | Push-On Outlet                              | 49.25      | -K     | Ductile Iron Dome             | 120.50     |
| -T      | Threaded Outlet                             | 102.50     | -K80   | Aluminum Dome                 | 120.50     |
| X       | Inside Caulk Outlet                         | No Add     | -K81   | Bronze Dome                   | 797.50     |
| -60     | PVC Body w/Socket Outlet (2, 3, 4, 6" Only) | 36.50      | -K83   | SS Mesh Covered Aluminum Dome | 364.50     |
| -61     | ABS Body w/Socket Outlet (2, 3, 4" Only)    | 36.50      | -L     | Vandal Proof Dome             | 82.00      |
| -6      | Vandal Proof                                | 49.25      | -R     | 2" External Water Dam         | 82.00      |
| -12     | Hot Dipped Galvanized                       | 177.00     | -SO    | Side Outlet                   | 273.50     |
| -B      | Sump Receiver                               | 117.50     | -W     | Adjustable Internal Water Dam | 481.00     |
| -D      | UnderdeckClamp                              | 80.25      |        |                               |            |



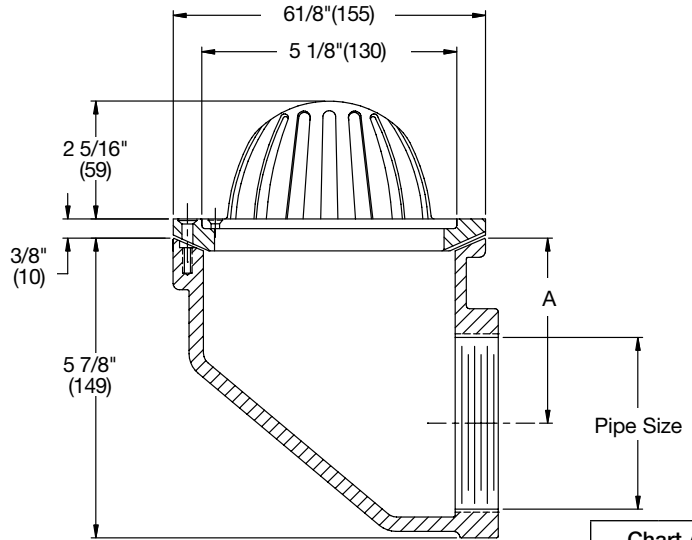
Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Balcony Drains

**RD-230**

**Side Outlet Balcony Drain**

| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-232, 3, 4 | 2, 3, 4"    | 10        | \$801.87   |

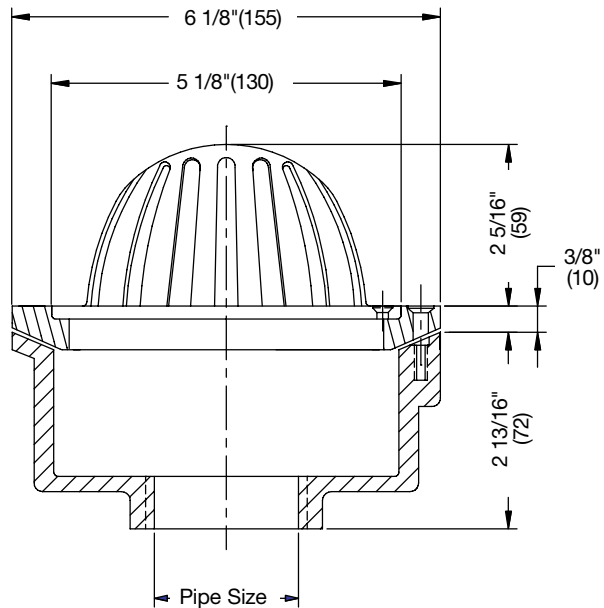


| Size | A       |
|------|---------|
| 2"   | 4 5/16" |
| 3"   | 3 5/8"  |
| 4"   | 3 1/8"  |

**RD-240**

**Bottom Outlet Balcony Drain**

| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-242, 3, 4 | 2, 3, 4"    | 7         | \$801.66   |



### Options for RD-230/240 Series:

| Suffix | Description                      | List Price |
|--------|----------------------------------|------------|
| -6     | Vandal Proof                     | \$73.00    |
| -12    | Galvanized Body & Flashing Clamp | 177.00     |
| -14    | Flat Grate                       | No Add     |
| -83    | SSMesh Covered Dome              | 608.50     |

Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

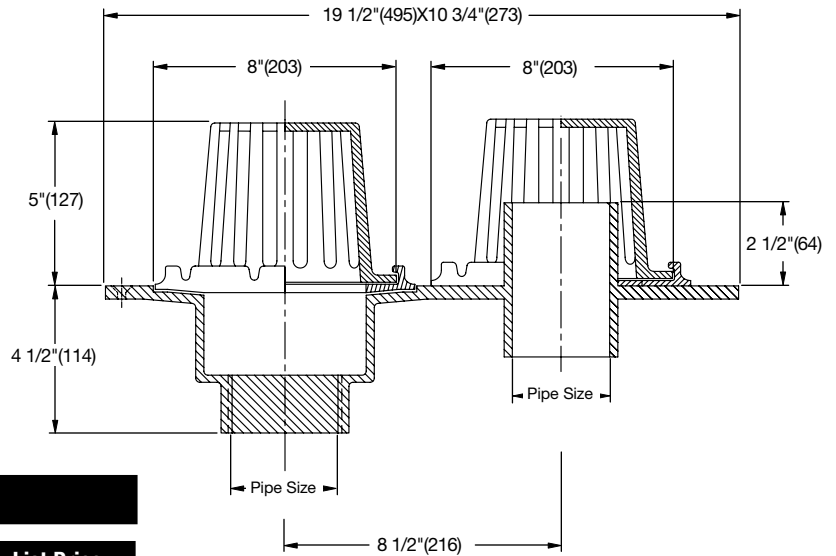


# Combination Roof Drains

**RD-250**

**Flanged Cast Iron Roof Drain/Overflow System**

| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-252, 3, 4 | 2, 3, 4"    | 28        | \$CF**     |



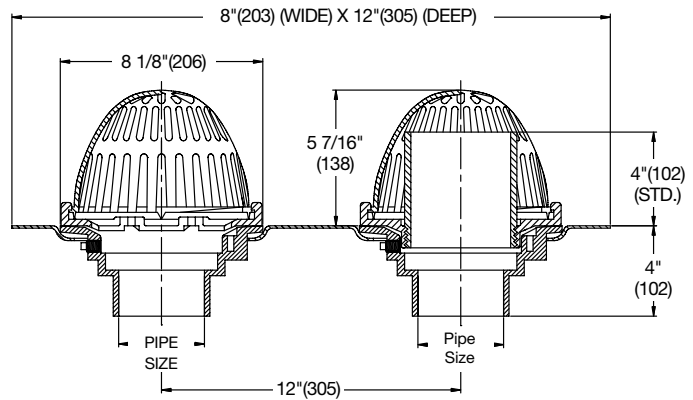
**Options for RD-250 Series:**

| Suffix | Description  | List Price |
|--------|--------------|------------|
| -L     | Vandal Proof | \$82.00    |

**RD-260**

**Roof Drain/Overflow System**

| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-262, 3, 4 | 2, 3, 4"    | 36        | \$864.11   |



**Options for RD-260 Series:**

| Suffix | Description                      | List Price | Suffix | Description           | List Price |
|--------|----------------------------------|------------|--------|-----------------------|------------|
| None   | No Hub                           | No Add     | -K     | Ductile Iron Dome     | \$240.50   |
| P      | Push-On Outlet                   | \$49.25    | -K80   | Aluminum Dome         | 240.50     |
| -T     | Threaded Outlet                  | 204.50     | -K83   | SS Mesh Covered Dome  | 765.50     |
| -60    | PVC Body w/Socket Outlet         | 36.50      | -L     | Vandal Proof Dome     | 321.00     |
| -61    | ABS Body w/Socket Outlet         | 36.50      | -R     | 2" External Water Dam | 394.00     |
| -12    | Galvanized Body & Flashing Clamp | 177.00     |        |                       |            |
| -D     | UnderdeckClamp                   | 328.00     |        |                       |            |



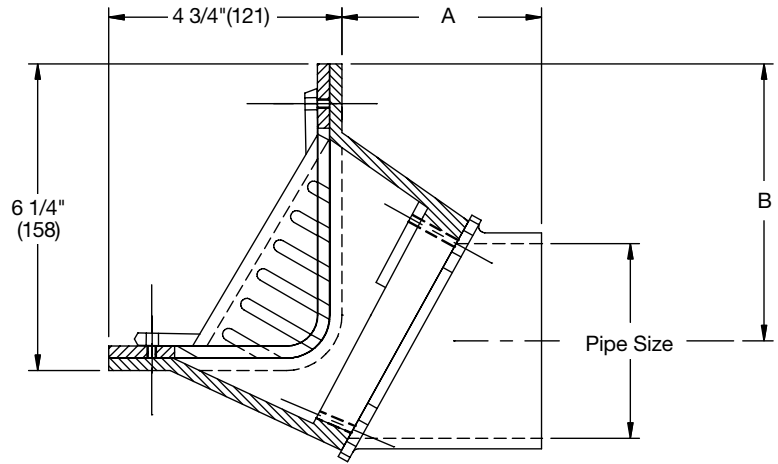
Consult factory for all applications outside of listed parameters. Prices do not include applicable taxes.

# Scupper Drains

**RD-270**

**Scupper Drain with Angle Grate**

| Model Number   | Outlet Size | WT., lbs. | List Price |
|----------------|-------------|-----------|------------|
| RD-272, 3, 4   | 2, 3, 4"    | 20        | \$808.95   |
| RD-276         | 6"          | 22        | 2,013.72   |
| RD-272, 3, 4-1 | 2, 3, 4"    | 20        | \$1,193.75 |
| RD-276-1       | 6"          | 22        | 2,514.20   |

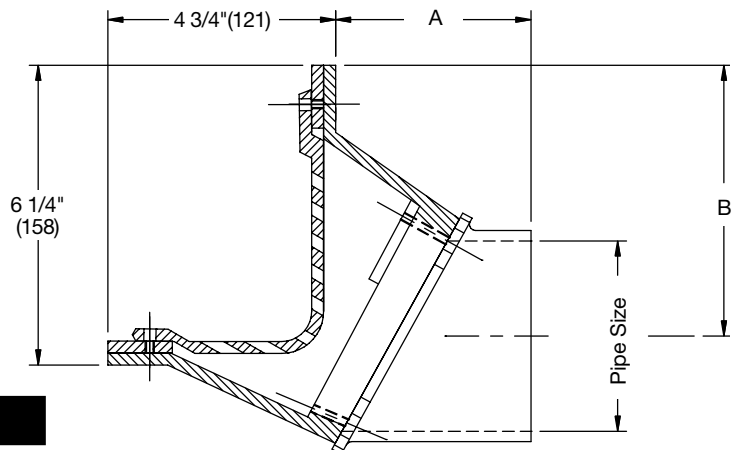


| RD-270 | NH     |        | THD    |        |
|--------|--------|--------|--------|--------|
|        | A      | B      | A      | B      |
| 2"     | 5-1/8" | 6-1/2" | 2-3/4" | 6"     |
| 3"     | 4-1/2" | 5-3/4" | 2-3/4" | 5-3/8" |
| 4"     | 4"     | 5-1/8" | 2-3/4" | 4-7/8" |

**RD-290**

**Scupper Drain with Flat Grate**

| Model Number   | Outlet Size | WT., lbs. | List Price |
|----------------|-------------|-----------|------------|
| RD-292, 3, 4   | 2, 3, 4,"   | 24        | \$764.10   |
| RD-296         | 6"          | 26        | 2,062.51   |
| RD-292, 3, 4-1 | 2, 3, 4,"   | 24        | \$1,350.60 |
| RD-296-1       | 6"          | 26        | CF**       |



**Options for RD-270 / RD-290 Series:**

| Suffix | Description                     | List Price |
|--------|---------------------------------|------------|
| -A     | 45 Degree Outlet (NH Only)      | No Add     |
| -T     | Threaded Outlet (2, 3, 4" Only) | No Add     |
| -1     | Nickel Bronze Grate & Frame     | \$966.00   |
| -6     | Vandal Proof Grate              | 73.00      |
| -12    | Galvanized                      | 177.00     |

| RD-290 | NH     |        | THD    |        |
|--------|--------|--------|--------|--------|
|        | A      | B      | A      | B      |
| 2"     | 5-1/8" | 6-1/2" | 2-3/4" | 6"     |
| 3"     | 4-1/2" | 5-3/4" | 2-3/4" | 5-3/8" |
| 4"     | 4"     | 5-1/8" | 2-3/4" | 4-7/8" |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

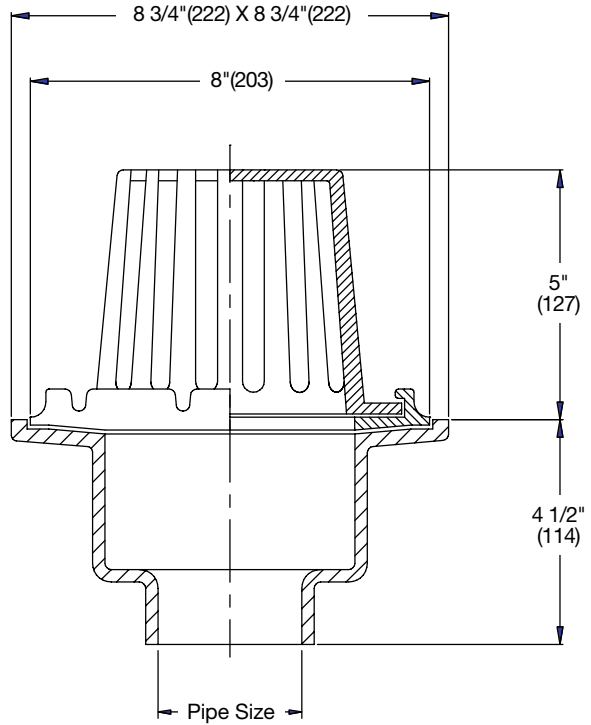


# Small Area Roof Drains

**RD-280**

**Flanged Cast Iron Roof Drain**

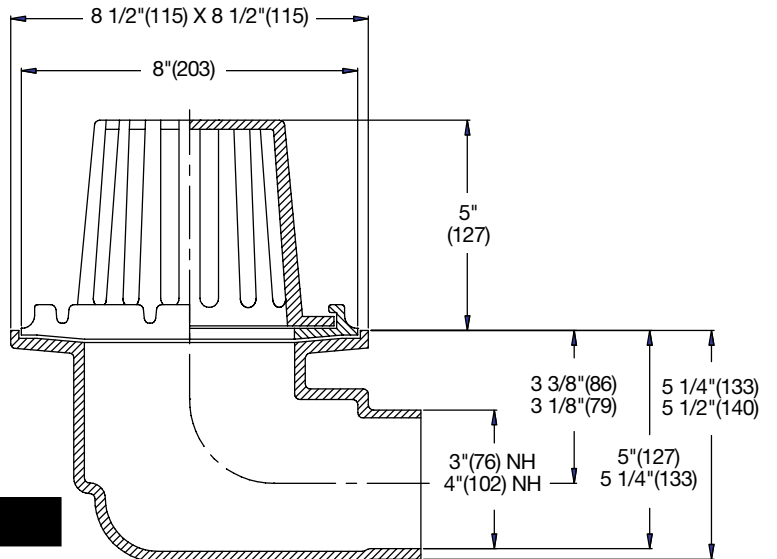
| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-283, 4    | 3, 4"       | 16        | \$523.62   |



**RD-280-SO**

**Flanged Cast Iron Roof Drain with Side Outlet**

| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-283, 4-SO | 3, 4"       | 17        | \$614.86   |



**Options for RD-270 / RD-290 Series:**

| Suffix | Description           | List Price |
|--------|-----------------------|------------|
| -L     | Vandal Proof Dome     | No Add     |
| -R     | 2" External Water Dam | \$222.50   |



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

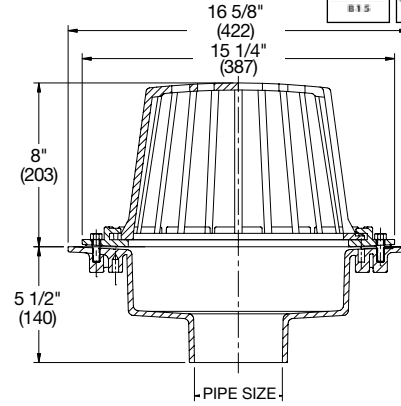
# High Volume Roof Drains

## RD-300

### High Volume Roof Drain



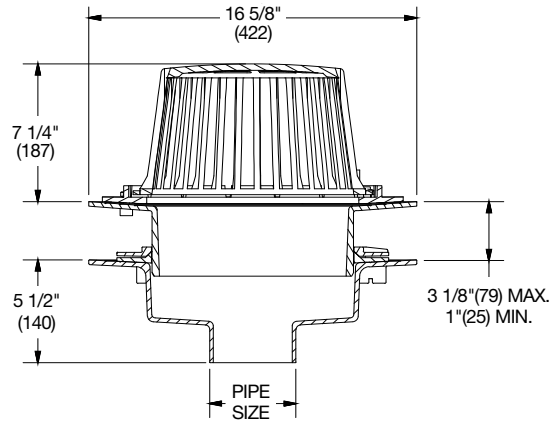
| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-302, 3, 4 | 2, 3, 4"    | 30        | \$801.27   |
| RD-305, 6    | 5, 6"       | 30        | 669.74     |
| RD-308, 10   | 8, 10"      | 30        | 672.08     |



## RD-300-AC

### Adjustable Extension Compression Seal Roof Drain

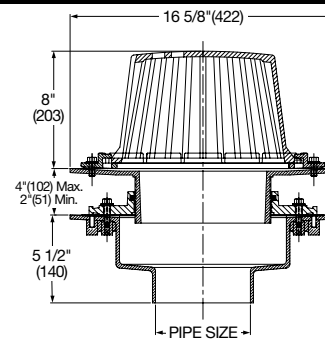
| Model Number    | Outlet Size | WT., lbs. | List Price |
|-----------------|-------------|-----------|------------|
| RD-302, 3, 4-AC | 2, 3, 4"    | 63        | \$801.27   |
| RD-305, 6-AC    | 5, 6"       | 63        | 669.74     |
| RD-308, 10-AC   | 8, 10"      | 63        | 672.08     |



## RD-300-AE

### Adjustable Extension Threaded Seal Roof Drain

| Model Number    | Outlet Size | WT., lbs. | List Price |
|-----------------|-------------|-----------|------------|
| RD-302, 3, 4-AE | 2, 3, 4"    | 63        | \$801.27   |
| RD-305, 6-AE    | 5, 6"       | 63        | 669.74     |
| RD-308, 10-AE   | 8, 10"      | 63        | 672.08     |



### Options for RD-300 Series:

| Suffix | Description                                  | List Price | Suffix | Description                     | List Price |
|--------|--|------------|--------|---------------------------------|------------|
| P      | Push-On Available on 3, 4, & 6" Outlets Only | \$49.25    | -K40   | Ductile Iron Low Dome (4" High) | \$273.50   |
| -12    | Galvanized Body                              | 177.00     | -K80   | Aluminum Dome                   | 115.00     |
| -B     | Sump Receiver                                | 297.00     | -K81   | Rough Bronze Dome               | 1,064.00   |
| -D     | UnderdeckClamp                               | 182.50     | -K83   | SS Mesh Covered Aluminum Dome   | 966.00     |
| -F     | Deck Flange/Adj. Extension                   | 733.00     | -L     | Vandal Proof Dome               | 160.50     |
| -GSS   | Stainless Steel Ballast Guard                | 548.50     | -R     | 2" External Water Dam           | 197.00     |
| -K     | Ductile Iron Dome                            | 115.00     | -W     | 4" Internal Water Dam           | 242.50     |
| -K13   | Galvanized Dome                              | 736.50     |        |                                 |            |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

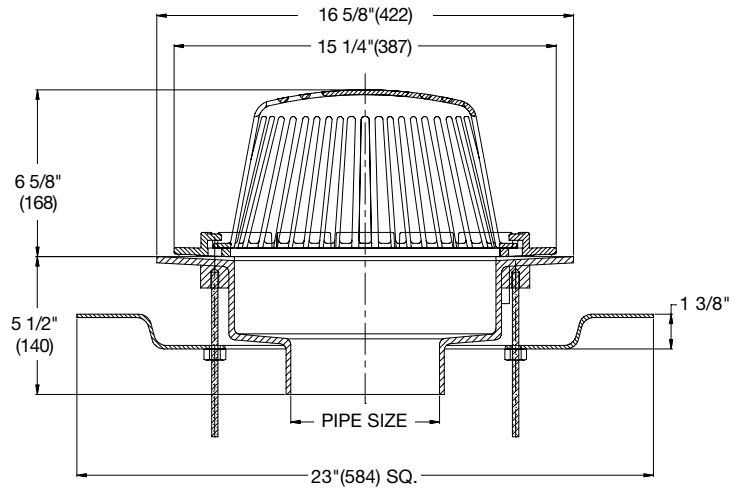


# High Volume Roof Drains

## RD-300-F

### Roof Drain with Adjustable Extension Flange

| Model Number   | Outlet Size | WT., lbs. | List Price |
|----------------|-------------|-----------|------------|
| RD-302, 3, 4-F | 2, 3, 4,"   | 45        | \$1,533.31 |
| RD-305, 6-F    | 5, 6"       | 45        | 1,401.78   |
| RD-308, 10-F   | 8, 10"      | 45        | 1,404.12   |

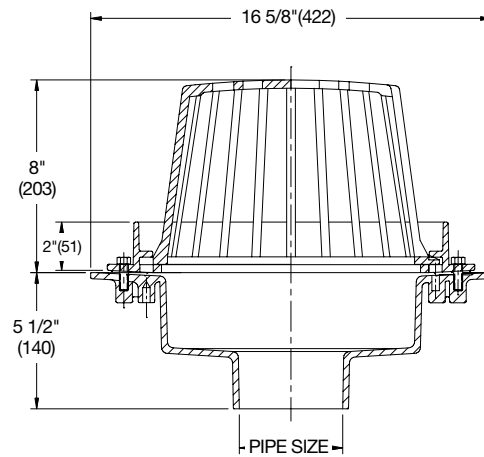


## RD-300-R

### Overflow Roof Drain with 2" External Water Dam



| Model Number   | Outlet Size | WT., lbs. | List Price |
|----------------|-------------|-----------|------------|
| RD-302, 3, 4-R | 2, 3, 4"    | 32        | \$865.21   |
| RD-305, 6-R    | 5, 6"       | 32        | 733.68     |
| RD-308, 10-R   | 8, 10"      | 32        | 736.02     |



## RD-300-W

### Overflow Roof Drain with 2" Internal Standpipe

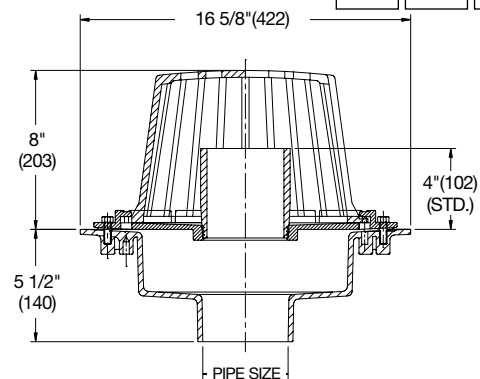


| Model Number   | Outlet Size | WT., lbs. | List Price |
|----------------|-------------|-----------|------------|
| RD-302, 3, 4-W | 2, 3, 4"    | 37        | \$993.80   |
| RD-305, 6-W    | 5, 6"       | 37        | 862.27     |
| RD-308, 10-W   | 8, 10"      | 37        | 864.61     |



#### Options for RD-300 Series:

(For Options see page 140.)



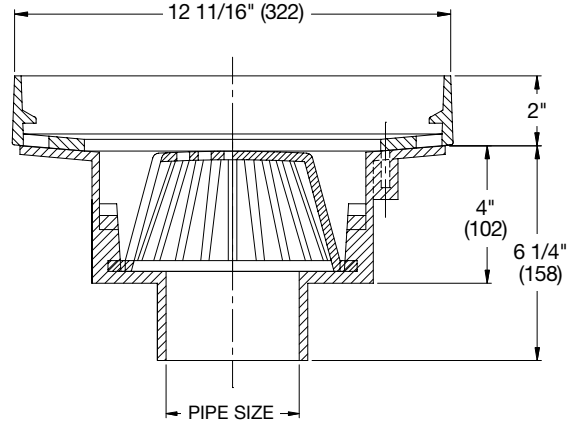
Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Deck Receptor Drain

**RD-400**

**12" Diameter Deck Receptor Drain**

| Model Number          | Outlet Size       | WT.,Lbs. | List Price |
|-----------------------|-------------------|----------|------------|
| RD-402, 3, 4, 5, 6, 8 | 2, 3, 4, 5, 6, 8" | 28       | \$829.47   |



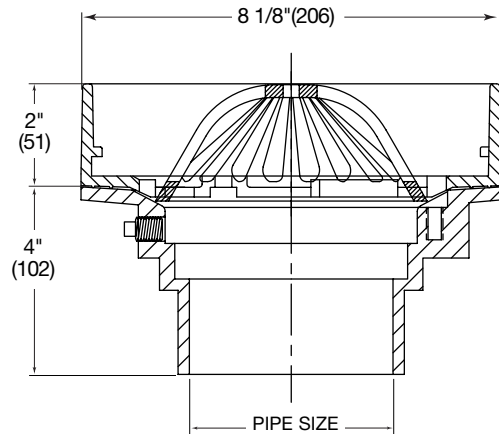
**Options for RD-400 Series:**

| Suffix | Description         | List Price | Suffix | Description                | List Price |
|--------|---------------------|------------|--------|----------------------------|------------|
| None   | No Hub              | No Add     | -B     | Sump Receiver              | \$824.50   |
| -P     | Push-On Outlet      | \$51.25    | -D     | Underdeck Clamp            | 306.50     |
| -T     | Threaded Outlet     | 102.50     | -F     | Deck Flange/Adj. Extension | 129.00     |
| -X     | Inside Caulk Outlet | No Add     | -L     | Vandal Proof Dome          | 1,192.00   |
| -12    | Galvanized          | 536.00     |        |                            |            |

**RD-410**

**8" Diameter Deck Receptor Drain**

| Model Number    | Outlet Size | WT., Lbs. | List Price |
|-----------------|-------------|-----------|------------|
| RD-412, 3, 4, 6 | 2, 3, 4, 6" | 15        | \$444.71   |



**Options for RD-410 Series:**

| Suffix | Description                      | List Price | Suffix | Description                | List Price |
|--------|----------------------------------|------------|--------|----------------------------|------------|
| None   | No Hub                           | No Add     | -D     | Underdeck Clamp            | \$80.25    |
| -P     | Push-On Outlet                   | \$51.25    | -F     | Deck Flange/Adj. Extension | 733.00     |
| -T     | Threaded Outlet                  | 102.50     | -L     | Vandal Proof Dome          | 82.00      |
| -12    | Galvanized Body & Flashing Clamp | 177.00     | -SO    | Side Outlet                | 273.50     |
| -B     | Sump Receiver                    | 1,274.00   |        |                            |            |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



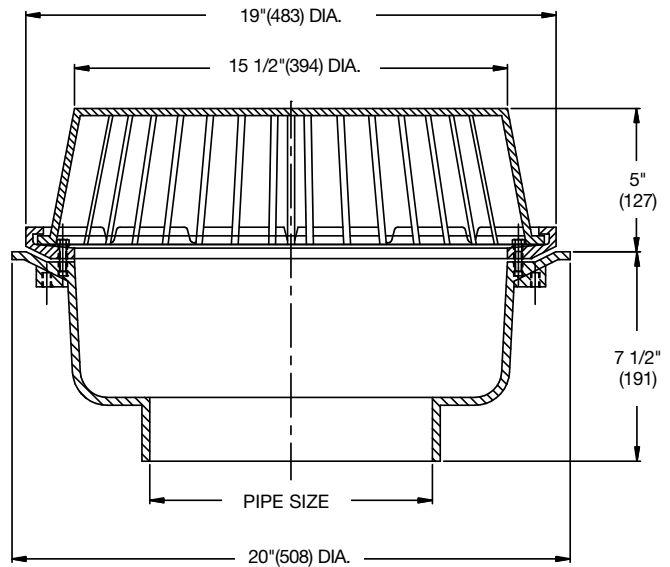


# Specialty Roof Drains

**RD-500**

**Super Flow Roof Drain**

| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-510, 12   | 10", 12"    | 52        | \$3,086.82 |



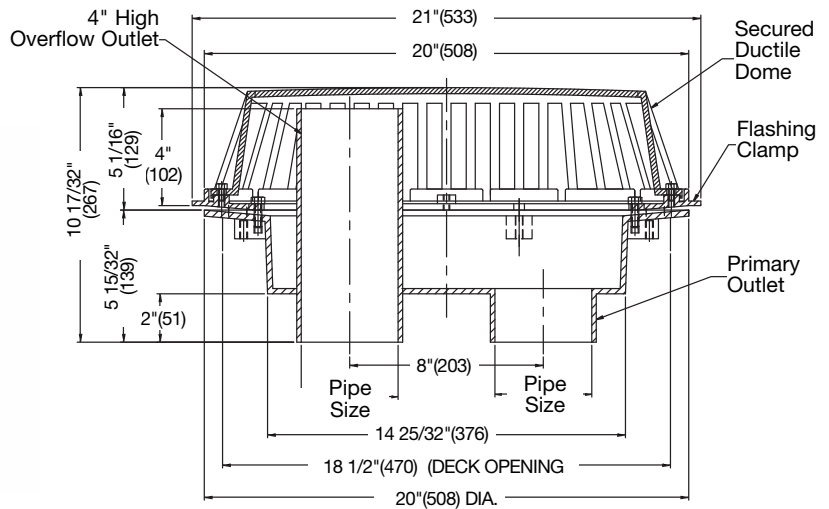
**Options for RD-500 Series:**

| Suffix | Description                | List Price |
|--------|----------------------------|------------|
| -D     | Underdeck Clamp            | \$266.50   |
| -F     | Deck Flange/Adj. Extension | 1,112.00   |
| -L     | Vandal Proof Dome          | 160.50     |
| -R     | 2" External Water Dam      | 435.50     |
| -W     | 2" Internal Water Dam      | 721.50     |

**RD-700**

**Dual Outlet Roof Drain/Overflow**

| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-703, 4    | 3, 4"       | 49        | \$1,412.03 |
| RD-705, 6    | 5, 6"       | 49        | CF**       |



**Options for RD-700 Series:**

| Suffix | Description                | List Price |
|--------|----------------------------|------------|
| -CT    | Overflow Through Dome      | No Add     |
| -D     | Underdeck Clamp            | \$273.50   |
| -F     | Deck Flange/Adj. Extension | 733.00     |
| -GSS   | 4" High Gravel Guard       | 971.50     |
| -K80   | Aluminum Dome              | No Add     |
| -K83   | SS Mesh Covered Dome       | 570.50     |
| -L     | Vandal Proof Dome          | 160.50     |
| -W2    | 2" High Overflow           | No Add     |



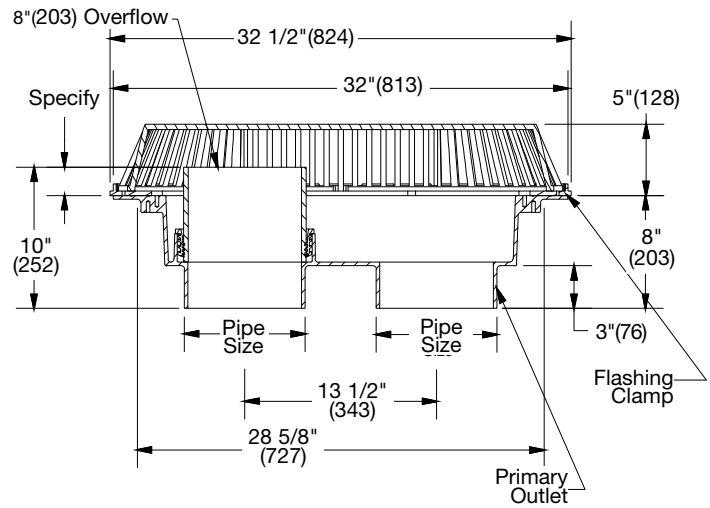
Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Roof Drains

**RD-800**

**Dual Outlet Large Capacity Roof Drain/Overflow**

| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-808       | 8"          | 115       | \$5,447.21 |
| RD-810       | 10"         | 115       | CF**       |



### Options for RD-800 Series:

| Suffix | Description                | List Price |
|--------|----------------------------|------------|
| -CT    | Overflow Through Dome      | No Add     |
| -D     | Underdeck Clamp            | \$228.50   |
| -F     | Deck Flange/Adj. Extension | 733.00     |
| -L     | Vandal Proof Dome          | 197.00     |
| -W2    | 2" High Overflow           | No Add     |

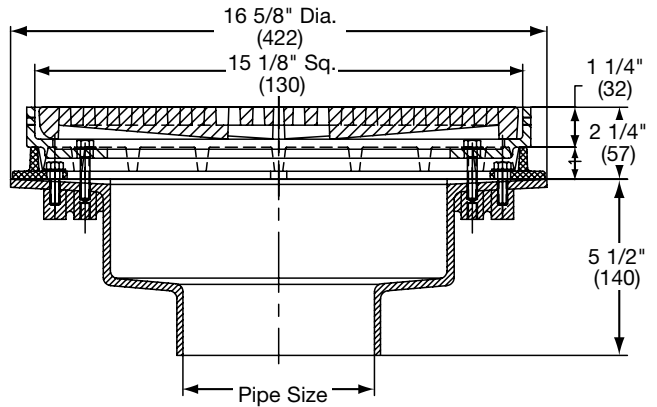


**RD-800-CT**

# Roof Drains

## RD-300-CP15 Roof Drain with 15" x 15" Promenade Top

| Model Number          | Outlet Size  | WT., lbs. | Grate         | List Price |
|-----------------------|--------------|-----------|---------------|------------|
| RD-302, 3, 4-CP15,    | 2, 3, 4, 10" | 110       | ductile iron  | \$2,184.22 |
| RD-302, 3, 4-CP15-101 | 2, 3, 4, 10" | 110       | nickel bronze | 6,866.99   |
| RD-305, 6,8-CP15      | 5, 6, 8, 10" | 110       | ductile iron  | 2,047.49   |
| RD-305, 6,8-CP15-101  | 5, 6, 8, 10" | 110       | nickel bronze | 6,787.79   |

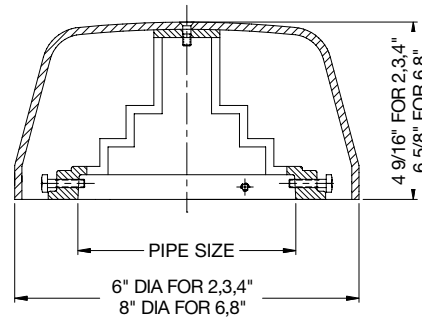


### Options for RD-300-CP15 Series:

| Suffix | Description                                  | List Price | Suffix | Description                     | List Price |
|--------|--|------------|--------|---------------------------------|------------|
| P      | Push-On Available on 3, 4, & 6" Outlets Only | \$49.25    | -K40   | Ductile Iron Low Dome (4" High) | \$273.50   |
| -12    | Galvanized Body                              | 177.00     | -K80   | Aluminum Dome                   | 115.00     |
| -B     | Sump Receiver                                | 297.00     | -K81   | Rough Bronze Dome               | 1,064.00   |
| -D     | Underdeck Clamp                              | 182.50     | -K83   | SS Mesh Covered Aluminum Dome   | 966.00     |
| -F     | Deck Flange/Adj. Extension                   | 733.00     | -L     | Vandal Proof Dome               | 160.50     |
| -GSS   | Stainless Steel Ballast Guard                | 548.50     | -R     | 2" External Water Dam           | 197.00     |
| -K     | Ductile Iron Dome                            | 115.00     | -W     | 4" Internal Water Dam           | 242.50     |
| -K13   | Galvanized Dome                              | 736.50     |        |                                 |            |

## RD-680-VC Vent Cap

| Model Number    | Outlet Size | WT., lbs. | List Price |
|-----------------|-------------|-----------|------------|
| RD-682, 3, 4-VC | 2, 3, 4"    | 7         | \$912.82   |
| RD-686-VC       | 6"          | 15        | 1,159.13   |
| RD-688-VC       | 8"          | 15        | 1,159.13   |



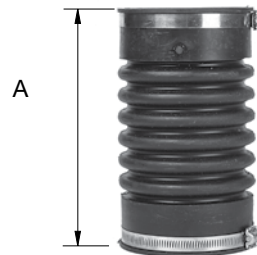
### Options for RD-680-VC Series:

| Suffix | Description | List Price |
|--------|-------------|------------|
| -12    | Galvanized  | \$149.50   |

## RD-900 Neoprene Expansion Coupling

| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-902       | 2"          | 1         | \$310.04   |
| RD-903       | 3"          | 1         | 511.23     |
| RD-904       | 4"          | 2         | 498.08     |

| Chart A   |        |
|-----------|--------|
| Pipe Size | Height |
| 2"        | 7-1/8" |
| 3"        | 8-1/8" |
| 4"        | 8-5/8" |



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Downspout Nozzles

**RD-940**

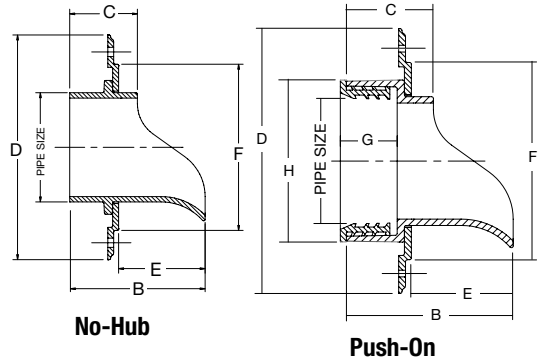
**Downspout Nozzle**

| Model Number  | Outlet Size | WT., lbs. | List Price |
|---------------|-------------|-----------|------------|
| RD-942, 3, 4" | 2, 3, 4"    | 12        | \$CF**     |
| RD-945, 6     | 5, 6"       | 18        | 364.81     |
| RD-948        | 8"          | 22        | 2,364.62   |
| RD-9410-NH    | 10"         | 25        | 3,089.69   |
| RD-9412-NH    | 12"         | 29        | 4,156.31   |



## Options for RD-940 Series:

| Suffix | Description                              | List Price |
|--------|--|------------|
| -83    | SS Bird Screen                           | \$711.00   |
| -NH    | No Hub                                   | No Add     |
| -P     | Push-On Connection<br>(3, 4, 6, 8" Only) | No Add     |



| IPS Threaded Connection |           |             |            |              |            |              |
|-------------------------|-----------|-------------|------------|--------------|------------|--------------|
| Model                   | Pipe Size | B           | C          | D            | E          | F            |
| RD-942                  | 2"(51)    | 5-1/4"(133) | 2-1/4"(57) | 6-3/4"       | 3-1/2"(89) | 4-3/4"(121)  |
| RD-943                  | 3"(76)    | 5-1/4"(133) | 2-1/2"(63) | 8-1/4"(210)  | 3-1/2"(89) | 6-3/8"(162)  |
| RD-944                  | 4"(102)   | 5-1/4"(133) | 2-3/4"(70) | 9-1/8"(232)  | 3-1/2"(89) | 7"(178)      |
| RD-946                  | 6"(152)   | 5-1/4"(133) | 2-3/4"(70) | 11-3/8"(289) | 3-1/2"(89) | 9"(229)      |
| RD-948                  | 8"(200)   | 6"(152)     | 3"(76)     | 13-3/8"(340) | 4"(102)    | 10-3/4"(273) |

| No Hub Connection |           |             |            |              |            |               |
|-------------------|-----------|-------------|------------|--------------|------------|---------------|
| Model             | Pipe Size | B           | C          | D            | E          | F             |
| RD-942-NH         | 2"(51)    | 5-1/4"(133) | 2-1/4"(57) | 6-3/4"(171)  | 3-1/2"(89) | 4-3/4"(121)   |
| RD-943-NH         | 3"(76)    | 5-1/4"(133) | 2-1/2"(63) | 8-1/4"(210)  | 3-1/2"(89) | 6-3/8"(162)   |
| RD-944-NH         | 4"(102)   | 5-1/4"(133) | 2-3/4"(70) | 9-1/8"(232)  | 3-1/2"(89) | 7"(178)       |
| RD-945-NH         | 5"(130)   | 5-1/4"(133) | 3"(76)     | 9-1/4"(235)  | 3-3/8"(86) | 7-1/4"(184)   |
| RD-946-NH         | 6"(152)   | 5-1/4"(133) | 2-3/4"(70) | 11-3/8"(289) | 3-1/2"(89) | 9"(229)       |
| RD-948-NH         | 8"(200)   | 6"(152)     | 3"(76)     | 13-3/8"(340) | 4"(102)    | 10-3/4"(273)  |
| RD-9410-NH        | 10"(250)  | 5-3/4"(146) | 3"(76)     | 15-1/4"(387) | 3-3/4"(95) | 13-1/16"(332) |
| RD-9412-NH        | 12"(305)  | 6"(152)     | 3-1/4"(83) | 17-1/4"(438) | 3-3/4"(95) | 15-1/16"(383) |

| Push-On Connection |           |             |            |              |            |              |            |             |
|--------------------|-----------|-------------|------------|--------------|------------|--------------|------------|-------------|
| Model              | Pipe Size | B           | C          | D            | E          | F            | G          | H           |
| RD-943P            | 3"(76)    | 5-3/4"(146) | 3"(76)     | 8-1/4"(210)  | 3-1/2"(89) | 6"(152)      | 1-3/4"(44) | 4-3/4"(121) |
| RD-944P            | 4"(102)   | 5-3/4"(146) | 3"(676)    | 9-1/8"(232)  | 3-1/2"(89) | 6-3/4"(171)  | 1-3/4"(44) | 5-1/2"(140) |
| RD-946P            | 6"(152)   | 6"(152)     | 3-3/4"(95) | 11-3/8"(289) | 3-1/2"(89) | 8-3/4"(222)  | 2"(51)     | 7-3/4"(197) |
| RD-948P            | 8"(200)   | 7"(178)     | 4"(102)    | 13-3/8"(340) | 4"(102)    | 10-3/4"(273) | 2-1/2"(63) | 10"(254)    |

Consult factory for all applications outside of listed parameters.

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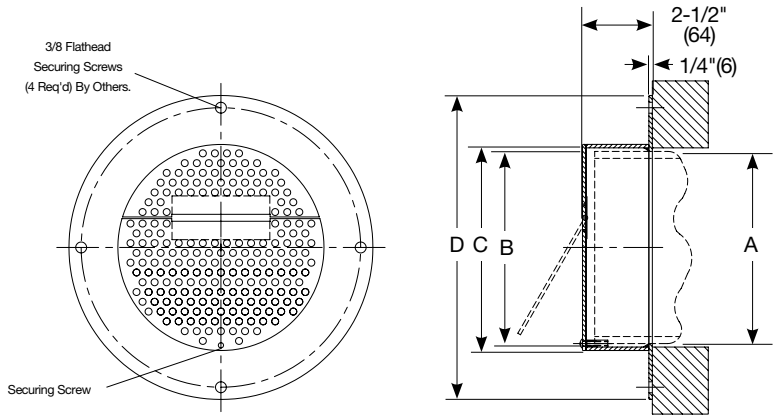


# Downspout Nozzles

**RD-950**

**Stainless Steel Downspout Cover**

| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-953,4     | 3, 4"       | 8         | \$3,760.41 |
| RD-956       | 6"          | 9         | 1,767.55   |
| RD-958       | 8"          | 10        | 2,178.00   |
| RD-9510      | 10"         | 12        | 4,199.06   |
| RD-9512      | 12"         | 14        | 3,706.37   |
| RD-9515      | 15"         | 16        | CF**       |
| RD-9516      | 16"         | 18        | CF**       |
| RD-9518      | 18"         | 20        | CF**       |



**Suffix Description List Price**

| Suffix | Description  | List Price |
|--------|--------------|------------|
| -6     | Vandal Proof | \$193.50   |

**RD-970/980**

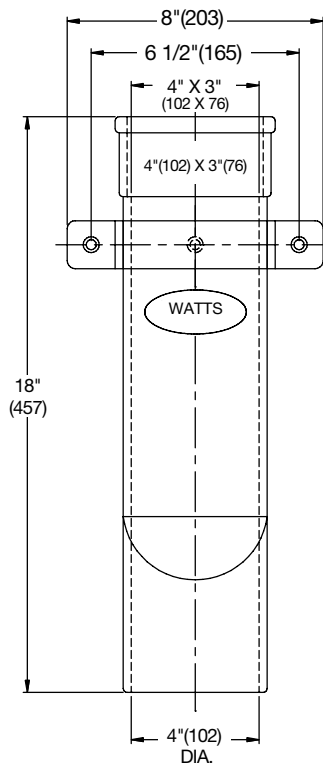
**Downspout Boot**

| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-970       | 4" x 3"     | 20        | \$656.04   |
| RD-980       | 5" x 4"     | 30        | 950.31     |

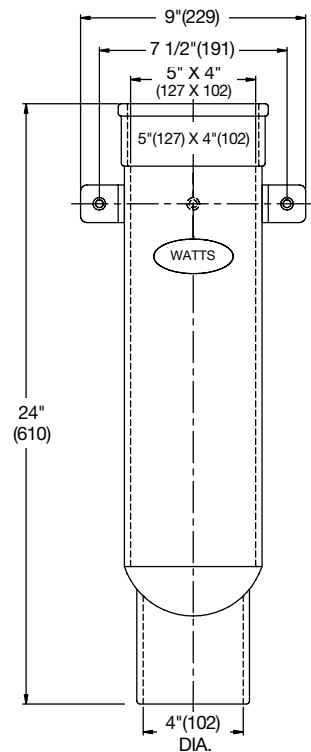


RD-970

RD-980



RD-970



RD-980



Consult factory for all applications outside of listed parameters. Prices do not include applicable taxes.

# Interceptors

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# Interceptors

## Pictorial Index



**WD SERIES**  
CSA Certified Grease Interceptor



**WD-L SERIES**  
CSA Certified Low Rough-in Grease Interceptor



**WD-A SERIES**  
Semi-Automatic Draw-Off Grease Interceptor



**WD-LA SERIES**  
Low Rough-in Semi-Automatic Grease Interceptor



**WD-H SERIES**  
Grease Interceptor with Access Housing



**WD-AH SERIES**  
Semi-Automatic Grease Interceptor w/Housing



**OI SERIES**  
Oil Interceptor



**OI-K SERIES**  
Large Capacity Oil Interceptor



**OI-ST SERIES**  
Oil Interceptor with Integral Storage Tank



**SI-742**  
Hair, Plaster & Sediment Interceptor



**SI-740-L**  
Sediment & Hair Interceptor



**SI-750**  
Cast Iron Hair Interceptor



**SI-750-TO**  
Chrome Plated Hair Interceptor



**SI-762**  
Bottom Access Hair, Plaster & Sediment Interceptor



**SI-770**  
Solids Interceptor



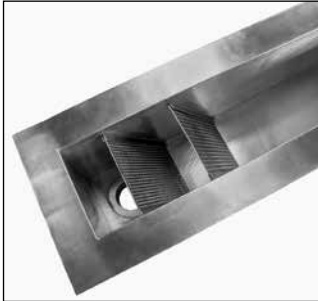
**LI-800-SERIES**  
Lint Interceptor



Consult factory for all applications outside of listed parameters.  
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# Interceptors

## Pictorial Index



**LI-LT Series**  
Stainless Steel  
Lint Trough



**SA-SERIES**  
Heavy Duty Sand &  
Sediment Interceptor



**ST-SERIES**  
Sand Trap



# Interceptors

## Recommendations

| Application                            | Product                  |
|--|--------------------------|
| Art rooms, dental labs, metal recovery | SI-742, SI-742-I, SI-762 |
| Cooking, food prep                     | WD Series, GI-K Series,  |
| Commercial laundry, washing machines   | LI-800 Series            |
| Dish cleaning sinks, dishwashers       | WD Series, GI-K Series   |
| Elevator pits, oil spill areas         | OI Series, OI-K Series   |
| Hair wash sinks                        | SI-750, SI-750-TO        |
| Sand & sediment run-off                | SA Series, ST Series     |
| Vehicle maintenance areas              | OI Series, OI-K Series   |

## Grease Interceptors

### Design & Operation

Watts hydro-mechanical grease interceptors are designed to remove fats, oils, and grease from waste water. Grease interceptors prevent greasy substances from entering plumbing systems, septic fields, and waste water treatment facilities, where they are difficult to process, and create environmental problems. Commonly specified in commercial kitchen and food processing areas, properly specified and maintained interceptors keep drainage systems free of problematic grease accumulations.

Grease interceptors will separate all lighter-than-water substances, collecting them inside the interceptor, above the static water line. Design criteria is regulated by plumbing code, and generally follows or references criteria set forth by The Plumbing & Drainage Institute (PDI), which tests and certifies standard capacity interceptors. The accepted industry and PDI Standard (PDI-G101) is for interceptors to maintain 90% separation efficiency, up to their rated grease retention capacity (in. lbs.).

The interception process is accomplished by slowing incoming effluent with a flow restrictor (supplied with the interceptor), and directing it through baffling. The slowing and baffling processes enable greasy substances to accumulate on top of the static water line, and treated water to exit into the drainage system, through a trap leg on the outlet side of the interceptor.

### Materials

#### Acid Resistant Epoxy Coated Steel (standard)

Interceptor bodies are 11 ga. cold rolled steel, with an oven cured, acid resistant baked grey epoxy coating, inside and out. Standard cover is epoxy coated 1/4" skid-proof checker plate steel, gasketed, and secured with hex head center bolt(s).

#### Stainless Steel (-SS)

11 gauge, in accordance with ASTM-351-Grade CF8 (Type 304) standard specification. Highly durable and resistant to corrosion.



# Interceptors

## Grease Interceptors

### Pipe Connections

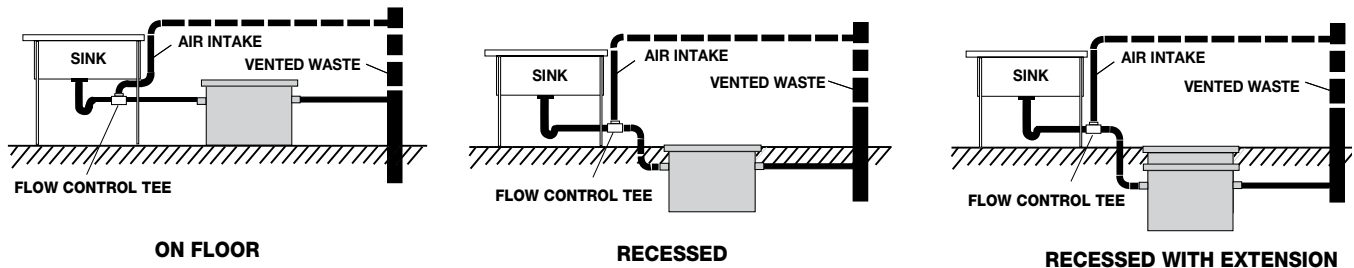
#### No hub (standard)

Butt connection using a no hub or neoprene coupling. Suitable for cast iron, plastic, and most other piping applications.

#### Threaded (-THD)

Female threaded outlet for connection to IPS threaded pipe.

### Standard Configurations



### Sizing

Grease interceptors are sized according to the rate of incoming flow, in gallons per minute (GPM). Associated with the incoming flow rate is an interceptor's capacity. The rated capacity, in lbs., is listed at twice the flow rate, in GPM. For example, a 10 GPM interceptor has a rated capacity of 20 lbs.

#### General Procedure:

##### To Determine the Flow Rate of Each Sink:

1. Calculate the capacity of the sink in cubic inches:  
 $\text{____ (LENGTH) x ____ (WIDTH) x ____ (DEPTH) = ____ CU. IN.}$
2. Convert the capacity from cubic inches to gallons per minute (GPM):  $\text{____ CU.IN} \div 231 = \text{____ GPM.}$
3. Adjust for displacement:  $\text{____ GPM x 0.75 = ____ GPM.}$
4. **Result is the flow rate required to drain the sink in one minute.\***

*\*Note: If drain down time is not critical, an interceptor with a lesser flow rate, up to half the calculated flow rate may be specified.*

#### Example:

Three compartment pot sink, each compartment 12" x 12" x 15"

1.  $12" \times 12" \times 15" = 2160 \text{ cu. in.} \times 3 \text{ comp.} = 6480 \text{ cu. in.}$
2.  $6480 \text{ cu. in.} \div 231 = 28 \text{ GPM.}$
3.  $28 \text{ GPM} \times 0.75 = 21 \text{ GPM.}$

A 20 GPM interceptor would permit the sink to drain in slightly more than one minute.

\*Discharge from spray hoods is determined by the flow rate of the hood.

#### Sizing For Multiple Fixtures:

1. Determine the flow rate for each fixture to be serviced by the interceptor.
2. Add together 100% of the largest flow rate, 50% of the second largest, and 25% of all others.
3. **Result is the recommended flow rate of the interceptor.**

#### Example:

1. Fixture A: 35 GPM Flow Rate  
Fixture B: 26 GPM Flow Rate  
Fixture C: 18 GPM Flow Rate  
Fixture D: 12 GPM Flow Rate
2.  $35 \text{ GPM (A) x 100\%} = 35 \text{ GPM}$   
 $26 \text{ GPM (B) x 50\%} = 13 \text{ GPM}$   
 $30 \text{ GPM (C + D) x 25\%} = 7.5 \text{ GPM}$

**Total Flow Rate = 55.5 GPM**

A 50 GPM interceptor is recommended for this installation.

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

**WATTS®**

# Interceptors

## Grease Interceptors

### Commonly Specified Options

#### **-B Sediment Bucket**

Epoxy coated steel, located inside the interceptor on the inlet side. Collects large food or other particles.

*Note: To the extent possible, solids should be collected prior to the interceptor, or at the fixture. Large particles approaching the interceptor can clog the flow restrictor, slowing drainage, and causing back-up difficulties. See Watts SI-770 Solids Interceptor.*

#### **-E Electronic**

Electronic level monitoring system for grease and oil interceptors. Includes monitoring panel, transmitter and measuring rods.

#### **-X Extension**

Bolt-on extension, increases the invert dimension to accommodate below grade piping. Extensions can be installed after an interceptor is piped in.

#### **-FC Flange & Clamp Device**

Specified for above grade installations to secure a waterproofing membrane.

#### **-HD Heavy Duty Traffic Cover**

Rated 1000 lbs. maximum safe live load.

#### **-XHDC Extra Heavy Duty Traffic Cover**

Rated 10,000 lbs. maximum safe live load.

*Note: A minimum 3" extension is required with the -HD option.*

#### **-O Inlet and Outlet other than Standard Size**

Flow is regulated by the flow restrictor, so mis-matched piping/interceptor connection sizes generally do not affect performance. Piping that does not match the interceptor connection size is typically accommodated with transition couplings or bushings.

### Installation Considerations

- a) Grease interceptors should be located as near as possible to the fixture(s) being served. Long piping runs between a fixture and the interceptor will accumulate grease, causing drainage and clogging problems.
- b) Grease interceptors may be floor mounted, under or beside the sink, or recessed in the floor to allow passage of foot traffic, or connect to below grade piping.
- c) Grease interceptors may be installed outside, making sure all piping is below the frost line (see Options - Extension).
- d) WD Series PDI Certified interceptors are supplied with an external flow restrictor, which must be installed between the last fixture serviced and the interceptor inlet. Other models may be supplied with internal flow control plates, located just inside the interceptor inlet. Check local plumbing codes for specific flow control requirements.
- e) Venting is recommended on both the inlet and outlet side of the interceptor, or as governed by local code. Units supplied with external flow controls are vented from the connection on the top of the flow control tee. Interceptor lids are gasketed, but venting is necessary to prevent odors from escaping through the lid.
- f) Grease interceptors do not replace fixture "traps". Fixtures must be trapped separately to prevent odors from the interceptor returning through the fixture drain.

### Maintenance & Cleaning

The capacity of the interceptor (lbs.), and the amount of incoming grease determine cleaning frequency. The amount of accumulated grease must be kept below the rated capacity of the interceptor to maintain proper separation efficiency.

Manual operation grease interceptors are cleaned by removing the cover (secured with hex bolts), and scooping out grease accumulated at the top of the interceptor. Grease can be removed manually, or pumped by outside service. Check local ordinances for proper grease disposal.

Semi-automatic interceptors are cleaned as follows:

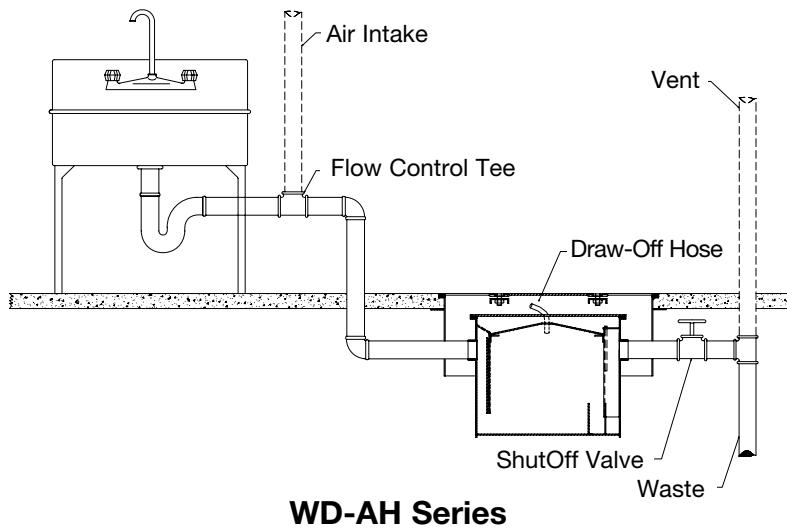
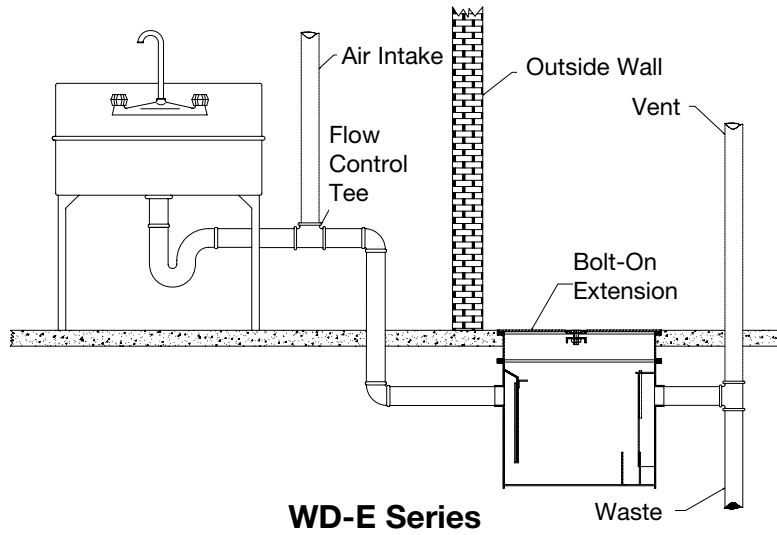
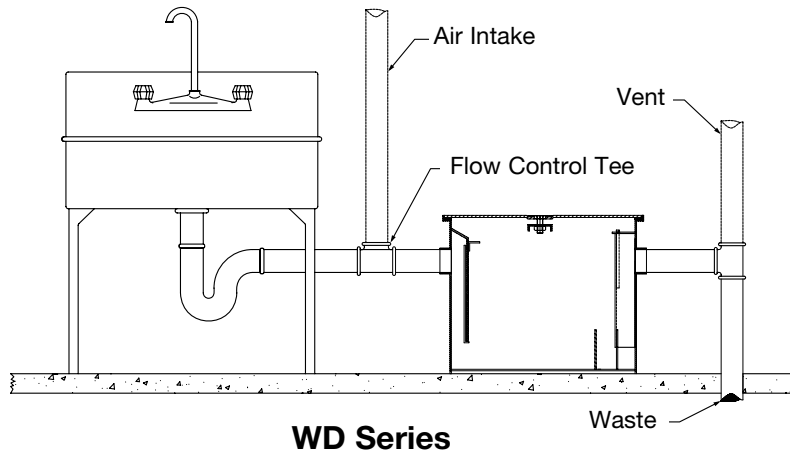
- 1) With the outlet valve open, run a full stream of hot water (140 degrees min.) through the interceptor for at least 2 minutes.
- 2) Allow unit to cool for approx. 3 minutes.
- 3) Close the valve on the outlet side of the interceptor.
- 4) Remove cap from top of interceptor and attach draw-off hose. Position hose to drain into waste receptacle.
- 5) Run hot water through the interceptor at a rate of 1.5-2.5 GPM.
- 6) The interceptor will fill, then force liquefied grease out through the top draw-off hose.
- 7) When clear water begins to discharge, the interceptor is clean.
- 8) Disconnect draw-off hose, and replace pipe cap.
- 9) Reopen valve on outlet. Interceptor is now ready for normal use.



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# Interceptors

## Typical Grease Interceptor Installations



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# Interceptors

## Oil Interceptors

### Design & Operation

Watts oil interceptors are designed to separate oily waste from interior drainage systems, or exterior run-off areas. Commonly specified in service stations, vehicle maintenance facilities, and parking areas, oil interceptors prevent environmentally damaging and potentially dangerous oily substances from entering septic fields, run-off areas, and waste water treatment facilities.

Similar to grease interceptors in operation, oil interceptors accumulate lighter-than-water oily waste inside the interceptor, above the static water line. Typically oil is drained automatically from the interceptor through a draw-off valve, and gravity fed to an approved underground oil storage tank (by others), for storage and eventual removal.

### Materials

#### Acid Resistant Epoxy Coated Steel (standard)

Interceptor bodies are 11 ga. cold rolled steel, with an oven cured, acid resistant baked grey epoxy coating, inside and out. Standard cover is epoxy coated 1/4" skid-proof checker plate steel, gasketed, and secured with hex head center bolt(s).

#### Stainless Steel (-SS)

11 gauge, in accordance with ASTM-351-Grade CF8 (Type 304) standard specification. Highly durable and resistant to corrosion.

### Pipe Connections

#### No Hub (standard)

Butt connection using a no hub or neoprene coupling. Suitable for cast iron, plastic, and most other piping applications.

#### Threaded (-THD)

Female threaded outlet for connection to IPS threaded pipe.

### Sizing

Oil interceptors are sized according to the incoming rate of flow, in gallons per minute (GPM).

For most indoor applications, the flow rate can be calculated by adding maximum discharge rates of all potential water sources. For example, a standard 3/4" hose connection will discharge approx. 10 GPM. A service garage with three hose connections would have a maximum potential flow rate of  $10 \text{ GPM} \times 3 = 30 \text{ GPM}$ .

For outdoor applications involving rainwater run-off, flow rate should be derived from local rainfall tables, and the slope characteristics of the area to be drained.

### Commonly Specified Options

#### -B Sediment Bucket

Epoxy coated steel, located inside the interceptor on the inlet side. Collects large food or other particles.

*Note: To the extent possible, solids should be collected prior to the interceptor, or at the fixture. Large particles approaching the interceptor can clog the flow restrictor, slowing drainage, and causing back-up difficulties. See Watts SI-770 Solids Interceptor.*

#### -E Electronic

Electronic level monitoring system for grease and oil interceptors. Includes monitoring panel, transmitter and measuring rods.

#### -X Extension

Bolt-on extension, increases the invert dimension to accommodate below grade piping. Extensions can be installed after an interceptor is piped in.

#### -FC Flange & Clamp Device

Specified for above grade installations to secure a waterproofing membrane.

#### -HD Heavy Duty Traffic Cover

Rated 1000 lbs. maximum safe live load.

#### -XHDC

Rated 10,000 lbs. maximum safe live load.

*Note: A minimum 3" extension is required with -HD option.*

#### -O Inlet and Outlet other than Standard Size

Flow is regulated by the flow restrictor, so mismatched piping/interceptor connection sizes generally do not affect performance. Piping that does not match the interceptor connection size is typically accommodated with transition couplings or bushings.



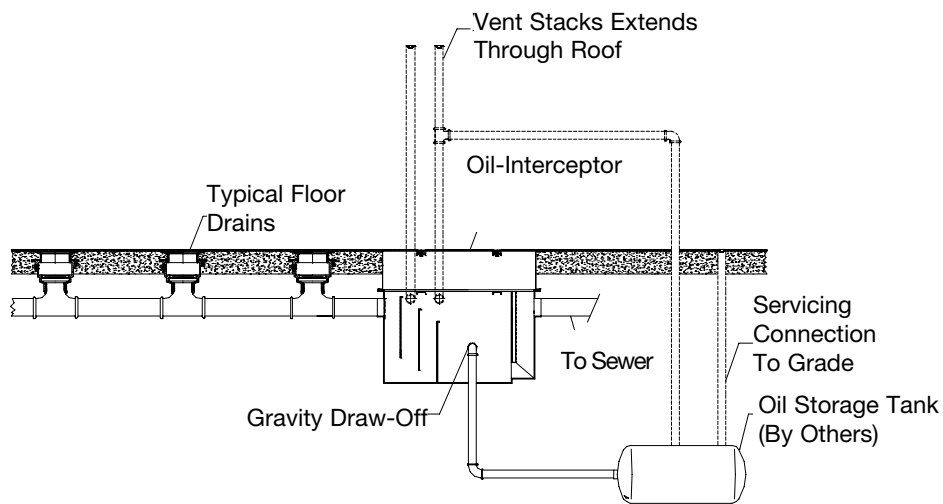
Consult factory for all applications outside of listed parameters.  
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# Interceptors

## Oil Interceptors

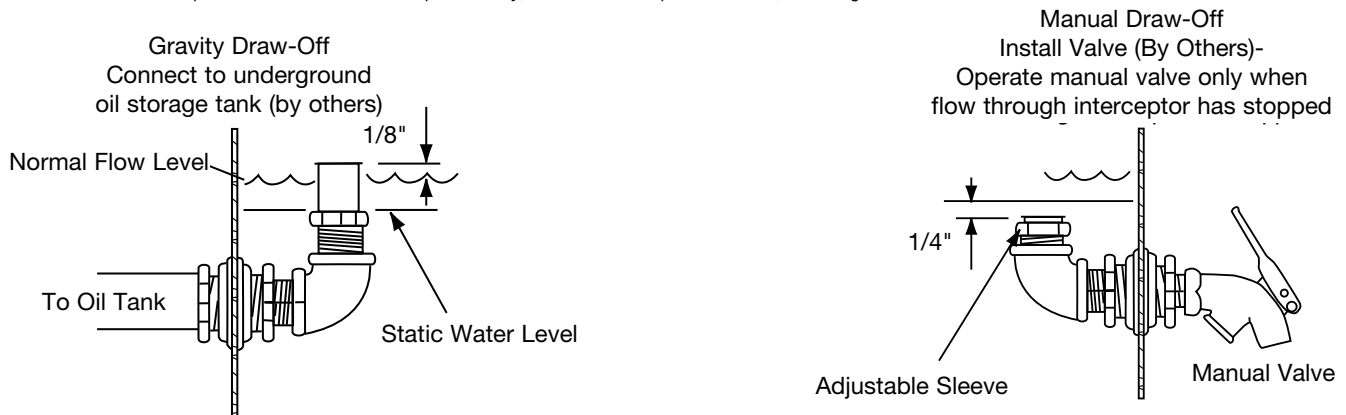
### Installation Considerations

- Oil interceptors may be floor mounted, but are typically recessed to connect to below grade piping from floor drains or trench drains.
- Check local ordinances for proper storage of accumulated oil. Typically provisions must be made to connect the oil interceptor to an approved underground oil storage tank (by others). Where conditions and codes permit, the oil interceptor may be housed inside a pit, and drained with a manual valve (by others) attached to the draw-off connection.
- Oil interceptors may be installed outside, making sure all piping is below the frost line (see Options - Extension).
- Vent lines must be attached to the dual no hub vent connections on the side of the interceptor. The lines should be terminated outside the building, 12" apart in elevation, to allow circulation and venting of heavier-than-air fumes. Inlet piping should also be vented through the roof, or as governed by local code.



### Maintenance & Cleaning

Oil interceptors are not designed to store oil for an extended period of time. Oil should be drawn off or drained into an approved oil storage tank, which would be serviced as required. If a manual valve is used, accumulated oil should be drained on a regular basis, depending upon the amount of incoming effluent. The oil interceptor lid should be removed periodically, and a visual inspection made, for sludge or other accumulations.



**\*\*Note:** Watts Oil Interceptors supplied standard with draw-off connection on right side and vent connections on left (when facing inlet).

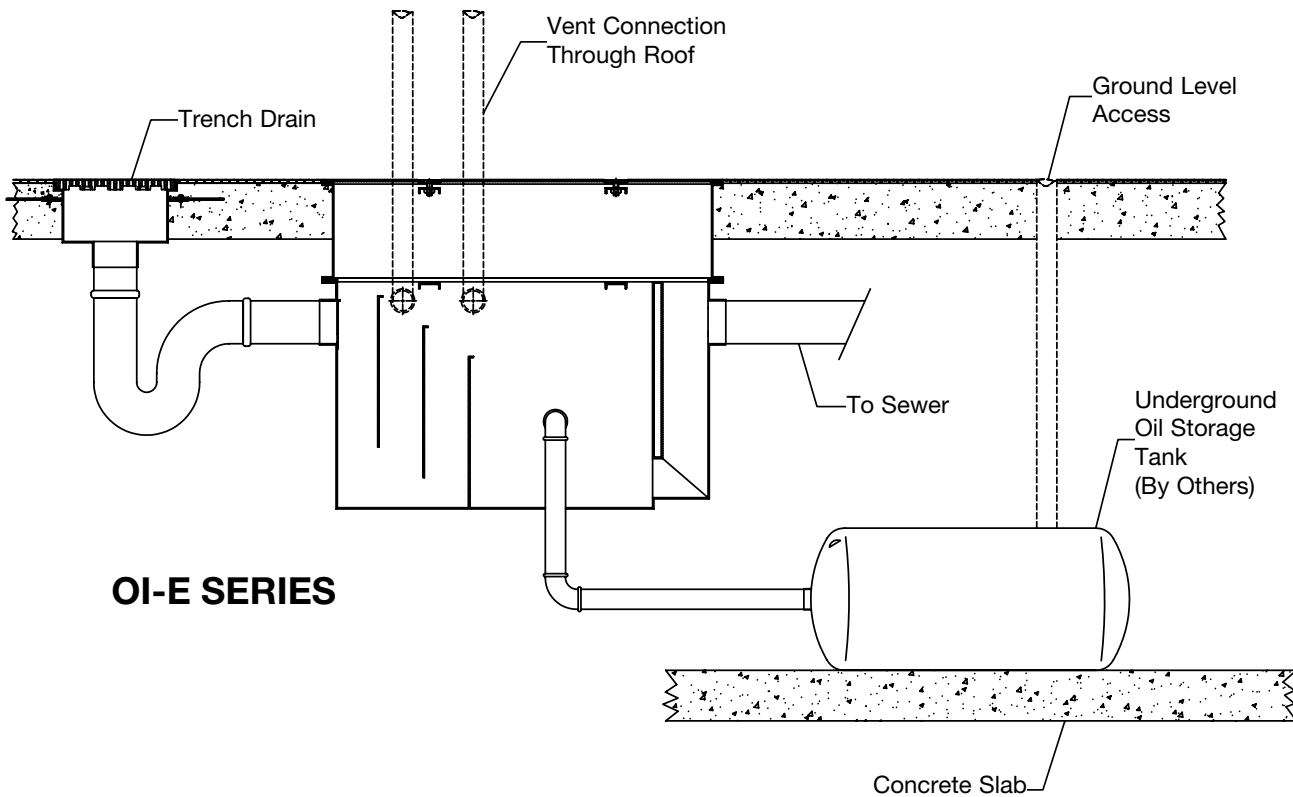
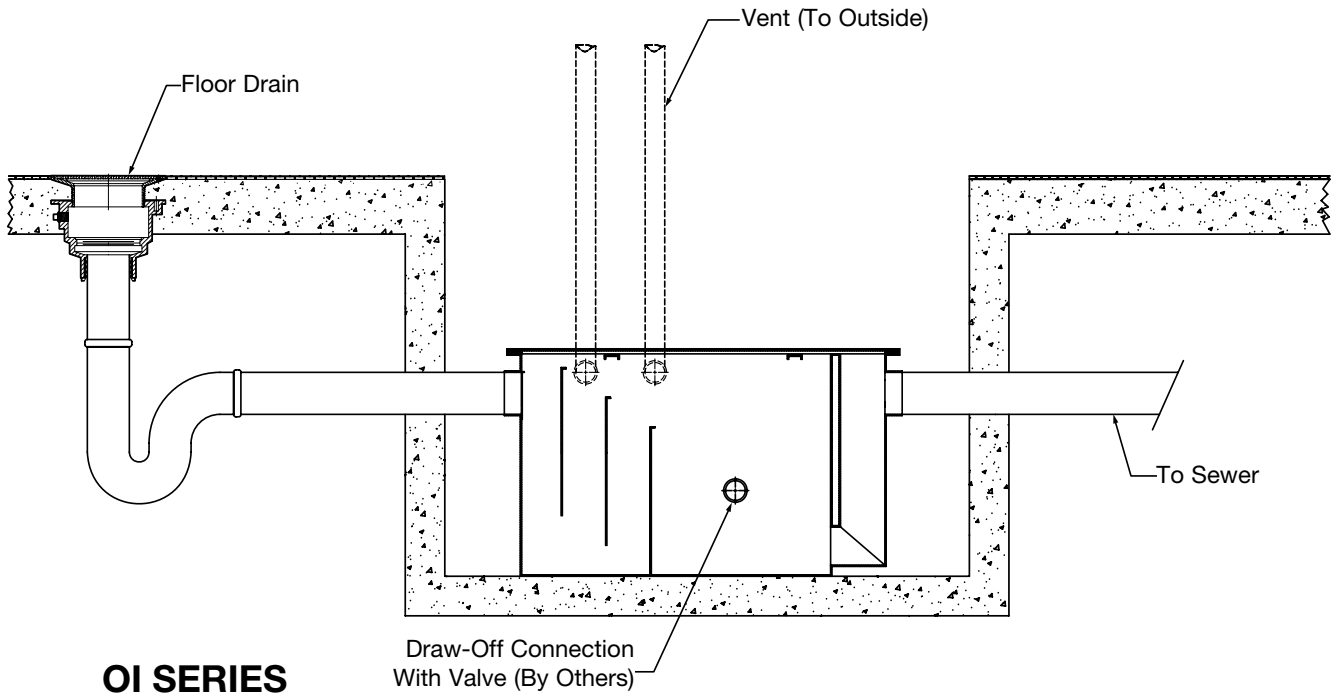
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# Interceptors

## Typical Oil Interceptor Installations



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# Interceptors

## Sediment Interceptors

### Design & Operation

Watts sediment interceptors are designed to separate heavier-than water sediment, or floating debris, such as hair or lint, from plumbing waste systems. Sediment interceptors trap debris with a combination of screening, and gravity separation for heavier solids and sediments. Debris accumulates inside the interceptor, and is periodically removed.

### Materials

#### Acid Resistant Epoxy Coated Steel (standard)

Interceptor bodies are 11 ga. cold rolled steel, with an oven cured, acid resistant baked grey epoxy coating, inside and out. Standard cover is epoxy coated 1/4" skid-proof checker plate steel, gasketed, and secured with hex head center bolt(s).

#### Stainless Steel (-SS)

11 gauge, in accordance with ASTM-351-Grade CF8 (Type 304) standard specification. Highly durable and resistant to corrosion.

### Pipe Connections

#### No Hub (standard)

Butt connection using a no hub or neoprene coupling. Suitable for cast iron, plastic, and most other piping applications.

#### Threaded (-THD)

Female threaded outlet for connection to IPS threaded pipe.

### Sizing

Sediment interceptors are sized either by rate of flow, or anticipated amount of debris. See specification pages for specific flow rates and sizing.

### Commonly Specified Options

#### -E Extension

Bolt-on extension, increases the invert dimension to accommodate below grade piping. Extensions can be installed after an interceptor is piped in.

#### -FC Flange & Clamp Device

Specified for above grade installations to secure a waterproofing membrane.

#### -HD Heavy Duty Traffic Cover

Rated 10,000 lbs. maximum safe live load.

*Note: A minimum 3" extension is required with -HD option.*

#### -O Inlet and Outlet other than Standard Size

Flow is regulated by the flow restrictor, so mismatched piping/interceptor connection sizes generally do not affect performance. Piping that does not match the interceptor connection size is typically accommodated with transition couplings or bushings.

#### -X Cover for Recessed Installation

Allows smaller floor mounted interceptors to be recessed in the floor.

### Installation Considerations

- Sediment interceptors should be located near as possible to the source of debris. Long piping runs prior to the interceptor will accumulate debris, causing drainage and clogging problems.
- Small capacity sediment interceptors are generally mounted under or beside the sink. Larger interceptors may be floor mounted, or recessed, to allow the passage of foot traffic, or connect to below grade discharge lines.
- Sediment interceptors typically contain a removable basket or screens. Be sure to allow enough clearance above the interceptor for cleaning.
- Sediment interceptors may be installed outside, making sure all piping is below the frost line (see Options - Extension).
- Venting of sediment interceptors is generally not required, however installers should reference local codes prior to installation.

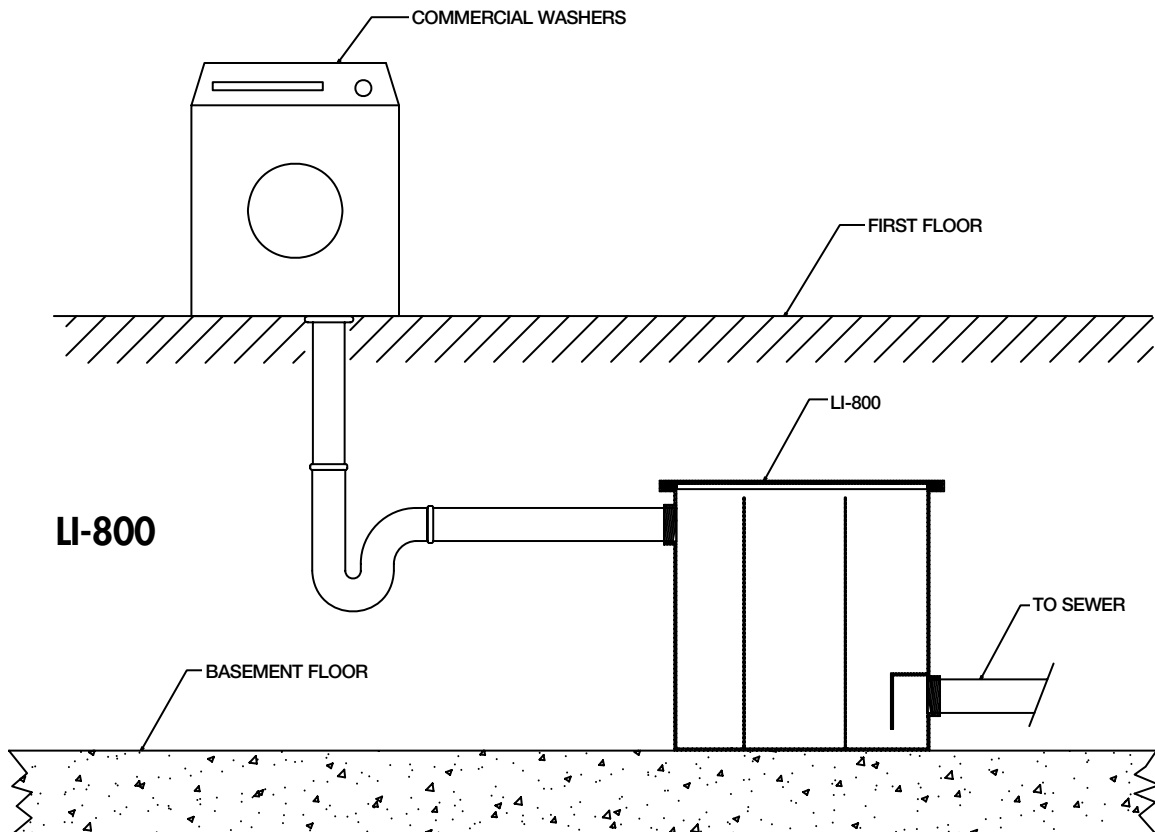
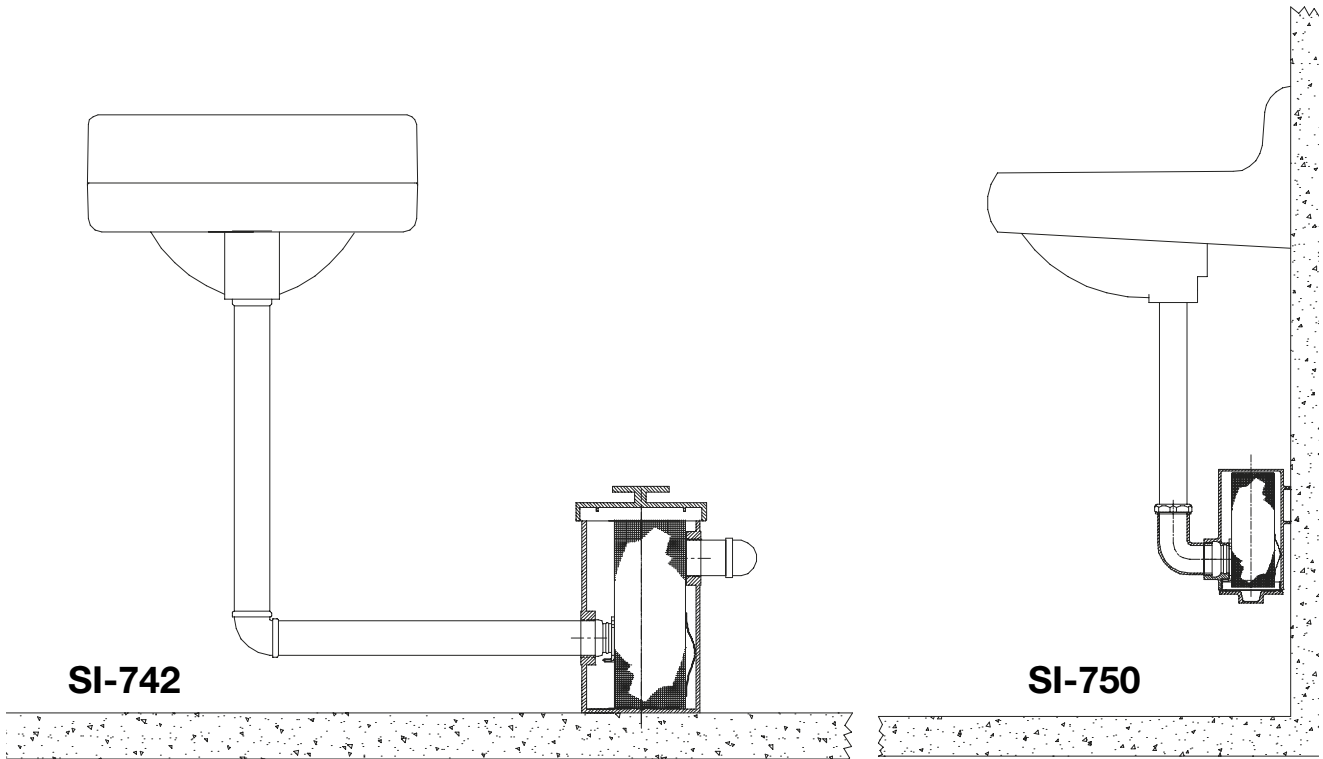
### Maintenance & Cleaning

Sediment interceptors must be routinely inspected and cleaned, in order to prevent clogging, and maintain operating efficiency. Maintenance frequency is dependent upon the specific application, and amount of incoming debris.



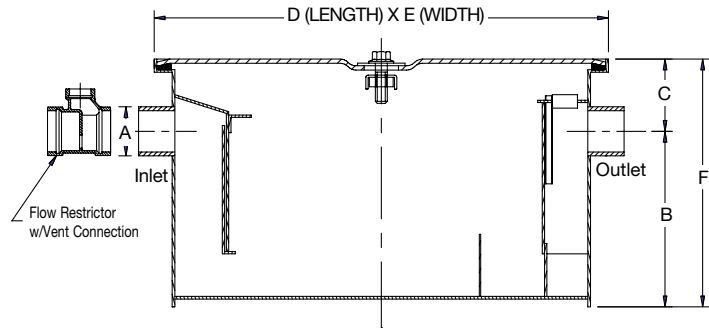
# Interceptors

## Typical Sediment Interceptor Installations



# Grease Interceptors

## WD-CSA Series CSA Certified Grease Interceptor



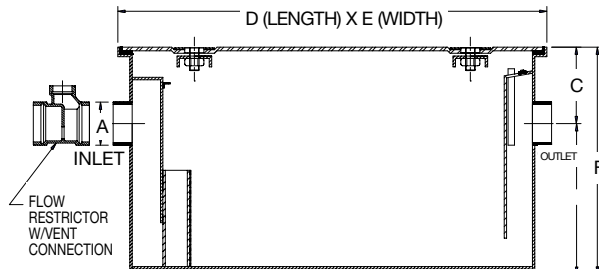
ISO 9001-2008  
CERTIFIED



| Interceptor Model Number | List Price A.R.E. | Flow Rate GPM | Grease Capacity Lbs. | A Inlet & Outlet | B Base to Center | C Top to Center | D Length     | E Width      | F Height     | Weight Lbs. | XHDC Add |
|--------------------------|-------------------|---------------|----------------------|------------------|------------------|-----------------|--------------|--------------|--------------|-------------|----------|
| WD-CSA-104               | \$2,353.90        | 04            | 08                   | 2"(51)           | 7-3/4"(197)      | 6"(152)         | 16"(406)     | 10"(254)     | 13-3/4"(349) | 37.48       | P.O.A.   |
| WD-CSA-107               | 2,353.90          | 07            | 14                   | 2"(51)           | 8-1/2"(216)      | 6"(152)         | 18"(457)     | 13"(330)     | 14-1/2"(368) | 54.01       | P.O.A.   |
| WD-CSA-110               | 2,847.64          | 10            | 20                   | 2"(51)           | 8-1/2"(216)      | 6"(152)         | 21-3/4"(552) | 14"(356)     | 14-1/2"(368) | 63.93       | P.O.A.   |
| WD-CSA-115               | 3,097.25          | 15            | 30                   | 2"(51)           | 10-1/2"(267)     | 6"(152)         | 22"(559)     | 15"(381)     | 16-1/2"(419) | 74.07       | P.O.A.   |
| WD-CSA-120               | 3,904.34          | 20            | 40                   | 3"(76)           | 11-1/2"(292)     | 6"(152)         | 24"(610)     | 15-3/4"(400) | 17-1/2"(445) | 83.77       | P.O.A.   |
| WD-CSA-125               | 4,791.61          | 25            | 50                   | 3"(76)           | 12"(305)         | 6"(152)         | 26"(660)     | 16-1/2"(419) | 18"(457)     | 95.90       | P.O.A.   |
| WD-CSA-135               | 5,611.46          | 35            | 70                   | 4"(102)          | 14"(356)         | 6"(152)         | 30"(762)     | 18"(457)     | 20"(508)     | 123.46      | P.O.A.   |
| WD-CSA-150               | 6,092.44          | 50            | 100                  | 4"(102)          | 16"(406)         | 6"(152)         | 32"(813)     | 22"(559)     | 22"(559)     | 160.94      | P.O.A.   |
| WD-CSA-150-DI            | 7,034.15          | 50            | 100                  | 4"(102)          | 16"(406)         | 6"(152)         | 32"(813)     | 22"(559)     | 22"(559)     | 160.94      | P.O.A.   |
| *WD-175                  | 9,634.22          | 75            | 150                  | 4"(102)          | 18 1/2"(470)     | 6"(152)         | 36"(914)     | 24"(610)     | 24-1/2"(622) | -           | P.O.A.   |

\*Note: WD-175 Not CSA Certified

## WD-L Series CSA Certified Low-Rough-In Grease Interceptor



| Interceptor Model Number | List Price A.R.E. | Flow Rate GPM | Grease Capacity Lbs. | A Inlet & Outlet | B Base to Center | C Top to Center | D Length      | E Width       | F Height     | Weight Lbs. |
|--------------------------|-------------------|---------------|----------------------|------------------|------------------|-----------------|---------------|---------------|--------------|-------------|
| WD-120C-L                | \$6,464.15        | 20            | 40                   | 3"(76)           | 7-5/8"(194)      | 4"(102)         | 34-7/8"(886)  | 22-7/8"(581)" | 11-7/8"(302) | 62.10       |
| WD-135C-L                | 7,294.27          | 35            | 70                   | 4"(102)          | 7"(178)          | 4"(102)         | 40-7/8"(1038) | 32-7/8"(835)  | 11-7/8"(302) | 93.70       |
| WD-150-L                 | 9,197.60          | 50            | 100                  | 4"(102)          | 8-1/2"(216)      | 5-1/2"(139)     | 54-7/8"(1394) | 32-7/8"(835)  | 13-7/8"(352) | 130.70      |

\*Note: WD-50-L \*50 GPM Not CSA Certified but conforms to CSA standard

### Options for WD & WD-L Series:

| Suffix | Description                     | List Price | Suffix | Description                             | List Price |
|--------|---------------------------------|------------|--------|---|------------|
| AL     | Aluminum Cover                  | P.O.A.     | -O     | Inlet & Outlet other than Standard Size | P.O.A.     |
| B      | Sediment Bucket                 | P.O.A.     | -SS    | All Stainless Steel                     | P.O.A.     |
| E      | Electronic Monitoring           | P.O.A.     | -THD   | Threaded Connection                     | P.O.A.     |
|        | Extension over 12" add per inch |            | -DI    | Dual Inlets                             | P.O.A.     |
| -FC    | Flange & Clamp Device           | P.O.A.     | -IP    | Injection Port                          | P.O.A.     |
| -K     | Per inch of extra over 6"       | P.O.A.     |        |   |            |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



# Grease Interceptors

## WD-GI-200 Series

## On Floor or Semi Recessed Installation

| Interceptor Model Number | Flow Rate GPM | Grease Capacity Lbs. | List Price Base Unit Standard "C" Dimensions | Up to 10" Above Std. | "Each 1" Over 10" to 24" | Dimensions Greater than 24" | Heavy Duty Cover | Anchor Flange No Clamp | -FC Flange & Clamp Device | X Heavy Duty Cover |
|--------------------------|---------------|----------------------|--|----------------------|--------------------------|-----------------------------|------------------|------------------------|---------------------------|--------------------|
| WD-210-DI                | 115.76        | 231.53               | \$18,730.55                                  | P.O.A.               | P.O.A.                   | P.O.A.                      | P.O.A.           | P.O.A.                 | P.O.A.                    | P.O.A.             |
| WD-215-DI                | 173.65        | 347.29               | \$20,513.56                                  | P.O.A.               | P.O.A.                   | P.O.A.                      | P.O.A.           | P.O.A.                 | P.O.A.                    | P.O.A.             |
| WD-220-DI                | 231.53        | 463.05               | \$24,568.02                                  | P.O.A.               | P.O.A.                   | P.O.A.                      | P.O.A.           | P.O.A.                 | P.O.A.                    | P.O.A.             |
| WD-225-DI                | 289.41        | 578.81               | \$23,930.19                                  | P.O.A.               | P.O.A.                   | P.O.A.                      | P.O.A.           | P.O.A.                 | P.O.A.                    | P.O.A.             |
| WD-230-DI                | 347.29        | 694.58               | \$32,055.43                                  | P.O.A.               | P.O.A.                   | P.O.A.                      | P.O.A.           | P.O.A.                 | P.O.A.                    | P.O.A.             |
| GI-235                   | 405.17        | 810.34               | CF**   | P.O.A.               | P.O.A.                   | P.O.A.                      | P.O.A.           | P.O.A.                 | P.O.A.                    | P.O.A.             |
| GI-240                   | 463.05        | 926.10               | CF**   | P.O.A.               | P.O.A.                   | P.O.A.                      | P.O.A.           | P.O.A.                 | P.O.A.                    | P.O.A.             |
| GI-250                   | 578.81        | 1,157.63             | CF**   | P.O.A.               | P.O.A.                   | P.O.A.                      | P.O.A.           | P.O.A.                 | P.O.A.                    | P.O.A.             |
| GI-260                   | 694.58        | 1,389.15             | CF**   | P.O.A.               | P.O.A.                   | P.O.A.                      | P.O.A.           | P.O.A.                 | P.O.A.                    | P.O.A.             |

| Cubic Capacity of Fixtures in Inches | Model Number | Grease Capacity Lbs. | Flow Rate GPM | A Inlet & Outlet | B Base to Center | C Top to Center | D Length   | E Width   | F Height  | DI Between Inlet Centers |
|--------------------------------------|--------------|----------------------|---------------|------------------|------------------|-----------------|------------|-----------|-----------|--------------------------|
| 92001 to 107000                      | GI-235       | 700                  | 350           | 6"(152)          | 39"(991)         | 10"(254)        | 79"(2007)  | 50"(1270) | 49"(1245) | 9"(229)                  |
| 107001 to 122000                     | GI-240       | 800                  | 400           | 6"(152)          | 42"(1067)        | 10"(254)        | 83"(2108)  | 55"(1397) | 52"(1321) | 9"(229)                  |
| 122001 to 154000                     | GI-250       | 1000                 | 500           | 6"(152)          | 53"(1346)        | 10"(254)        | 91"(2311)  | 60"(1524) | 63"(1600) | 9"(229)                  |
| 154001 to 188000                     | GI-260       | 1200                 | 600           | 8"(203)          | 60"(1524)        | 10"(254)        | 100"(2540) | 72"(1829) | 70"(1778) | 12"(305)                 |

## WO-300 Series

## On Floor or Semi Recessed Installation



| Model Number | Flow Rate US-GPM | *Oil Capacity Gallons | List Price Base Unit Standard "C" Dimensions | **Up to 6" Above Standard | **Each 1" Over 6" to 24" | Overall "C" Dimensions Greater Than 24" | -DI Dual Inlets |
|--------------|------------------|-----------------------|--|---------------------------|--------------------------|---|-----------------|
| WO-310       | 10               | 2.1                   | \$5,565.34                                   | P.O.A.                    | P.O.A.                   | P.O.A.                                  | P.O.A.          |
| WO-315       | 15               | 7.95                  | \$5,968.60                                   | P.O.A.                    | P.O.A.                   | P.O.A.                                  | P.O.A.          |
| WO-320       | 20               | 11.23                 | \$6,336.23                                   | P.O.A.                    | P.O.A.                   | P.O.A.                                  | P.O.A.          |
| WO-325       | 25               | 12.95                 | \$7,552.64                                   | P.O.A.                    | P.O.A.                   | P.O.A.                                  | P.O.A.          |
| WO-335       | 35               | 20.13                 | \$8,648.04                                   | P.O.A.                    | P.O.A.                   | P.O.A.                                  | P.O.A.          |
| WO-350       | 50               | 26.57                 | \$9,509.06                                   | P.O.A.                    | P.O.A.                   | P.O.A.                                  | P.O.A.          |
| WO-375       | 75               | 39.45                 | \$23,902.11                                  | P.O.A.                    | P.O.A.                   | P.O.A.                                  | P.O.A.          |

\*Safe Working Capacity  
\*\*Optional "C" Dimensions  
-X "C" Dimensions Greater Than Standard

| Model Number | -T Threaded Conn. | -HDC Heavy Duty Cover | -F Anchor Flange No Clamp | -F.C. Flange & Clamp Device | -O Conn. Other than Standard | -TEFC Threaded Conn. External Flow Control | -MEFC MJ Conn. External Flow Control | -XHDC X Heavy Duty Cover |
|--------------|-------------------|-----------------------|---------------------------|-----------------------------|------------------------------|--|--------------------------------------|--------------------------|
| WO-310       | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                      | P.O.A.                       | \$120.91                                   | \$120.91                             | P.O.A.                   |
| WO-315       | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                      | P.O.A.                       | 120.91                                     | 120.91                               | P.O.A.                   |
| WO-320       | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                      | P.O.A.                       | 120.91                                     | 120.91                               | P.O.A.                   |
| WO-325       | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                      | P.O.A.                       | 120.91                                     | 120.91                               | P.O.A.                   |
| WO-335       | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                      | P.O.A.                       | 120.91                                     | 120.91                               | P.O.A.                   |
| WO-350       | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                      | P.O.A.                       | 120.91                                     | 120.91                               | P.O.A.                   |
| WO-375       | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                      | P.O.A.                       | 120.91                                     | 120.91                               | P.O.A.                   |

# Grease Interceptors

**WO-500**

**Oil Interceptor with Secondary Oil Storage Tank**

| Model Number | Flow Rate USGPM | **Oil Capacity Gallons | List Price Base Unit Standard "C" Dimensions | **Up to 6" Above Standard | **Each 1" Over 6" to 24" | Overall "C" Dimesions Greater Than 24" | -DI Dual Inlets |
|--------------|-----------------|------------------------|--|---------------------------|--------------------------|--|-----------------|
| WO-510       | 10              | 14                     | \$CF**                                       | P.O.A.                    | P.O.A.                   | P.O.A.                                 | P.O.A.          |
| WO-515       | 15              | 24.25                  | CF**   | P.O.A.                    | P.O.A.                   | P.O.A.                                 | P.O.A.          |
| WO-520       | 20              | 32                     | CF**   | P.O.A.                    | P.O.A.                   | P.O.A.                                 | P.O.A.          |
| WO-525       | 25              | 35                     | CF**   | P.O.A.                    | P.O.A.                   | P.O.A.                                 | P.O.A.          |
| WO-535       | 35              | 64.5                   | CF**   | P.O.A.                    | P.O.A.                   | P.O.A.                                 | P.O.A.          |
| WO-550       | 50              | 77.9                   | CF**   | P.O.A.                    | P.O.A.                   | P.O.A.                                 | P.O.A.          |
| WO-575       | 75              | 130                    | CF**   | P.O.A.                    | P.O.A.                   | P.O.A.                                 | P.O.A.          |

\*Safe Working Capacity      \*\*Optional "C" Dimensions  
 -X "C" Dimensions Greater Than Standard

| Model Number | -T Threaded Conn. | -HDC Heavy Duty Cover | -F Anchor Flange No Clamp | -F.C. Flange & Clamp Device | -O Conn. Other than Standard | -TEFC Threaded Conn. External Flow Control | -MEFC MJ Conn. External Flow Control | -XHDC X Heavy Duty Cover |
|--------------|-------------------|-----------------------|---------------------------|-----------------------------|------------------------------|--|--------------------------------------|--------------------------|
| WO-510       | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                      | P.O.A.                       | P.O.A.                                     | P.O.A.                               | P.O.A.                   |
| WO-515       | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                      | P.O.A.                       | P.O.A.                                     | P.O.A.                               | P.O.A.                   |
| WO-520       | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                      | P.O.A.                       | P.O.A.                                     | P.O.A.                               | P.O.A.                   |
| WO-525       | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                      | P.O.A.                       | P.O.A.                                     | P.O.A.                               | P.O.A.                   |
| WO-535       | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                      | P.O.A.                       | P.O.A.                                     | P.O.A.                               | P.O.A.                   |
| WO-550       | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                      | P.O.A.                       | P.O.A.                                     | P.O.A.                               | P.O.A.                   |
| WO-575       | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                      | P.O.A.                       | P.O.A.                                     | P.O.A.                               | P.O.A.                   |

| Model Number | Flow Rate GPM | A Inlet & Outlet | B Base to Center | C Top to Center | D Length     | E Width      | F Height     | G Base to Center | H        | K       | DI Between Inlet Centers |
|--------------|---------------|------------------|------------------|-----------------|--------------|--------------|--------------|------------------|----------|---------|--------------------------|
| WO-510       | 10            | 2"(51)           | 8 1/2"(216)      | 6"(152)         | 21 3/4"(552) | 14"(356)     | 14 1/2"(368) | 3 1/2"(89)       | 6"(152)  | 7"(178) | 5"(127)                  |
| WO-515       | 15            | 2"(51)           | 10 1/2"(267)     | 6"(152)         | 22"(559)     | 15"(381)     | 16 1/2"(419) | 4"(102)          | 7"(178)  | 7"(178) | 5"(127)                  |
| WO-520       | 20            | 3"(76)           | 11 1/2"(292)     | 6"(152)         | 24"(610)     | 15 3/4"(400) | 17 1/2"(443) | 5"(127)          | 7"(178)  | 7"(178) | 5 1/2"(140)              |
| WO-525       | 25            | 3"(76)           | 12"(305)         | 6"(152)         | 26"(660)     | 16 1/2"(419) | 18"(457)     | 6"(152)          | 7"(178)  | 7"(178) | 5 1/2"(140)              |
| WO-535       | 35            | 4"(102)          | 14"(356)         | 6"(152)         | 30"(762)     | 18"(457)     | 20"(508)     | 8"(203)          | 10"(254) | 7"(178) | 6 1/2"(165)              |
| WO-550       | 50            | 4"(102)          | 16"(406)         | 6"(152)         | 32"(813)     | 22"(559)     | 22"(559)     | 9"(229)          | 10"(254) | 7"(178) | 6 1/2"(165)              |
| WO-575       | 75            | 4"(102)          | 18 1/2"(470)     | 6"(152)         | 36"(914)     | 24"(610)     | 24 1/2"(623) | 12"(305)         | 10"(254) | 7"(178) | 6 1/2"(165)              |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



# Oil Interceptors

**OI-400**

**Oil Interceptors**

| Interceptor Model Number | Flow Rate GPM | **Oil Capacity Gallons | List Price Base Unit Standard "C" Dimensions | ** Each 1" Over 6" to 24" | Overall "C" Dimensions Greater Than 24" | -DI Dual Inlets | -T Threaded Conn. | -HDC Heavy Duty Cover | -F Anchor Flange No Clamp | -FC Flange & Clamp Device |
|--------------------------|---------------|------------------------|--|---------------------------|---|-----------------|-------------------|-----------------------|---------------------------|---------------------------|
| OI-410                   | 100           | 147                    | P.O.A.                                       | P.O.A.                    | P.O.A.                                  | P.O.A.          | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                    |
| OI-415                   | 150           | 217                    | P.O.A.                                       | P.O.A.                    | P.O.A.                                  | P.O.A.          | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                    |
| OI-420                   | 200           | 313                    | P.O.A.                                       | P.O.A.                    | P.O.A.                                  | P.O.A.          | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                    |
| OI-425                   | 250           | 422                    | P.O.A.                                       | P.O.A.                    | P.O.A.                                  | P.O.A.          | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                    |
| OI-430                   | 300           | 465                    | P.O.A.                                       | P.O.A.                    | P.O.A.                                  | P.O.A.          | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                    |
| OI-435                   | 350           | 514                    | P.O.A.                                       | P.O.A.                    | P.O.A.                                  | P.O.A.          | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                    |
| OI-440                   | 400           | 650                    | P.O.A.                                       | P.O.A.                    | P.O.A.                                  | P.O.A.          | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                    |
| OI-450                   | 500           | 1,000                  | P.O.A.                                       | P.O.A.                    | P.O.A.                                  | P.O.A.          | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                    |
| OI-460                   | 600           | 1,500                  | P.O.A.                                       | P.O.A.                    | P.O.A.                                  | P.O.A.          | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                    |

\*Safe Working Capacity

\*\*Optional "C" Dimensions  
-X "C" Dimensions Greater Than Standard

| Interceptor Model Number | -TEFC Threaded Conn. External Flow Control | -MEFC MJ Conn. External Flow Control |
|--------------------------|--|--------------------------------------|
| OI-410                   | P.O.A.                                     | P.O.A.                               |
| OI-415                   | P.O.A.                                     | P.O.A.                               |
| OI-420                   | P.O.A.                                     | P.O.A.                               |
| OI-425                   | P.O.A.                                     | P.O.A.                               |
| OI-430                   | P.O.A.                                     | P.O.A.                               |
| OI-435                   | P.O.A.                                     | P.O.A.                               |
| OI-440                   | P.O.A.                                     | P.O.A.                               |
| OI-450                   | P.O.A.                                     | P.O.A.                               |
| OI-460                   | P.O.A.                                     | P.O.A.                               |

| Interceptor Model Number | Flow Rate GPM | A Inlet & Outlet | B Base to Center | C Top to Center | D Length   | E Width   | F Height  | G Base to Center | H        | K        | DI Between Inlet Centers |
|--------------------------|---------------|------------------|------------------|-----------------|------------|-----------|-----------|------------------|----------|----------|--------------------------|
| OI-410                   | 100           | 4"(102)          | 24"(610)         | 10"(254)        | 54"(1372)  | 36"(914)  | 34"(864)  | 17 1/2"(445)     | 20"(508) | 13"(330) | 6 1/2"(165)              |
| OI-415                   | 150           | 4"(102)          | 29"(737)         | 10"(254)        | 60"(1524)  | 38"(965)  | 39"(991)  | 22 1/2"(572)     | 22"(559) | 15"(381) | 6 1/2"(165)              |
| OI-420                   | 200           | 4"(102)          | 31"(787)         | 10"(254)        | 69"(1753)  | 43"(1092) | 41"(1041) | 24 1/2"(622)     | 26"(660) | 18"(457) | 6 1/2"(165)              |
| OI-425                   | 250           | 4"(102)          | 37"(940)         | 10"(254)        | 74"(1880)  | 45"(1143) | 47"(1194) | 30"(762)         | 26"(660) | 20"(508) | 6 1/2"(165)              |
| OI-430                   | 300           | 6"(152)          | 38"(965)         | 10"(254)        | 76"(1930)  | 48"(1219) | 48"(1219) | 30 1/2"(775)     | 27"(686) | 20"(508) | 9"(229)                  |
| OI-435                   | 350           | 6"(152)          | 39"(991)         | 10"(254)        | 79"(2007)  | 50"(1270) | 49"(1245) | 31 1/2"(800)     | 28"(711) | 21"(533) | 9"(229)                  |
| OI-440                   | 400           | 6"(152)          | 42"(1067)        | 10"(254)        | 83"(2108)  | 55"(1397) | 52"(1321) | 34 1/2"(876)     | 30"(762) | 23"(584) | 9"(229)                  |
| OI-450                   | 500           | 6"(152)          | 53"(1346)        | 10"(254)        | 91"(2311)  | 60"(1524) | 63"(1600) | 45 1/2"(1156)    | 32"(813) | 25"(635) | 9"(229)                  |
| OI-460                   | 600           | 8"(203)          | 60"(1524)        | 10"(254)        | 100"(2540) | 72"(1829) | 70"(1778) | 52"(1321)        | 34"(864) | 27"(686) | 12"(305)                 |



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Oil Interceptors

## OI-600 Oil Interceptor with Secondary Oil Storage Tank

| Interceptor Model Number | Flow Rate GPM | **Oil Capacity Gallons | List Price Base Unit Standard "C" Dimensions | ** Each 1" Over 6" to 24" | Overall "C" Dimensions Greater Than 24" | -DI Dual Inlets | -T Threaded Conn. | -HDC Heavy Duty Cover | -F Anchor Flange No Clamp | -FC Flange & Clamp Device |
|--------------------------|---------------|------------------------|--|---------------------------|---|-----------------|-------------------|-----------------------|---------------------------|---------------------------|
| OI-610                   | 100           | 285.70                 | P.O.A.                                       | P.O.A.                    | P.O.A.                                  | P.O.A.          | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                    |
| OI-615                   | 150           | 384                    | P.O.A.                                       | P.O.A.                    | P.O.A.                                  | P.O.A.          | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                    |
| OI-620                   | 200           | 526                    | P.O.A.                                       | P.O.A.                    | P.O.A.                                  | P.O.A.          | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                    |
| OI-625                   | 250           | 677                    | P.O.A.                                       | P.O.A.                    | P.O.A.                                  | P.O.A.          | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                    |
| OI-630                   | 300           | 758                    | P.O.A.                                       | P.O.A.                    | P.O.A.                                  | P.O.A.          | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                    |
| OI-635                   | 350           | 837                    | P.O.A.                                       | P.O.A.                    | P.O.A.                                  | P.O.A.          | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                    |
| OI-640                   | 400           | 1027                   | P.O.A.                                       | P.O.A.                    | P.O.A.                                  | P.O.A.          | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                    |
| OI-650                   | 500           | 1438                   | P.O.A.                                       | P.O.A.                    | P.O.A.                                  | P.O.A.          | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                    |
| OI-660                   | 600           | 2168                   | P.O.A.                                       | P.O.A.                    | P.O.A.                                  | P.O.A.          | P.O.A.            | P.O.A.                | P.O.A.                    | P.O.A.                    |

\*Safe Working Capacity

\*\*Optional "C" Dimensions  
-X "C" Dimensions Greater Than Standard

| Interceptor Model Number | -O Conn. Other than Standard | -MEFC MJ Conn. External Flow Control |
|--------------------------|------------------------------|--------------------------------------|
| OI-610                   | P.O.A.                       | P.O.A.                               |
| OI-615                   | P.O.A.                       | P.O.A.                               |
| OI-620                   | P.O.A.                       | P.O.A.                               |
| OI-625                   | P.O.A.                       | P.O.A.                               |
| OI-630                   | P.O.A.                       | P.O.A.                               |
| OI-635                   | P.O.A.                       | P.O.A.                               |
| OI-640                   | P.O.A.                       | P.O.A.                               |
| OI-650                   | P.O.A.                       | P.O.A.                               |
| OI-660                   | P.O.A.                       | P.O.A.                               |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

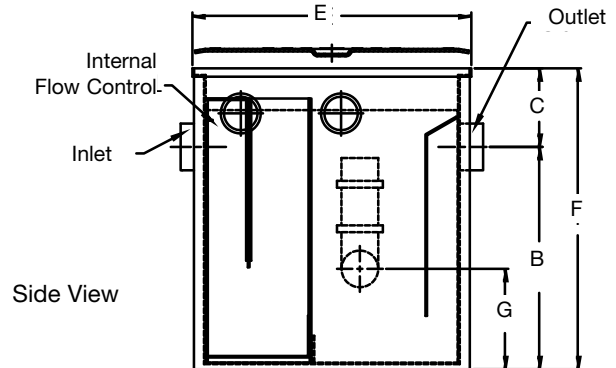
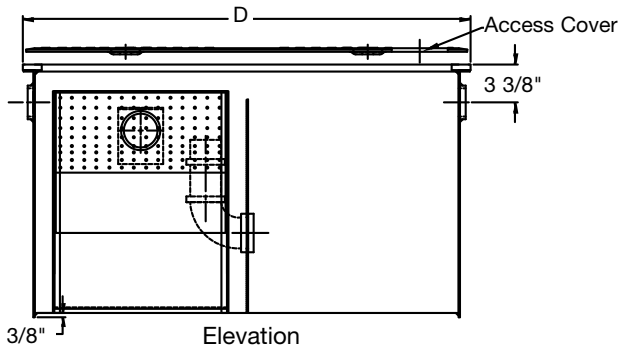
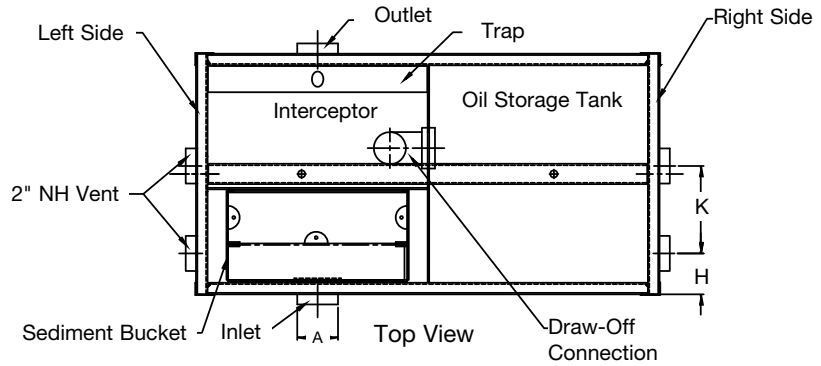


# Oil Interceptors

**OI-ST Series (OI-700)**

**Oil Interceptor w/Integral Storage Tank**

*\*Note:* For custom configurations use OI-700 Series.



| Interceptor Model Number | Order Code | List Price  | -HD 10,000 Lbs. (Traffic Cover)* Add | Flow Rate GPM | Combined Volume Gal. | A Inlet & Outlet | B Base To Center | C Top To Center | D Length | E Width | F Height | G       | H      | K      | J       |
|--------------------------|------------|-------------|--------------------------------------|---------------|----------------------|------------------|------------------|-----------------|----------|---------|----------|---------|--------|--------|---------|
| OI-10-ST                 | 8188471    | \$8,815.00  | \$12,280.00                          | 10            | 9                    | 2"               | 8-1/2"           | 6"              | 24"      | 18"     | 14-1/2"  | 3"      | 4-1/2" | 5-1/2" | 6"      |
| OI-15-ST                 | 8189085    | \$12,064.65 | 13,045.00                            | 15            | 26                   | 2"               | 12-1/2"          | 6"              | 33-3/4"  | 20-7/8" | 18-1/2"  | 5       | 4-1/2" | 7-1/2" | 9"      |
| OI-20-ST                 | 8188641    | \$14,587.97 | 13,814.00                            | 20            | 34                   | 3"               | 14-1/2"          | 6"              | 39-3/4"  | 20-7/8" | 20-1/2"  | 6"      | 4-1/2" | 7-1/2" | 10-1/2" |
| OI-25-ST                 | 8188760    | \$14,139.27 | 13,869.00                            | 25            | 40                   | 3"               | 16-1/2"          | 6"              | 39-3/4"  | 20-7/8" | 22-1/2"  | 7"      | 4-1/2" | 7-1/2" | 10-1/2" |
| OI-35-ST                 | 8188636    | \$19,222.90 | 15,348.00                            | 35            | 65                   | 4"               | 14-1/2"          | 6"              | 49-3/4"  | 32-7/8" | 20-1/2"  | 6"      | 12"    | 6"     | 13"     |
| OI-50-ST                 | 8188581    | \$25,901.99 | 16,130.00                            | 50            | 90                   | 4"               | 18-1/2"          | 6"              | 49-3/4"  | 32-7/8" | 24-1/2"  | 8"      | 12"    | 6"     | 13"     |
| OI-75-ST                 | 8188538    | \$29,910.98 | 16,959.00                            | 75            | 176                  | 4"               | 26-1/2"          | 6"              | 49-3/4"  | 40-7/8" | 32-1/2"  | 16"     | 12"    | 12"    | 13"     |
| OI-100-ST                | 8188967    | \$60,159.23 | 23,379.00                            | 100           | 337                  | 4"               | 24"              | 10"             | 72"      | 54"     | 34"      | 17-1/2" | 20"    | 13"    | 22-1/2" |
| OI-150-ST                | 8189060    | \$74,445.80 | 30,007.00                            | 150           | 494                  | 4"               | 29"              | 10"             | 76"      | 60"     | 39"      | 22-1/2" | 22"    | 15"    | 19"     |
| OI-200-ST                | 8188535    | CF**        | P.O.A.                               | 200           | 694                  | 4"               | 31"              | 10"             | 86"      | 69"     | 41"      | 24-1/2" | 26"    | 18"    | 22-1/2" |
| OI-250-ST                | 8188916    | CF**        | P.O.A.                               | 250           | 951                  | 4"               | 37"              | 10"             | 90"      | 74"     | 47"      | 30"     | 26"    | 20"    | 22-1/2" |
| OI-300-ST                | 8188812    | CF**        | P.O.A.                               | 300           | 1011                 | 6"               | 38"              | 10"             | 96"      | 76"     | 48"      | 30-1/2" | 27"    | 20"    | 21-1/2" |
| OI-350-ST                | -          | CF**        | P.O.A.                               | 350           | 1129                 | 6"               | 39"              | 10"             | 100"     | 79"     | 49"      | 31-1/2" | 28"    | 21"    | 23-1/2" |
| OI-400-ST                | 8189086    | CF**        | P.O.A.                               | 400           | 1423                 | 6"               | 42"              | 10"             | 110"     | 83"     | 52"      | 34-1/2" | 30"    | 23"    | 22-3/4" |
| OI-500-ST                | 8189024    | 237,119.88  | P.O.A.                               | 500           | 2222                 | 6"               | 53"              | 10"             | 120"     | 91"     | 63"      | 45-1/2" | 32"    | 25"    | 20-3/4" |

\*-HD Option Requires Minimum 3" Extension

## Options for OI-ST (OI-700) Series:

| Suffix | Description                      | List Price | Suffix | Description                             | List Price |
|--------|----------------------------------|------------|--------|---|------------|
| E      | Electronics                      | P.O.A.     | -O     | Inlet & Outlet Other Than Standard Size | P.O.A.     |
| X      | Extension over 12", add per inch | P.O.A.     | -SS    | All Stainless Steel                     | P.O.A.     |
| -FC    | Flange & Clamp Device            | P.O.A.     | -THD   | Threaded Connections                    | No Add     |

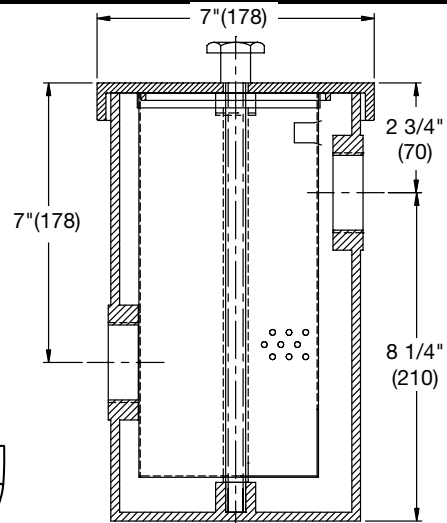
**WATTS®** Consult factory for all applications outside of listed parameters.  
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# Hair, Sediment & Solids Interceptors

**SI-742**

**Hair, Plaster, & Sediment Interceptor**

| Model Number | Order Code | Description     | List Price |
|--------------|------------|-----------------|------------|
| SI-742T-50   | C8135382   | cast iron       | \$1,317.29 |
| SI-742-SS    | 8145681    | stainless steel | 4,511.39   |



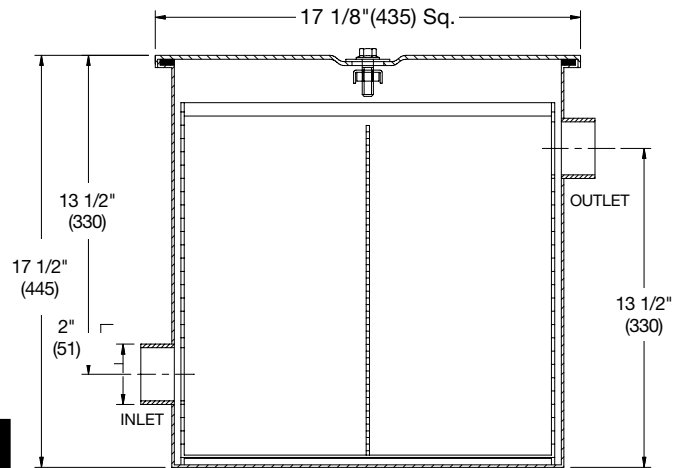
**Options for SI-742 Series:**

| Suffix | Description                     | List Price |
|--------|---------------------------------|------------|
| -X     | Cover for Recessed Installation | \$711.50   |

**SI-742-L**

**Large Capacity Sediment Interceptor**

| Model Number | Order Code | Outlet | Description        | List Price |
|--------------|------------|--------|--------------------|------------|
| SI-742-L     | 8187634    | 2"     | Epoxy Coated Steel | \$4,511.39 |
| SI-742-L-SS  | -          | 2"     | Stainless Steel    | 31,897.79  |



**Options for SI-742 -L Series:**

| Suffix | Description                        | List Price |
|--------|------------------------------------|------------|
| -0     | Inlet & Outlet other than standard | P.O.A.     |
| -X     | Cover for Recessed Installation    | P.O.A.     |

**SI-742-M**

**Sediment & Hair Interceptor**



| Model Number | Cover Type | A Inlet & Outlet | B Base to Center | C Top to Center | D Length     | E Width      | F Height | Base to Center of Outlet | Top to Center of Outlet | List Price |
|--------------|------------|------------------|------------------|-----------------|--------------|--------------|----------|--------------------------|-------------------------|------------|
| SI-742-M     | Smooth     | 2"(51)           | 4"(102)          | 9"(229)         | 11 1/4"(286) | 11 1/4"(286) | 13"(330) | 9"(229)                  | 4"(102)                 | \$CF**     |
| SI-742-M-X   | Recessed   | 2"(51)           | 4"(102)          | 9"(229)         | 12 3/8"(314) | 12 3/8"(314) | 13"(330) | 9"(229)                  | 4"(102)                 | CF**       |

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# Hair, Sediment & Solids Interceptors

## SI-750 & SI-750-TO Hair Interceptor

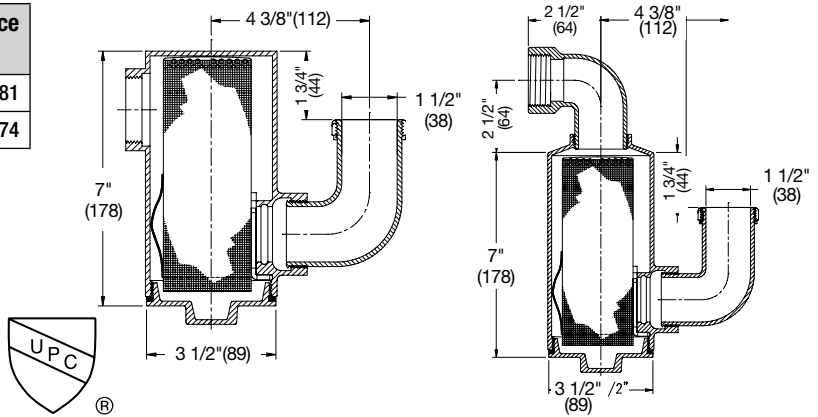
| Model Number | Order Code | Description               | List Price |
|--------------|------------|---------------------------|------------|
| SI-750-50    | 8135385    | Cast Iron, Side Outlet    | \$1,093.81 |
| SI-750-TO    | 8145708    | Chrome Plated, Top Outlet | 1,975.74   |



Cast Iron

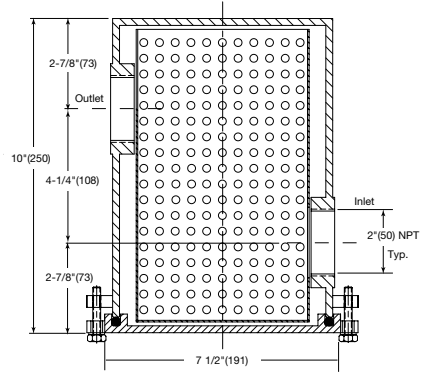


Chrome Plated



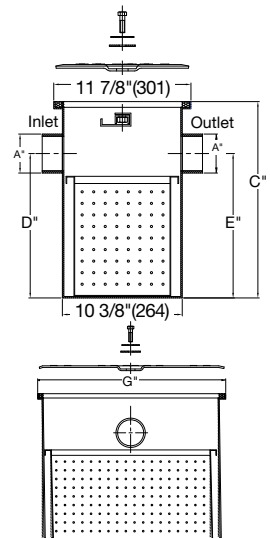
## SI-762 Bottom Access Hair, Plaster, & Sediment Interceptor

| Model Number | Order Code | Description        | Weight Lbs. | List Price |
|--------------|------------|--------------------|-------------|------------|
| SI-762       | 8186577    | Epoxy Coated Steel | 22          | \$1,207.77 |



## SI-770 Solids Interceptor

| Interceptor Model Number | Order Code | List Price | Inlet/Outlet Size | Flow Rate GPM | Solids Cap. Cubic Ft. | C       | D/E     | G       | Wt. Lbs. |
|--------------------------|------------|------------|-------------------|---------------|-----------------------|---------|---------|---------|----------|
| SI-770-100               | 8188175    | \$3,692.99 | 2                 | 4             | 0.20                  | 10"     | 7-1/4"  | 11-3/4" | 13.87    |
| SI-770-200               | 8188611    | 3,687.48   | 2                 | 7             | 0.29                  | 11-1/8" | 8-1/8"  | 13-3/4" | 16.75    |
| SI-770-300               | 8188329    | 3,637.13   | 2                 | 10            | 0.33                  | 11-3/4" | 8-1/4"  | 15-7/8" | 18.98    |
| SI-770-400               | 8157664    | 4,084.71   | 3                 | 15            | 0.38                  | 13-3/8" | 9-3/8"  | 18-5/8" | 23.89    |
| SI-770-500               | 8188612    | 4,119.50   | 3                 | 20            | 0.66                  | 15"     | 11-3/4" | 19-1/8" | 26.34    |
| SI-770-600               | 8188613    | 4,671.37   | 3                 | 25            | 0.79                  | 17"     | 12-1/2" | 21-3/4" | 32.19    |
| SI-770-700               | 8188614    | 5,985.27   | 3                 | 35            | 1.17                  | 18-3/4" | 14-1/4" | 24-3/8" | 36.59    |
| SI-770-800               | 8188350    | 6,417.28   | 4                 | 50            | 1.35                  | 21-1/8" | 16"     | 24-3/8" | 39.89    |
| SI-770-900               | 8188658    | 6,854.02   | 4                 | 75            | 1.61                  | 22-3/4" | 18-1/2" | 24-3/8" | 39.00    |
| SI-770-1000              | 8188659    | 7,014.55   | 4                 | 100           | 1.80                  | 27"     | 23"     | 24-3/8" | 42.00    |



### Options for SI-770 Series:

| Suffix | Description                             | List Price |
|--------|---|------------|
| -E     | Electronics                             | P.O.A.     |
| -O     | Inlet & Outlet Other Than Standard Size | P.O.A.     |
| -SS    | All Stainless Steel                     | P.O.A.     |
| -THD   | Threaded Connections                    | No Add     |



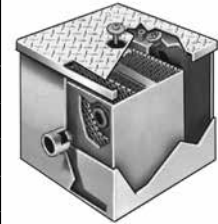
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# Lint & Sand Interceptors

**SI-800**

**Large Capacity Hair, Plaster & Sediment Interceptor**

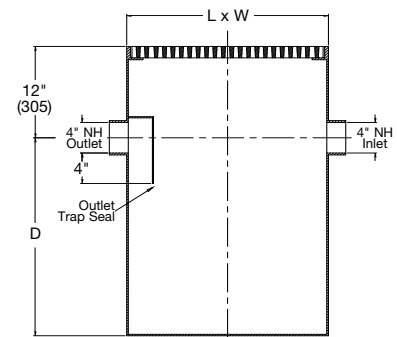
| Model Number | List Price  | Cu. Capacity of Fixtures (inches) | Flow Rate GPM | A Inlet & Outlet | B Base to Center | C Top to Center | D Length      | E Width      | F Height     |
|--------------|-------------|-----------------------------------|---------------|------------------|------------------|-----------------|---------------|--------------|--------------|
| SI-820       | \$20,740.97 | 4601-6150                         | 20            | 3"(76)           | 14 1/2"(368)     | 6"(152)         | 20 7/8"(530)  | 19 7/8"(505) | 20 1/2"(521) |
| SI-825       | \$21,681.96 | 6151-7700                         | 25            | 3"(76)           | 16 1/2"(419)     | 6"(152)         | 20 7/8"(530)  | 19 7/8"(505) | 20 1/2"(521) |
| SI-835       | \$23,825.57 | 7701-7700                         | 35            | 4"(102)          | 14 1/2"(368)     | 6"(152)         | 32 7/8"(835)  | 24 7/8"(632) | 20 1/2"(521) |
| SI-850       | \$25,121.53 | 10751-15400                       | 50            | 4"(102)          | 18 1/2"(470)     | 6"(152)         | 32 7/8"(835)  | 24 7/8"(632) | 24 1/2"(622) |
| SI-875       | \$29,394.53 | 15401-23000                       | 75            | 4"(102)          | 26 1/2"(673)     | 6"(152)         | 40 7/8"(1038) | 24 7/8"(632) | 32 1/2"(826) |



**FD-410-ST**

**Sand Trap**

| Model Number  | List Price  | Flow Rate GPM | Inlet & Outlet | L Length   | W Width   | D Depth   | Capacity Gal. | No of Grates |
|---------------|-------------|---------------|----------------|------------|-----------|-----------|---------------|--------------|
| FD-410-ST-20  | \$20,769.80 | 20            | 4"(102)        | 24"(610)   | 24"(610)  | 26"(660)  | 60            | 2            |
| FD-410-ST-50  | 33,030.07   | 50            | 4"(102)        | 48"(1219)  | 24"(610)  | 26"(660)  | 120           | 4            |
| FD-410-ST-150 | 59,549.33   | 150           | 4"(102)        | 48"(1219)  | 48"(1219) | 38"(965)  | 360           | 8            |
| FD-410-ST-250 | CF**        | 250           | 4"(102)        | 72"(1829)  | 48"(1219) | 39"(991)  | 540           | 12           |
| FD-410-ST-500 | CF**        | 500           | 4"(102)        | 120"(3048) | 48"(1219) | 51"(1295) | 1200          | 20           |



**LI-800**

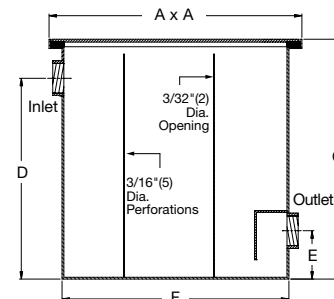
**Lint Interceptor**

| Model Number | Order Code | List Price  | Size/No. of Machines | Inlet / Outlet Size | Flow Rate GPM | Approx. Weight/ Lbs. | A   | C       | D       | E      | F       |
|--------------|------------|-------------|----------------------|---------------------|---------------|----------------------|-----|---------|---------|--------|---------|
| LI-803       | 8185896    | \$11,791.91 | 3                    | 2"                  | 30            | 93                   | 17" | 16-1/2" | 13-1/2" | 3-1/4" | 15-1/4" |
| LI-807       | 8145748    | 13,867.00   | 7                    | 3"                  | 70            | 155                  | 25" | 20"     | 16-1/2" | 3-1/4" | 23-1/4" |
| LI-810       | 8145747    | 16,038.88   | 10                   | 4"                  | 100           | 271                  | 33" | 28"     | 20-1/8" | 4"     | 31-1/4" |
| LI-820       | 8150855    | 19,811.35   | 20                   | 4"                  | 200           | 404                  | 40" | 35"     | 27-1/8" | 4"     | 38-1/4" |
| LI-830       | 8145749    | 23,018.02   | 30                   | 6"                  | 300           | 654                  | 45" | 40"     | 28-1/8" | 5"     | 43-1/4" |
| LI-840       | 8185181    | CF**        | 40                   | 6"                  | 400           | 723                  | 48" | 43"     | 31-1/8" | 5"     | 46-1/4" |
| LI-850       | 8185210    | 29,713.20   | 50                   | 6"                  | 500           | 911                  | 52" | 47"     | 35-1/8" | 5#     | 50-1/4" |



**Options for LI-800 Series:**

| Suffix | Description                        | List Price |
|--------|------------------------------------|------------|
| -X     | Extension Up to 12"                | P.O.A.     |
|        | Each Additional Inch               | P.O.A.     |
| -HD    | 10,000 Traffic Cover*              | P.O.A.     |
| -O     | Inlet & Outlet Other Than Standard | P.O.A.     |
| -SS    | All Stainless Steel                | P.O.A.     |



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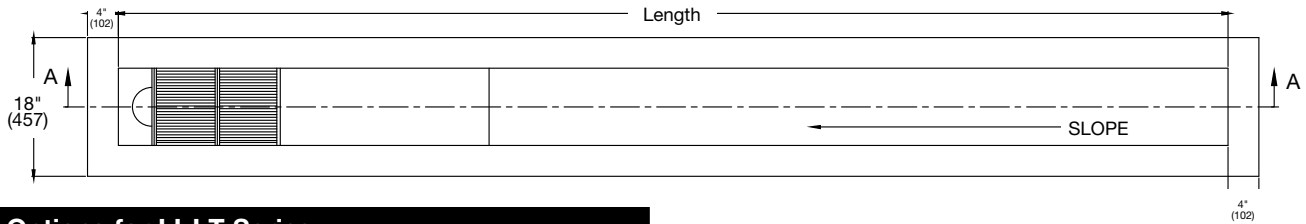
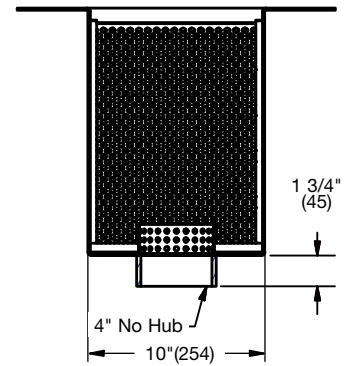


# Lint & Sand Interceptors

## LI-LT Series      Stainless Steel Lint Trough

| Model Number | Order Code | Length | List Price  |
|--------------|------------|--------|-------------|
| LI-4-LT      | 8189401    | 4'     | \$14,776.66 |
| LI-8-LT      | 8189776    | 8'     | \$21,908.39 |
| LI-12-LT     | 8189161    | 12'    | \$27,337.38 |

Note: Custom lengths available at \$4,413.04 per foot.  
(Call for Availability)



### Options for LI-LT Series:

| Suffix | Description    | List Price  |
|--------|----------------|-------------|
| -4     | 4' Base Option | \$13,434.00 |

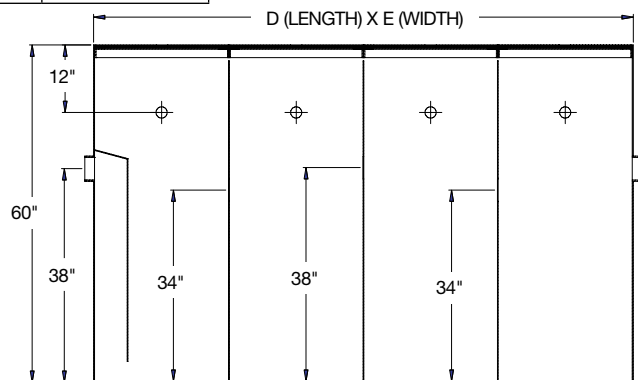
## SA-Series      Heavy Duty Sand & Sediment Interceptor

| Model Number | Order Code | GPM  | Wt. Lbs. | Cu. Ft. | Length | Width | Height | List Price  | -HD 10,000 (Add Traffic Cover) |
|--------------|------------|------|----------|---------|--------|-------|--------|-------------|--------------------------------|
| SA-310       | 8186454    | 300  | 1600     | 43      | 60"    | 36"   | 60"    | \$53,126.91 | \$2,136.00                     |
| SA-410       | 8187188    | 400  | 1750     | 54      | 72"    | 36"   | 60"    | 80,280.95   | 2,682.00                       |
| SA-510       | 8154227    | 500  | 2100     | 72      | 96"    | 36"   | 60"    | 95,498.28   | 3,921.00                       |
| SA-610       | -          | 600  | 2500     | 81      | 108"   | 36"   | 60"    | CF**        | 4,471.00                       |
| SA-710       | 8187789    | 700  | 2700     | 90      | 120"   | 36"   | 60"    | 122,388.71  | 4,861.00                       |
| SA-810       | 8190286    | 800  | 3000     | 108     | 144"   | 36"   | 60"    | CF**        | 5,361.00                       |
| SA-1010      | 8201174    | 1000 | 3640     | 135     | 180"   | 36"   | 60"    | CF**        | 6,727.00                       |

\*-HD Option Requires Minimum 4" Extension

### Options for SA-Series:

| Suffix | Description                        | List Price |
|--------|------------------------------------|------------|
| -X     | Extension Up to 12"                | \$3,346.00 |
|        | Each Additional Inch               | 415.50     |
| -HD    | 10,000 Traffic Cover*              | P.O.A.     |
| -O     | Inlet & Outlet Other Than Standard | 907.50     |
| -SS    | All Stainless Steel                | P.O.A.     |



# Cleanouts

## Table Of Contents

- Pictorial Index
- Product Recommendations
- Cleanout Selection Factors
  - Materials
  - Pipe Connections
  - Load Ratings
  - Design Considerations
  - Commonly Specified Options
  - Typical Installations



Consult factory for all applications outside of listed parameters.

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**WATTS**<sup>®</sup>

# Cleanouts

## Pictorial Index



**CO-100-C-R**  
Floor Cleanout  
w/Round Top



**CO-100-C-RC**  
Floor Cleanout with  
Round Top, Carpet Marker



**CO-100-C-RC-7**  
Surface Membrane  
Cleanout



**CO-100-C-RX**  
Floor Cleanout with  
Heavy Duty Round Top



**CO-100-C-S**  
Floor Cleanout with  
Square Top



**CO-100-C-T**  
Floor Cleanout with  
Round Top, Tile Recess



**CO-100-C-TS**  
Floor Cleanout with  
Square Top, Tile Recess



**CO-100-C-U**  
Floor Cleanout w/  
Round Top, Terrazzo Recess



**CO-100-C-US**  
Floor Cleanout with  
Square Top, Terrazzo Recess

No Photo  
Available

**CO-100-C-XHR5**  
Floor Cleanout with  
Heavy Duty Round Top



**CO-190-PR**  
Pronto; Cast Iron Adj. Floor  
Cleanout w/Integrated Level



**CO-190-PR-60**  
Pronto; PVC Adj. Floor  
Cleanout w/Integrated Level



**CO-1100-C-R**  
Adj. Floor Cleanout with  
Round Stainless Steel Cover



**CO-1100-C-S**  
Adj. Floor Cleanout with  
Square Stainless Steel Cover



**CO-200-H**  
Elastomeric Flange



**CO-200-R**  
Round NB Top



Consult factory for all applications outside of listed parameters.  
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# Cleanouts

## Pictorial Index



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# Cleanouts

## Pictorial Index



**CO-410**  
Floor Access Housing



**WUCO**  
Wall Cleanout w/Poly Plug



**CO-450-RD**  
CI Wall Cleanout



**CO-460**  
Stack Cleanout



**CO-460-RD**  
Stack Cleanout w/SS cover



**CO-480-RD**  
SS Cover & Screw



**CO-590**  
Brass Plug



**CO-590-RD**  
Wall Cleanout with  
Brass Plug



**CO-600-R**  
Isolation Cleanout



**CO-1190-PR**  
Pronto; Cast Iron Adj. Floor  
Cleanout w/Integrated Level



**CO-1190-PR-60**  
Pronto; PVC Adj. Floor  
Cleanout w/Integrated Level



**CO-1200-R**  
HD Round SS Top



**CO-1200-RX**  
XHD Round SS Top



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# Cleanouts

## Cleanout Selection Factors

### Materials

#### Cast iron epoxy coated\*

Industrial grade cast iron, finished with Watts gray acid resistant epoxy coating.

*NOTE: Watts Drainage standard epoxy coating is designed for interim protection of iron components during processing, shipping, and construction. It is not intended to protect surfaces subject to traffic, or environmental conditions. Exposed iron surfaces should be expected to show surface oxidation (rusting) after a short period of time.*

#### Nickel bronze

Nickel bronze alloy is homogenous, highly resistant to wear, and will not be discolored by weather or traffic. Appearance is silvery, and compliments most interior and exterior finishes.

#### Stainless steel

In accordance with ASTM A-351-Grade CF8 (Type 304) standard specification. Highly durable and resistant to corrosion.

#### Ductile iron epoxy coated\*

Superior impact resistance and durability compared to standard cast iron. Watts supplies ductile iron drain grates standard, finished with gray acid resistant epoxy coating.

#### PVC or ABS

Most floor and area drains can be specified with optional PVC (-60) or ABS (-61) plastic bodies for direct sch. 40 solvent weld connection.

### Pipe Connections

#### No hub (standard)

Butt connection using a no hub or neoprene coupling. Suitable for cast iron, plastic, and most other piping applications.

#### Push-on (-P)

ASTM C-564 gasket connection, with pipe stop. Suitable for no hub or service weight cast iron, sch. 40 plastic, and steel pipe. Not recommended for above grade.

#### Inside caulk (-X)

Used for lead and oakum joints, pipe is inserted through a caulk ring on the drain outlet.

#### PVC (-60) or ABS (-61) socket

For direct solvent weld connection to sch. 40 plastic pipe.

#### Threaded (-THD)

Female threaded outlet for connection to IPS threaded pipe.

### Load Ratings

Load ratings are based upon maximum anticipated traffic, in accordance with American National Standards AMSE A112.21.1M. See specification pages for specific load rating data.

**Light Duty (LD)** - Safe live load under 2000 obs.

**Medium Duty (MD)** - Safe live load 2000-4999 lbs.

**Heavy Duty (HD)** - Safe live load 5000-7499 lbs.

**Extra Heavy Duty (XHD)** - Safe live load 7500-10,000 lbs.

**Special Duty (SD)** - Safe live load over 10,000 lbs.

### Design Considerations

#### Cleanout Plugs

Straight thread ANSI gasketed brass plugs are standard in all metal cleanouts. PVC/ABS cleanouts are supplied with a two-piece gasket seal poly plug. All Watts cleanout plugs are gastight, water tight, removable, and hold test.

#### Finished/Unfinished Areas

Finished area top specifications should be nickel bronze, or optional stainless steel. Ductile iron is typically used in unfinished areas, where appearance is not a primary concern.

#### Fixed/Adjustable Tops

Adjustable top drains enable vertical adjustment of the top assembly, to more easily match the finished floor level.

### Commonly Specified Options

#### -6 Vandal Proof

Grate secured with Allen Head screws. Security screws (Torx & Pin, Allen and Pin) may be specified for high security applications.

#### -12 Hot Dipped Galvanized

Standard zinc galvanizing, commonly specified above grade in highly corrosive coastal environments or industrial areas.

#### -C Membrane Clamp

Specified in floors with a waterproofing membrane, generally in above grade applications.

#### -CF Carpet Clamping Flange

For CO-200-R, securely clamps carpeting to the cleanout cover.

#### -US Buy American Compliant

Product will be supplied with minimum 51% domestic content, in compliance with FAR 52.225-9 Buy American Act.

Consult factory for all applications outside of listed parameters.

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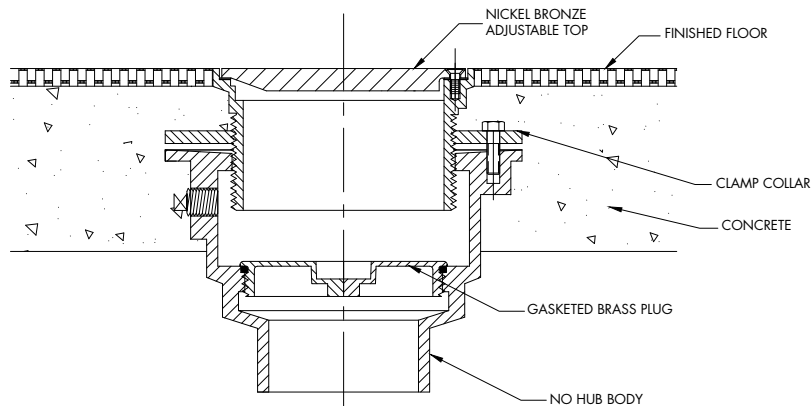


# Cleanouts

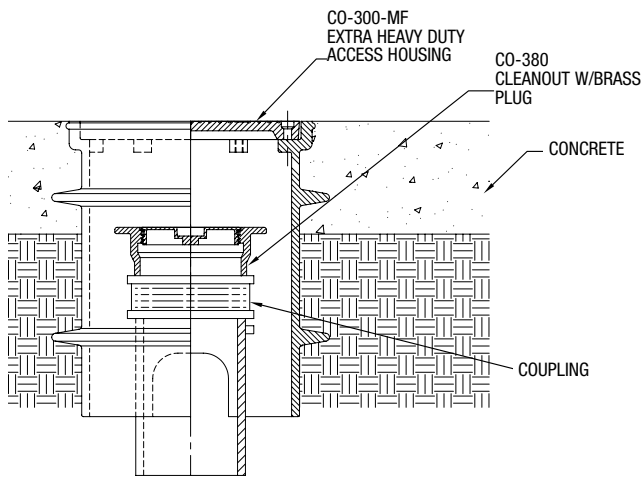
## Recommendations

| Application                    | Product  | Application                      | Product                         |
|--------------------------------|--|----------------------------------|---------------------------------|
| Basement areas                 | CO-200-RX-4, CO-390-E                          | Outdoor walkways                 | CO-200-RX, CO-200-SX            |
| Clinical & surgical areas      | CO-1200-R-28, CO-1200-S-28                     | Rubberized poured flooring       | CO-200-H                        |
| Floor access covers            | CO-300-R, CO-300-S, CO-410                     | Rubberized sheet flooring        | CO-200-RFC7                     |
| Food preparation areas         | CO-1200-R, CO-1200-S                           | Sanitary manufacturing areas     | CO-1200-RX-28, CO-1200-SX-28    |
| Garage and service bays        | CO-260, CO-270                                 | Stack bases                      | CO-460, CO-460-RD               |
| Industrial and warehouse areas | CO-200-RX, CO-200-RX-4, CO-200-SX, CO-200-SX-4 | Stairwells                       | CO-200-RX-4, CO-390-E           |
| Interior carpeted areas        | CO-200-RC, CO-200-CF                           | Terrazzo floors (recessed cover) | CO-200-U, CO-200-US             |
| Interior finished areas        | CO-200-R, CO-200-S                             | Tile floors (recessed cover)     | CO-200-T, CO-200-TS             |
| Maintenance & boiler rooms     | CO-200-RX-4, CO-380                            | Wall access covers               | CO-480-RD                       |
| Outdoor parking areas          | CO-300-MF                                      | Wall stubouts                    | CO-440-RD, CO-450-RD, CO-590-RD |

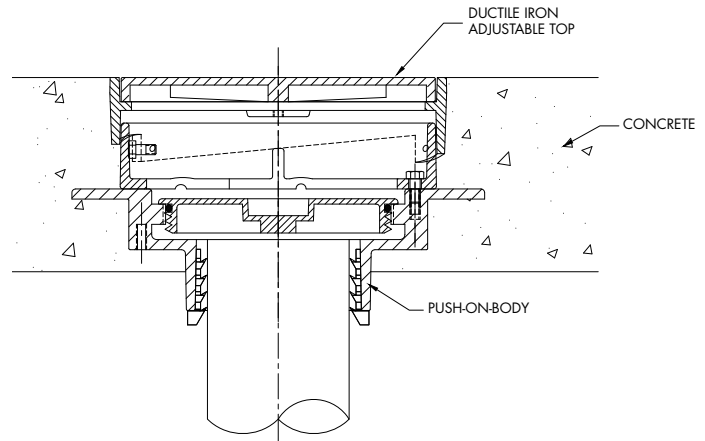
## Typical Installations



**CO-200-R**  
FINISHED AREA ABOVE GRADE



**CO-300-MF w/CO-380**  
EXTERIOR YARD AREA



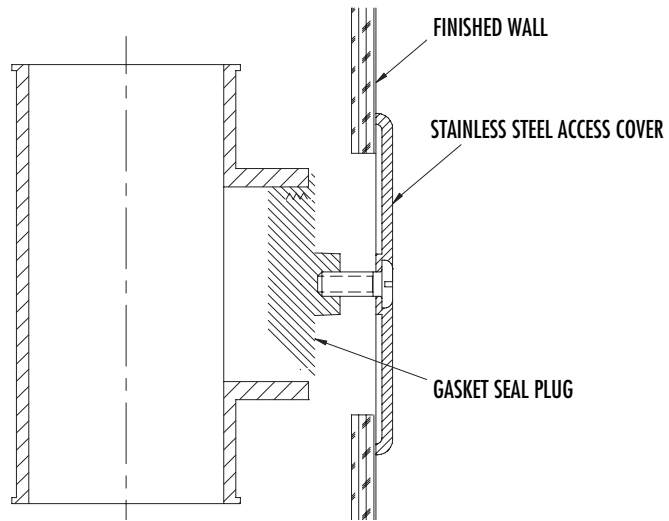
**CO-260P**  
UNFINISHED AREA ON GRADE



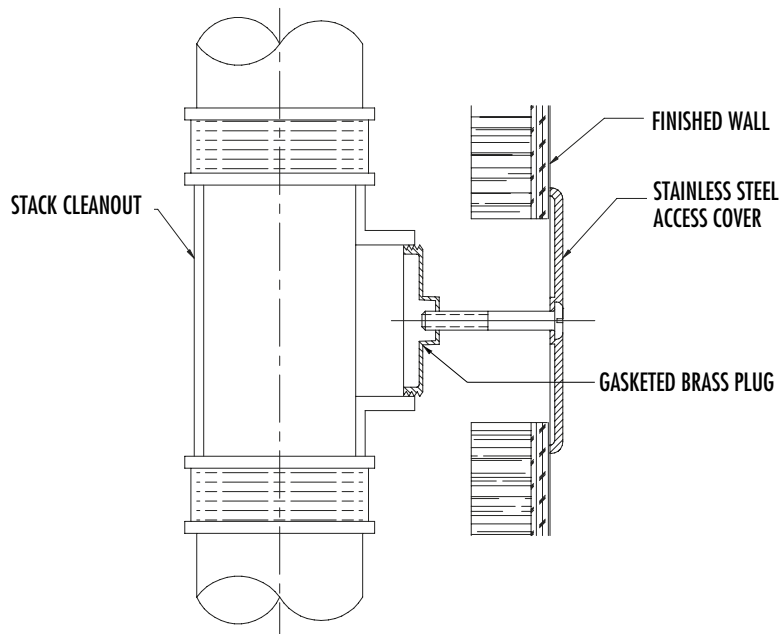
Consult factory for all applications outside of listed parameters.  
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# Cleanouts

## Typical Installations



**WUCO**  
WALL STUB-OUT



**CO-460-RD**  
VERTICAL STACK

# Adjustable Floor Cleanouts for Membrane Area

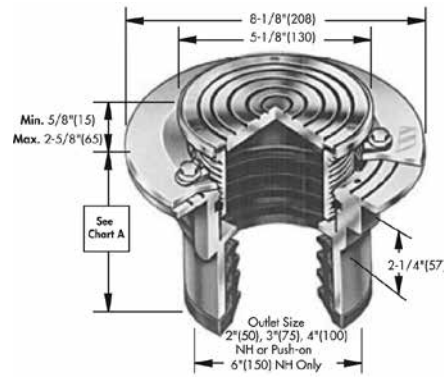
## CO-100-C-R

### Floor Cleanout with Round Top

| Model Number       | Wt. Lbs. | Pipe Size | Cover         | List Price |
|--------------------|----------|-----------|---------------|------------|
| CO-102, 3, 4-C-R-1 | 10       | 2, 3, 4"  | nickel bronze | \$CF**     |
| CO-106-C-R-1       | 15       | 6"        | nickel bronze | 573.90     |

Chart A

| Pipe Size | NH         | Push-On     | PVC/ABS    |
|-----------|------------|-------------|------------|
| 2"(51)    | 3 5/8"(92) | 4 1/4"(108) | 3 3/4"(94) |
| 3"(76)    | 3 5/8"(92) | 4 1/4"(108) | 3 3/4"(94) |
| 4"(102)   | 3 5/8"(92) | 4 1/4"(108) | 4"(102)    |
| 6"(152)   | 3 1/2"(89) |             |            |



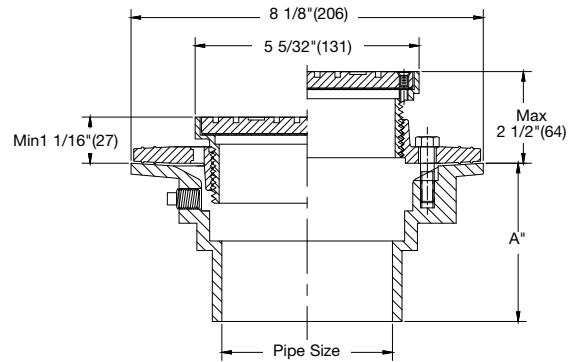
## CO-100-C-XHR5

### Floor Cleanout with Heavy Duty Round Top

| Model Number    | Wt. Lbs. | Pipe Size | Cover         | List Price |
|-----------------|----------|-----------|---------------|------------|
| CO-100-C-XHR5-1 | 10       | 2, 3, 4"  | nickel bronze | \$645.44   |
| CO-100-C-XHR5-4 | 10       | 2-4"      | ductile iron  | 454.20     |
| CO-100-C-XHR5-1 | 10       | 6"        | nickel bronze | 645.44     |
| CO-100-C-XHR5-4 | 10       | 6"        | ductile iron  | 454.20     |

Chart A

| Pipe Size | NH         | Push-On     | Female Thread | Inside Caulk | PVC/ABS    |
|-----------|------------|-------------|---------------|--------------|------------|
| 2"(51)    | 3 5/8"(92) | 4 1/4"(108) | 4 1/4"(108)   | 4 1/2"(114)  | 3 3/4"(94) |
| 3"(76)    | 3 5/8"(92) | 4 1/4"(108) | 4 1/4"(108)   | 4 1/2"(114)  | 3 3/4"(94) |
| 4"(102)   | 3 5/8"(92) | 4 1/4"(108) | 4 1/4"(108)   | 4 1/2"(114)  | 4"(102)    |
| 6"(152)   | 3 1/2"(89) |             |               |              |            |



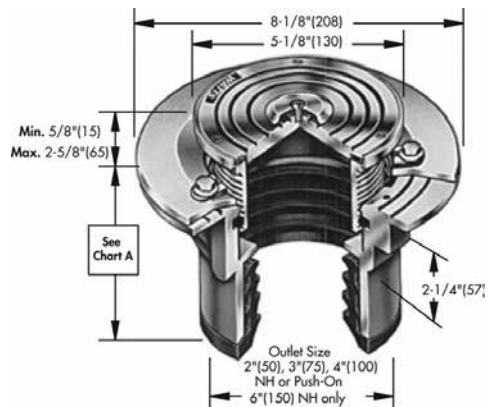
## CO-100-C-RC

### Floor Cleanout with Round Top, Carpet Marker

| Model Number        | Wt. Lbs. | Pipe Size | Cover         | List Price |
|---------------------|----------|-----------|---------------|------------|
| CO-102, 3, 4-C-RC-1 | 10       | 2, 3, 4"  | nickel bronze | \$CF**     |
| CO-106-C-RC-1       | 10       | 6"        | nickel bronze | 557.74     |

Chart A

| Pipe Size | NH         | Push-On     | PVC/ABS    |
|-----------|------------|-------------|------------|
| 2"(51)    | 3 5/8"(92) | 4 1/4"(108) | 3 3/4"(94) |
| 3"(76)    | 3 5/8"(92) | 4 1/4"(108) | 3 3/4"(94) |
| 4"(102)   | 3 5/8"(92) | 4 1/4"(108) | 4"(102)    |
| 6"(152)   | 3 1/2"(89) |             |            |



### Options for CO-100 Series:

| Suffix | Description           | List Price | Suffix | Description                 | List Price |
|--------|-----------------------|------------|--------|-----------------------------|------------|
| P      | Push-On Outlet        | \$48.75    | -34G   | Gastight ABS Expansion Plug | \$111.50   |
| T      | Threaded Outlet       | 115.00     | -60    | PVC Body w/Socket Outlet    | 36.50      |
| -6     | Vandal Proof          | 115.00     | -61    | ABS Body w/Socket Outlet    | 36.50      |
| -12    | Hot Dipped Galvanized | 177.00     | -113M  | Special Epoxy from 3M Range | 144.00     |



Consult factory for all applications outside of listed parameters.  
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# Adjustable Floor Cleanouts for Membrane Area

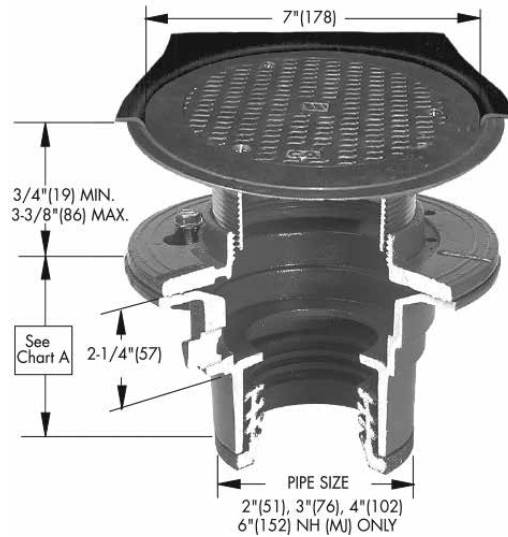
**CO-100-C-RC-7**

**Surface Membrane Cleanout**

| Model Number          | Wt. Lbs. | Pipe Size | Cover         | List Price |
|-----------------------|----------|-----------|---------------|------------|
| CO-102, 3, 4-C-RFC7-1 | 10       | 2, 3, 4"  | nickel bronze | \$879.14   |

**Chart A**

| Pipe Size | NH         | Push-On     | PVC/ABS    |
|-----------|------------|-------------|------------|
| 2"(51)    | 3 5/8"(92) | 4 1/4"(108) | 3 3/4"(94) |
| 3"(76)    | 3 5/8"(92) | 4 1/4"(108) | 3 3/4"(94) |
| 4"(102)   | 3 5/8"(92) | 4 1/4"(108) | 4"(102)    |
| 6"(152)   | 3 1/2"(89) |             |            |



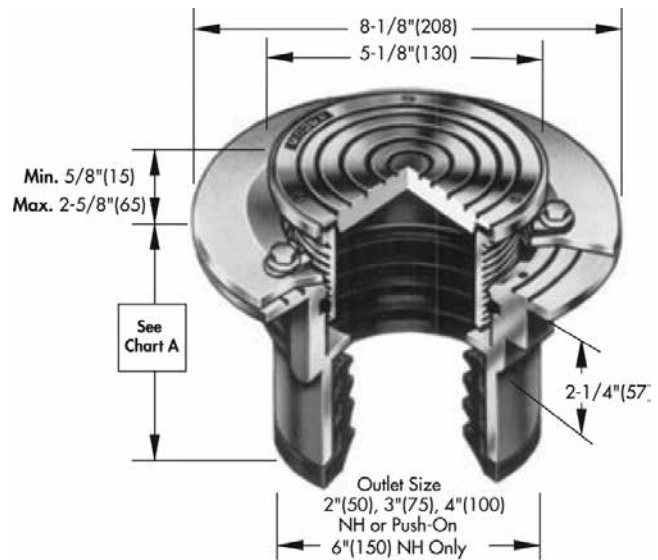
**CO-100-C-RX**

**Floor Cleanout with Heavy Duty Round Top**

| Model Number        | Wt. Lbs. | Pipe Size | Cover         | List Price |
|---------------------|----------|-----------|---------------|------------|
| CO-102, 3, 4-C-RX-1 | 10       | 2, 3, 4"  | nickel bronze | \$CF**     |
| CO-106-C-RX-1       | 10       | 6"        | nickel bronze | 687.59     |
| CO-102, 3, 4-C-RX-4 | 10       | 2, 3, 4"  | ductile iron  | CF**       |
| CO-106-C-RX-4       | 10       | 6"        | ductile iron  | 494.33     |

**Chart A**

| Pipe Size | NH         | Push-On     | PVC/ABS    |
|-----------|------------|-------------|------------|
| 2"(51)    | 3 5/8"(92) | 4 1/4"(108) | 3 3/4"(94) |
| 3"(76)    | 3 5/8"(92) | 4 1/4"(108) | 3 3/4"(94) |
| 4"(102)   | 3 5/8"(92) | 4 1/4"(108) | 4"(102)    |
| 6"(152)   | 3 1/2"(89) |             |            |



## Options for CO-100 Series:

| Suffix | Description           | List Price | Suffix | Description                 | List Price |
|--------|-----------------------|------------|--------|-----------------------------|------------|
| P      | Push-On Outlet        | \$48.75    | -34G   | Gastight ABS Expansion Plug | \$111.50   |
| T      | Threaded Outlet       | 115.00     | -60    | PVC Body w/Socket Outlet    | 36.50      |
| -6     | Vandal Proof          | 115.00     | -61    | ABS Body w/Socket Outlet    | 36.50      |
| -12    | Hot Dipped Galvanized | 177.00     | -113M  | Special Epoxy from 3M Range | 144.00     |

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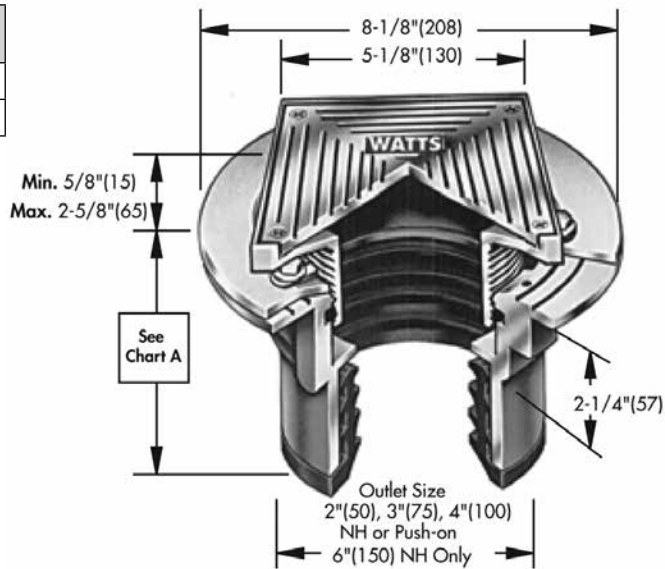
# Adjustable Floor Cleanouts for Membrane Area

## CO-100-C-S Floor Cleanout with Square Top

| Model Number       | Wt. Lbs. | Pipe Size | Cover         | List Price |
|--------------------|----------|-----------|---------------|------------|
| CO-102, 3, 4-C-S-1 | 10       | 2, 3, 4"  | nickel bronze | \$CF**     |
| CO-106-C-S-1       | 15       | 6"        | nickel bronze | 801.69     |

Chart A

| Pipe Size | NH         | Push-On     | PVC/ABS    |
|-----------|------------|-------------|------------|
| 2"(51)    | 3 5/8"(92) | 4 1/4"(108) | 3 3/4"(94) |
| 3"(76)    | 3 5/8"(92) | 4 1/4"(108) | 3 3/4"(94) |
| 4"(102)   | 3 5/8"(92) | 4 1/4"(108) | 4"(102)    |
| 6"(152)   | 3 1/2"(89) |             |            |

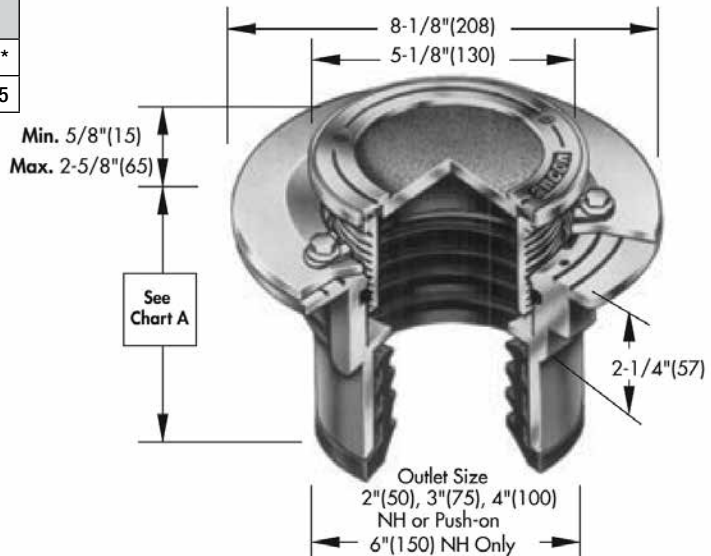


## CO-100-C-T Floor Cleanout with Round Top, Tile Recess

| Model Number       | Wt. Lbs. | Pipe Size | Cover         | List Price |
|--------------------|----------|-----------|---------------|------------|
| CO-102, 3, 4-C-T-1 | 10       | 2, 3, 4"  | nickel bronze | \$CF**     |
| CO-106-C-T-1       | 15       | 6"        | nickel bronze | 582.15     |

Chart A

| Pipe Size | NH         | Push-On     | PVC/ABS    |
|-----------|------------|-------------|------------|
| 2"(51)    | 3 5/8"(92) | 4 1/4"(108) | 3 3/4"(94) |
| 3"(76)    | 3 5/8"(92) | 4 1/4"(108) | 3 3/4"(94) |
| 4"(102)   | 3 5/8"(92) | 4 1/4"(108) | 4"(102)    |
| 6"(152)   | 3 1/2"(89) |             |            |



## Options for CO-100 Series:

| Suffix | Description           | List Price | Suffix | Description                 | List Price |
|--------|-----------------------|------------|--------|-----------------------------|------------|
| P      | Push-On Outlet        | \$48.75    | -34G   | Gastight ABS Expansion Plug | \$111.50   |
| T      | Threaded Outlet       | 115.00     | -60    | PVC Body w/Socket Outlet    | 36.50      |
| -6     | Vandal Proof          | 115.00     | -61    | ABS Body w/Socket Outlet    | 36.50      |
| -12    | Hot Dipped Galvanized | 177.00     | -113M  | Special Epoxy from 3M Range | 144.00     |

**WATTS**® Consult factory for all applications outside of listed parameters.  
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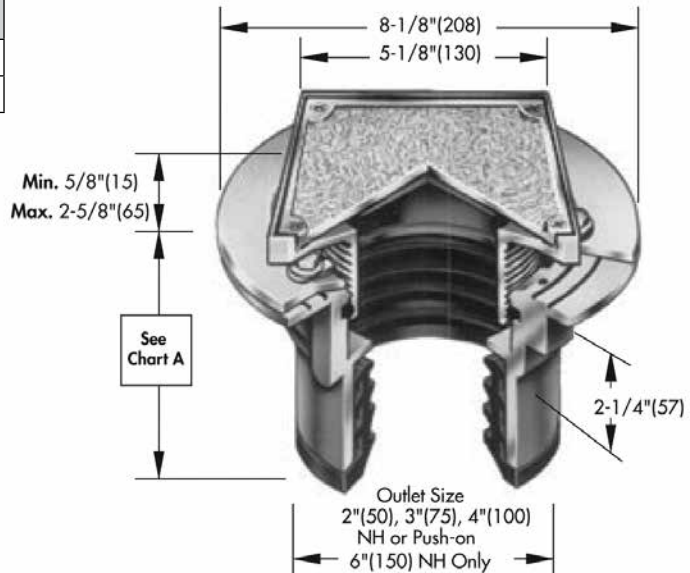
# Adjustable Floor Cleanouts for Membrane Area

## CO-100-C-TS Floor Cleanout with Square Top, Tile Recess

| Model Number        | Wt. Lbs. | Pipe Size | Cover         | List Price |
|---------------------|----------|-----------|---------------|------------|
| CO-102, 3, 4-C-TS-1 | 10       | 2, 3, 4"  | nickel bronze | \$CF**     |
| CO-106-C-TS-1       | 15       | 6"        | nickel bronze | 231.96     |

Chart A

| Pipe Size | NH         | Push-On     | PVC/ABS    |
|-----------|------------|-------------|------------|
| 2"(51)    | 3 5/8"(92) | 4 1/4"(108) | 3 3/4"(94) |
| 3"(76)    | 3 5/8"(92) | 4 1/4"(108) | 3 3/4"(94) |
| 4"(102)   | 3 5/8"(92) | 4 1/4"(108) | 4"(102)    |
| 6"(152)   | 3 1/2"(89) |             |            |

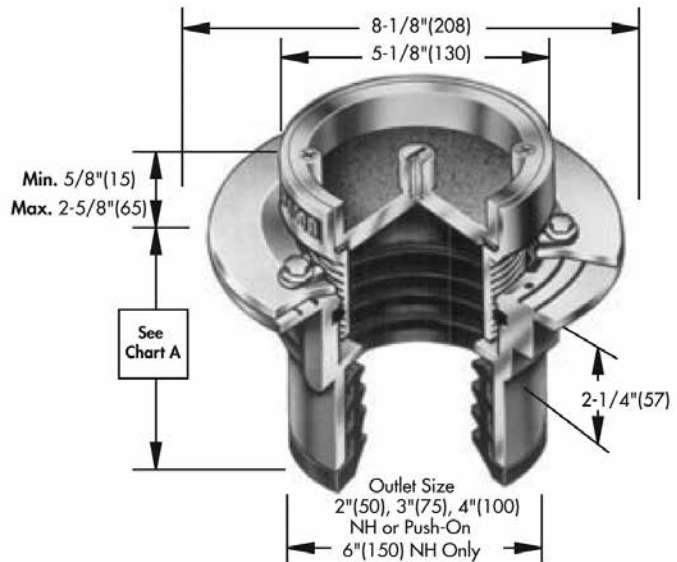


## CO-100-C-U Floor Cleanout with Round Top, Terrazzo Recess

| Model Number       | Wt. Lbs. | Pipe Size | Cover         | List Price |
|--------------------|----------|-----------|---------------|------------|
| CO-102, 3, 4-C-U-1 | 10       | 2, 3, 4"  | nickel bronze | \$CF**     |
| CO-106-C-U-1       | 15       | 6"        | nickel bronze | 878.16     |

Chart A

| Pipe Size | NH         | Push-On     | PVC/ABS    |
|-----------|------------|-------------|------------|
| 2"(51)    | 3 5/8"(92) | 4 1/4"(108) | 3 3/4"(94) |
| 3"(76)    | 3 5/8"(92) | 4 1/4"(108) | 3 3/4"(94) |
| 4"(102)   | 3 5/8"(92) | 4 1/4"(108) | 4"(102)    |
| 6"(152)   | 3 1/2"(89) |             |            |



## Options for CO-100 Series:

| Suffix | Description           | List Price | Suffix | Description                 | List Price |
|--------|-----------------------|------------|--------|-----------------------------|------------|
| P      | Push-On Outlet        | \$48.75    | -34G   | Gastight ABS Expansion Plug | \$111.50   |
| T      | Threaded Outlet       | 115.00     | -60    | PVC Body w/Socket Outlet    | 36.50      |
| -6     | Vandal Proof          | 115.00     | -61    | ABS Body w/Socket Outlet    | 36.50      |
| -12    | Hot Dipped Galvanized | 177.00     | -113M  | Special Epoxy from 3M Range | 144.00     |

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# Adjustable Floor Cleanouts for Membrane Area

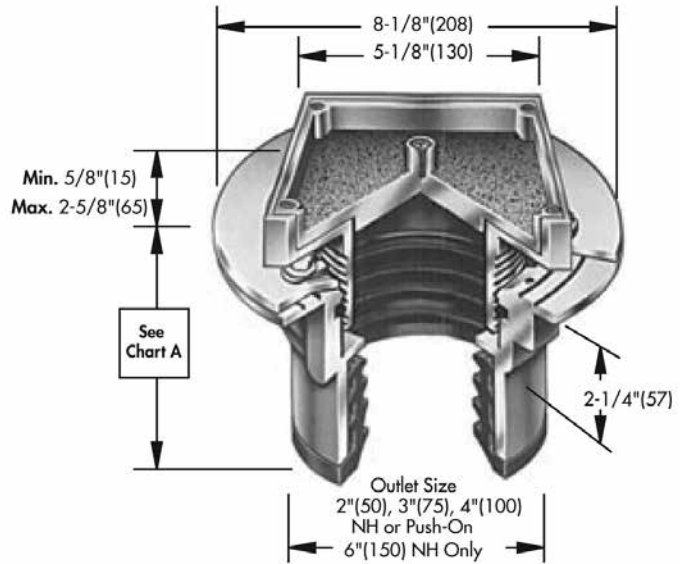
**CO-100-C-US**

**Floor Cleanout with Square Top, Terrazzo Recess**

| Model Number        | Wt. Lbs. | Pipe Size | Cover         | List Price |
|---------------------|----------|-----------|---------------|------------|
| CO-102, 3, 4-C-US-1 | 10       | 2, 3, 4"  | nickel bronze | \$CF**     |
| CO-106-C-US-1       | 15       | 6"        | nickel bronze | 918.80     |

Chart A

| Pipe Size | NH         | Push-On     | PVC/ABS    |
|-----------|------------|-------------|------------|
| 2"(51)    | 3 5/8"(92) | 4 1/4"(108) | 3 3/4"(94) |
| 3"(76)    | 3 5/8"(92) | 4 1/4"(108) | 3 3/4"(94) |
| 4"(102)   | 3 5/8"(92) | 4 1/4"(108) | 4"(102)    |
| 6"(152)   | 3 1/2"(89) |             |            |



## Options for CO-100 Series:

| Suffix | Description           | List Price | Suffix | Description                 | List Price |
|--------|-----------------------|------------|--------|-----------------------------|------------|
| P      | Push-On Outlet        | \$48.75    | -34G   | Gastight ABS Expansion Plug | \$111.50   |
| T      | Threaded Outlet       | 115.00     | -60    | PVC Body w/Socket Outlet    | 36.50      |
| -6     | Vandal Proof          | 115.00     | -61    | ABS Body w/Socket Outlet    | 36.50      |
| -12    | Hot Dipped Galvanized | 177.00     | -113M  | Special Epoxy from 3M Range | 144.00     |



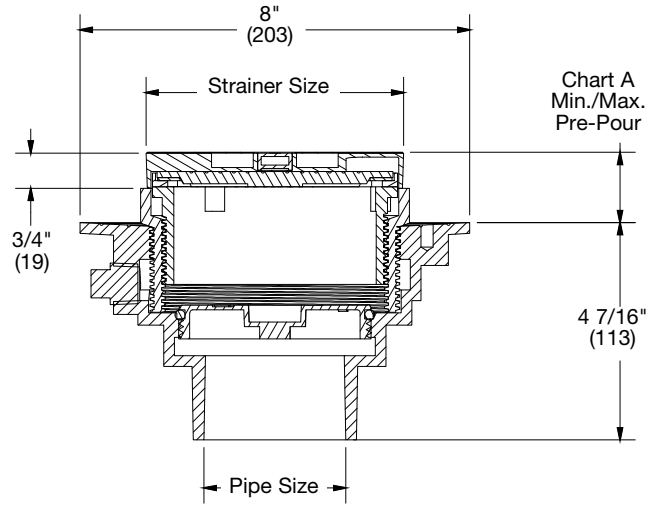
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# Adjustable Floor Cleanouts

CO-190-PR

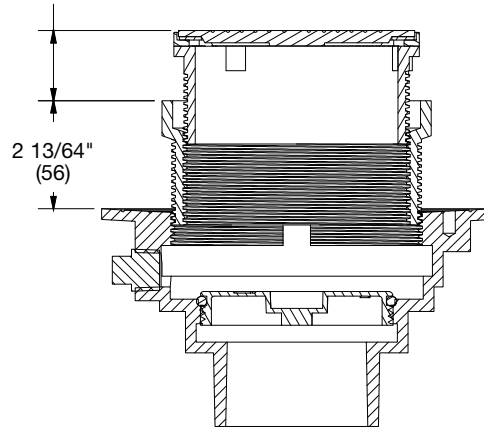
Pronto!® Cast Iron Floor Cleanout with Integrated Level

| Model Number | Wt., Lbs. | Pipe Size | Cover Size | Cover         | List Price |
|--------------|-----------|-----------|------------|---------------|------------|
| CO-192-PR5   | 14        | 2"(51)    | 5"(127)    | nickel bronze | \$CF**     |
| CO-192-PR6   | 16        | 2"(51)    | 6"(152)    | nickel bronze | CF**       |
| CO-193-PR5   | 14        | 3"(76)    | 5"(127)    | nickel bronze | CF**       |
| CO-193-PR6   | 16        | 3"(76)    | 6"(152)    | nickel bronze | CF**       |
| CO-194-PR5   | 14        | 4"(102)   | 5"(127)    | nickel bronze | CF**       |
| CO-194-PR6   | 16        | 4"(102)   | 6"(152)    | nickel bronze | CF**       |
| CO-192P-PR5  | 13        | 2"(51)    | 5"(127)    | nickel bronze | CF**       |
| CO-192P-PR6  | 15        | 2"(51)    | 6"(152)    | nickel bronze | CF**       |
| CO-193P-PR5  | 13        | 3"(76)    | 5"(127)    | nickel bronze | CF**       |
| CO-193P-PR6  | 15        | 3"(76)    | 6"(152)    | nickel bronze | CF**       |
| CO-194P-PR5  | 13        | 4"(102)   | 5"(127)    | nickel bronze | CF**       |
| CO-194P-PR6  | 15        | 4"(102)   | 6"(152)    | nickel bronze | CF**       |



**PATENTED**

0-1" Adj. Post-Pour



Patent No. USD897503 and Patents Pending

| Chart A    |             |              |             |
|------------|-------------|--------------|-------------|
| Cover Size | Min.        | Max.         | Load Rating |
| 5"(127)    | 1 7/16"(37) | 2 15/16"(75) | MD          |
| 6"(152)    | 1 7/16"(37) | 2 15/16"(75) | LD          |

| Chart B   |              |             |
|-----------|--------------|-------------|
| Pipe Size | Std. No Hub  | P Push On   |
| 2"(51)    | 4 7/16"(113) | 4 7/8"(124) |
| 3"(76)    | 4 7/16"(113) | 4 7/8"(124) |
| 4"(102)   | 4 7/16"(113) | 4 7/8"(124) |

## Options for CO-190-PR Series:

| Suffix | Description       | List Price |
|--------|-------------------|------------|
| C      | SS Membrane Clamp | \$378.50   |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

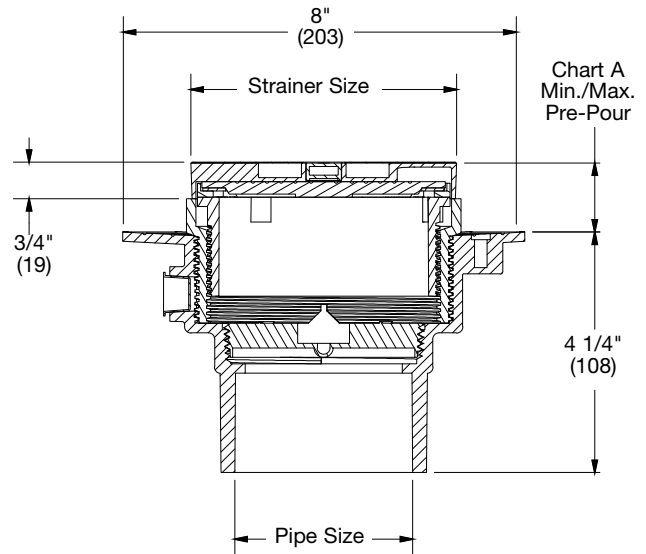




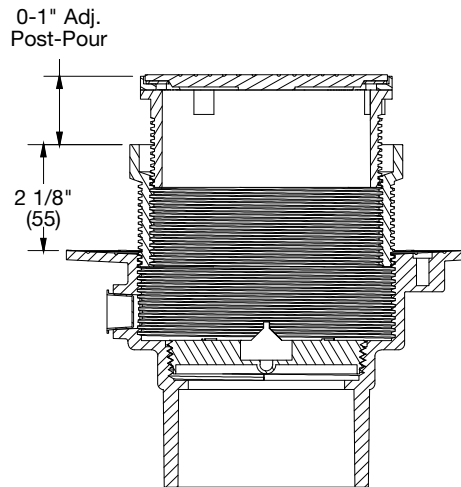
# Adjustable Floor Cleanouts

## CO-190-PR-60 Pronto!® PVC Floor Cleanout with Integrated Level

| Model Number   | Wt., Lbs. | Pipe Size | Cover Size | Cover         | List Price |
|----------------|-----------|-----------|------------|---------------|------------|
| CO-192-PR5-60  | 5         | 2"(51)    | 5"(127)    | nickel bronze | SCF**      |
| CO-192-PR6-60  | 6         | 2"(51)    | 6"(152)    | nickel bronze | CF**       |
| CO-193-PR5-60  | 5         | 3"(76)    | 5"(127)    | nickel bronze | CF**       |
| CO-193-PR6-60  | 6         | 3"(76)    | 6"(152)    | nickel bronze | CF**       |
| CO-194-PR5-60  | 5         | 4"(102)   | 5"(127)    | nickel bronze | 1,216.15   |
| CO-194-PR6-60  | 6         | 4"(102)   | 6"(152)    | nickel bronze | CF**       |
| CO-192N-PR5-60 | 4         | 2"(51)    | 5"(127)    | nickel bronze | CF**       |
| CO-192N-PR6-60 | 5         | 2"(51)    | 6"(152)    | nickel bronze | CF**       |
| CO-193N-PR5-60 | 4         | 3"(76)    | 5"(127)    | nickel bronze | CF**       |
| CO-193N-PR6-60 | 5         | 3"(76)    | 6"(152)    | nickel bronze | CF**       |
| CO-194N-PR5-60 | 4         | 4"(102)   | 5"(127)    | nickel bronze | CF**       |
| CO-194N-PR6-60 | 5         | 4"(102)   | 6"(152)    | nickel bronze | CF**       |



**PATENTED**



Patent No. USD897503 and Patents Pending

| Chart A    |             |              |             |
|------------|-------------|--------------|-------------|
| Cover Size | Min.        | Max.         | Load Rating |
| 5"(127)    | 1 7/16"(37) | 2 15/16"(75) | MD          |
| 6"(152)    | 1 7/16"(37) | 2 15/16"(75) | LD          |

| Chart B   |             |             |
|-----------|-------------|-------------|
| Pipe Size | Std. 60 PVC | No Hub      |
| 2"(51)    | 4 1/4"(108) | 4 3/4"(121) |
| 3"(76)    | 4 1/4"(108) | 4 3/4"(121) |
| 4"(102)   | 4 1/4"(108) | 4 3/4"(121) |

### Options for CO-190-PR Series:

| Suffix | Description       | List Price |
|--------|-------------------|------------|
| C      | SS Membrane Clamp | \$378.50   |



Consult factory for all applications outside of listed parameters. Prices do not include applicable taxes.

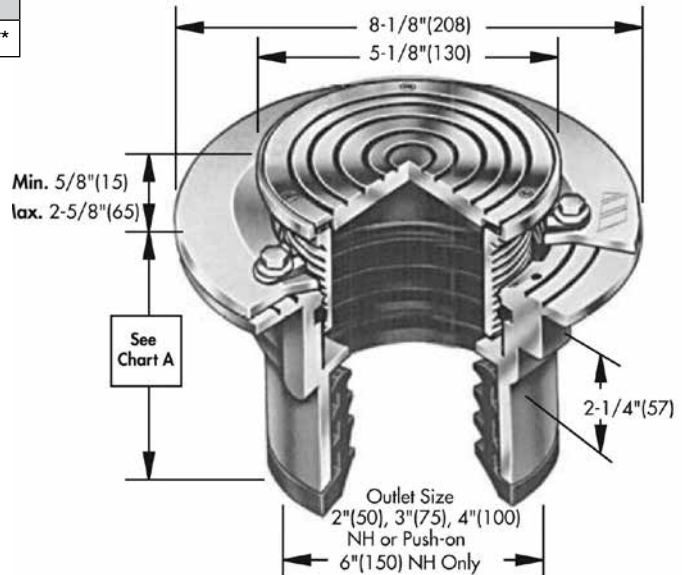
# Adjustable Floor Cleanouts for Membrane Area

## CO-1100-C-RX Adjustable Floor Cleanout with Round Stainless Steel Cover

| Model Number         | Wt. Lbs. | Pipe Size | Cover           | List Price |
|----------------------|----------|-----------|-----------------|------------|
| CO-1102, 3, 4-C-RX-3 | 13       | 2, 3, 4"  | stainless steel | \$CF**     |

Chart A

| Pipe Size | NH         | Push-On     | PVC/ABS    |
|-----------|------------|-------------|------------|
| 2"(51)    | 3 5/8"(92) | 4 1/4"(108) | 3 3/4"(94) |
| 3"(76)    | 3 5/8"(92) | 4 1/4"(108) | 3 3/4"(94) |
| 4"(102)   | 3 5/8"(92) | 4 1/4"(108) | 4"(102)    |
| 6"(152)   | 3 1/2"(89) |             |            |

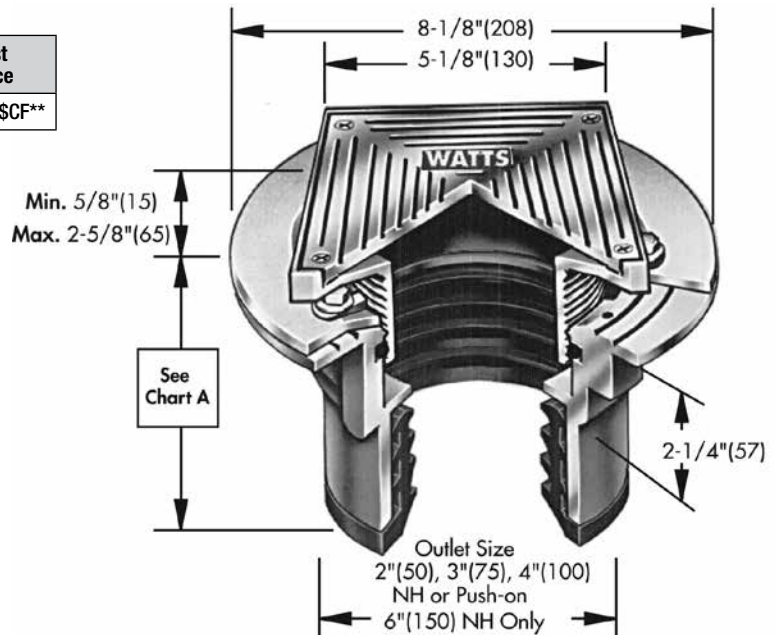


## CO-1100-C-S Adjustable Floor Cleanout with Stainless Steel Cover

| Model Number        | Wt. Lbs. | Pipe Size | Cover           | List Price |
|---------------------|----------|-----------|-----------------|------------|
| CO-1102, 3, 4-C-S-3 | 14       | 2, 3, 4"  | stainless steel | \$CF**     |

Chart A

| Pipe Size | NH         | Push-On     | PVC/ABS    |
|-----------|------------|-------------|------------|
| 2"(51)    | 3 5/8"(92) | 4 1/4"(108) | 3 3/4"(94) |
| 3"(76)    | 3 5/8"(92) | 4 1/4"(108) | 3 3/4"(94) |
| 4"(102)   | 3 5/8"(92) | 4 1/4"(108) | 4"(102)    |
| 6"(152)   | 3 1/2"(89) |             |            |



### Options for CO-1100 Series:

| Suffix | Description           | List Price | Suffix | Description                 | List Price |
|--------|-----------------------|------------|--------|-----------------------------|------------|
| P      | Push-On Outlet        | \$48.75    | -34G   | Gastight ABS Expansion Plug | \$111.50   |
| T      | Threaded Outlet       | 115.00     | -60    | PVC Body w/Socket Outlet    | 36.50      |
| -6     | Vandal Proof          | 115.00     | -61    | ABS Body w/Socket Outlet    | 36.50      |
| -12    | Hot Dipped Galvanized | 177.00     | -113M  | Special Epoxy from 3M Range | 144.00     |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

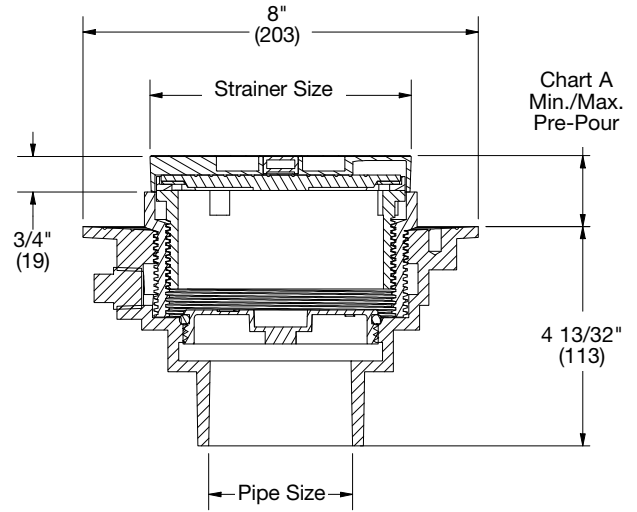


# Stainless Steel Top Floor Cleanouts

CO-1190-PR

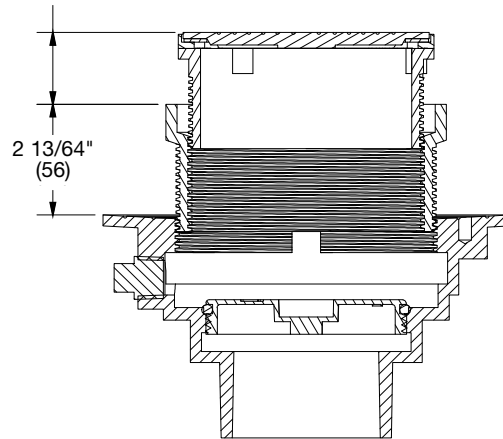
Pronto!® Cast Iron Adjustable Cleanout with Integrated Level

| Model Number | Wt., Lbs. | Pipe Size | Cover Size | Cover           | List Price |
|--------------|-----------|-----------|------------|-----------------|------------|
| CO-1192-PR5  | 14        | 2"(51)    | 5"(127)    | stainless steel | SCF**      |
| CO-1192-PR6  | 16        | 2"(51)    | 6"(152)    | stainless steel | CF**       |
| CO-1193-PR5  | 14        | 3"(76)    | 5"(127)    | stainless steel | CF**       |
| CO-1193-PR6  | 16        | 3"(76)    | 6"(152)    | stainless steel | CF**       |
| CO-1194-PR5  | 14        | 4"(102)   | 5"(127)    | stainless steel | 2,027.37   |
| CO-1194-PR6  | 16        | 4"(102)   | 6"(152)    | stainless steel | CF**       |
| CO-1192P-PR5 | 13        | 2"(51)    | 5"(127)    | stainless steel | CF**       |
| CO-1192P-PR6 | 15        | 2"(51)    | 6"(152)    | stainless steel | CF**       |
| CO-1193P-PR5 | 13        | 3"(76)    | 5"(127)    | stainless steel | CF**       |
| CO-1193P-PR6 | 15        | 3"(76)    | 6"(152)    | stainless steel | CF**       |
| CO-1194P-PR5 | 13        | 4"(102)   | 5"(127)    | stainless steel | CF**       |
| CO-1194P-PR6 | 15        | 4"(102)   | 6"(152)    | stainless steel | CF**       |



**PATENTED**

0-1" Adj. Post-Pour



Patent No. USD897503 and Patents Pending

| Chart A    |             |              |             |
|------------|-------------|--------------|-------------|
| Cover Size | Min.        | Max.         | Load Rating |
| 5"(127)    | 1 7/16"(37) | 2 15/16"(75) | MD          |
| 6"(152)    | 1 7/16"(37) | 2 15/16"(75) | LD          |

| Chart B   |              |             |
|-----------|--------------|-------------|
| Pipe Size | Std. No Hub  | P Push On   |
| 2"(51)    | 4 7/16"(113) | 4 7/8"(124) |
| 3"(76)    | 4 7/16"(113) | 4 7/8"(124) |
| 4"(102)   | 4 7/16"(113) | 4 7/8"(124) |

## Options for CO-1190-PR Series:

| Suffix | Description       | List Price |
|--------|-------------------|------------|
| C      | SS Membrane Clamp | \$378.50   |



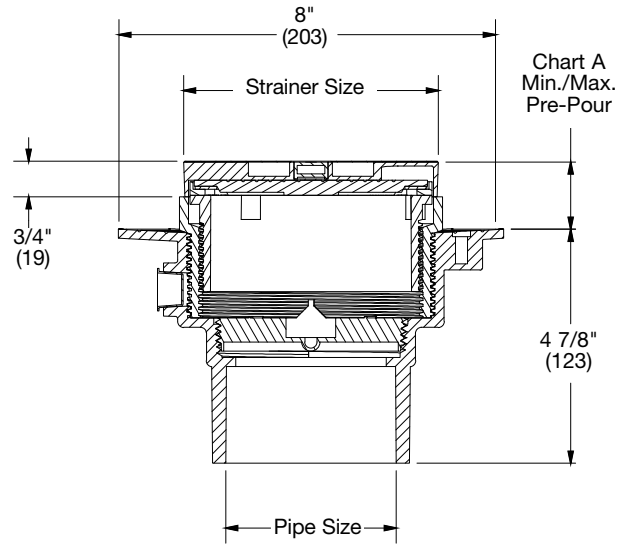
Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Stainless Steel Top Floor Cleanouts

CO-1190-PR-60

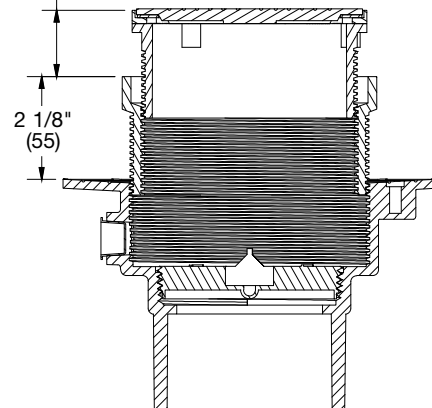
Pronto!® PVC Adjustable Cleanout with Integrated Level

| Model Number    | Wt., Lbs. | Pipe Size | Cover Size | Cover           | List Price |
|-----------------|-----------|-----------|------------|-----------------|------------|
| CO-1192-PR5-60  | 5         | 2"(51)    | 5"(127)    | stainless steel | \$CF**     |
| CO-1192-PR6-60  | 6         | 2"(51)    | 6"(152)    | stainless steel | CF**       |
| CO-1193-PR5-60  | 5         | 3"(76)    | 5"(127)    | stainless steel | 1,378.53   |
| CO-1193-PR6-60  | 6         | 3"(76)    | 6"(152)    | stainless steel | CF**       |
| CO-1194-PR5-60  | 5         | 4"(102)   | 5"(127)    | stainless steel | 226.63     |
| CO-1194-PR6-60  | 6         | 4"(102)   | 6"(152)    | stainless steel | CF**       |
| CO-1192N-PR5-60 | 4         | 2"(51)    | 5"(127)    | stainless steel | CF**       |
| CO-1192N-PR6-60 | 5         | 2"(51)    | 6"(152)    | stainless steel | CF**       |
| CO-1193N-PR5-60 | 4         | 3"(76)    | 5"(127)    | stainless steel | CF**       |
| CO-1193N-PR6-60 | 5         | 3"(76)    | 6"(152)    | stainless steel | CF**       |
| CO-1194N-PR5-60 | 4         | 4"(102)   | 5"(127)    | stainless steel | CF**       |
| CO-1194N-PR6-60 | 5         | 4"(102)   | 6"(152)    | stainless steel | CF**       |



**PATENTED**

0-1" Adj. Post-Pour



Patent No. USD897503 and Patents Pending

| Chart A    |             |              |             |
|------------|-------------|--------------|-------------|
| Cover Size | Min.        | Max.         | Load Rating |
| 5"(127)    | 1 7/16"(37) | 2 15/16"(75) | MD          |
| 6"(152)    | 1 7/16"(37) | 2 15/16"(75) | LD          |

| Chart B   |             |             |
|-----------|-------------|-------------|
| Pipe Size | Std. 60 PVC | No Hub      |
| 2"(51)    | 4 1/4"(108) | 4 3/4"(121) |
| 3"(76)    | 4 1/4"(108) | 4 3/4"(121) |
| 4"(102)   | 4 1/4"(108) | 4 3/4"(121) |

## Options for CO-1190-PR-60 Series:

| Suffix | Description       | List Price |
|--------|-------------------|------------|
| C      | SS Membrane Clamp | \$390.00   |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



# Adjustable Floor Cleanouts

**CO-200-R**

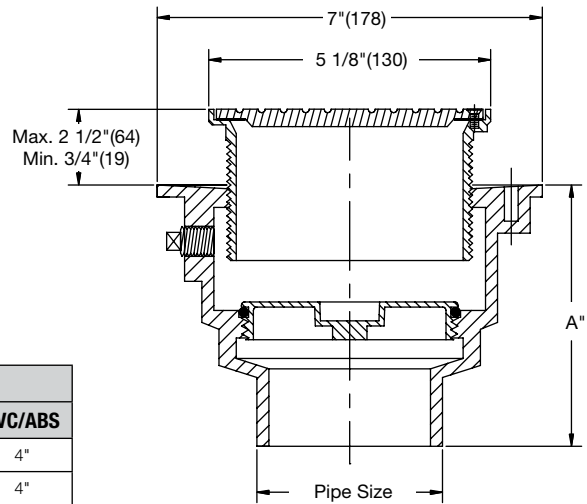
**Floor Cleanout with Round Top**



| Model Number | Wt., Lbs. | Pipe Size | Cover         | List Price |
|--------------|-----------|-----------|---------------|------------|
| CO-202-R     | 11        | 2"        | nickel bronze | \$454.20   |
| CO-203-R     | 11        | 3"        | nickel bronze | 454.20     |
| CO-204-R     | 11        | 4"        | nickel bronze | 454.20     |



| Chart A   |        |         |         |
|-----------|--------|---------|---------|
| Pipe Size | NH     | Push-On | PVC/ABS |
| 2"        | 4-3/4" | 5-1/2"  | 4"      |
| 3"        | 4-3/4" | 5-1/2"  | 4"      |
| 4"        | 4-3/4" | 5-1/2"  | 4"      |



**CO-200-RC**

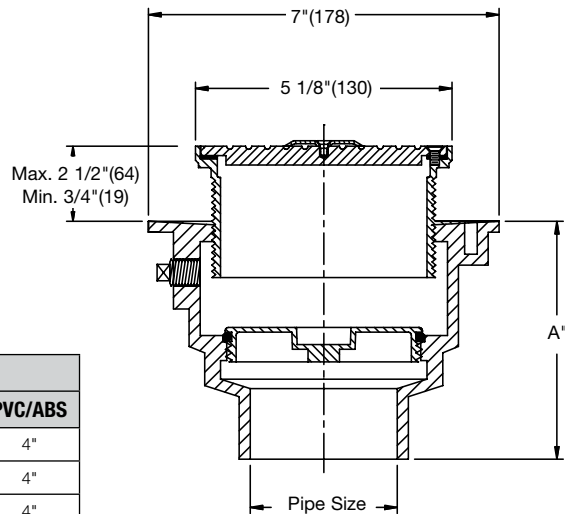
**Floor Cleanout with Round Top, Carpet Marker**



| Model Number | Wt., Lbs. | Pipe Size | Cover         | List Price |
|--------------|-----------|-----------|---------------|------------|
| CO-202-RC    | 11        | 2"        | nickel bronze | \$438.04   |
| CO-203-RC    | 11        | 3"        | nickel bronze | 438.04     |
| CO-204-RC    | 11        | 4"        | nickel bronze | 438.04     |



| Chart A   |        |         |         |
|-----------|--------|---------|---------|
| Pipe Size | NH     | Push-On | PVC/ABS |
| 2"        | 4-3/4" | 5-1/2"  | 4"      |
| 3"        | 4-3/4" | 5-1/2"  | 4"      |
| 4"        | 4-3/4" | 5-1/2"  | 4"      |



## Options for CO-200 Series:

| Suffix | Description            | List Price | Suffix | Description           | List Price |
|--------|------------------------|------------|--------|-----------------------|------------|
| None   | No Hub Outlet          | No Add     | -12    | Hot Dipped Galvanized | \$177.00   |
| P      | Push-On Outlet         | \$48.75    | -60    | PVC Body w/Poly Plug  | 36.50      |
| -CF    | Carpet Clamping Flange | 171.50     | -61    | ABS Body w/Poly Plug  | 36.50      |
| -34G   | Closure Plug           | 124.00     |        |                       |            |
| -6     | Vandal Proof           | 115.00     |        |                       |            |



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Adjustable Floor Cleanouts

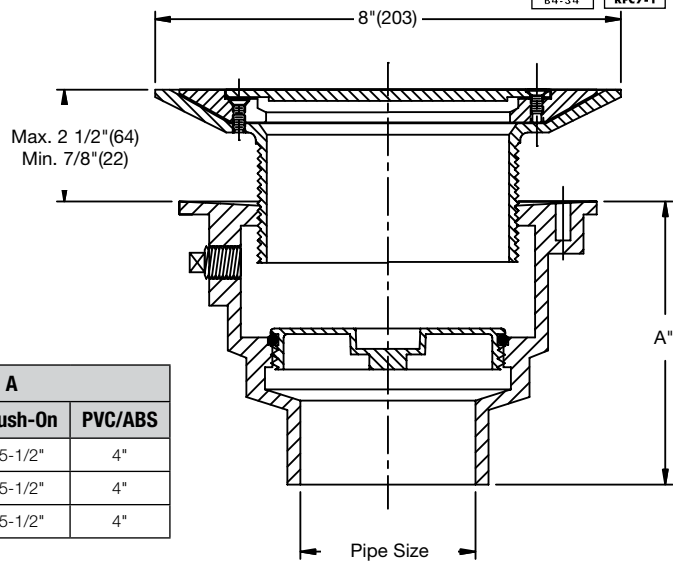
## CO-200-RFC7 Floor Cleanout with Surface Membrane Clamp



| Model Number | Wt., Lbs. | Pipe Size | Cover         | List Price |
|--------------|-----------|-----------|---------------|------------|
| CO-202-RFC7  | 13        | 2"        | nickel bronze | \$793.73   |
| CO-203-RFC7  | 13        | 3"        | nickel bronze | 793.73     |
| CO-204-RFC7  | 13        | 4"        | nickel bronze | 793.73     |



| Chart A   |        |         |         |
|-----------|--------|---------|---------|
| Pipe Size | NH     | Push-On | PVC/ABS |
| 2"        | 4-3/4" | 5-1/2"  | 4"      |
| 3"        | 4-3/4" | 5-1/2"  | 4"      |
| 4"        | 4-3/4" | 5-1/2"  | 4"      |



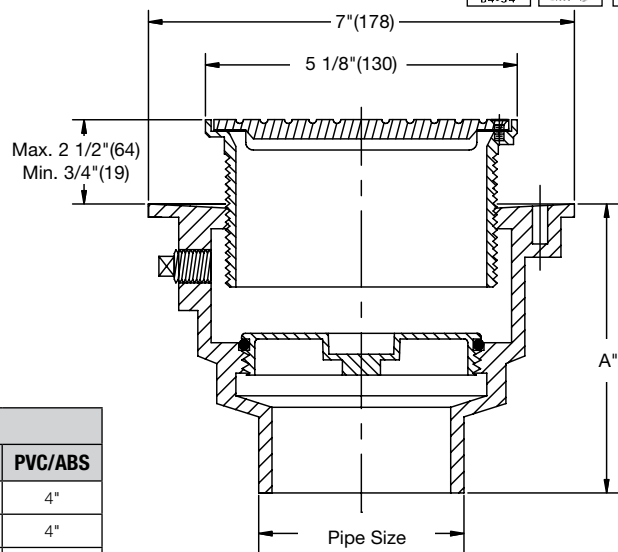
## CO-200-RX Floor Cleanout with Heavy Duty Round Top



| Model Number | Wt., Lbs. | Pipe Size | Cover         | List Price |
|--------------|-----------|-----------|---------------|------------|
| CO-202-RX    | 12        | 2"        | nickel bronze | \$340.95   |
| CO-203-RX    | 12        | 3"        | nickel bronze | 340.95     |
| CO-204-RX    | 12        | 4"        | nickel bronze | 340.95     |



| Chart A   |        |         |         |
|-----------|--------|---------|---------|
| Pipe Size | NH     | Push-On | PVC/ABS |
| 2"        | 4-3/4" | 5-1/2"  | 4"      |
| 3"        | 4-3/4" | 5-1/2"  | 4"      |
| 4"        | 4-3/4" | 5-1/2"  | 4"      |



### Options for CO-200 Series:

| Suffix | Description            | List Price | Suffix | Description           | List Price |
|--------|------------------------|------------|--------|-----------------------|------------|
| None   | No Hub Outlet          | No Add     | -6     | Vandal Proof          | \$115.00   |
| P      | Push-On Outlet         | \$48.75    | -12    | Hot Dipped Galvanized | 177.00     |
| X      | Inside Caulk           | No Add     | -60    | PVC Body w/Poly Plug  | 36.50      |
| -CF    | Carpet Clamping Flange | 171.50     | -61    | ABS Body w/Poly Plug  | 36.50      |
| -34G   | Closure Plug           | 124.00     |        |                       |            |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



# Adjustable Floor Cleanouts

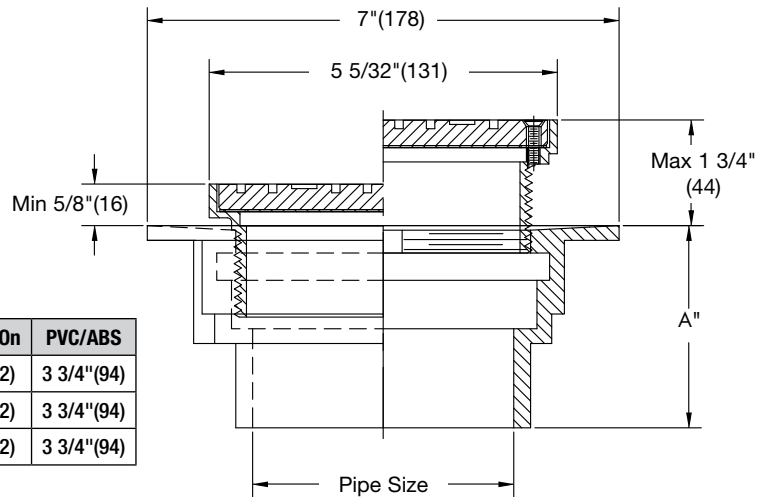
## CO-200-XHR5 Floor Cleanout with Heavy Duty Round Top

| Model Number  | Wt. Lbs. | Pipe Size | Cover         | List Price |
|---------------|----------|-----------|---------------|------------|
| CO-200-XHR5-1 | 13       | 2, 3, 4"  | nickel bronze | \$CF**     |
| CO-200-XHR5-4 | 14       | 2, 3, 4"  | ductile iron  | CF**       |

No Photo Available

Chart A

| Pipe Size | NH     | Push-On | PVC/ABS    |
|-----------|--------|---------|------------|
| 2"(51)    | 3"(76) | 4"(102) | 3 3/4"(94) |
| 3"(76)    | 3"(76) | 4"(102) | 3 3/4"(94) |
| 4"(102)   | 3"(76) | 4"(102) | 3 3/4"(94) |



## CO-200-RX-4 Floor Cleanout with Ductile Iron Top

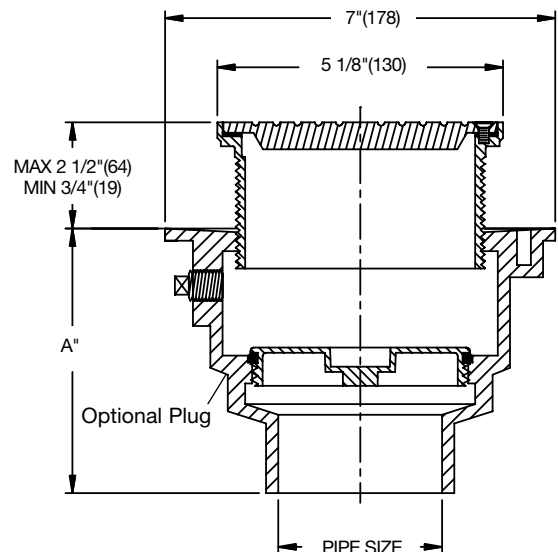


| Model Number | Wt. Lbs. | Pipe Size | Cover        | List Price |
|--------------|----------|-----------|--------------|------------|
| CO-202-RX-4  | 12       | 2"(51)    | ductile iron | \$374.63   |
| CO-203-RX-4  | 12       | 3"(76)    | ductile iron | 374.63     |
| CO-204-RX-4  | 12       | 4"(102)   | ductile iron | 374.63     |



Chart A

| Pipe Size | NH     | Push-On | PVC/ABS    |
|-----------|--------|---------|------------|
| 2"(51)    | 3"(76) | 4"(102) | 3 3/4"(94) |
| 3"(76)    | 3"(76) | 4"(102) | 3 3/4"(94) |
| 4"(102)   | 3"(76) | 4"(102) | 3 3/4"(94) |



### Options for CO-200-RX-4 Series:

| Suffix | Description    | List Price |
|--------|----------------|------------|
| -13    | All Galvanized | \$346.50   |

### Options for CO-200 Series:

| Suffix | Description            | List Price | Suffix | Description              | List Price |
|--------|------------------------|------------|--------|--------------------------|------------|
| None   | No Hub Outlet          | No Add     | -6     | Vandal Proof             | \$115.00   |
| P      | Push-On Outlet         | \$48.75    | -12    | Hot Dipped Galvanized    | 177.00     |
| X      | Inside Caulk           | No Add     | -60    | PVC Body w/Socket Outlet | 36.50      |
| -CF    | Carpet Clamping Flange | 171.50     | -61    | ABS Body w/Socket Outlet | 36.50      |



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Adjustable Floor Cleanouts

## CO-200-S Floor Cleanout with Square Top

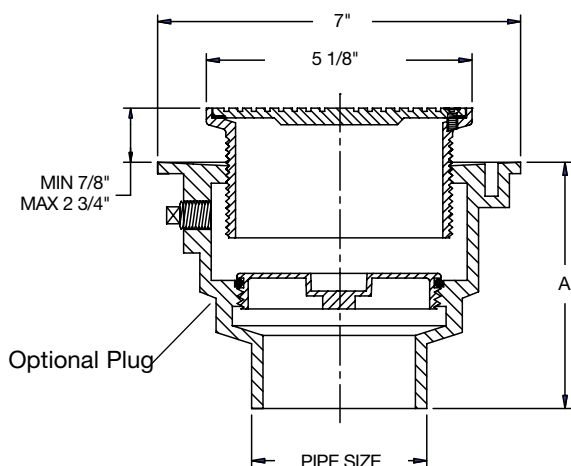


| Model Number | Wt. Lbs. | Pipe Size | Cover         | List Price |
|--------------|----------|-----------|---------------|------------|
| CO-202-S     | 11       | 2"(51)    | nickel bronze | \$681.99   |
| CO-203-S     | 11       | 3"(76)    | nickel bronze | 681.99     |
| CO-204-S     | 11       | 4"(102)   | nickel bronze | 681.99     |



Chart A

| Pipe Size | NH     | Push-On | PVC/ABS    |
|-----------|--------|---------|------------|
| 2"(51)    | 3"(76) | 4"(102) | 3 3/4"(94) |
| 3"(76)    | 3"(76) | 4"(102) | 3 3/4"(94) |
| 4"(102)   | 3"(76) | 4"(102) | 3 3/4"(94) |



## CO-200-T Floor Cleanout with Round Top, Tile Recess

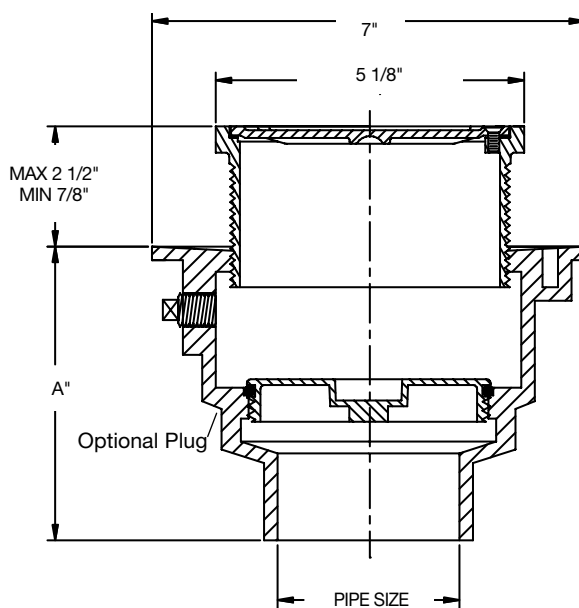


| Model Number | Wt. Lbs. | Pipe Size | Cover         | List Price |
|--------------|----------|-----------|---------------|------------|
| CO-202-T     | 11       | 2"(51)    | nickel bronze | \$462.44   |
| CO-203-T     | 11       | 3"(76)    | nickel bronze | 462.44     |
| CO-204-T     | 11       | 4"(102)   | nickel bronze | 462.44     |



Chart A

| Pipe Size | NH     | Push-On | PVC/ABS    |
|-----------|--------|---------|------------|
| 2"(51)    | 3"(76) | 4"(102) | 3 3/4"(94) |
| 3"(76)    | 3"(76) | 4"(102) | 3 3/4"(94) |
| 4"(102)   | 3"(76) | 4"(102) | 3 3/4"(94) |



### Options for CO-200-T Series:

| Suffix | Description            | List Price | Suffix | Description              | List Price |
|--------|------------------------|------------|--------|--------------------------|------------|
| None   | No Hub Outlet          | No Add     | -12    | Hot Dipped Galvanized    | \$177.00   |
| P      | Push-On Outlet         | \$49.25    | -60    | PVC Body w/Socket Outlet | 36.50      |
| -CF    | Carpet Clamping Flange | 171.50     | -61    | ABS Body w/Socket Outlet | 36.50      |
| -6     | Vandal Proof           | 49.25      |        |                          |            |

Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.





# Adjustable Floor Cleanouts

## CO-200-TS

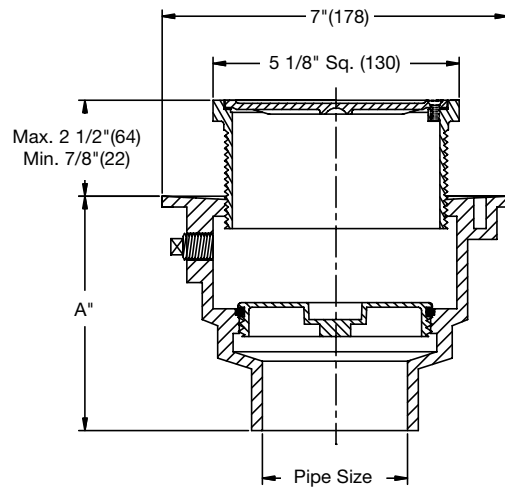
### Floor Cleanout with Square Top, Tile Recess



| Model Number | Wt., Lbs. | Pipe Size | Cover         | List Price |
|--------------|-----------|-----------|---------------|------------|
| CO-202-TS    | 11        | 2"        | nickel bronze | \$662.32   |
| CO-203-TS    | 11        | 3"        | nickel bronze | 662.32     |
| CO-204-TS    | 11        | 4"        | nickel bronze | 662.32     |



| Chart A   |        |         |         |
|-----------|--------|---------|---------|
| Pipe Size | NH     | Push-On | PVC/ABS |
| 2"        | 4-3/4" | 5-1/2"  | 4"      |
| 3"        | 4-3/4" | 5-1/2"  | 4"      |
| 4"        | 4-3/4" | 5-1/2"  | 4"      |



## CO-200-U

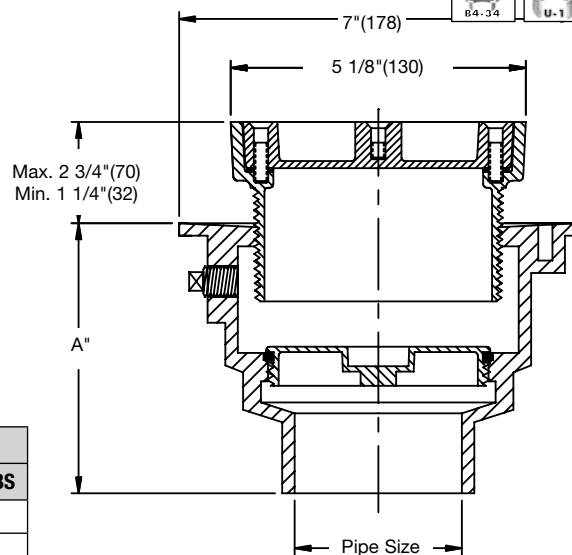
### Floor Cleanout with Round Top, Terrazzo Recess



| Model Number | Wt., Lbs. | Pipe Size | Cover         | List Price |
|--------------|-----------|-----------|---------------|------------|
| CO-202-U     | 12        | 2"        | nickel bronze | \$758.46   |
| CO-203-U     | 12        | 3"        | nickel bronze | 758.46     |
| CO-204-U     | 12        | 4"        | nickel bronze | 758.46     |



| Chart A   |        |         |         |
|-----------|--------|---------|---------|
| Pipe Size | NH     | Push-On | PVC/ABS |
| 2"        | 4-3/4" | 5-1/2"  | 4"      |
| 3"        | 4-3/4" | 5-1/2"  | 4"      |
| 4"        | 4-3/4" | 5-1/2"  | 4"      |



### Options for CO-200-TS / CO-200-U Series:

| Suffix | Description            | List Price | Suffix | Description              | List Price |
|--------|------------------------|------------|--------|--------------------------|------------|
| None   | No Hub Outlet          | No Add     | -12    | Hot Dipped Galvanized    | \$177.00   |
| P      | Push-On Outlet         | \$49.25    | -60    | PVC Body w/Socket Outlet | 36.50      |
| -CF    | Carpet Clamping Flange | 171.50     | -61    | ABS Body w/Socket Outlet | 36.50      |
| -6     | Vandal Proof           | 49.25      |        |                          |            |



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

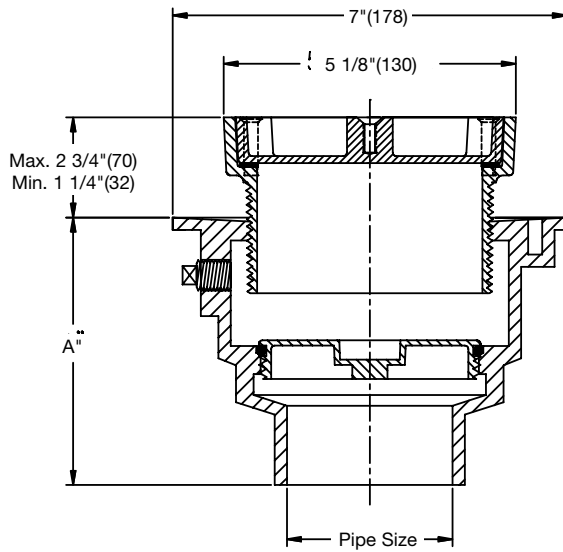
# Adjustable Floor Cleanouts

**CO-200-US**

**Floor Cleanout with Square Top, Terrazzo Recess**



| Model Number | Wt., Lbs. | Pipe Size | Cover         | List Price |
|--------------|-----------|-----------|---------------|------------|
| CO-202-US    | 12        | 2"        | nickel bronze | \$799.10   |
| CO-203-US    | 12        | 3"        | nickel bronze | 799.10     |
| CO-204-US    | 12        | 4"        | nickel bronze | 799.10     |



**Chart A**

| Pipe Size | NH     | Push-On | PVC/ABS |
|-----------|--------|---------|---------|
| 2"        | 4-3/4" | 5-1/2"  | 4"      |
| 3"        | 4-3/4" | 5-1/2"  | 4"      |
| 4"        | 4-3/4" | 5-1/2"  | 4"      |

## Options for CO-200-US / CO-200-H Series:

| Suffix | Description            | List Price | Suffix | Description              | List Price |
|--------|------------------------|------------|--------|--------------------------|------------|
| None   | No Hub Outlet          | No Add     | -12    | Hot Dipped Galvanized    | \$177.00   |
| P      | Push-On Outlet         | \$49.25    | -60    | PVC Body w/Socket Outlet | 36.50      |
| -CF    | Carpet Clamping Flange | 171.50     | -61    | ABS Body w/Socket Outlet | 36.50      |
| -6     | Vandal Proof           | 49.25      |        |                          |            |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

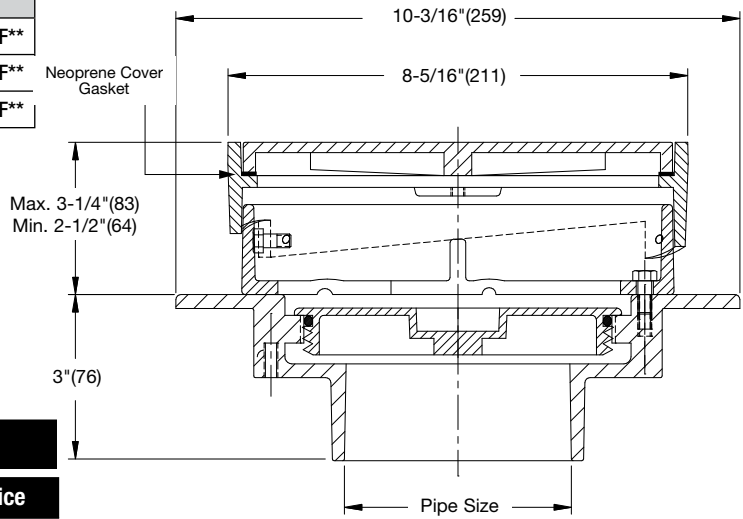


# Adjustable Floor Cleanouts

## CO-260

### Floor Cleanout with 8" Round Adjustable Top

| Model Number        | Wt., Lbs. | Pipe Size   | Cover             | List Price |
|---------------------|-----------|-------------|-------------------|------------|
| CO-263, 4, 6, 8     | 20        | 3, 4, 6, 8" | ductile iron      | \$CF**     |
| CO-263, 4, 6, 8-1   | 20        | 3, 4, 6, 8" | nickel bronze     | CF**       |
| CO-263, 4, 6, 8-S-1 | 20        | 3, 4, 6, 8" | sq. nickel bronze | CF**       |



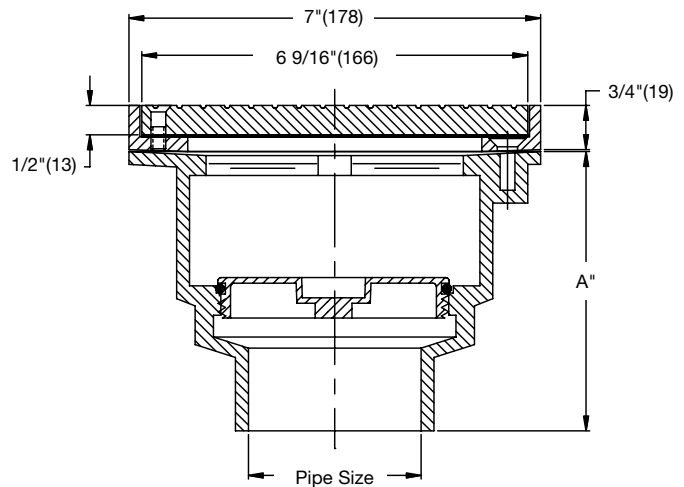
#### Options for CO-260 Series:

| Suffix | Description           | List Price |
|--------|-----------------------|------------|
| None   | No Hub Outlet         | No Add     |
| P      | Push-On Outlet        | \$49.25    |
| -3     | Round Stainless Steel | 762.00     |
| -6     | Vandal Proof          | 128.00     |
| -12    | All Galvanized        | 177.00     |

## CO-270

### Floor Cleanout with Fixed Top

| Model Number   | Wt., Lbs. | Pipe Size | Cover         | List Price |
|----------------|-----------|-----------|---------------|------------|
| CO-272, 3, 4   | 12        | 2, 3, 4"  | ductile iron  | \$CF**     |
| CO-272, 3, 4-1 | 12        | 2, 3, 4"  | nickel bronze | CF**       |



#### Options for CO-270 Series:

| Suffix | Description    | List Price |
|--------|----------------|------------|
| None   | No Hub Outlet  | No Add     |
| P      | Push-On Outlet | \$49.25    |
| -6     | Vandal Proof   | 138.50     |
| -12    | All Galvanized | 177.00     |

| Chart A   |        |         |         |
|-----------|--------|---------|---------|
| Pipe Size | NH     | Push-On | PVC/ABS |
| 2"        | 4-3/4" | 5-1/2"  | 4"      |
| 3"        | 4-3/4" | 5-1/2"  | 4"      |
| 4"        | 4-3/4" | 5-1/2"  | 4"      |



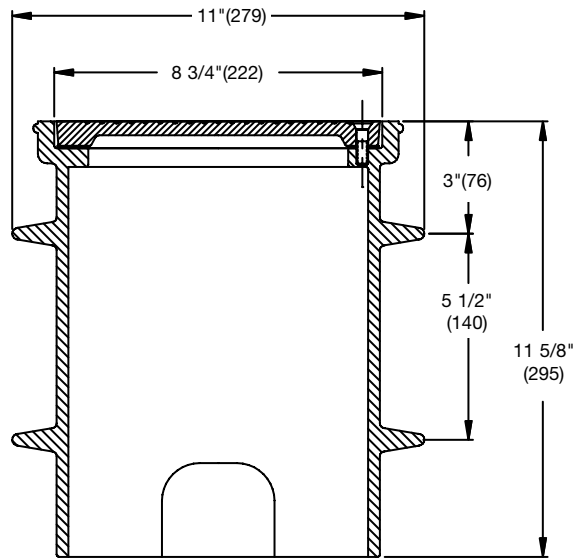
Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Access Housings

## CO-300-MF Extra Heavy Duty Access Housing

| Model Number | Order Code | Wt., Lbs. | Cover        | List Price |
|--------------|------------|-----------|--------------|------------|
| CO-300-MF    | 8134049    | 35        | ductile iron | \$1,304.67 |

Note: Use CO-380 cleanout if required.



### Options for CO-300-MF Series:

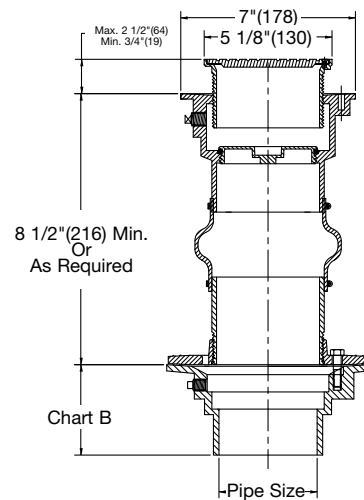
| Suffix | Description    | List Price |
|--------|----------------|------------|
| -6     | Vandal Proof   | \$128.00   |
| -12    | All Galvanized | 177.00     |

## CO-600-R Isolation Cleanout

| Model Number | Wt., Lbs. | Pipe Size | Cover         | List Price |
|--------------|-----------|-----------|---------------|------------|
| CO-602-R     | 25        | 2" (51)   | nickel bronze | \$1,452.55 |
| CO-603-R     | 25        | 3" (76)   | nickel bronze | 1,452.55   |
| CO-604-R     | 26        | 4" (102)  | nickel bronze | 1,452.55   |



| Pipe Size | NH     | Push-On | PVC/ABS |
|-----------|--------|---------|---------|
| 2"        | 4-3/4" | 5-1/2"  | 4"      |
| 3"        | 4-3/4" | 5-1/2"  | 4"      |
| 4"        | 4-3/4" | 5-1/2"  | 4"      |



### Options for CO-600 Series:

| Suffix | Description            | List Price | Suffix | Description              | List Price |
|--------|------------------------|------------|--------|--------------------------|------------|
| None   | No Hub Outlet          | No Add     | -6     | Vandal Proof             | \$49.25    |
| P      | Push-On Outlet         | \$49.25    | -12    | Hot Dipped Galvanized    | 177.00     |
| -CF    | Carpet Clamping Flange | 171.50     | -60    | PVC Body w/Socket Outlet | 36.50      |
| -34G   | Closure Plug           | 124.00     | -61    | ABS Body w/Socket Outlet | 36.50      |

Consult factory for all applications outside of listed parameters.

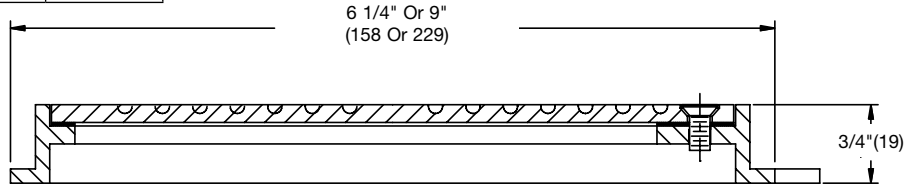
Prices do not include applicable taxes.



# Access Covers

## CO-300-R Round Serrated Access Cover

| Model Number | Order Code | Wt., Lbs. | Pipe Size | Cover         | List Price |
|--------------|------------|-----------|-----------|---------------|------------|
| CO-300-R6    | 8134055    | 5         | 6-1/4"    | nickel bronze | \$372.22   |
| CO-300-R9    | 8100586    | 10        | 9"        | nickel bronze | 836.12     |

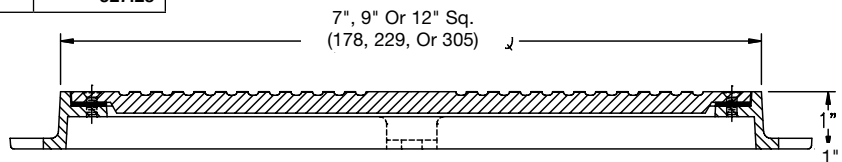


### Options for CO-300-R Series:

| Suffix | Description  | List Price |
|--------|--------------|------------|
| -6     | Vandal Proof | \$128.00   |

## CO-300-S Square Serrated Access Cover

| Model Number | Order Code | Wt., Lbs. | Pipe Size | Cover         | List Price |
|--------------|------------|-----------|-----------|---------------|------------|
| CO-300-S7    | 8134075    | 5         | 7" x 7"   | nickel bronze | \$492.61   |
| CO-300-S8-9  | 8188398    | 9         | 8" x 8"   | nickel bronze | 1,133.95   |
| CO-300-S9    | 8134081    | 10        | 9" x 9"   | nickel bronze | 681.65     |
| CO-300-S12   | 8134067    | 13        | 12" x 12" | nickel bronze | 1,137.93   |
| CO-300-S9-4  | -          | 7         | 9" x 9"   | ductile       | 361.20     |
| CO-300-S12-4 | -          | 13        | 12" x 12" | ductile       | 527.23     |



### Options for CO-300-S Series:

| Suffix | Description  | List Price |
|--------|--------------|------------|
| -6     | Vandal Proof | \$128.00   |



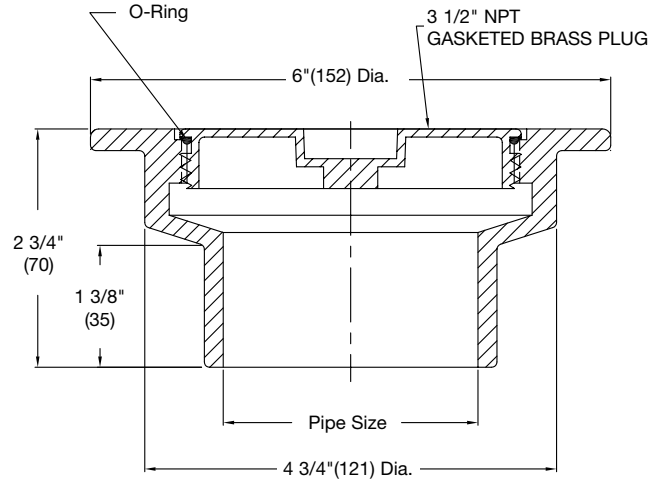
Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# General Purpose Floor Cleanouts

**CO-380**

**Cleanout Ferrule with Brass Plug**

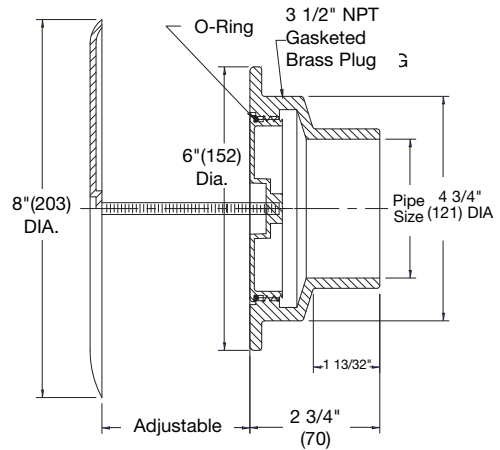
| Model Number | Order Cod | Wt., Lbs. | Pipe Size | List Price |
|--------------|-----------|-----------|-----------|------------|
| CO-382       | 8185255   | 2         | 2"        | \$247.21   |
| CO-383       | 8185014   | 4         | 3"        | 247.21     |
| CO-384       | 8185015   | 5         | 4"        | 252.63     |
| CO-386       | 8185016   | 8         | 6"        | 593.46     |



**CO-380-RD**

**Wall Cleanout Ferrule with Stainless Steel Cover**

| Model Number | Order Code | Wt., Lbs. | Pipe Size | Cover Size | List Price |
|--------------|------------|-----------|-----------|------------|------------|
| CO-382-RD    | 8186182    | 3         | 2"        | 8"         | \$491.57   |
| CO-383-RD    | 8186180    | 5         | 3"        | 8"         | 491.57     |
| CO-384-RD    | 8186181    | 6         | 4"        | 8"         | 496.98     |
| CO-386-RD    | 8186183    | 9         | 6"        | 8"         | 1,067.77   |



Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

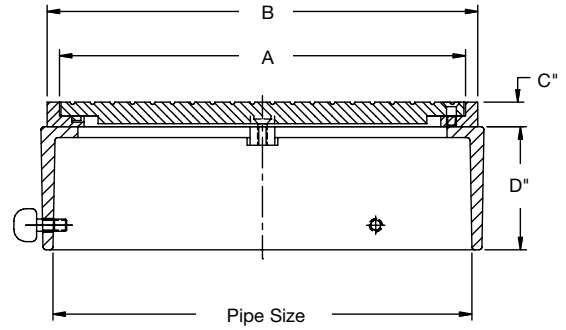


# General Purpose Floor Cleanouts

## CO-410

## Floor Access Housing

| Model Number | Order Code | Wt., Lbs. | Pipe Size | Cover         | List Price |
|--------------|------------|-----------|-----------|---------------|------------|
| CO-413, 4    | 8152171    | 5         | 3, 4"     | ductile iron  | \$510.71   |
| CO-413,4-1   | -          | 5         | 3, 4"     | nickel bronze | 799.00     |
| CO-416       | 8152175    | 9         | 6"        | ductile iron  | 674.39     |
| CO-416-1     | 8152174    | 9         | 6"        | nickel bronze | 2,408.27   |



| Dimensions in Inches |           |       |       |     |       |
|----------------------|-----------|-------|-------|-----|-------|
| Model Number         | Pipe Size | A     | B     | C   | D     |
| CO-413               | 3         | 5     | 5-1/4 | 3/8 | 2-5/8 |
| CO-414               | 4         | 7     | 7-1/4 | 1/2 | 2-3/4 |
| CO-416               | 6         | 8-3/4 | 9     | 1/2 | 3     |

### Options for CO-410 Series:

| Suffix | Description  | List Price |
|--------|--------------|------------|
| -6     | Vandal Proof | \$94.75    |

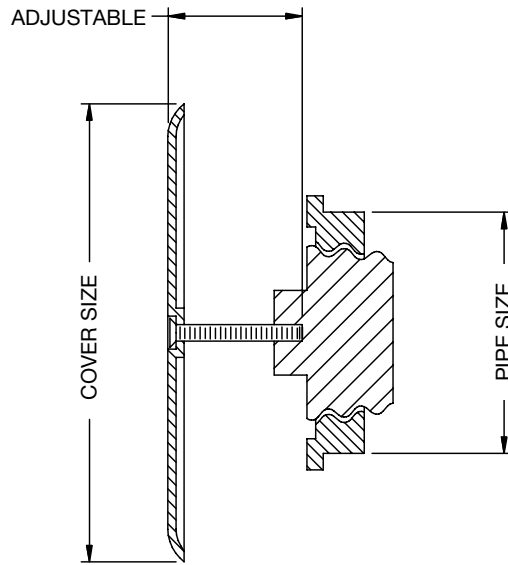


Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Wall Cleanouts

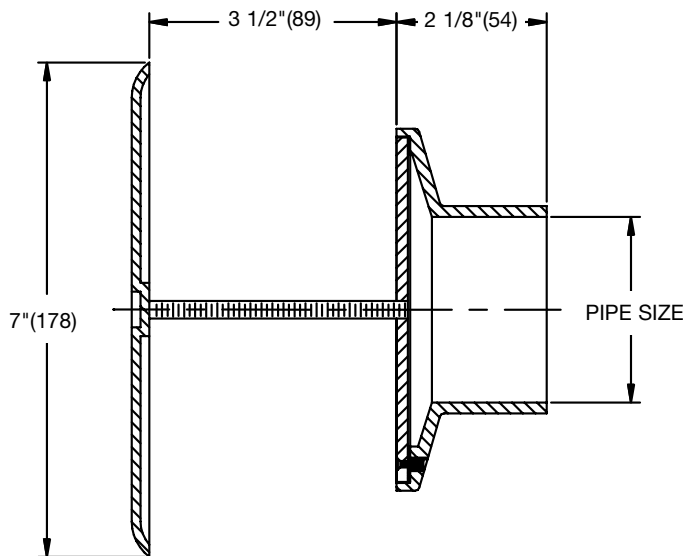
## WUCO Series Poly Wall Cleanout with Stainless Steel Cover

| Model Number  | Wt. Lbs. | Pipe Size  | Cover Size | List Price |
|---------------|----------|------------|------------|------------|
| WUCO-1 1/2-RD | 2        | 1 1/2"(38) | 5"(127)    | \$48.61    |
| WUCO-2-RD     | 2        | 2"(51)     | 5"(127)    | 50.40      |
| WUCO-3-RD     | 2        | 3"(76)     | 7"(178)    | 74.68      |
| WUCO-4-RD     | 2        | 4"(102)    | 7"(178)    | 404.48     |



## CO-450-RD Line Cleanout with Stainless Steel Cover

| Model Number | Wt. Lbs. | Pipe Size | List Price |
|--------------|----------|-----------|------------|
| CO-452-RD    | 5        | 2"(51)    | \$CF**     |
| CO-453-RD    | 5        | 3"(76)    | CF**       |
| CO-454-RD    | 5        | 4"(102)   | CF**       |



### Options for CO-450-RD Series:

| Suffix | Description              | List Price |
|--------|--------------------------|------------|
| -60    | PVC Body w/Socket Outlet | No Add     |
| -61    | ABS Body w/Socket Outlet | No Add     |

Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.



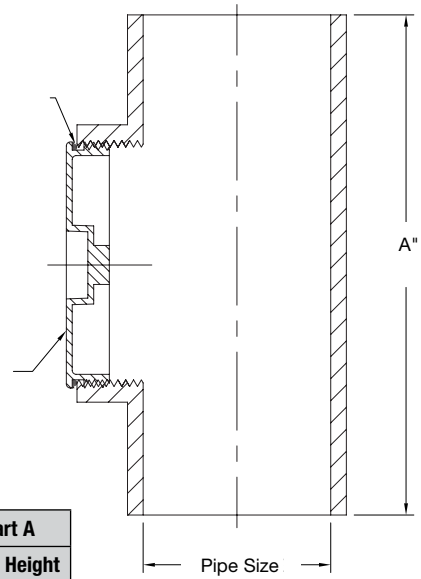


# Wall Cleanouts

**CO-460**

**Stack Cleanout with Brass Plug**

| Model Number | Order Code | Wt., Lbs. | Pipe Size | List Price |
|--------------|------------|-----------|-----------|------------|
| CO-462       | 8134183    | 8         | 2"        | \$348.61   |
| CO-463       | 8134190    | 15        | 3"        | 459.56     |
| CO-464       | 8134196    | 17        | 4"        | 639.77     |

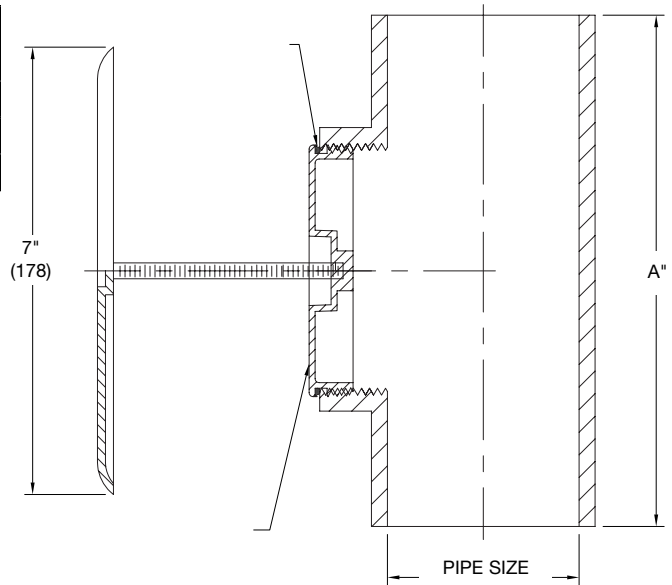


| Chart A |        |
|---------|--------|
| Size    | Height |
| 2"      | 6-1/4" |
| 3"      | 7-3/4" |
| 4"      | 9"     |

**CO-460-RD**

**Stack Cleanout with Brass Plug & Stainless Steel Cover**

| Model Number | Order Code | Wt., Lbs. | Pipe Size | Cover           | List Price |
|--------------|------------|-----------|-----------|-----------------|------------|
| CO-462-RD    | 8185222    | 9         | 2"        | stainless steel | CF**       |
| CO-463-RD    | 8134193    | 16        | 3"        | stainless steel | 774.32     |
| CO-464-RD    | 8134199    | 18        | 4"        | stainless steel | 956.89     |



| Chart A |        |
|---------|--------|
| Size    | Height |
| 2"      | 6-1/4" |
| 3"      | 7-3/4" |
| 4"      | 9"     |

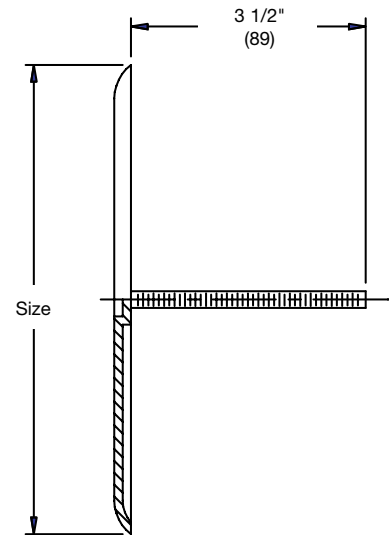


Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Wall Cleanouts

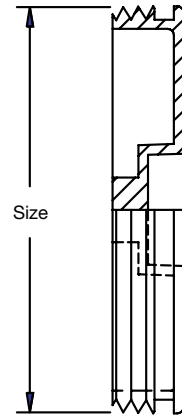
## CO-480-RD Stainless Steel Access Cover with Screw

| Model Number | Order Code | Wt., Lbs. | Pipe Size | List Price |
|--------------|------------|-----------|-----------|------------|
| CO-480-RD6   | 8134234    | 1         | 6"        | \$113.31   |
| CO-480-RD7   | 8134236    | 1         | 7"        | 158.96     |
| CO-480-RD8   | 8134238    | 1         | 8"        | 319.48     |
| CO-480-RD10  | 8134228    | 1         | 10"       | 138.50     |



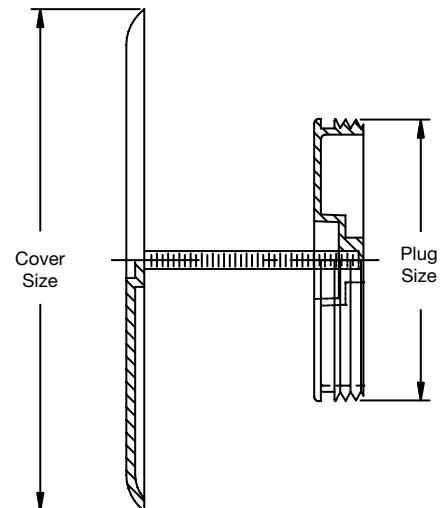
## CO-590 Brass Cleanout Plug

| Model Number | Order Code | Wt., Lbs. | Size   | List Price |
|--------------|------------|-----------|--------|------------|
| CO-591.5     | 8185019    | 1/2       | 1-1/2" | \$41.02    |
| CO-592       | 8134262    | 3/4       | 2"     | 63.84      |
| CO-593       | 8134269    | 1         | 3"     | 72.70      |
| CO-594       | 8134279    | 1-1/2     | 4"     | 222.46     |
| CO-595       | 8134284    | 1-1/2     | 5"     | 414.29     |
| CO-596       | 8185020    | 3         | 6"     | 542.97     |



## CO-590-RD Wall Cleanout with Brass Plug, Stainless Steel Cover

| Model Number | Order Code | Wt., Lbs. | Pipe Size | Cover Size | List Price |
|--------------|------------|-----------|-----------|------------|------------|
| CO-591.5-RD  | 8185225    | 1         | 1-1/2"    | 5"         | \$CF**     |
| CO-592-RD    | 8134264    | 1-1/4     | 2"        | 5"         | 176.14     |
| CO-593-RD    | 8134270    | 1-1/2     | 3"        | 7"         | CF**       |
| CO-594-RD    | 8134280    | 2         | 4"        | 7"         | CF**       |
| CO-595-RD    | 8185229    | 2         | 5"        | 8"         | CF**       |
| CO-596-Rd    | 8185230    | 3-1/2     | 6"        | 8"         | 671.15     |



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.



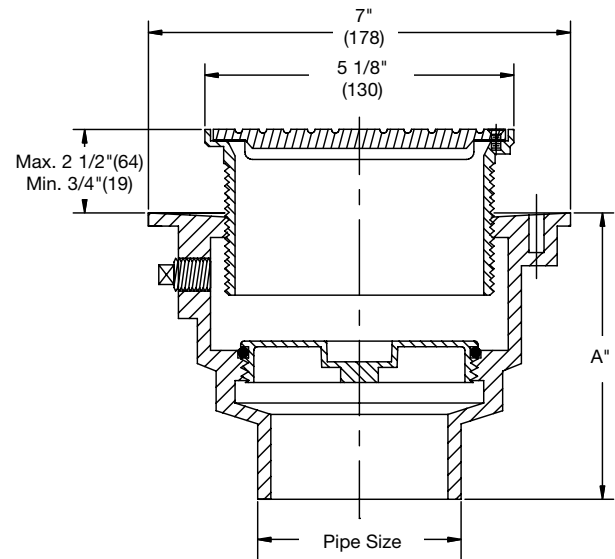
# Stainless Steel Top Floor Cleanouts

**CO-1200-RX**

**Floor Cleanout with Heavy Duty Round Stainless Steel Top**



| Model Number | Wt., Lbs. | Pipe Size | Cover           | List Price |
|--------------|-----------|-----------|-----------------|------------|
| CO-1202-RX   | 12        | 2"        | stainless steel | \$CF**     |
| CO-1203-RX   | 12        | 3"        | stainless steel | CF**       |
| CO-1204-RX   | 12        | 4"        | stainless steel | CF**       |



| Pipe Size | NH     | Push-On | PVC/ABS |
|-----------|--------|---------|---------|
| 2"        | 4-3/4" | 5-1/2"  | 4"      |
| 3"        | 4-3/4" | 5-1/2"  | 4"      |
| 4"        | 4-3/4" | 5-1/2"  | 4"      |

## Options for CO-1200-RX Series:

| Suffix | Description    | List Price | Suffix | Description           | List Price |
|--------|----------------|------------|--------|-----------------------|------------|
| None   | No Hub Outlet  | No Add     | -6     | Vandal Proof          | \$49.25    |
| P      | Push-On Outlet | \$49.25    | -12    | Hot Dipped Galvanized | 177.00     |
| -C     | Membrane Clamp | 171.50     | -60    | PVC Body w/Poly Plug  | 36.50      |
| -34G   | Closure Plug   | 124.00     | -61    | ABS Body w/Poly Plug  | 36.50      |



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

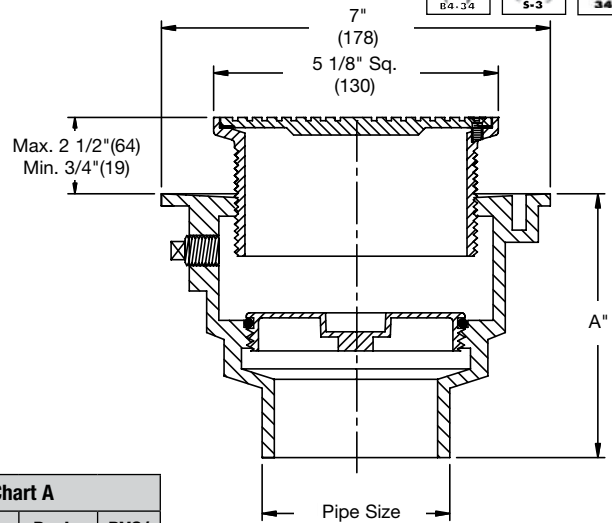
# Stainless Steel Top Floor Cleanouts

**CO-1200-S**

**Floor Cleanout with Square Stainless Steel Top**



| Model Number | Wt., Lbs. | Pipe Size | Cover           | List Price |
|--------------|-----------|-----------|-----------------|------------|
| CO-1202-S    | 11        | 2"        | stainless steel | \$616.86   |
| CO-1203-S    | 11        | 3"        | stainless steel | 616.86     |
| CO-1204-S    | 11        | 4"        | stainless steel | 616.86     |



| Chart A   |        |         |         |
|-----------|--------|---------|---------|
| Pipe Size | NH     | Push-On | PVC/ABS |
| 2"        | 4-3/4" | 5-1/2"  | 4"      |
| 3"        | 4-3/4" | 5-1/2"  | 4"      |
| 4"        | 4-3/4" | 5-1/2"  | 4"      |

## Options for CO-1200-S Series:

| Suffix | Description    | List Price | Suffix | Description           | List Price |
|--------|----------------|------------|--------|-----------------------|------------|
| None   | No Hub Outlet  | No Add     | -6     | Vandal Proof          | \$49.25    |
| P      | Push-On Outlet | \$49.25    | -12    | Hot Dipped Galvanized | 177.00     |
| -C     | Membrane Clamp | 171.50     | -60    | PVC Body w/Poly Plug  | 36.50      |
| -34G   | Closure Plug   | 124.00     | -61    | ABS Body w/Poly Plug  | 36.50      |

Consult factory for all applications outside of listed parameters.

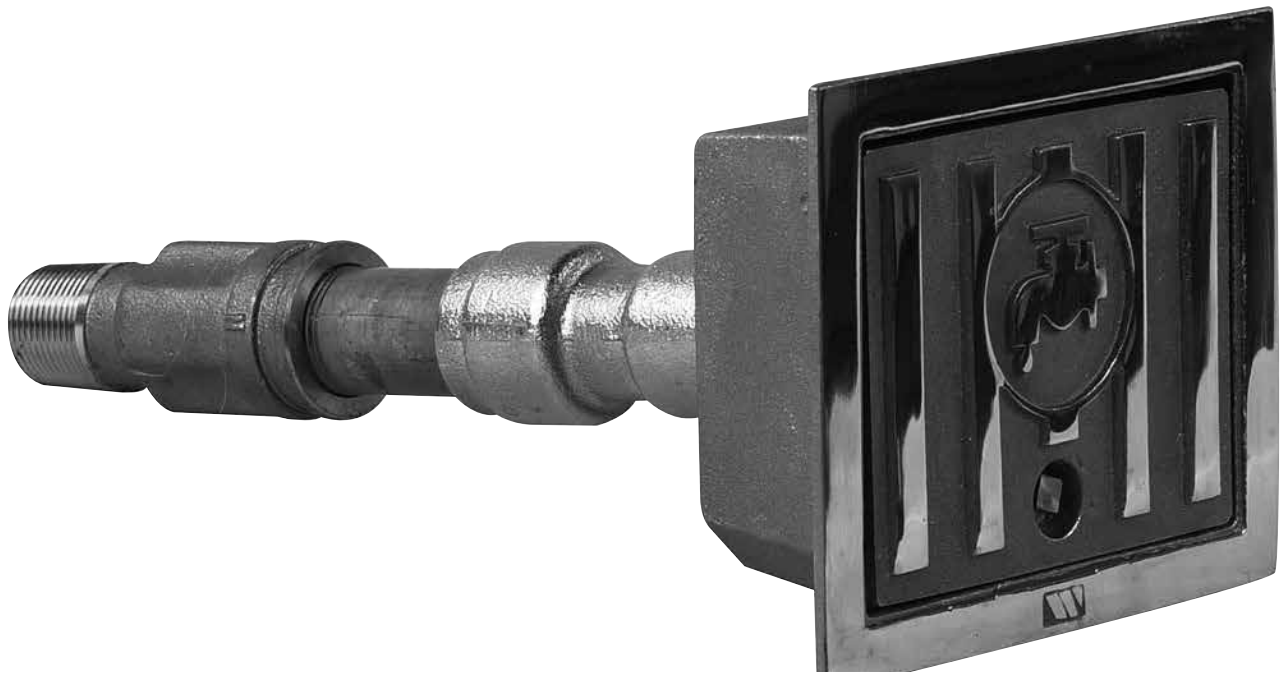
Prices do not include applicable taxes.



# Hydrants

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- Pictorial Index
- Product Recommendations
- Standard Specifications
- Hydrant Selection Factors
- Typical Installations



# Hydrants

## Pictorial Index



**HY-420**  
Non-Freeze



**HY-725**  
Non-Freeze Wall Hydrant w/NB  
Box, Integral Vacuum Breaker



**HY-430**  
Moderate Climate



**HY-300-2**  
Mild Climate



**HY-330**  
Moderate Climate w/Box



**HY-440**  
Moderate Climate Narrow  
Wall Hydrant



**HY-450**  
Moderate Climate Narrow  
Wall Hydrant w/ NB Box



**HY-500**  
Deck Hydrant w/Box



**HY-600**  
Post Hydrant



**HY-700**  
Dual-Temp



**HY-800**  
Non-Freeze Yard Hydrant



**HY-900**  
Non-Freeze Roof Hydrant

Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.



# Hydrants

## Recommendations

| Application                    | Product        |
|--------------------------------|----------------|
| Exterior Wall Non-Freeze       | HY-420, HY-725 |
| Exterior Wall Moderate Climate | HY-430, HY-330 |
| Hot & Cold                     | HY-700         |
| Interior Wall                  | HY-440, HY-450 |
| Outdoor Deck                   | HY-500         |
| Outdoor Post                   | HY-600, HY-800 |
| Roof                           | HY-900         |

## Standard Specifications

Watts standard hydrants are key operated, with a 3/4" hose connection, chrome plated face, and all bronze head, wall casing, seat casting, and internal working parts. The piping connection is dual threaded 3/4" male, 1" female. Non-freeze and moderate climate wall hydrants are furnished with a built-in vacuum breaker, which relieves negative pressure in the water supply piping, preventing back siphonage.

## Hydrant Selection Factors

### Flow rate

Standard 3/4" hydrants discharge approximately 10 GPM under normal operating conditions. Actual flow rates are dependent upon connection sizes and operating pressures.

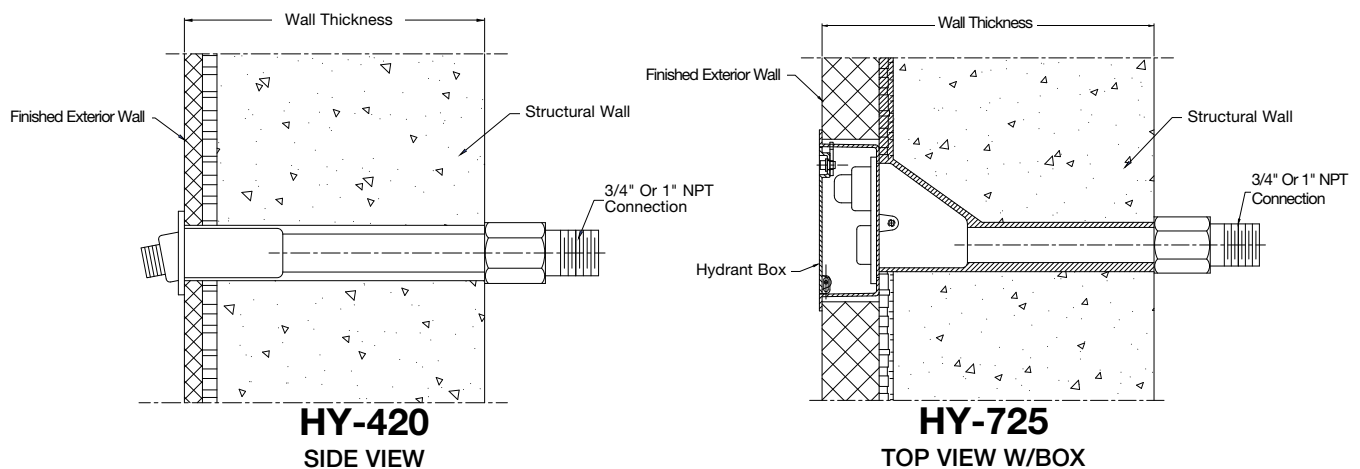
### Non-freeze (frost-proof)

Non-freeze hydrants drain automatically when the water is turned off, preventing freezing, and potential damage to the hydrant or piping system.

### Operating range

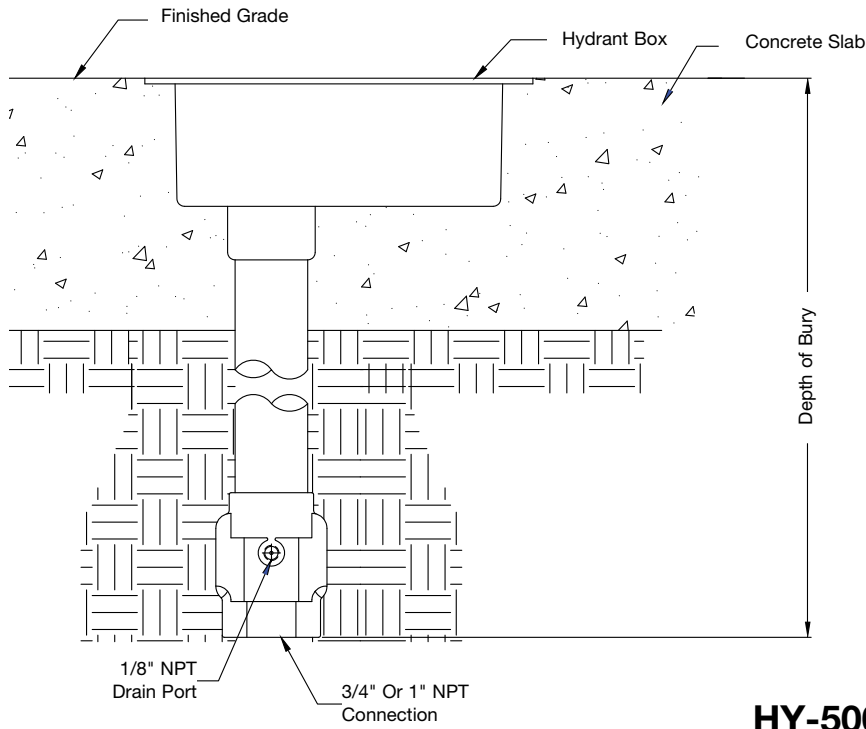
Watts hydrants are designed to operate within a pressure range of 8 PSI to 125 PSI, and a temperature range of 33°F to 140°F.

## Typical Installations

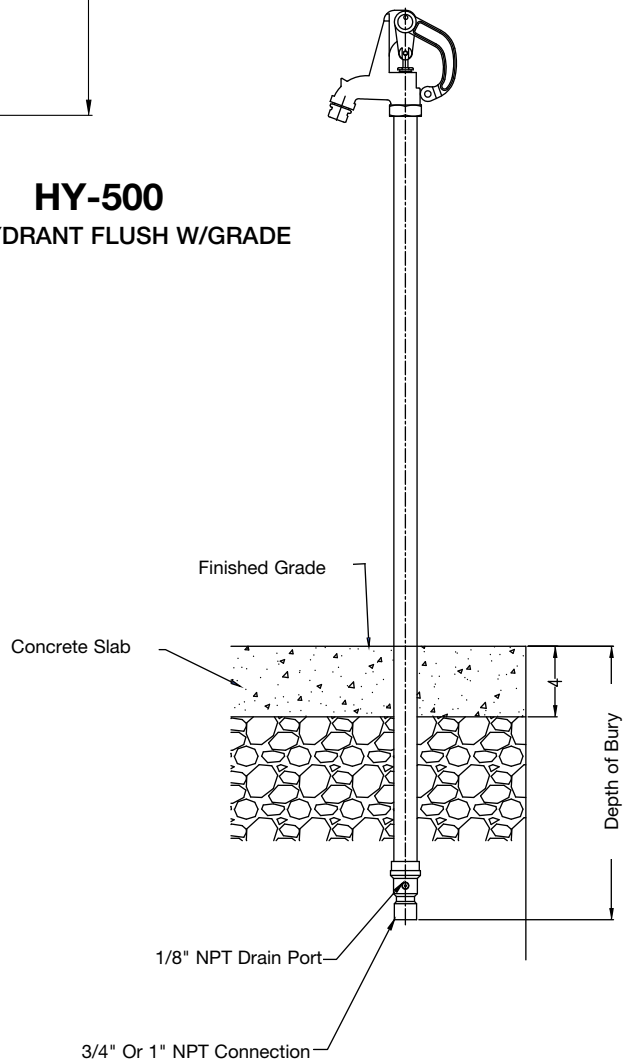


# Hydrants

## Typical Installations



**HY-500**  
BOX HYDRANT FLUSH W/GRADE



**HY-800**  
POST HYDRANT

Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

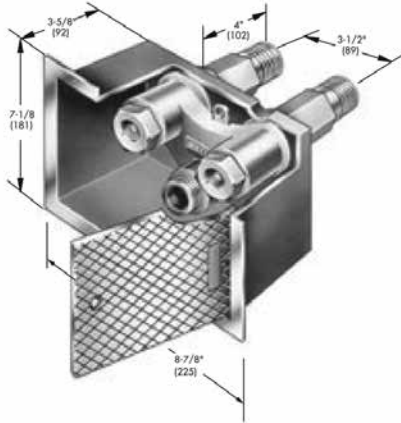




# Wall Hydrants

## HY-300-2 Dual Temp Mild Climate Wall Hydrant Encased Type

| Model Number | Wt. Lbs. | Outlet Size | List Price |
|--------------|----------|-------------|------------|
| HY-300-3/4   | 10       | 3/4"(19)    | \$4,697.10 |
| HY-300-1     | 10       | 1"(25)      | 6,482.60   |



### Options for HY-300 Series:

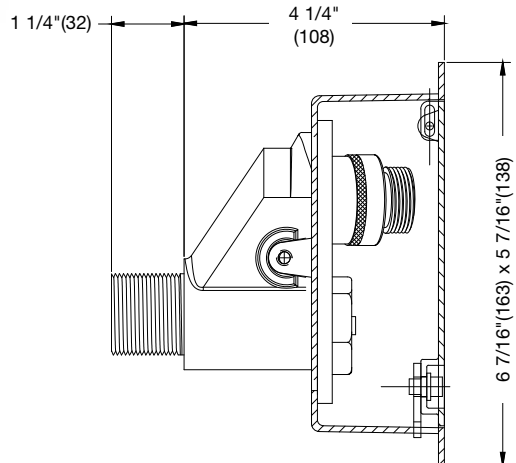
| Suffix | Description   | List Price |
|--------|---------------|------------|
| -K     | Cylinder Lock | \$166.00   |
| -88    | Wall Clamp    | 128.00     |

## HY-330 Moderate Climate Wall Hydrant with NB Box, Integral Vacuum Breaker

| Model Number | Hose Conn. | List Price |
|--------------|------------|------------|
| HY-330       | 3/4"       | \$2,011.60 |



| Order Code | Description               | List Price |
|------------|---------------------------|------------|
| 8156193    | HY-400-PVB Vacuum Breaker | \$253.40   |
| 8142272    | HY-430-CIA Repair Kit     | \$797.15   |



### Options for HY-330 Series:

| Suffix | Description         | List Price |
|--------|---------------------|------------|
| -K     | Cylinder Lock       | \$166.00   |
| -3     | Stainless Steel Box | No Add     |

# Wall Hydrants

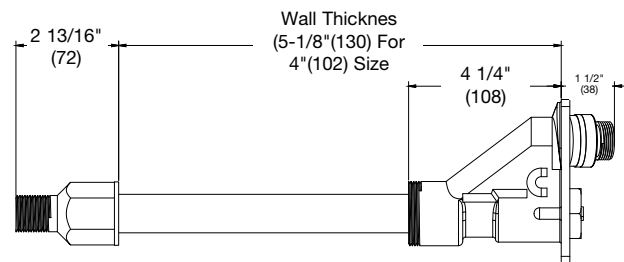
## HY-420

### Non-Freeze Wall Hydrant with Chrome Face, Integral Vacuum Breaker

| Model Number      | Wt. Lbs. | Wall Thickness | List Price |
|-------------------|----------|----------------|------------|
| HY-420-4, 6, 8    | 5        | 4, 6, 8"       | \$1,813.05 |
| HY-420-10, 12, 14 | 6        | 10, 12, 14"    | 1,878.37   |
| HY-420-16, 18     | 7        | 16, 18"        | 1,958.64   |
| HY-420-20, 22, 24 | 8        | 20, 22, 24"    | 2,157.72   |



| Order Code | Description               | List Price |
|------------|---------------------------|------------|
| 8156193    | HY-400-PVB Vacuum Breaker | \$253.40   |
| 8142406    | HY-420-CIA Repair Kit     | \$613.80   |



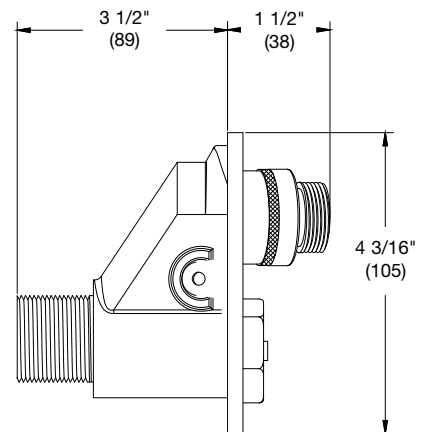
## HY-430

### Moderate Climate Wall Hydrant with Chrome Face, Integral Vacuum Breaker

| Model Number | Hose Conn. | List Price |
|--------------|------------|------------|
| HY-430       | 3/4"       | \$1,304.70 |



| Order Code | Description               | List Price |
|------------|---------------------------|------------|
| 8156193    | HY-400-PVB Vacuum Breaker | \$253.40   |
| 8142272    | HY-430-CIA Repair Kit     | \$797.15   |



Consult factory for all applications outside of listed parameters.

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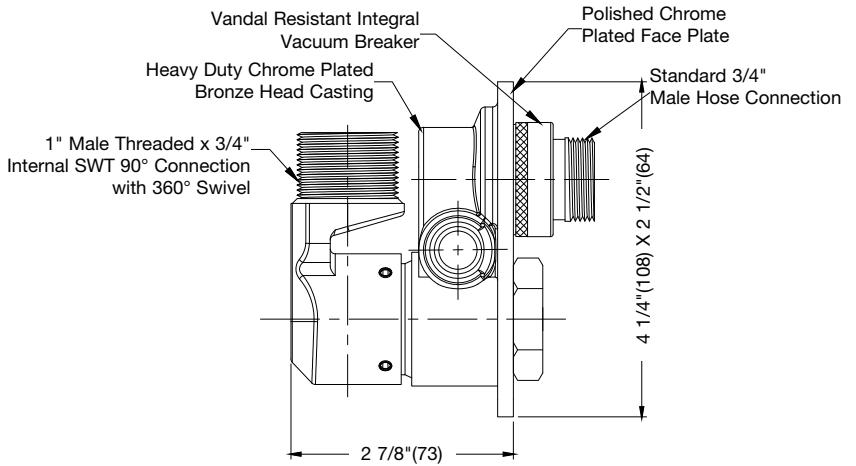


# Wall Hydrants

## HY-440 Moderate Climate Narrow Wall Hydrant

| Model Number | Order Code | Hose Conn. | List Price |
|--------------|------------|------------|------------|
| HY-440       | 8187868    | 3/4"       | \$1,421.17 |

| Order Code | Description               | List Price |
|------------|---------------------------|------------|
| 8156193    | HY-400-PVB Vacuum Breaker | \$253.40   |
| 8188776    | HY-440-CIA Repair Kit     | \$275.42   |

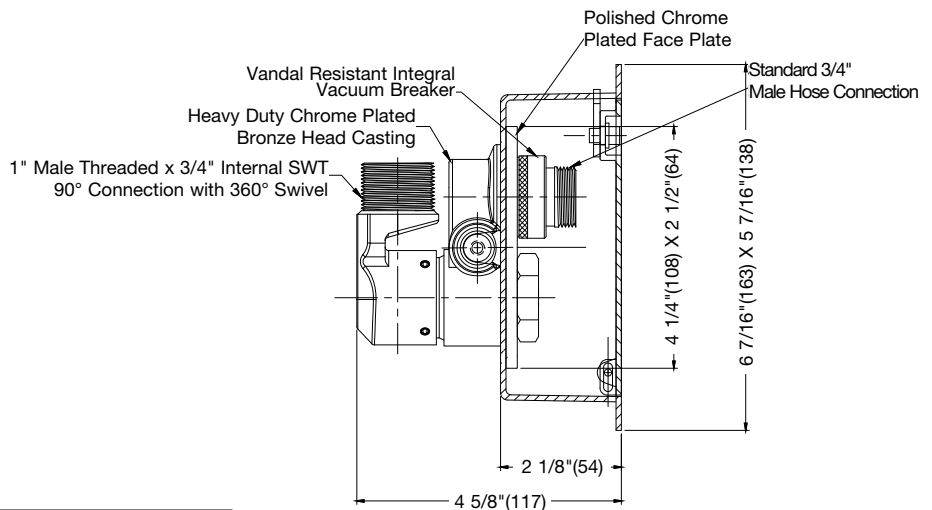


### Options for HY-440 Series:

| Suffix | Description | List Price |
|--------|-------------|------------|
| -88    | Wall Clamp  | \$93.75    |

## HY-450 Moderate Climate Narrow Wall Hydrant w/NB Box

| Model Number | Hose Conn. | List Price |
|--------------|------------|------------|
| HY-450       | 3/4"       | \$2,128.07 |



### Options for HY-450 Series:

| Suffix | Description   | List Price |
|--------|---|------------|
| -K     | Cylinder Lock   | \$166.00   |
| -R     | Round Box for Tilt-Up Construction (Stainless Steel Only) | No Add     |
| -3     | Stainless Steel Box                                       | No Add     |
| -88    | Wall Clamp  | 88.00      |

# Ground Hydrants

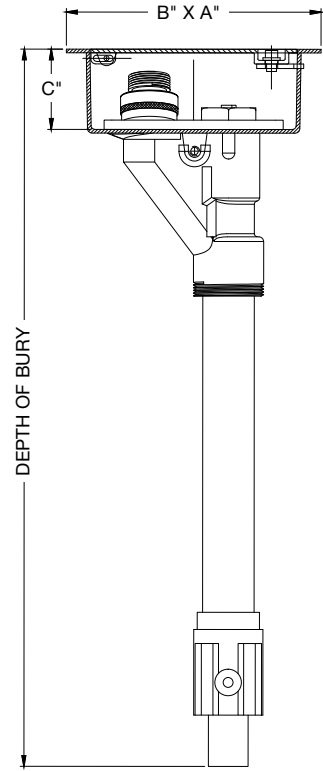
**HY-500**

**Non-Freeze Deck Hydrant with NB Box**

| Model Number | Depth | Wt. Lbs. | 3/4" Conn. | 1" Conn.   |
|--------------|-------|----------|------------|------------|
| HY-502       | 2'    | 10       | \$2,342.00 | \$2,490.00 |
| HY-503       | 3'    | 14       | 2,570.00   | 2,718.00   |
| HY-504       | 4'    | 18       | 2,836.00   | 2,984.00   |
| HY-505       | 5'    | 22       | 3,094.00   | 3,242.00   |
| HY-506       | 6'    | 26       | 3,333.00   | 3,481.00   |
| HY-508       | 8'    | 30       | 4,394.00   | 4,542.00   |

| Order Code | Description               | List Price |
|------------|---------------------------|------------|
| 8156193    | HY-400-PVB Vacuum Breaker | \$253.40   |

| Conn. Size  | A       | B       | C      |
|-------------|---------|---------|--------|
| 3/4" & 1"   | 5-5/8"  | 6-7/8"  | 2-1/4" |
| 1 1/2" - 2" | 10-1/2" | 10-1/2" | 3-1/2" |



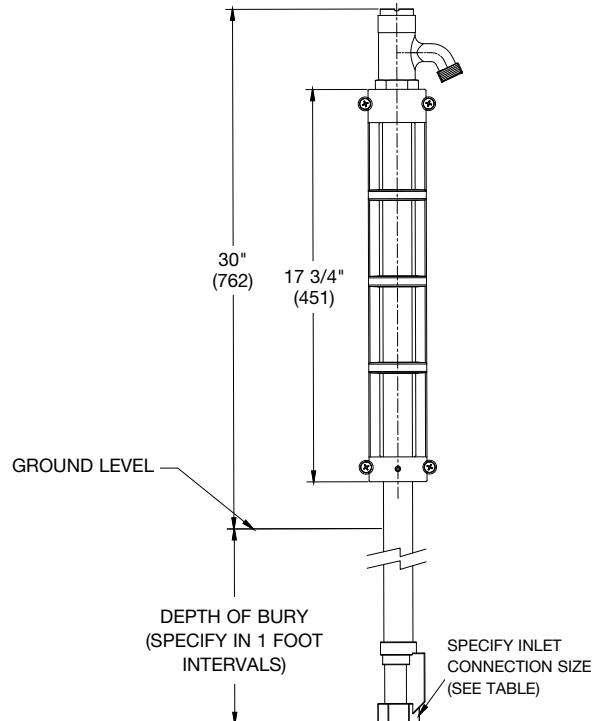
Note: Vacuum Breaker STD on 3/4" - 1"

**HY-600**

**Non-Freeze Post Hydrant**

| Model Number | Depth | 3/4" Conn. | 1" Conn.   | 1-1/2" Conn. | 2" Conn.    |
|--------------|-------|------------|------------|--------------|-------------|
| HY-600-2     | 2'    | \$2,420.00 | \$2,921.00 | \$10,848.00  | \$12,708.00 |
| HY-600-3     | 3'    | 2,495.00   | 2,994.00   | 10,978.00    | 13,131.00   |
| HY-600-4     | 4'    | 2,562.00   | 3,059.00   | 11,111.00    | 13,328.00   |
| HY-600-5     | 5'    | 2,653.00   | 3,134.00   | 11,242.00    | 13,473.00   |
| HY-600-6     | 6'    | 2,704.00   | 3,198.00   | 11,327.00    | 13,719.00   |
| HY-600-8     | 8'    | 3,070.00   | 3,590.00   | 12,546.00    | 14,486.00   |

| Description           | List Price |
|-----------------------|------------|
| HY-600-CIA Repair Kit | P.O.A.     |



Consult factory for all applications outside of listed parameters.

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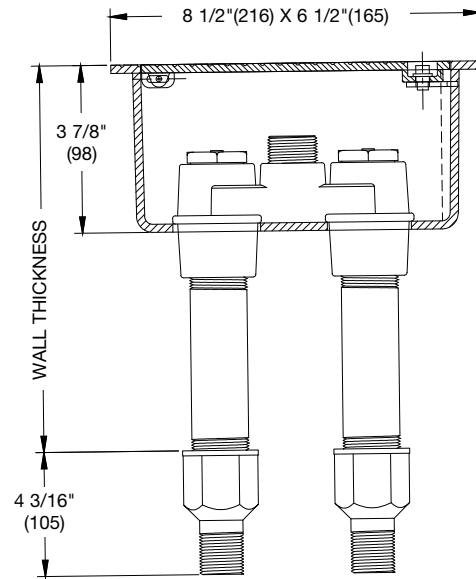


# Wall Hydrants

## HY-700-2

## Non-Freeze Dual-Temp Wall Hydrant with SS Box

| Model Number      | Order Code | Wt. Lbs. | Wall Thickness | 1" Conn. | List Price |
|-------------------|------------|----------|----------------|----------|------------|
| HY-700-6, 8       | 8142651    | 15       | 6", 8"         | 3/4"     | \$5,101.58 |
| HY-700-10, 12, 14 | 8142637    | 17       | 10, 12, 14"    | 3/4"     | 5,196.79   |
| HY-700-16, 18     | 8185525    | 19       | 16, 18"        | 3/4"     | 5,262.10   |



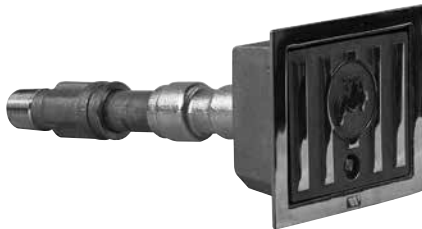
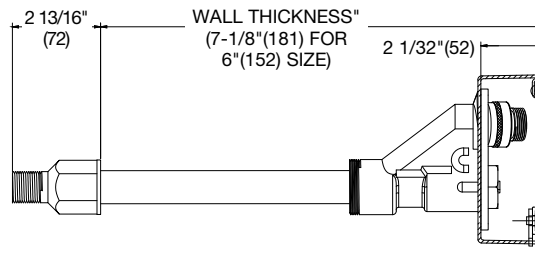
### Options for HY-700 Series:

| Suffix | Description    | List Price |
|--------|----------------|------------|
| -K     | Cylinder Lock  | \$166.00   |
| -VB    | Vacuum Breaker | 98.25      |

## HY-725

## Non-Freeze Wall Hydrant with NB Box, Integral Vacuum Breaker

| Model Number      | Wt. Lbs. | Depth       | Hose Conn. | List Price |
|-------------------|----------|-------------|------------|------------|
| HY-725-6, 8       | 7        | 6", 8"      | 3/4"       | \$2,519.95 |
| HY-725-10, 12, 14 | 8        | 10, 12, 14" | 3/4"       | 2,519.95   |
| HY-725-16, 18     | 9        | 16, 18"     | 3/4"       | 2,585.27   |
| HY-725-20, 22, 24 | 10       | 20, 22, 24  | 3/4"       | 2,665.54   |



STANDARD FINISH IS POLISHED NICKEL BRONZE

### Options for HY-725 Series:

| Suffix | Description   | List Price |
|--------|---|------------|
| -K     | Cylinder Lock   | \$166.00   |
| -R     | Round Box for Tilt-Up Construction (Stainless Steel Only) | 792.00     |
| -3     | Stainless Steel Box                                       | No Add     |
| -88    | Wall Clamp  | 98.25      |



Consult factory for all applications outside of listed parameters.  
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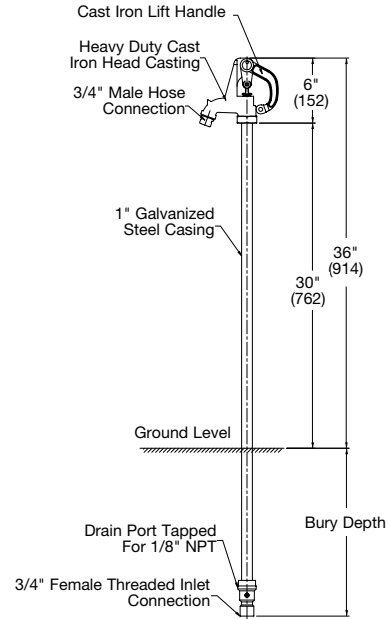
# Yard Hydrants

## HY-800

## Non-Freeze Yard Hydrant

| Model Number | Order Code | Wt. Lbs. | Bury Depth | Hose Conn. | List Price |
|--------------|------------|----------|------------|------------|------------|
| HY-800-1     | 8187807    | 13       | 1'         | 3/4"       | \$1,155.19 |
| HY-800-2     | 8187658    | 15       | 2'         | 3/4"       | 1,155.19   |
| HY-800-3     | 8187659    | 19       | 3'         | 3/4"       | 1,399.93   |
| HY-800-4     | 8187660    | 23       | 4'         | 3/4"       | 1,439.27   |
| HY-800-5     | 8187661    | 27       | 5'         | 3/4"       | 1,563.61   |
| HY-800-6     | 8187662    | 31       | 6'         | 3/4"       | 1,820.14   |

| Order Code | Description           | List Price |
|------------|-----------------------|------------|
| 8188777    | HY-800/900 Repair Kit | \$577.60   |

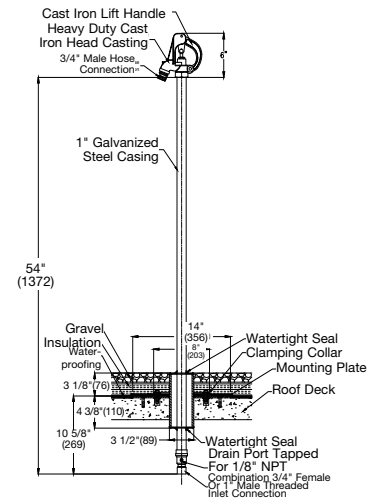


## HY-900

## Non-Freeze Roof Hydrant

| Model Number | Order Code | Wt. Lbs. | Hose Conn. | List Price |
|--------------|------------|----------|------------|------------|
| HY-900       | 8188208    | 28       | 3/4"       | \$4,161.20 |

| Order Code | Description           | List Price |
|------------|-----------------------|------------|
| 8188777    | HY-800/900 Repair Kit | \$577.60   |



Consult factory for all applications outside of listed parameters.

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# Specialties

## Table Of Contents

- Pictorial Index
- Water Hammer Arrestors
  - Recommendations
  - Certification
  - Sizing & Placement
- Backwater Valves
  - Typical Installations
- Trap Primers
  - Compliance
  - Pressure & flow characteristics
  - Distribution unit
  - Typical installations
- Misc. Specialties



# Specialties

## Pictorial Index



**LF15M2-DR Series**  
Copper  
Water Hammer Arrestor



**SS Series**  
Stainless Steel  
Water Hammer Arrestor



**BV-200**  
Cast Iron In-Line  
Backwater Valve



**BV-240**  
In-Line Backwater Valve  
With Access Housing



**BV-300**  
Ball Float Backwater  
Valve



**BV-600**  
Pit Drain With Backwater  
Valve



**LFTP300-DR**  
Trap Primer & Distribution  
Unit



**MS-930**  
Trap Primer Adaptor



**MS-950**  
Funnel Trap Adaptor



**MS-8000**  
Fresh Air Inlet



**PS-Series**  
Plastic Pipe Sleeves



**BV-230-R**  
Backwater Valve with  
Access Cover



# Specialties

## Water Hammer Arrestors

Watts water hammer arrestors prevent water hammer in piping systems, which is usually caused by sudden changes in flow velocity. Solenoid actuated and other types of quick closing valves create shock pressure in the line, which leads to water hammer (banging pipes). Properly installed arrestors will absorb the shock, eliminating noise and potential damage to the piping system.

### Certification

All Watts arrestors are Certified by the Plumbing & Drainage Institute (PDI), in accordance with Standard PDI-WH201.

### Sizing & Placement

The PDI fixture unit methodology takes into consideration probabilities for coincidental valve closings, in addition to pipe size and length, flow pressure, and velocity.

- 1) Calculate the number of fixture units (Table 1) on each hot and cold water line separately. Determine the total number of fixture units on a line by adding the unit values.
- 2) From Table 2, select the Watts arrestor with a fixture unit value rating equal to, or greater than, the total number of fixture units on the line.
- 3) For multiple fixture branch lines over 20' in length, the arrestor should be placed between the last two fixtures (Fig. A).
- 4) For multiple fixture branch lines over 20' in length, two arrestors should be used, with the second unit placed at the approximate midpoint of the line. The sum of the unit ratings for the two arrestors should be equal to, or greater than, the total fixture units for the line (Fig. B).

For long runs of piping terminating at a piece of equipment, the arrestor size should be determined from Table 3. The arrestor(s) should be located as near as possible to the closure valve (Fig. C).

**Note:** Sizing recommendations are based on an average flow velocity between 5 and 10 feet per second, and an operating pressure less than 65 PSI. For operating pressures over 65 PSI, use the next larger arrestor size. A pressure reducing valve is recommended for line pressures exceeding 85 PSI.

Calculation Example:  
 Cold water branch (less than 20')  
 2 water closets @ 10 fixture units ea. = 20 fixture units  
 2 lavatories @ 1-1/2 fixture units ea. = 3 fixture units  
 Total fixture units = 23  
 Select PDI Size B Water Hammer Arrestor

### Sizing & Placement

| Fixture              | Type Of Supply Control | Fixture Unit Weight |       |         |       |
|----------------------|------------------------|---------------------|-------|---------|-------|
|                      |                        | Public              |       | Private |       |
|                      |                        | Cold                | Hot   | Cold    | Hot   |
| Water Closet         | Flush Valve            | 10                  | -     | 6       | -     |
| Water Closet         | Flush Tank             | 5                   | -     | 3       | -     |
| Pedestal Urinal      | Flush Valve            | 10                  | -     | -       | -     |
| Stall or Wall Urinal | Flush Valve            | 5                   | -     | -       | -     |
| Stall or Wall Urinal | Flush Tank             | 3                   | -     | -       | -     |
| Lavatory             |                        | 1-1/2               | 1 1/2 | 1       | 1     |
| Bathtub              |                        | 2                   | 3     | 1 1/2   | 1 1/2 |
| Shower Head          |                        | 2                   | -     | 1       | 2     |
| Bathroom Group       |                        | -                   | -     | 8       | 3     |
| Bathroom Group       |                        | -                   | -     | 6       | 3     |
| Separate Shower      |                        | -                   | -     | 1       | 2     |
| Service Sink         |                        | 3                   | 3     | -       | -     |
| Laundry Tubs (1-3)   |                        | -                   | -     | 3       | 3     |
| Combination Fixture  |                        | -                   | -     | 3       | 3     |



Consult factory for all applications outside of listed parameters.  
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# Specialties

## Water Hammer Arrestors

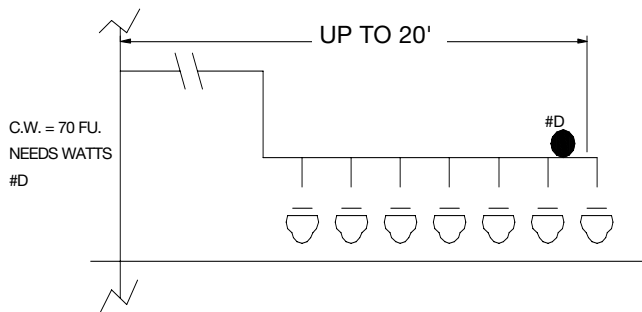
### Sizing & Placement

**Table 2**

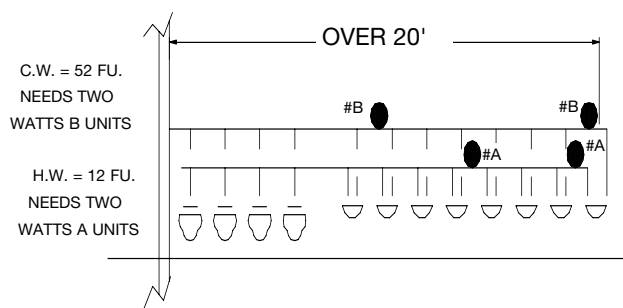
| Fixture Unit Weight    | 1-11        | 12-32       | 33-60       | 61-113      | 114-154     | 155-330     |
|------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| PDI Symbol             | A           | B           | C           | D           | E           | F           |
| Watts LF15M2-DR Series | LF15M2-A-DR | LF15M2-B-DR | LF15M2-D-DR | LF15M2-D-DR | LF15M2-E-DR | LF15M2-F-DR |
| Watts SS Series        | SS-A        | SS-B        | SS-C        | SS-D        | SS-E        | SS-F        |

**Table 3**

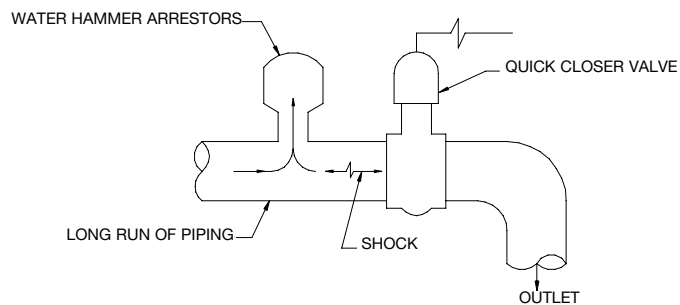
| Length of Pipe | Nominal Pipe Size |      |    |        |        |         |
|----------------|-------------------|------|----|--------|--------|---------|
|                | 1/2"              | 3/4" | 1" | 1-1/4" | 1-1/2" | 2"      |
| 25'            | A                 | A    | B  | C      | D      | E       |
| 50'            | A                 | C    | C  | D      | E      | F       |
| 75'            | B                 | C    | D  | A + E  | F      | E + F   |
| 100'           | C                 | D    | E  | F      | C + F  | 2-F     |
| 125'           | C                 | D    | F  | A + F  | E + F  | E + 2-F |
| 150'           | D                 | E    | F  | D + F  | 2-F    | 3-F     |



**Figure A**



**Figure B**



**Figure C**

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



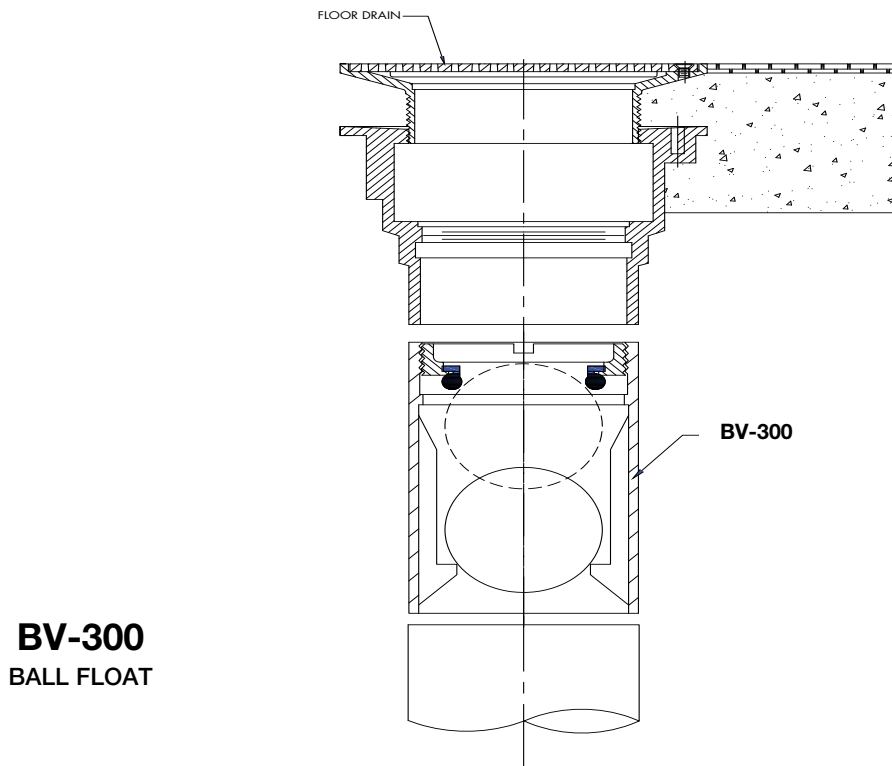
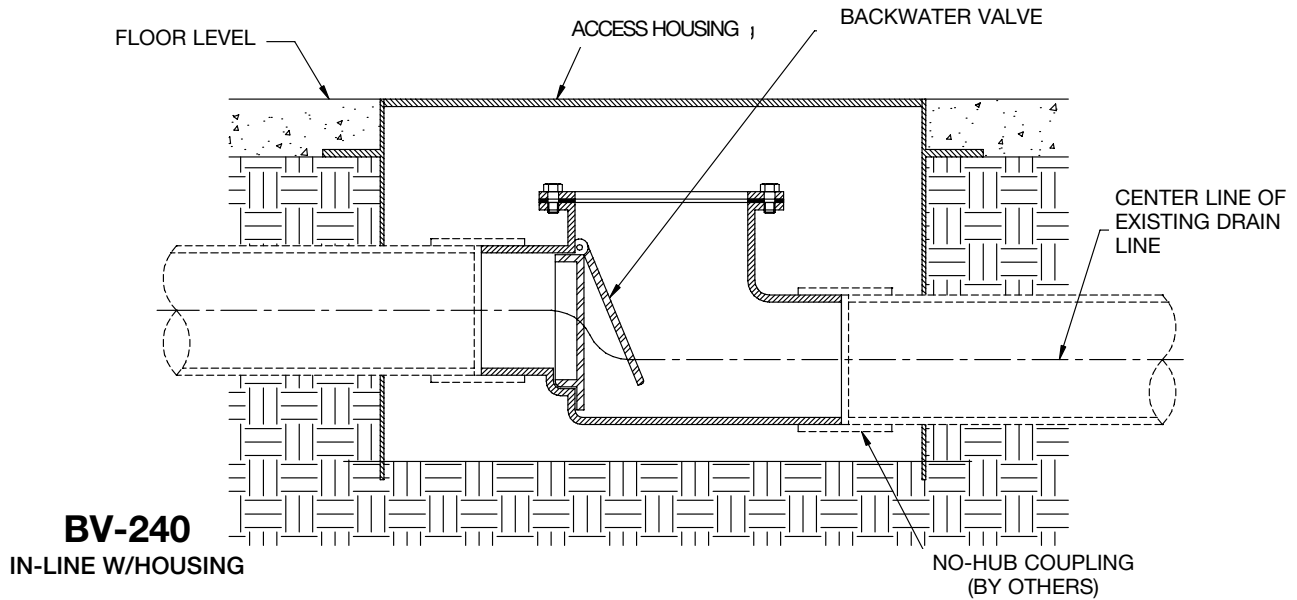
# Specialties

## Backwater Valves

Watts backwater valves should be specified for gravity flow only, and not used in pressurized applications.

Flapper type backwater valves are specified in gravity flow (non-pressure) applications to restrict backflow from excessive rainfall, tidewater, or other drainage conditions. The bronze flapper valve should be periodically inspected and kept free of debris or other obstruction to assure proper functioning.

## Typical Installations



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Specialties

## Trap Primers

### Compliance

Watts LFTP300-DR trap primers are tested and approved in conformance with ASSE Standard 1018.

### Pressure & Flow Characteristics

Minimum supply pressure: 25 PSI

Maximum supply pressure: 125 PSI

### FLOW CHART

| INLET PRESSURE | 25  | 50  | 75  | 100 | 125 |
|----------------|-----|-----|-----|-----|-----|
| *GPM           | 1.1 | 1.6 | 2.0 | 2.3 | 2.4 |
| *LPM           | 4.2 | 6.1 | 7.6 | 8.7 | 9.1 |

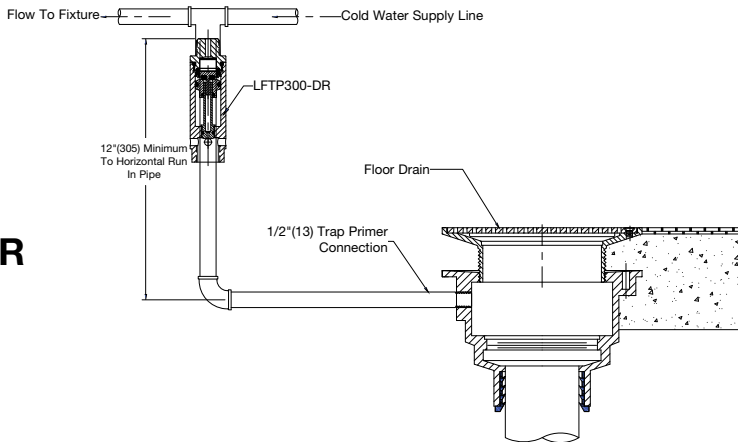
\* Minimum cold flow required for proper trap priming.

### Distribution Unit

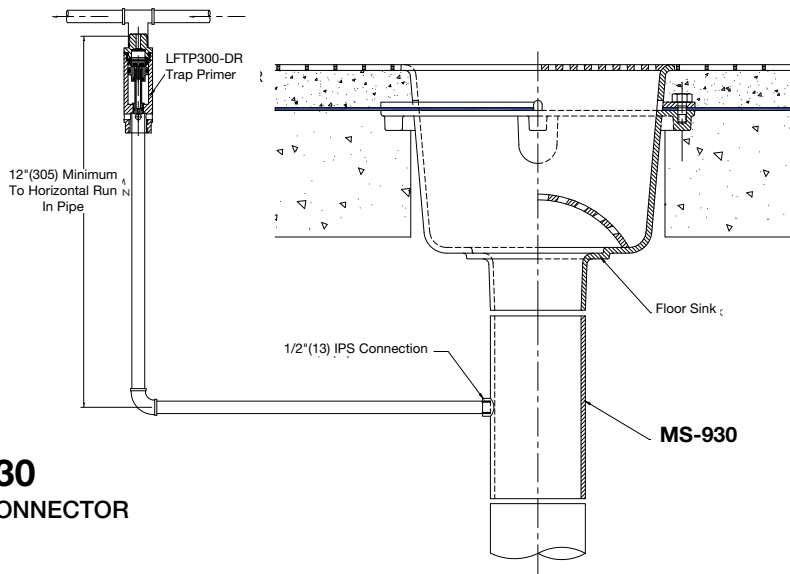
Watts model LFTP300-DU-DR Distribution Unit enables connection to up to four traps with a single trap primer.

### Typical Installations

**LFTP300-DR**  
TRAP PRIMER



**MS-930**  
TRAP PRIMER CONNECTOR



Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



# Water Hammer Arrestors

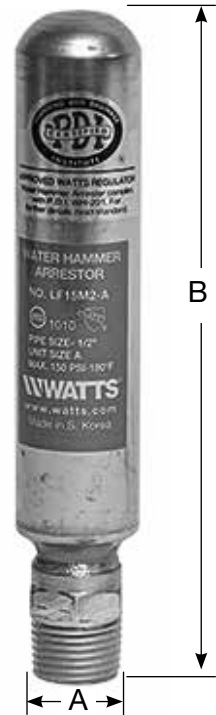
## SG-Series

## Copper Water Hammer Arrestors



| Model Number | PDI Size | List Price |
|--------------|----------|------------|
| SG-050       | A        | \$58.98    |
| SG-075       | B        | 77.76      |
| SG-100       | C        | 175.30     |
| SG-125       | D        | 217.06     |
| SG-150       | E        | 294.60     |
| SG-200       | F        | 458.82     |

| Technical Data |                     |            |      |           |       |          |               |
|----------------|---------------------|------------|------|-----------|-------|----------|---------------|
| Model No.      | Connection Threaded | Dimensions |      |           |       | PDI Size | Fixture Units |
|                |                     | A          |      | B         |       |          |               |
|                |                     | In.        | MM   | In.       | MM    |          |               |
| SG-050         | 1/2"                | 1 1/8"     | 28.5 | 5 15/16"  | 150.9 | A        | 1-11          |
| SG-075         | 3/4"                | 1 3/8"     | 34.9 | 8 9/16"   | 218.0 | B        | 12-32         |
| SG-100         | 1"                  | 1 5/8"     | 41.3 | 8 13/16"  | 223.5 | C        | 33-60         |
| SG-125         | 1"                  | 2 1/8"     | 54.0 | 9 15/16"  | 252.5 | D        | 61-113        |
| SG-150         | 1"                  | 2 1/8"     | 54.0 | 12 11/16" | 322.5 | E        | 114-154       |
| SG-200         | 1"                  | 2 5/8"     | 66.7 | 11 5/32"  | 283.5 | F        | 155-330       |



## SS Series

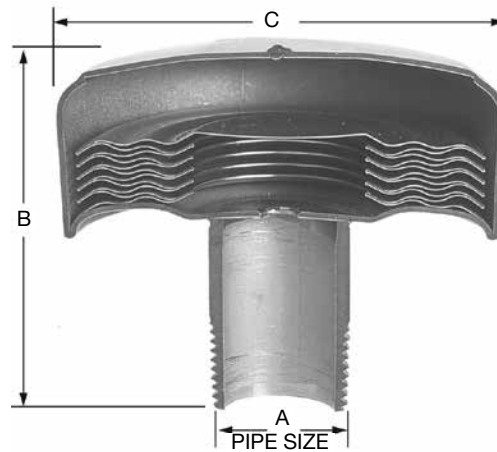
## Stainless Steel Shock Arrestors



| Model Number | Order Code | PDI SIZE. | Conn. Size | Height | List Price |
|--------------|------------|-----------|------------|--------|------------|
| SS-A         | 8145635    | A         | 3/4"       | 3 1/4" | \$444.75   |
| SS-B         | 8145636    | B         | 1"         | 4 1/4" | 628.38     |
| SS-C         | 8145637    | C         | 1"         | 5 3/4" | 987.47     |
| SS-D         | 8145638    | D         | 1"         | 6 1/2" | 1,823.73   |
| SS-E         | 8145639    | E         | 1"         | 6 3/4" | 2,283.17   |
| SS-F         | 8145640    | F         | 1"         | 7 1/4" | 2,987.93   |



## Stainless Steel Series



| Technical Data |             |            |              |             |            |            |
|----------------|-------------|------------|--------------|-------------|------------|------------|
|                | SS-A        | SS-B       | SS-C         | SS-D        | SS-E       | SS-F       |
| Fixture Unit   | 1-11        | 12-32      | 33-60        | 61-113      | 114-154    | 155-330    |
| "A" Connection | 3/4"(19)    | 1"(25)     | 1"(25)       | 1"(25)      | 1"(25)     | 1"(25)     |
| "B" Height     | 3-3/16"(81) | 4"(102)    | 4-5/16"(110) | 5-1/4"(133) | 7"(178)    | 7"(178)    |
| "C" Diameter   | 3-1/4"(83)  | 3-1/4"(83) | 3-1/4"(83)   | 3-1/4"(83)  | 3-1/4"(83) | 3-1/4"(83) |
| PDI Size       | A           | B          | C            | D           | E          | F          |



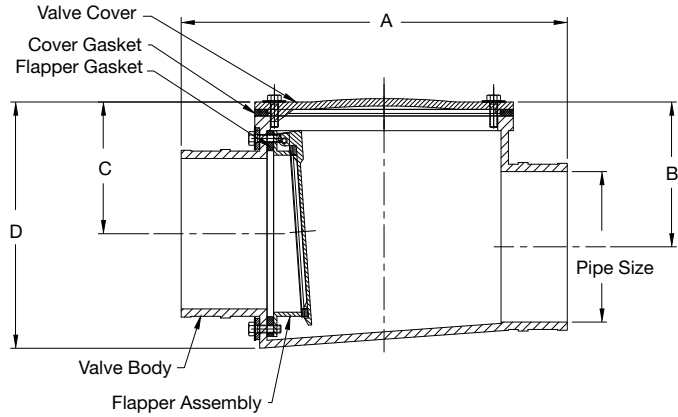
Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Backwater Valves

## BV-200

### Cast Iron In-Line Backwater Valve

| Model Number | Order Code | Wt. Lbs. | Size | List Price |
|--------------|------------|----------|------|------------|
| BV-203       | 8132724    | 16       | 3"   | \$1,415.16 |
| BV-204       | 8132727    | 22       | 4"   | 1,972.72   |
| BV-206       | 8132731    | 30       | 6"   | 3,960.83   |



| Pipe Size | A            | B            | C          | D           |
|-----------|--------------|--------------|------------|-------------|
| 3"(76)    | 11-5/8"(294) | 4-3/16"(107) | 3-3/4"(94) | 6-1/2"(165) |
| 4"(102)   | 12"(305)     | 4-3/8"(110)  | 3-7/8"     | 7-1/4"(184) |
| 6"(152)   | 14-3/4"(375) | 5-1/2"(140)  | 5"(127)    | 9-3/8"(238) |

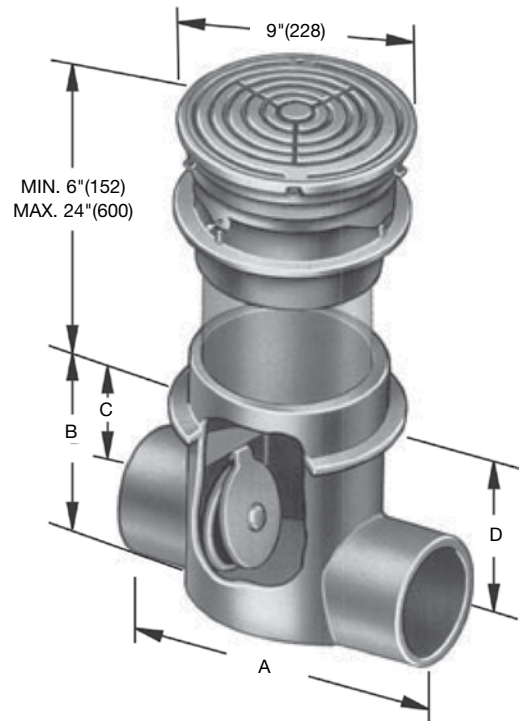
## BV-230-R

### In-Line Backwater Valve with Access Housing

| Model Number | Size    | List Price |
|--------------|---------|------------|
| BV-233-R-50  | 3"(76)  | \$5,642.64 |
| BV-234-R-50  | 4"(102) | 6,221.50   |
| BV-233-R-1   | 3"(76)  | 5,642.64   |
| BV-234-R-1   | 4"(102) | 6,221.51   |

Note: Epoxy coated Steel Access Housing

| NH Size | A            | B           | C           | D           |
|---------|--------------|-------------|-------------|-------------|
| 2"(51)  | 10 3/8"(264) | 4"(102)     | 3"(76)      | 3 1/2"(89)  |
| 3"(76)  | 8"(203)      | 6"(152)     | 3 3/8"(86)  | 4 1/2"(115) |
| 4"(102) | 9 1/2"(241)  | 7 1/2"(191) | 4 1/8"(105) | 4 3/8"(112) |
| 6"(152) | P.O.A.       | P.O.A.      | P.O.A.      | P.O.A.      |



Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



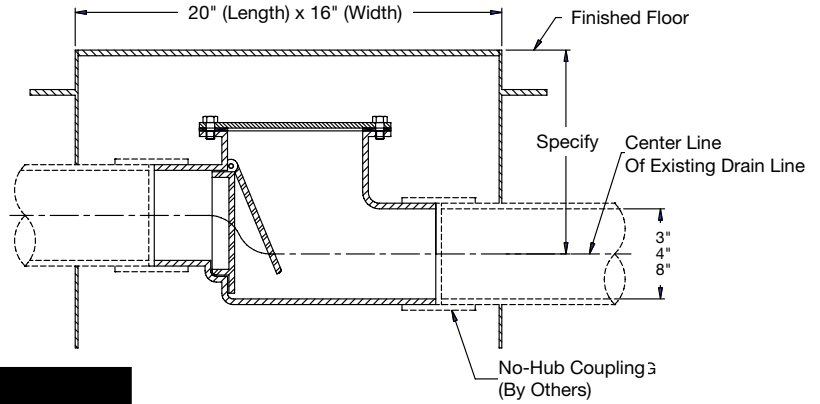
# Backwater Valves

## BV-240

### In-Line Backwater Valve with Access Housing

| Model Number | Wt. Lbs. | Size | List Price  |
|--------------|----------|------|-------------|
| BV-243       | 16       | 3"   | \$15,655.63 |
| BV-244       | 22       | 4"   | 16,213.19   |
| BV-246       | 30       | 6"   | 18,201.30   |

Note: Epoxy-coated Steel Access Housing



#### Options for BV-240 Series:

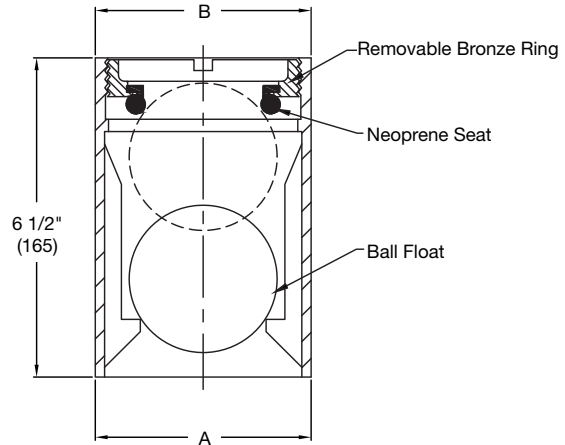
| Suffix | Description              | List Price |
|--------|--------------------------|------------|
| -HD    | Heavy Duty Traffic Cover | \$6,691.00 |

## BV-300

### Ball Float Backwater Valve

| Model Number | Wt. Lbs. | Size  | List Price |
|--------------|----------|-------|------------|
| BV-302       | 5        | 3"x2" | \$ 664.95  |
| BV-303       | 5        | 3"    | 664.95     |
| BV-304       | 5        | 4"    | 664.95     |

| Size    | A            | B           |
|---------|--------------|-------------|
| 2"(51)  | 2 11/32"(59) | 3 3/8"(86)  |
| 3"(76)  | 3 3/8"(86)   | 3 3/8"(86)  |
| 4"(102) | 4 3/8"(111)  | 4 3/8"(111) |



## BV-600

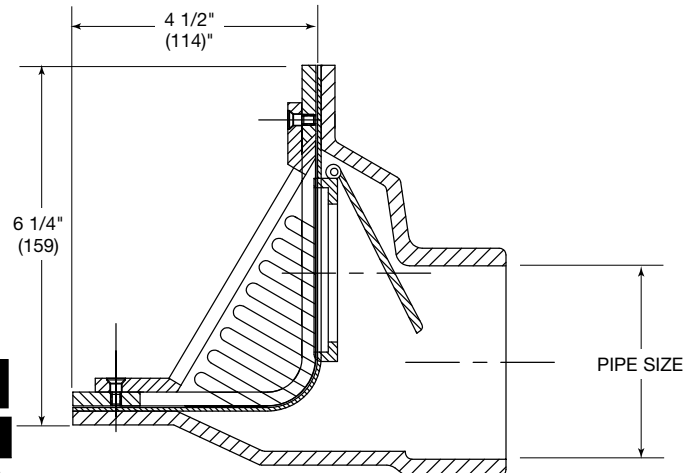
### Pit Drain with Backwater Valve

| Model Number | Wt. Lbs. | Size   | List Price |
|--------------|----------|--------|------------|
| BV-602,3,4   | 40       | 2,3,4" | \$1,491.20 |
| BV-606       | 40       | 6"     | 2,167.15   |
| BV-602,3,4-1 | 40       | 2,3,4" | \$2,325.33 |
| BV-606-1     | 40       | 6"     | 3,190.94   |



#### Options for BV-600 Series:

| Suffix | Description                 | List Price |
|--------|-----------------------------|------------|
| -1     | Nickel Bronze Grate & Frame | \$747.50   |
| -6     | Vandal Proof Grate          | 189.50     |



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Trap Primers/Miscellaneous Specialties

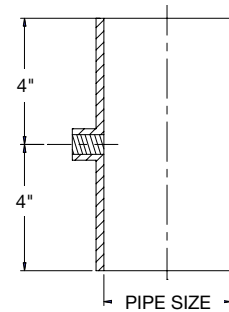
## LFTP300-DR Trap Primer & Distribution Unit

| Model Number  | Wt. Lbs. | Size | List Price |
|---------------|----------|------|------------|
| LFTP300T-DR   | 1        | 1/2" | \$425.72   |
| LFTP300S-DR   | 1        | 1/2" | 425.72     |
| LFTP300-DU-DR | 1        | 1/2" | 117.47     |



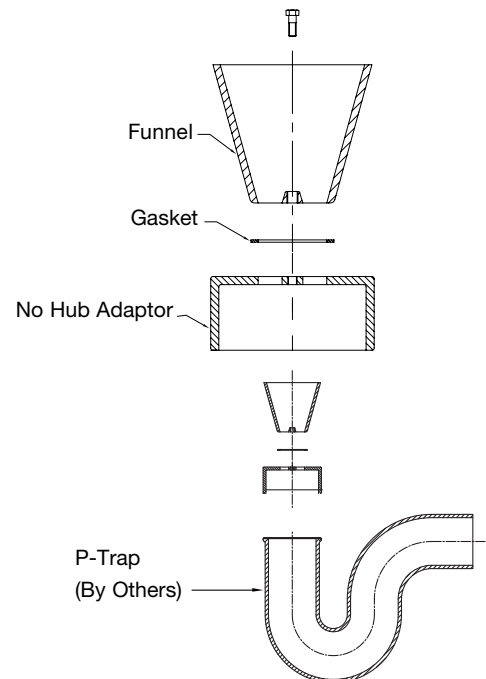
## MS-930 Trap Primer Adaptor

| Model Number | Order Code | Size     | Material  | List Price |
|--------------|------------|----------|-----------|------------|
| MS-932, 3, 4 | 8143303    | 2, 3, 4" | cast iron | \$89.68    |



## MS-950 Funnel/Trap Adaptor

| Model Number | Size   | Funnel       | List Price |
|--------------|--------|--------------|------------|
| MS-952,3     | 2, 3," | 4" Cast Iron | \$CF**     |



Typical Installation

Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.





## Miscellaneous Specialties

**MS-8000**

**Fresh Air Inlet**

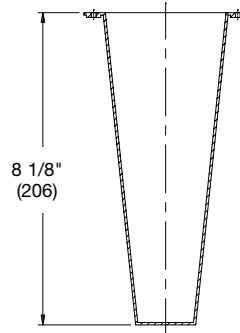
| Model Number | Order Code | Size  | Material      | Wt., Lbs. | List Price |
|--------------|------------|-------|---------------|-----------|------------|
| MS-8034      | 8186273    | 3, 4" | Nickel Bronze | 3         | \$1,146.98 |
| MS-8056      | 8186274    | 5, 6" | Nickel Bronze | 4         | CF**       |



**WPS Series**

**Plastic Pipe Sleeves**

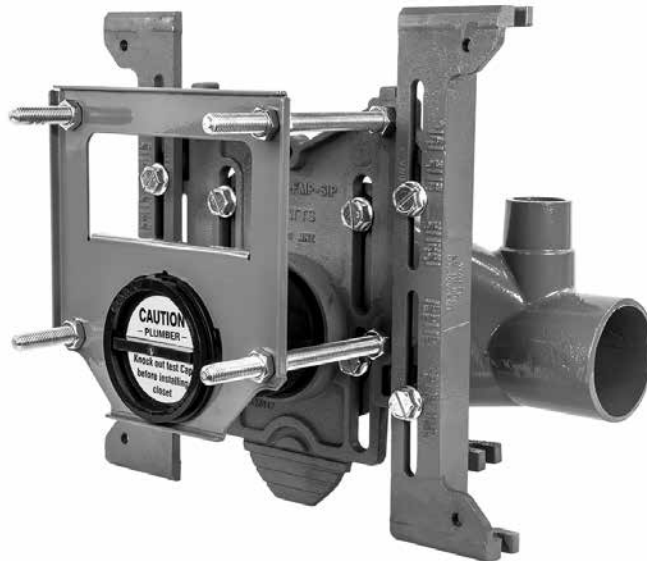
| Model Number | Order Code | Size   | Taper Degree | Carton Qty. | List Price |
|--------------|------------|--------|--------------|-------------|------------|
| WPS-0151     | 8143770    | 1-1/2" | 3            | 336         | \$9.33     |
| WPS-021      | 8143771    | 2"     | 3            | 280         | 10.37      |
| WPS-033      | 8143773    | 3"     | 3            | 168         | 11.25      |
| WPS-043      | 8143775    | 4"     | 3            | 96          | 14.38      |
| WPS-053      | 8143777    | 5"     | 3            | 72          | 15.80      |
| WPS-063      | 8143779    | 6"     | 3            | 40          | 15.87      |
| WPS-083      | 8143780    | 8"     | 3            | n/a         | 31.83      |
| WPS-101      | 8143781    | 10"    | 3            | n/a         | 57.44      |
| WPS-121      | 8143782    | 12"    | 3            | n/a         | 59.82      |



# Fixture Carriers

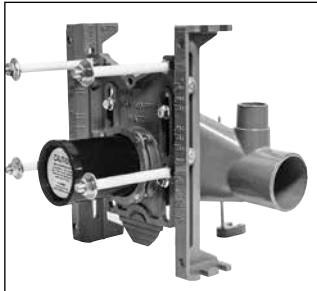
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  - QT QuickTurn™ Closet Carriers
  - Matching Water Closet & Carrier
  - Carrier Selection & Battery Set-Up
  - Stud & Nipple Adjustment
  - Floor Anchoring
  - Thin Wall Carriers
  - Commonly Specified Options
- Wall Hung Fixture Carriers
  - Lavatory Carriers
  - Urinal & Water Cooler Carriers
  - Service Sink Carriers

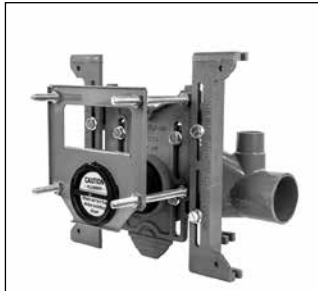


# Fixture Carriers

## Pictorial Index



**ISCA-101-L/R**  
Single Horizontal  
Compression Seal



**QT-101-L/R**  
Single Horizontal  
QuickTurn™



**ISCA-101-L/R-AUX**  
Single Horizontal w/Aux.  
Inlet Compression Seal



**QT-101-L/R-AUX**  
Single Horizontal w/Aux.  
Inlet QuickTurn™



**ISCA-101-L/R-BF**  
Single Horiz. Floor Mounted  
Back Outlet - Compression Seal



**QT-101-L/R-BF**  
Single Horiz. Floor Mounted  
Back Outlet - QuickTurn™



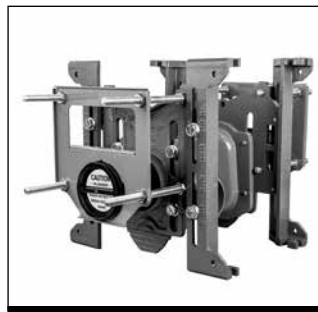
**ISCA-101-L/R-TAS**  
Single Horiz. for 4" Rough-  
In Compression Seal



**QT-101-L/R-TAS**  
Single Horiz. for 4" Rough-  
In QuickTurn™



**ISCA-101-D**  
Back-to-Back Horizontal  
Compression Seal



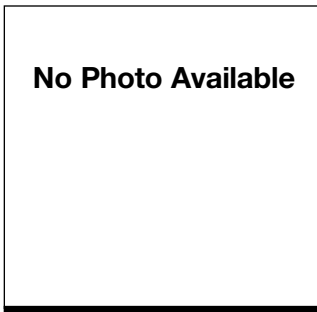
**QT-101-D**  
Back-to-Back Horizontal  
QuickTurn™



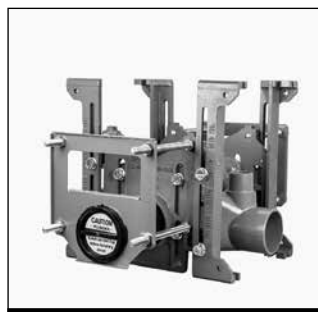
**ISCA-101-D-BF**  
Back-to-Back Horiz. Floor Mounted  
Back Outlet - Compression Seal



**QT-101-D-BF**  
Back-to-Back Horiz. Floor Mounted  
Back Outlet - QuickTurn™



**ISCA-101-D-TAS**  
Back-to-Back Horiz. for 4"  
Rough-In Compression Seal



**QT-101-D-TAS**  
Back-to-Back Horiz. for 4"  
Rough-In QuickTurn™



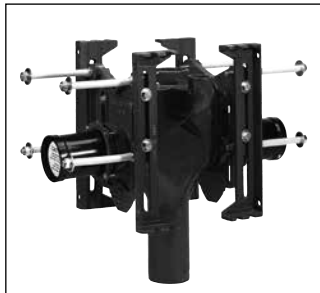
**ISCA-121**  
Single Vertical  
Compression Seal



**QT-121**  
Single Vertical  
QuickTurn™

# Fixture Carriers

## Pictorial Index



**ISCA-121-D**  
Back-to-Back Vertical  
Compression Seal



**QT-121-D**  
QT QuickTurn™ Back-to-Back  
Vertical Adj. Closet Carrier



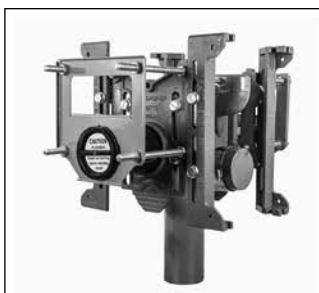
**ISCA-131**  
Single Vertical w/Side Inlet(s)  
Compression Seal



**QT-131**  
Single Vertical w/Side Inlet(s)  
QuickTurn™



**ISCA-131-D**  
Back-to-Back Vertical w/Side  
Inlet(s) - Compression Seal



**QT-131-D**  
Back-to-Back Vertical w/  
Side Inlet(s) - QuickTurn™



**ISCA-141**  
Single Thin Wall Vertical  
Compression Seal



**QT-141**  
Single Thin Wall Vertical  
QuickTurn™



**ISCA-141-4-D**  
Back-to-Back Thin Wall  
Vertical - Compression Seal



**QT-141-4-D**  
Back-to-Back Thin Wall  
Vertical - QuickTurn™



**ISCA-151-L/R**  
Single Offset Thin Wall Vertical  
Compression Seal



**QT-151-L/R**  
Single Offset Thin Wall Vertical  
QuickTurn™



**ISCA-151-D**  
Back-to-Back Offset Thin Wall  
Vertical - Compression Seal



**QT-151-D**  
Back-to-Back Offset Thin  
Wall Vertical - QuickTurn™



**QT-161-L/R**  
Single Thin Wall Horizontal  
QuickTurn™

# Fixture Carriers

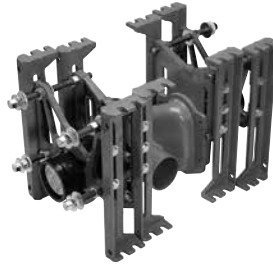
## Pictorial Index



**ISCA-102-L/R**  
1000 lb. Single Horizontal  
Compression Seal



**QT-102-L/R**  
1000 lb. Single Horizontal  
QuickTurn™



**ISCA-102-D**  
1000 lb. Back-to-Back  
Horizontal - Compression Seal



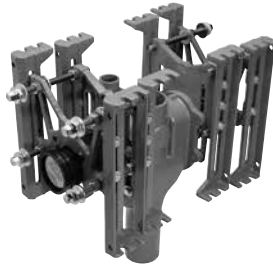
**QT-102-D**  
1000 lb. Back-to-Back  
Horizontal - QuickTurn™



**ISCA-122**  
1000 lb. Single Vertical  
Compression Seal



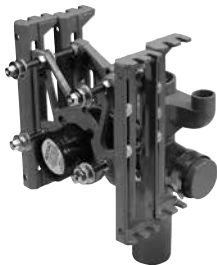
**QT-122**  
1000 lb. Single Vertical  
QuickTurn™



**ISCA-122-D**  
1000 lb. Back-to-Back  
Vertical - Compression Seal



**QT-122-D**  
1000 lb. Back-to-Back  
Vertical - QuickTurn™



**ISCA-132**  
1000 lb. Single Vertical w/Side  
Inlet(s) - Compression Seal



**QT-132**  
1000 lb. Single Vertical w/  
Side Inlet(s) - QuickTurn™



**ISCA-132-D**  
1000 lb. Back-to-Back Vertical w/  
Side Inlet(s) - Compression Seal



**QT-132-D**  
1000 lb. Back-to-Back Vertical  
w/Side Inlet(s) - QuickTurn™



**ISCA-103-L/R**  
750 lb. Single Horizontal  
Compression Seal



**QT-103-L/R**  
750 lb. Single Horizontal -  
QuickTurn™



**ISCA-103-D**  
750 lb. Back-to-Back Horizontal  
- Compression Seal



**QT-103-D**  
7650 lb. Back-to-Back  
Horizontal - QuickTurn™



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Fixture Carriers

## Pictorial Index



**ISCA-123**  
750 lb. Single Vertical  
Compression Seal



**QT-123**  
750 lb. Single Vertical  
QuickTurn™



**ISCA-123-D**  
750 lb. Back-to-Back Vertical  
Compression Seal



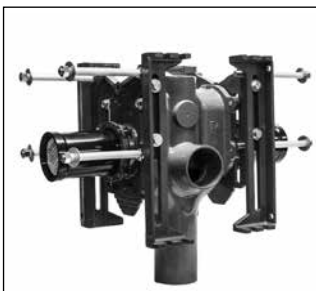
**QT-123-D**  
750 lb. Back-to-Back  
Vertical QuickTurn™



**ISCA-133**  
750 lb. Single Vertical w/Side  
Inlet(s) - Compression Seal



**QT-133**  
750 lb. Single Vertical w/  
Side Inlet(s) - QuickTurn™



**ISCA-133-D**  
750 lb. Back-to-Back Vertical w/  
Side Inlet(s) - Compression Seal



**QT-133-D**  
750 lb. Back-to-Back Vertical w/  
Side Inlet(s) - QuickTurn™



**CA-100-EXT**  
Water Closet Auxiliary  
Support Compression Seal



**QT-100-EXT**  
Water Closet Auxiliary Support  
QuickTurn™

# Fixture Carriers

## Pictorial Index



**TCA-411/TCA-411-WC**  
Concealed Arm "Track"  
Lavatory Carrier



**WCA-411/WCA-411-WC**  
Concealed Arm Lavatory  
Carrier



**TCA-411-D/TCA-411-D-WC**  
Back-to-Back Concealed Arm  
"Track" Lavatory Carrier



**WCA-411-D/WCA-411-D-WC**  
Back-to-Back Concealed Arm  
Lavatory Carrier



**TCA-411-WLA**  
FM Concealed Arm Lavatory  
Carrier w/Waste Line Access



**WCA-411-WLA**  
FM Concealed Arm Lavatory  
Carrier w/Waste Line Access



**TCA-411-D-WLA**  
Back-to-Back Concealed Arm  
Lav. Carrier w/Waste Line Access



**WCA-411-D-WLA**  
Back-to-Back Concealed Arm  
Lav. Carrier w/Waste Line Access



**TCA-411-2/3/4**  
Extended Concealed Arm  
"Track" Lavatory Carrier



**CA-311**  
Urinal Carrier



**CA-321**  
Urinal Carrier w/Bearing  
Plate



**CA-401**  
Exposed Arm Lavatory  
Carrier



**CA-421**  
Plate Type Lavatory/Water  
Cooler Carrier



**CA-431-1**  
Bi-Level Water Cooler  
Carrier



**TCA-440/TCA-450**  
Wall Mounted Concealed  
Arm "Track" Lavatory Carrier



**CA-461**  
Wall Mounted Concealed  
Arm Lavatory Carrier



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Fixture Carriers

## Pictorial Index



**CA-462**  
Wall Mounted Concealed  
Arm Lavatory Carrier



**CA-481**  
Wall Plate



**ISCA-550**  
3-Bolt Service Sink Carrier



**ISCA-560**  
4-Bolt Service Sink Carrier



# Fixture Carriers

## Recommendations

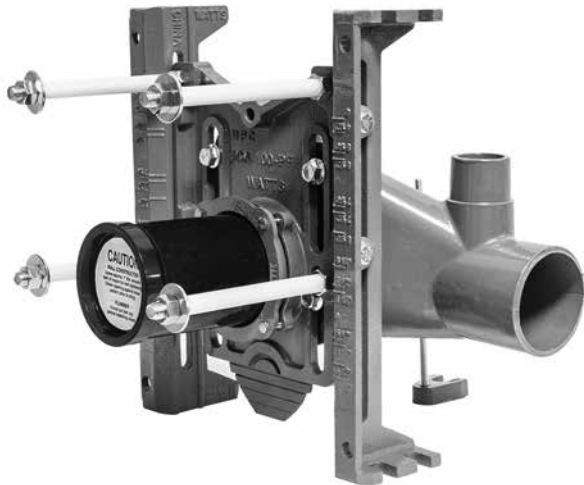
| Application                              | Product                                      |
|--|--|
| Water closet standard 500 lb.....        | ISCA/QT-101, ISCA/QT-121, ISCA/QT-131 Series |
| Water closet 750 lb.....                 | ISCA/QT-103, ISCA/QT-123, ISCA/QT-133 Series |
| Water closet bariatric 1000 lb.....      | ISCA/QT-102, ISCA/QT-122, ISCA/QT-132 Series |
| Water closet/urinal back-to-back.....    | ISCA/QT-101-L/R-AUX                          |
| Water closet thin wall horizontal.....   | QT-161 Series                                |
| Water closet thin wall vertical.....     | ISCA/QT-141, ISCA/QT-151 Series              |
| Lavatory concealed arm - block wall..... | TCA-411, TCA-411-WC                          |
| Lavatory concealed arm - stud wall.....  | WCA-411, WCA-411-WC                          |
| Lavatory exposed arm.....                | CA-401                                       |
| Urinals.....                             | CA-311, CA-321                               |
| Water coolers, drinking fountains.....   | CA-421, CA-431-1                             |
| Service sinks.....                       | ISCA-550, ISCA-560                           |

## Water Closet Carriers

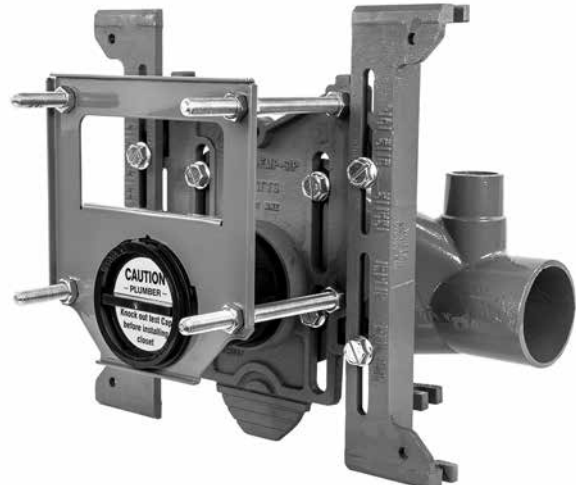
Water Closet Carriers support wall hung "off the floor" water closets. Carriers anchor to the structural floor behind the finished wall, supporting the fixture independent of the wall structure. Watts unique *Industry Standard* and QT QuickTurn™ closet carriers provide exceptional benefits for both pre-fabrication and jobsite installation.

*Industry Standard* Closet Carriers feature a patented 4-bolt mechanical compression seal nipple. The positive nipple seal holds test without additional sealants, reducing test expenses and eliminating the potential for costly behind the wall leaks.

QT QuickTurn™ Closet Carriers are designed with an exclusive wall plate and locking nipple that can be fully adjusted from outside the finished wall. Designed specifically for pre-fabrication, QT Carriers promote pre-fab assembly speed and jobsite reliability.



**Industry Standard Compression Seal Carrier**



**QT QuickTurn™ Carrier**



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Fixture Carriers

## Recommendations

### Matching Closet & Carrier

Watts carriers can be installed with any commercial 4-bolt (siphon jet) water closet. *Industry Standard* faceplates can be inverted to accommodate 3-bolt (blow-out) fixtures.

Standard Watts closet carriers are tested and third party certified to 500 lb. load rating per AMSE Standard A112.6.1M. Bariatric or other heavy use applications may require 750 lb. and 1000 lb. carriers. Note 750 lb. and 1000 lb. carriers have different wall spacing requirements and a smaller range of adjustment than standard carriers. Special wall construction design and accommodations may be required.

### Carrier Selection & Battery Set-Up

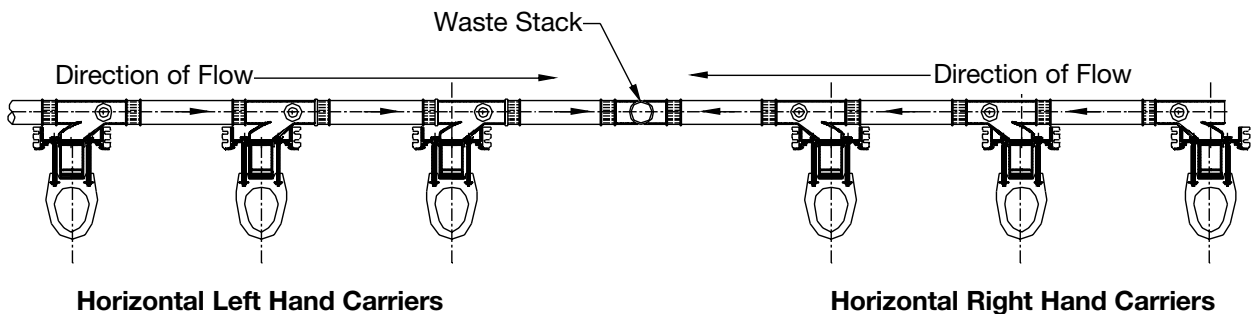
Closet carriers are often installed in groups (batteries) to accommodate multiple fixture and back-to-back bathroom groups. These factors should be considered in the specification of carrier batteries:

#### 1. Location of the waste stack

A waste stack may be located directly behind a water closet, at a midpoint, or at the end of a carrier battery. The position of the stack determines which specific carriers are required, as all waste flows towards the stack.

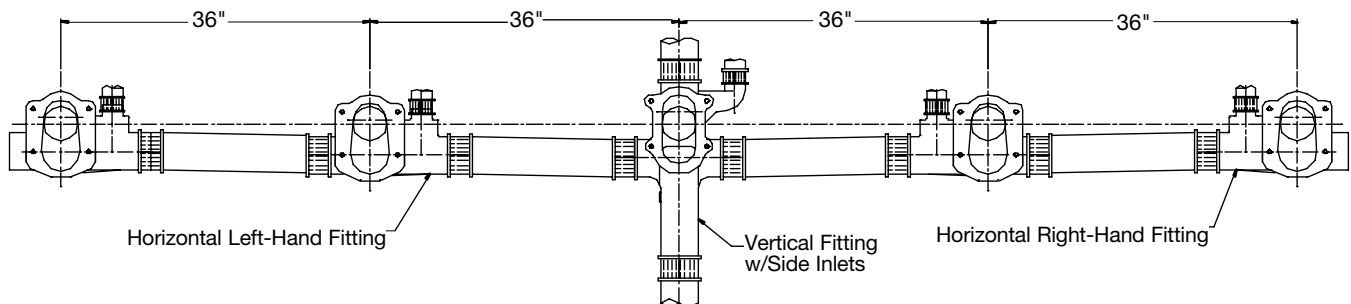
#### 2. Horizontal carrier direction

Single horizontal carriers are specified either left hand or right hand (L or R), depending on the direction of flow. To determine L or R, with your back to the wall, point in the direction of flow. If the flow is to the left, a left hand carrier is required. Back-to-back horizontal carriers are reversible, and do not require a flow direction specification.



#### 3.) Vertical carriers with side inlets (stack fittings)

ISCA/QT-131/132/133 Series carriers are specified in batteries with a waste stack located directly behind one of the bowls. Watts vertical stack fittings are supplied with two open inlets and one no hub cap. The cap can be reversed to open a left or right hand side inlet, or discarded to leave both inlets open



# Fixture Carriers

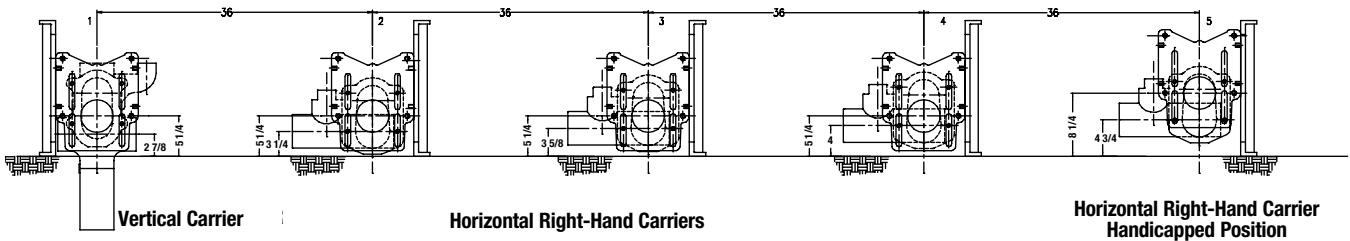
## Recommendations

### Carrier Selection & Battery Set-Up

#### 4.) Battery pitch & rough-in requirements

Standard bowl installations are typically 15" from the floor to the rim of the bowl, and "Physically Handicapped" (ANSI A112.19.2) installations 18" to the rim of the bowl. Assuming standard rough-in specifications of 1/8" pitch on the horizontal waste line, and 36" between fixtures, batteries can typically be constructed with up to 9 fixtures, provided a stack fitting is used in the center position. Handicapped fixtures can be incorporated into the batteries, and should be placed at the high end of the fixture run. The table below indicates minimum and maximum horizontal waste line positions, dependent upon the specified rough-in height of the bowl outlet.

| C/Bowl Outlet From Floor | Min. C/L Horiz. Waste from Floor | Max. C/L Horiz. Waste from Floor |
|--------------------------|----------------------------------|----------------------------------|
| 4 1/2"(115)              | 3"(76)                           | 4 1/12"(115)                     |
| 5"(127)                  | 3"(76)                           | 5"(127)                          |
| 5 1/2"(140)              | 3"(76)                           | 5 1/2"(140)                      |
| 6"(152)                  | 3"(76)                           | 6"(152)                          |
| 6 1/2"(165)              | 3 1/4"(82)                       | 6 1/2"(165)                      |
| 7"(178)                  | 3 5/8"(92)                       | 7"(178)                          |
| 7 1/2"(191)              | 4 1/8"(105)                      | 7 1/2"(191)                      |
| 8"(203)                  | 4 5/8"(118)                      | 8"(203)                          |
| 8 1/2"(203)              | 5"(127)                          | 8 1/2"(203)                      |
| 9"(229)                  | 5 3/8"(137)                      | 9"(229)                          |
| 9 3/8"(239)              | 5 3/4"(146)                      | 9 3/8"(239)                      |



### Stud & Nipple Adjustment

Closet horn depths and flange thicknesses from different fixture manufacturers may vary slightly. The closet nipple is usually set 5/16" beyond the face of the finished wall to allow for sufficient closet gasket compression, and ensure a gas and water tight seal (Fig. 2). Carrier studs generally extend 2-1/4" beyond the finished wall, with the back-up nut set flush with the finished wall, and 1/16" back-up washer between the wall and the fixture. Three cap nuts must tighten fully to properly load the carrier (Fig. 3). The fourth cap nut is typically left hand-tight, to avoid stress on the bowl.

**Note:** *Watts adhesive backed neoprene closet gaskets do not require an additional sealant to form a proper seal.*

These formulas can be used to calculate exact nipple and stud positions:

**Nipple Position:**  $A = B - 7/16"$   
**Where:**  
 A = distance nipple should extend beyond finished wall  
 B = depth of closet horn

**Stud Position:**  $X = Y + 5/8"$   
**Where:**  
 x = distance stud should extend beyond finished wall  
 Y = thickness of fixture flange

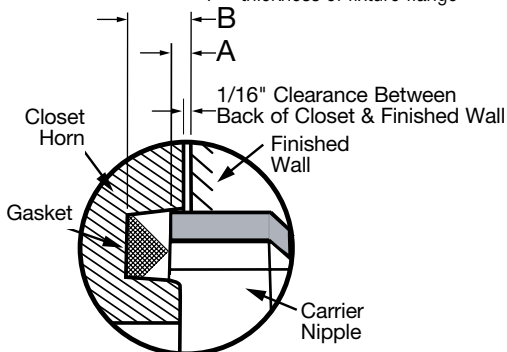


Figure 2

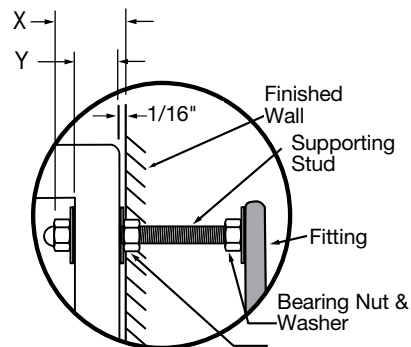


Figure 3



Consult factory for all applications outside of listed parameters.  
 Prices do not include applicable taxes.

# Fixture Carriers

## Recommendations

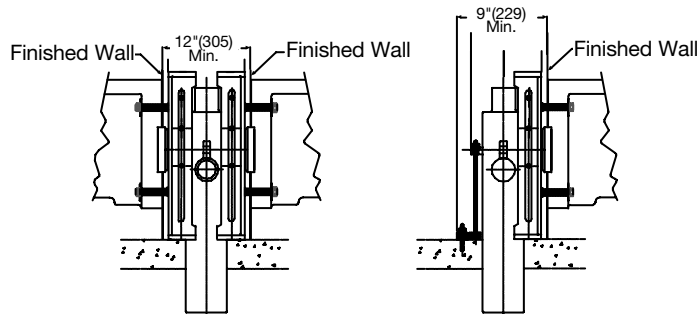
### Floor Anchoring

Closet carriers must be securely anchored to the structural floor with min. 1/2" dia. anchor bolts (by others). Particular attention should be paid to the rear anchor support on single horizontal carriers, as unsecure rear anchors are the primary cause of rocking or excessive deflection at the bowl.

Watts closet carrier feet have dual anchor slots which eliminates the problem of single anchors conflicting with concrete support bars (rebar). For standard 500 lb. carriers, only one anchor bolt is required to secure each leg to the floor.

### Thin Wall Vertical Carriers

ISCA/QT-141 & ISCA/QT-151 Series vertical carriers are specified in single or multiple story buildings with thin pipe chases. 141 series carriers vent directly off the top of the waste stack, and are generally used in single story installations. 151 series carriers have an offset fitting, and are commonly specified in multi-story and retrofit applications.



### Commonly Specified Options

#### -BF Assembly for Back Outlet Bowl

Yoke assembly enables connection of carrier to a floor mounted back outlet bowl.

#### CA-100-EXT (Auxiliary Support System)

Additional support at the finished wall for wide pipe chases, recommended when the 'X' dimension exceeds 16". Supplied standard with a 24" nipple (cut to size). Extended 5/8" support rods are supplied by others.

#### -HS Hub & Spigot Connections

Hub & spigot fitting and vent connections.

#### -M1 Extended Nipple

24" ABS nipple with integral test cap for installations in wide pipe chases. Can be cut to size.

#### -M11 Tiling Frame

Creates flat even surface at the finished wall for tile application.

#### -M16 Vandal Proof Cap Nuts

Cap nuts secured with Allen Head set screws to prevent hand removal.

#### -M20 Flush Valve Support

Copper support secures and aligns exposed flush valve supply pipe.

#### -QT-100-EXT (Auxiliary Support QT)

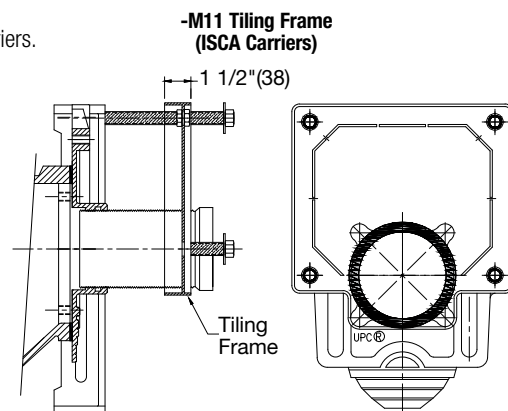
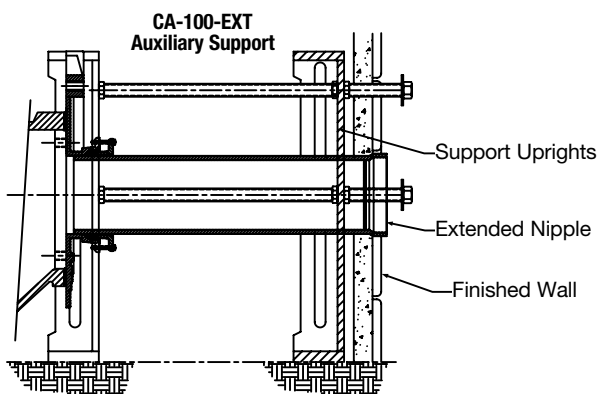
Additional support at the finished wall for wide pipe chases, recommended when the 'X' dimension exceeds 16". Supplied standard with a 24" nipple (cut to size). Extended 5/8" support rods are supplied by others.

#### -TAS Faceplate for 4" Rough-In

Enables bowl waste rough-in height 4" above finished floor. Specified in elementary schools, day-care centers, and other facilities serving young children.

#### -36 Long Barrel Horizontal Fitting

36" long fitting enables standard battery set-ups, without additional piping between carriers.



Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

**WATTS®**

# Industry Standard Water Closet Carriers

## ISCA-101 Horizontal Adjustable 500 lb. Closet Carrier

| Model Number   | Wt. Lbs. | Description                           | List Price |
|----------------|----------|---------------------------------------|------------|
| ISCA-101-L     | 77       | Single Horizontal - Left Hand         | \$1,674.53 |
| ISCA-101-R     | 77       | Single Horizontal - Right Hand        | 1,674.53   |
| ISCA-101-L-AUX | 77       | Single Horizontal - LH - 2" Aux Conn. | 1,814.11   |
| ISCA-101-R-AUX | 77       | Single Horizontal - RH - 2" Aux Conn. | 1,786.85   |
| ISCA-101-D     | 135      | Back-to-Back Horizontal               | 3,035.55   |



ISCA-101-L



ISCA-101-D

## ISCA-121 Vertical Adjustable 500 lb. Closet Carrier

| Model Number | Wt. Lbs. | Description           | List Price |
|--------------|----------|-----------------------|------------|
| ISCA-121     | 97       | Single Vertical       | \$2,039.56 |
| ISCA-121-D   | 160      | Back-to-Back Vertical | 3,861.55   |



ISCA-121



ISCA-121-D

## ISCA-131 Vertical Adjustable 500 lb. Closet Carrier with Side Inlet(s)

| Model Number | Wt. Lbs. | Description                             | List Price |
|--------------|----------|---|------------|
| ISCA-131     | 97       | Single Vertical - w/Side Inlet(s)       | \$2,326.54 |
| ISCA-131-D   | 160      | Back to Back Vertical - w/Side Inlet(s) | 3,780.20   |



ISCA-131



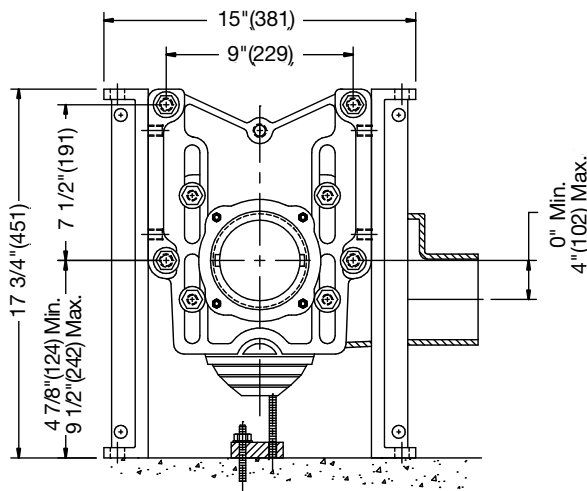
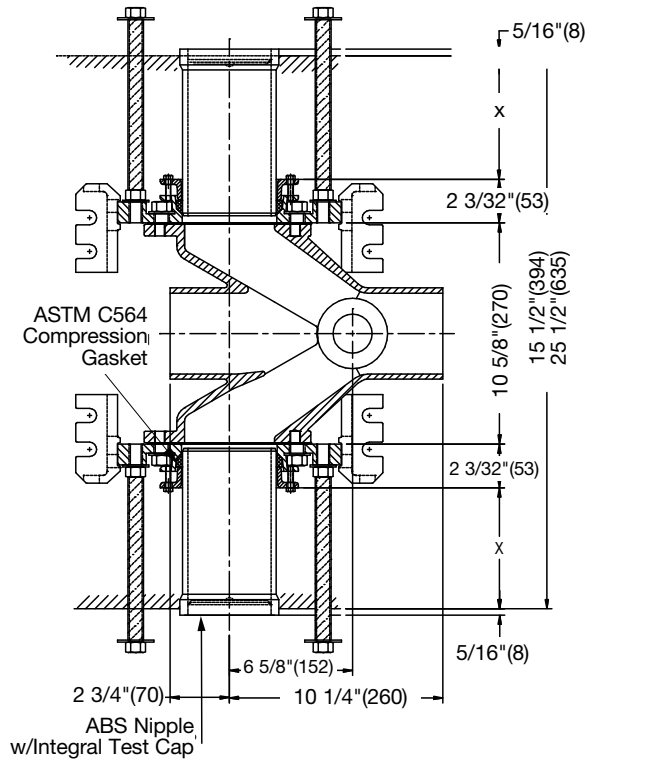
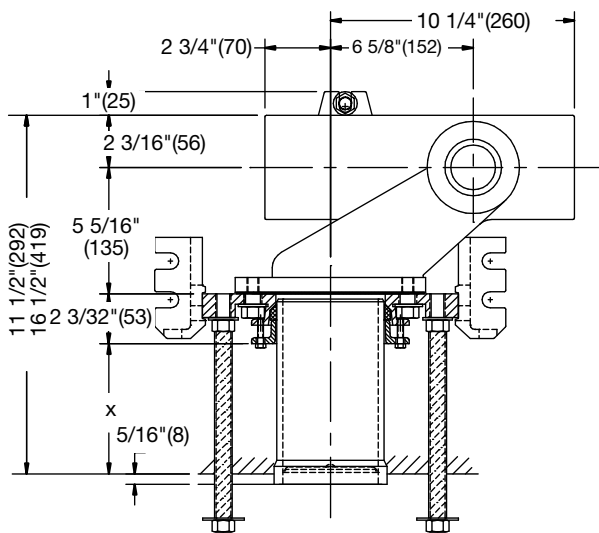
ISCA-131-D

See Pg. 235 for options & parts for all ISCA & QT models.

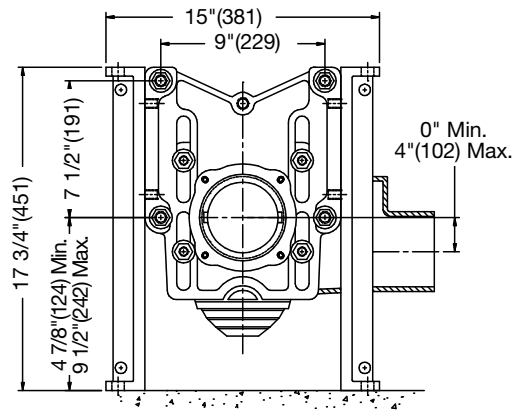
# Industry Standard Water Closet Carriers

## Water Closet Carrier Options & Parts

| Suffix        | Description                  | List Price | Suffix | Description                    | List Price |
|---------------|------------------------------|------------|--------|--------------------------------|------------|
| -3            | 3" Horizontal Fitting        | No Add     | -M11   | Tiling Frame - Single (ISCA)   | \$189.50   |
| -36           | Horizontal Long Barrel (36") | \$851.50   |        | Tiling Frame - Double (ISCA)   | 379.00     |
| -BF           | Assy. for Back Outlet Bowl   | 423.00     | -M16   | Vandal Proof Cap Nuts - Single | 212.00     |
| CA/QT-100-EXT | Auxiliary Support - Single   | 976.00     |        | Vandal Proof Cap Nuts - Double | 423.50     |
|               | Auxiliary Support - Double   | 1,949.00   | -M20   | Flush Valve Support - Single   | 142.50     |
| -CI           | 8" Cast Iron Nipple          | No Add     |        | Flush Valve Support - Double   | 286.50     |
| -HS           | Hub & Spigot Connections     | No Add     | -TAS   | Faceplate for 4" Rough-In      | No Add     |
| -M1           | 24" Nipple - Single          | 351.00     |        |                                |            |
|               | 24" Nipple - Double          | 785.00     |        |                                |            |



ISCA-101-L/R



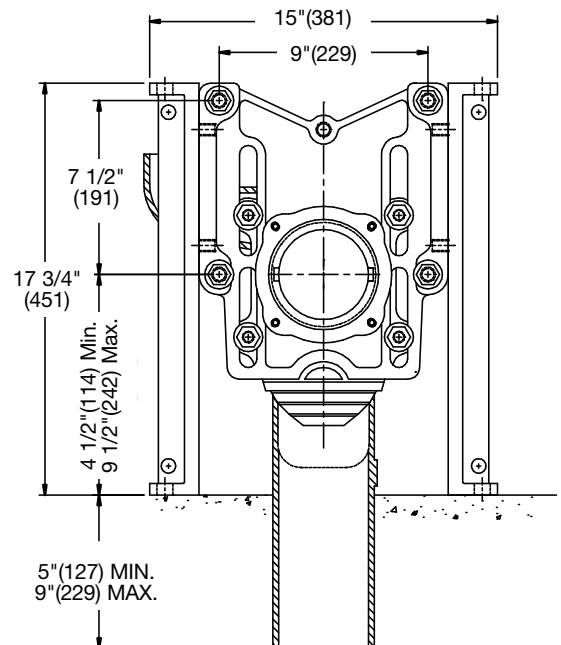
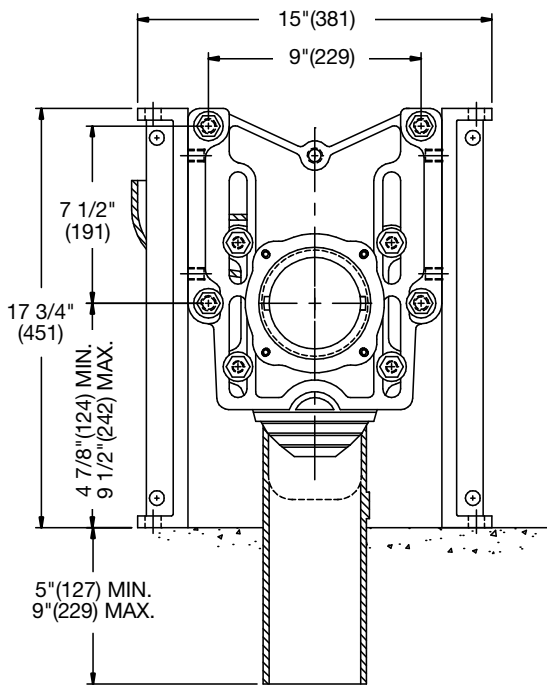
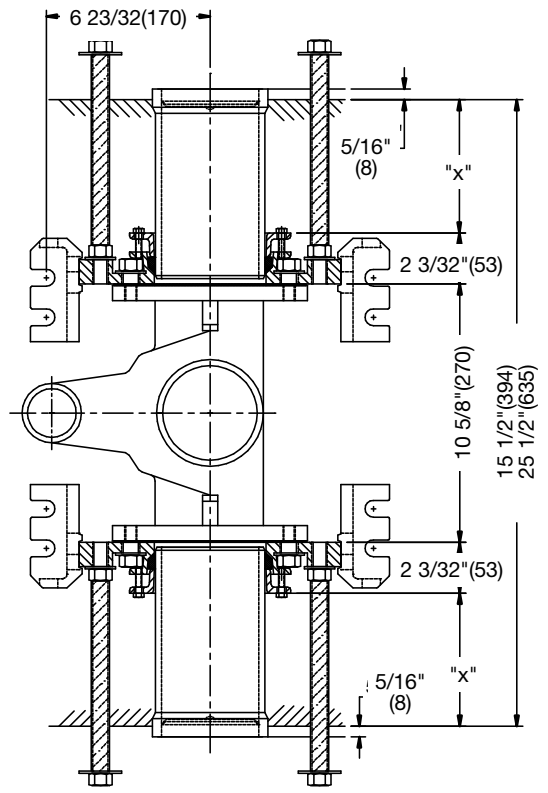
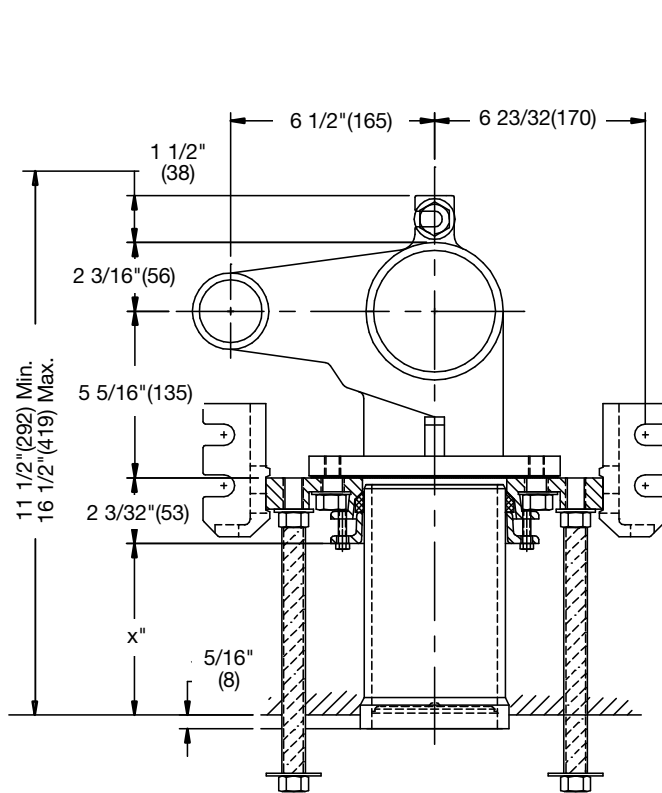
ISCA-101-D

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



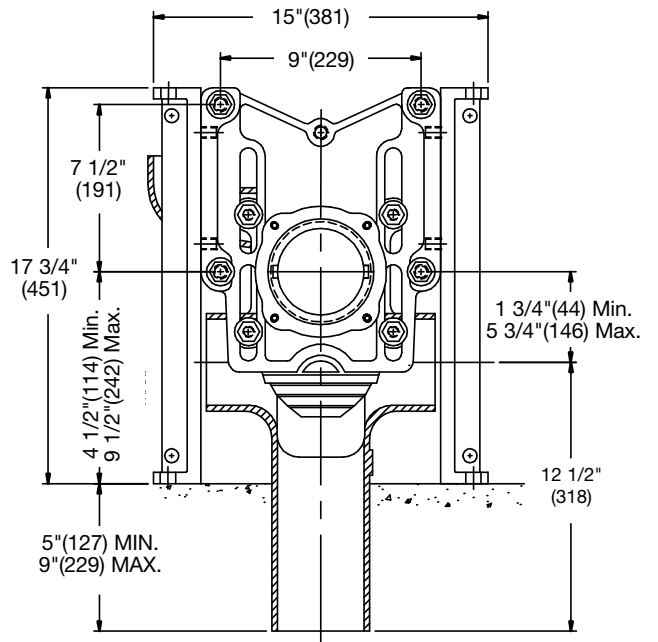
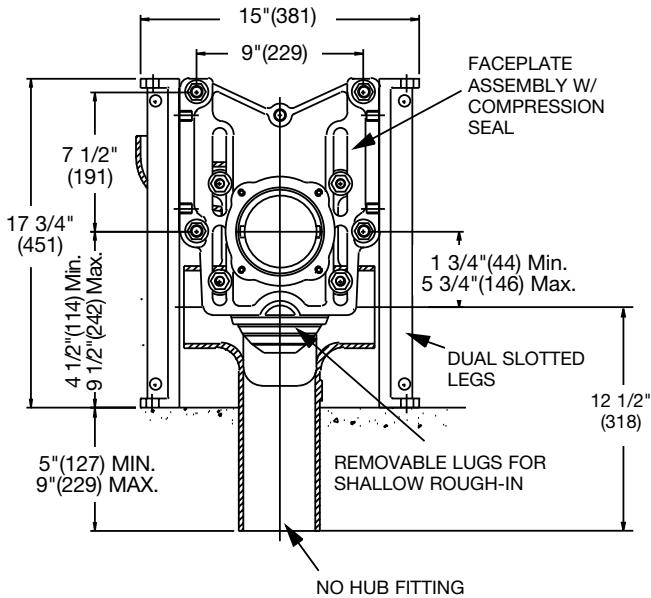
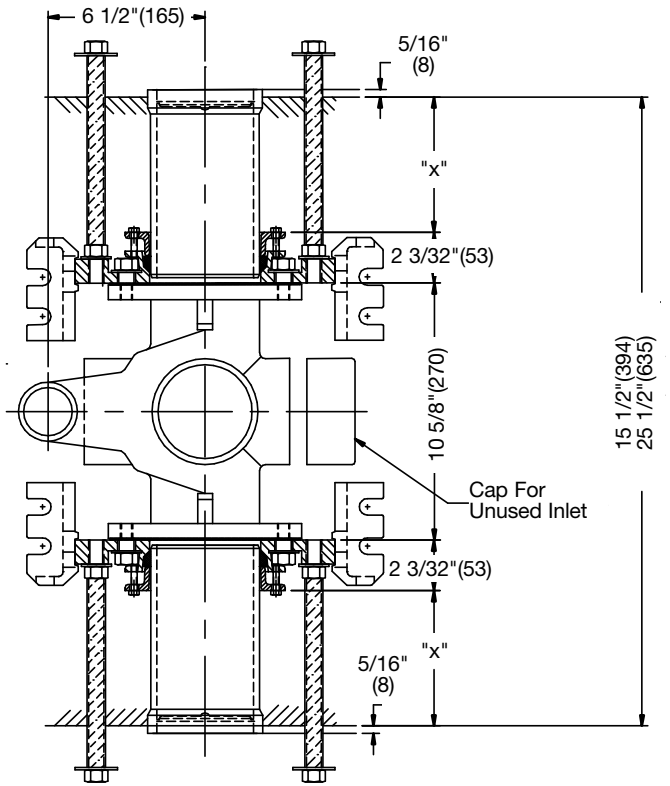
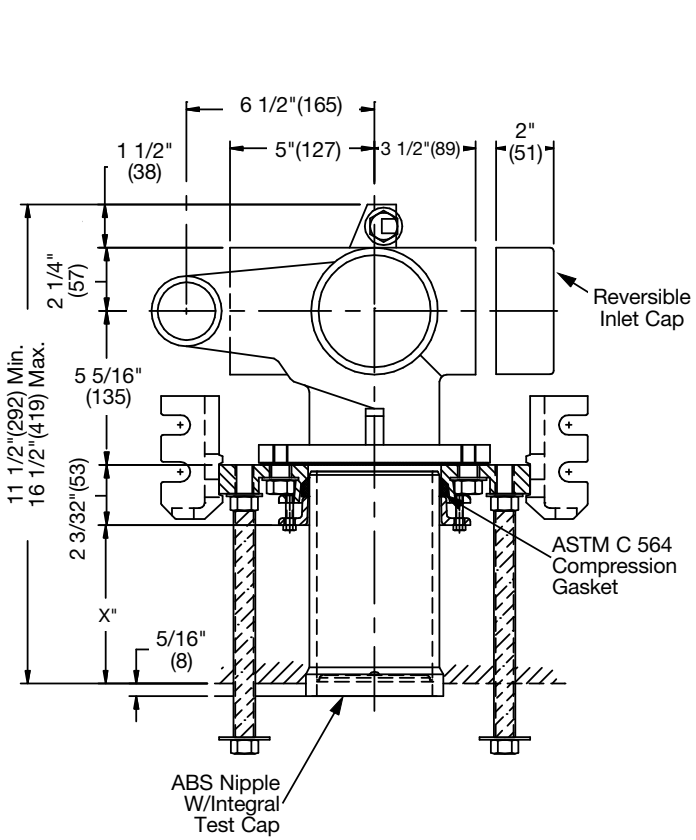
# Industry Standard Water Closet Carriers



**ISCA-121**

**ISCA-121-D**

# Industry Standard Water Closet Carriers



ISCA-131

ISCA-131-D

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.





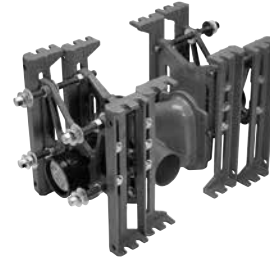
# Industry Standard Water Closet Carriers

## ISCA-102 Horizontal 1000 lb. Bariatric Closet Carrier

| Model Number | Wt. Lbs. | Description                    | List Price |
|--------------|----------|--------------------------------|------------|
| ISCA-102-L   | 108      | Single Horizontal - Left Hand  | \$2,633.28 |
| ISCA-102-R   | 108      | Single Horizontal - Right Hand | 2,633.28   |
| ISCA-102-D   | 186      | Back-to-Back Horizontal        | 4,953.05   |



ISCA-102-L/R



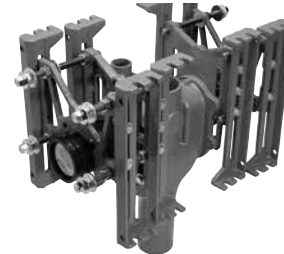
ISCA-102-D

## ISCA-122 Vertical 1000 lb. Bariatric Closet Carrier

| Model Number | Wt. Lbs. | Description           | List Price |
|--------------|----------|-----------------------|------------|
| ISCA-122     | 117      | Single Vertical       | \$2,998.31 |
| ISCA-122-D   | 195      | Back to Back Vertical | 5,779.05   |



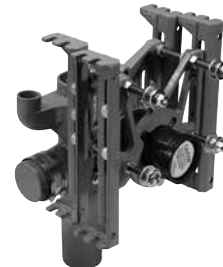
ISCA-122



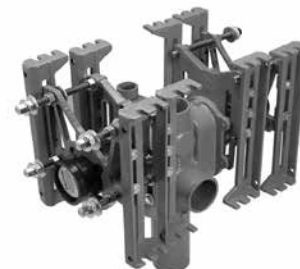
ISCA-122-D

## ISCA-132 Vertical 1000 lb. Bariatric Closet Carrier With Side Inlet(s)

| Model Number | Wt. Lbs. | Description                           | List Price |
|--------------|----------|---------------------------------------|------------|
| ISCA-132     | 121      | Single Vertical w/Side Inlet(s)       | \$3,285.29 |
| ISCA-132-D   | 199      | Back to Back Vertical w/Side Inlet(s) | 5,697.70   |



ISCA-132



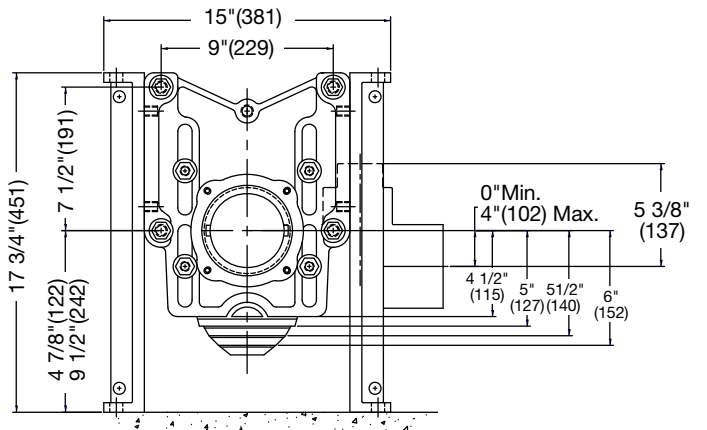
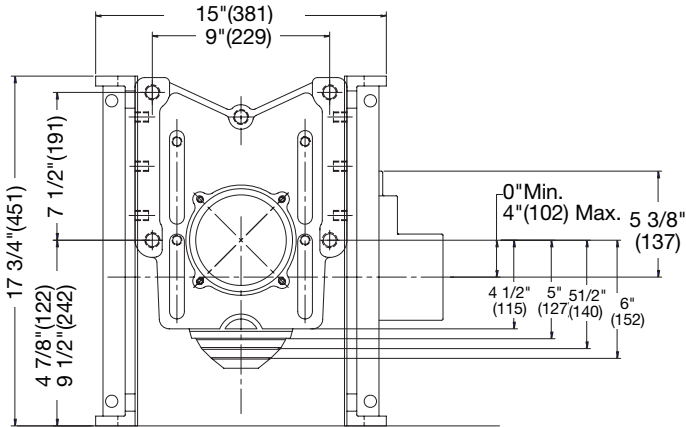
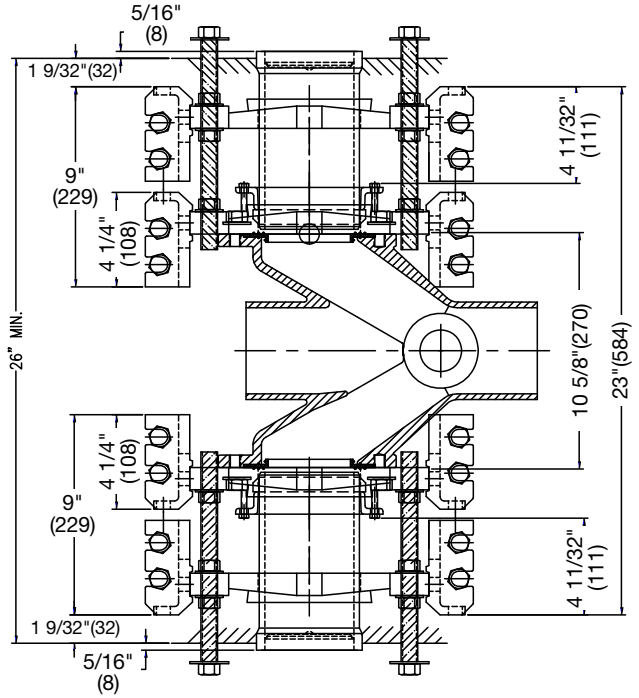
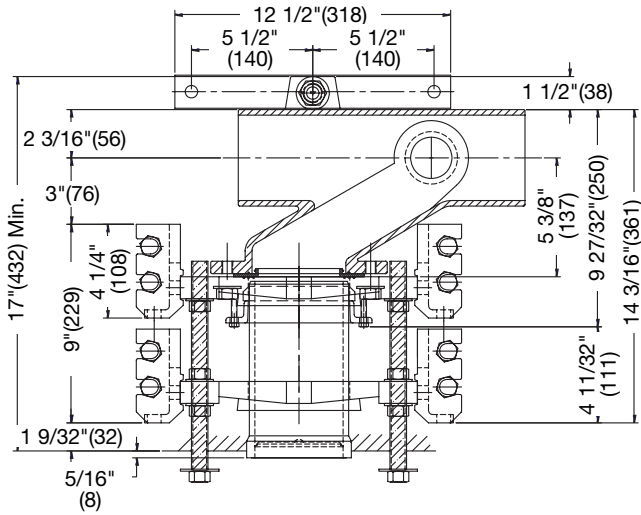
ISCA-132-D

See Pg. 235 for options & parts for all ISCA & QT models.



Consult factory for all applications outside of listed parameters. Prices do not include applicable taxes.

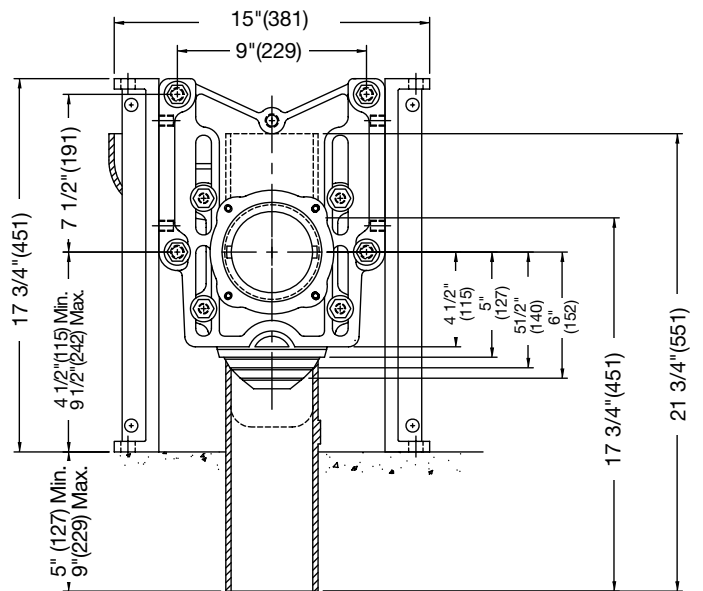
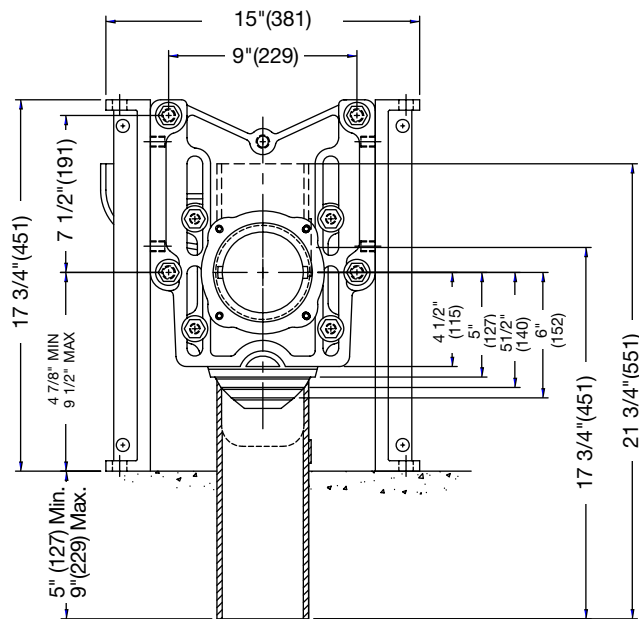
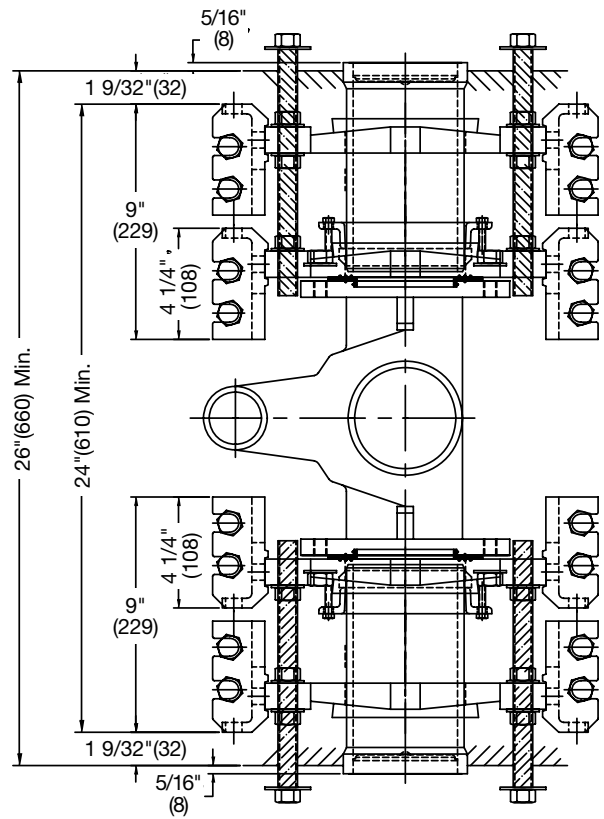
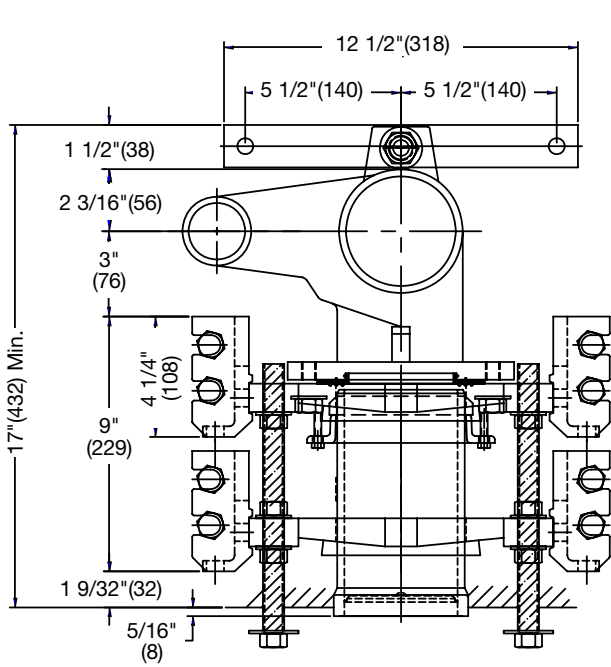
# Industry Standard Water Closet Carriers



ISCA-102-L/R

ISCA-102-D

# Industry Standard Water Closet Carriers



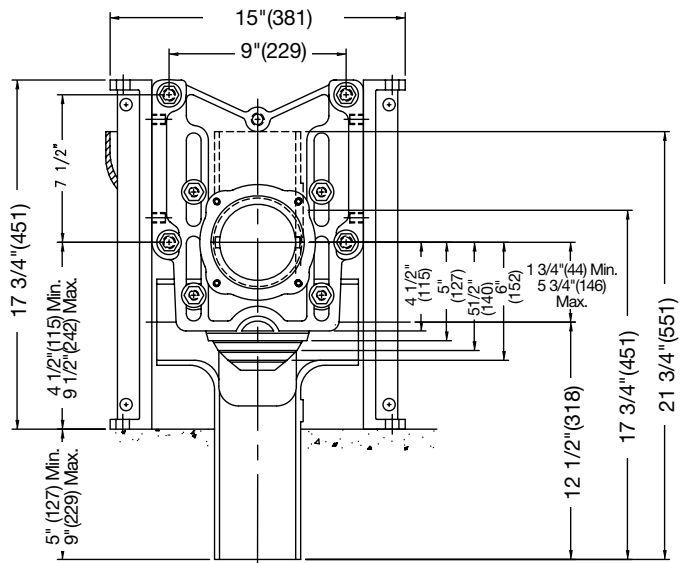
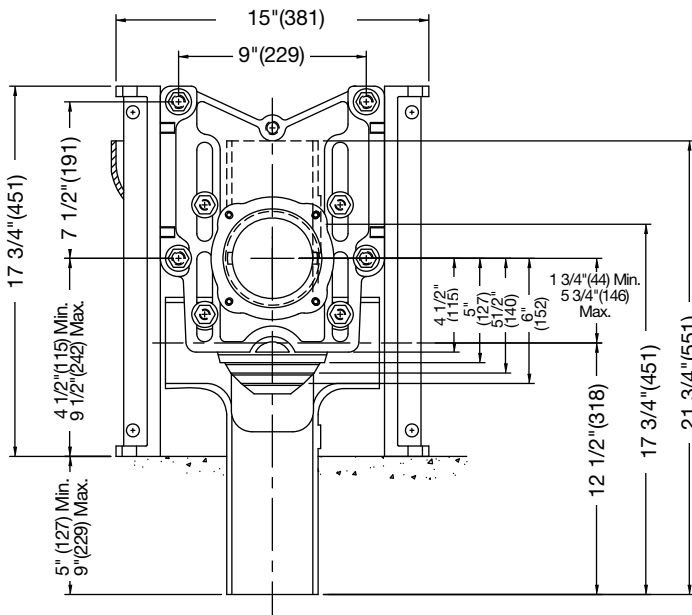
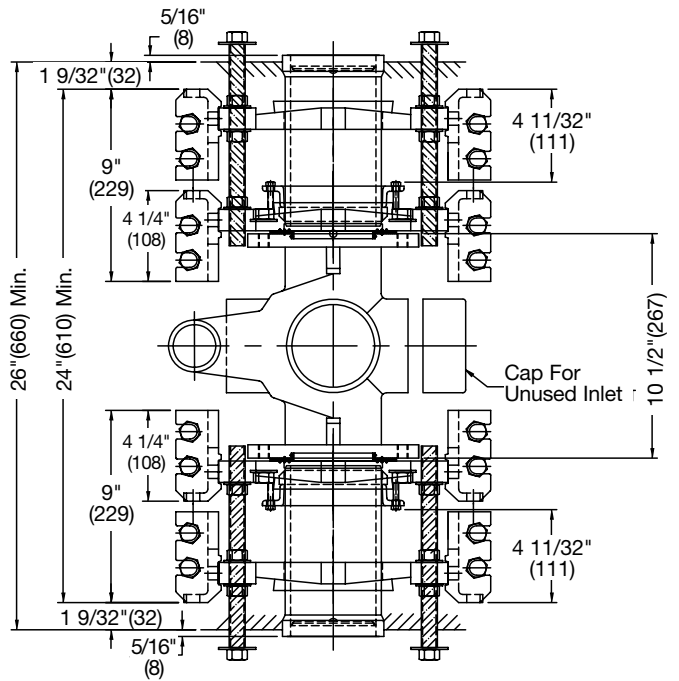
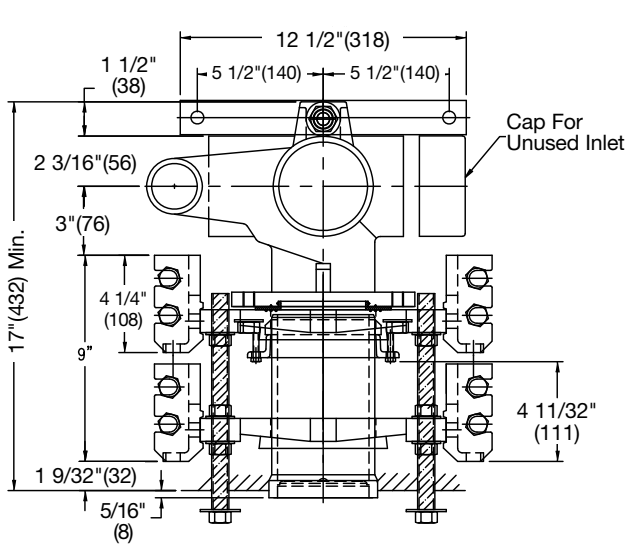
ISCA-122

ISCA-122-D



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Industry Standard Water Closet Carriers



ISCA-132

ISCA-132-D

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



# Industry Standard Water Closet Carriers

## ISCA-103 Horizontal 750 lb. Closet Carrier

| Model Number | Wt. Lbs. | Description                    | List Price |
|--------------|----------|--------------------------------|------------|
| ISCA-103-L   | 77       | Single Horizontal - Left Hand  | \$1,824.76 |
| ISCA-103-R   | 77       | Single Horizontal - Right Hand | 1,824.76   |
| ISCA-103-D   | 135      | Back-to-Back Horizontal        | 3,336.01   |



ISCA-103-L/R



ISCA-103-D

## ISCA-123 Vertical 750 lb. Bariatric Carrier

| Model Number | Wt. Lbs. | Description           | List Price |
|--------------|----------|-----------------------|------------|
| ISCA-123     | 97       | Single Vertical       | \$2,189.79 |
| ISCA-123-D   | 160      | Back-to-Back Vertical | 4,162.01   |



ISCA-123



ISCA-123-D

## ISCA-133 Vertical 750 lb. Closet Carrier With Side Inlet(s)

| Model Number | Wt. Lbs. | Description                           | List Price |
|--------------|----------|---------------------------------------|------------|
| ISCA-133     | 97       | Single Vertical w/Side Inlet(s)       | \$2,476.77 |
| ISCA-133-D   | 160      | Back-to-Back Vertical w/Side Inlet(s) | 4,080.66   |



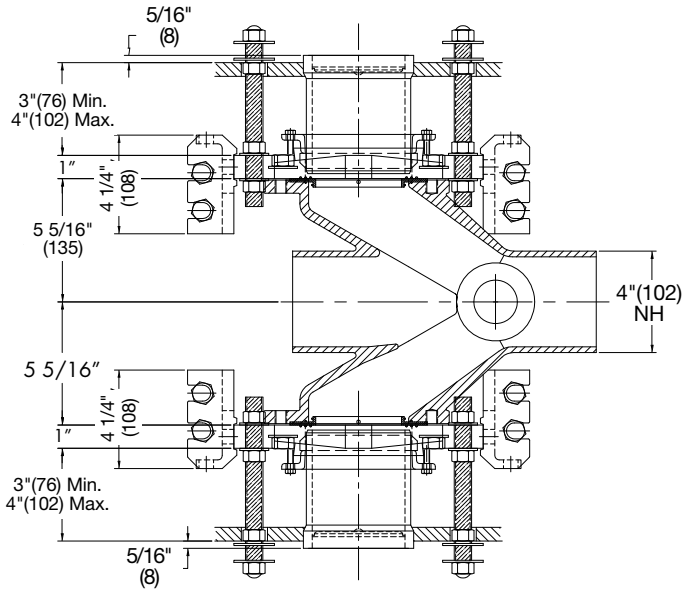
ISCA-133



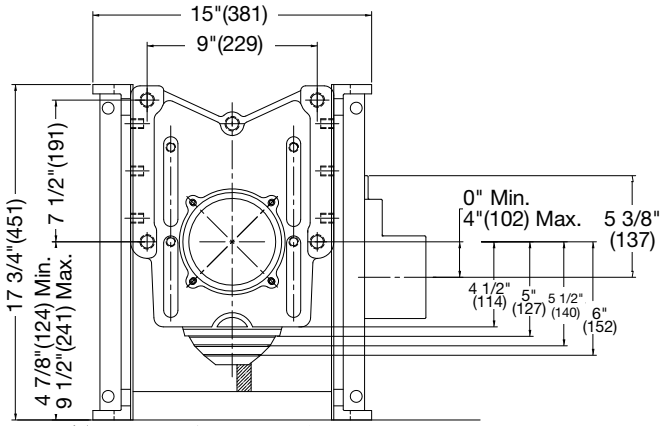
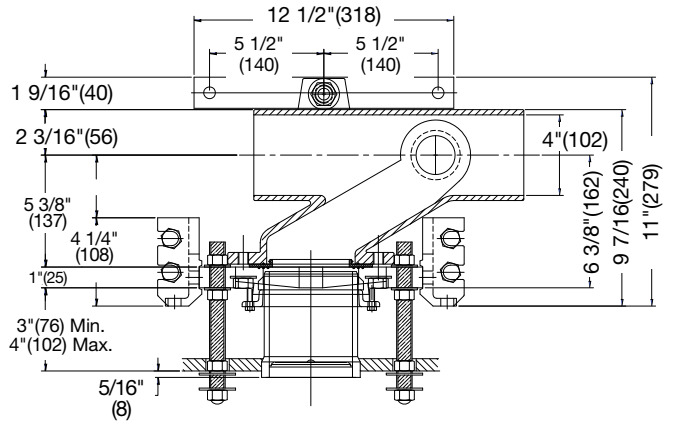
ISCA-133-D

See Pg. 235 for options & parts for all ISCA & QT models.

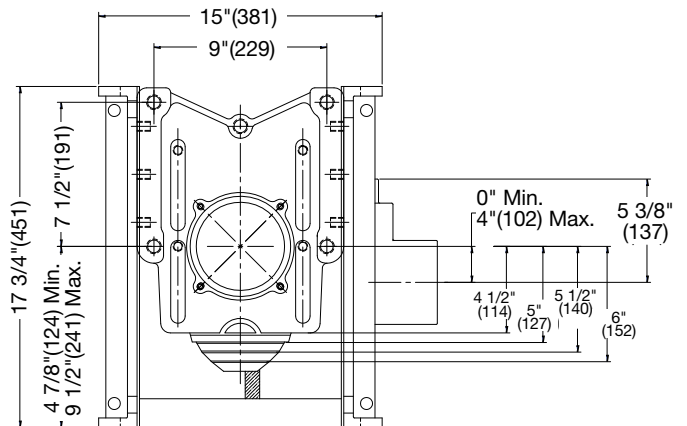
# Industry Standard Water Closet Carriers



Top View



Front View



ISCA-103-D

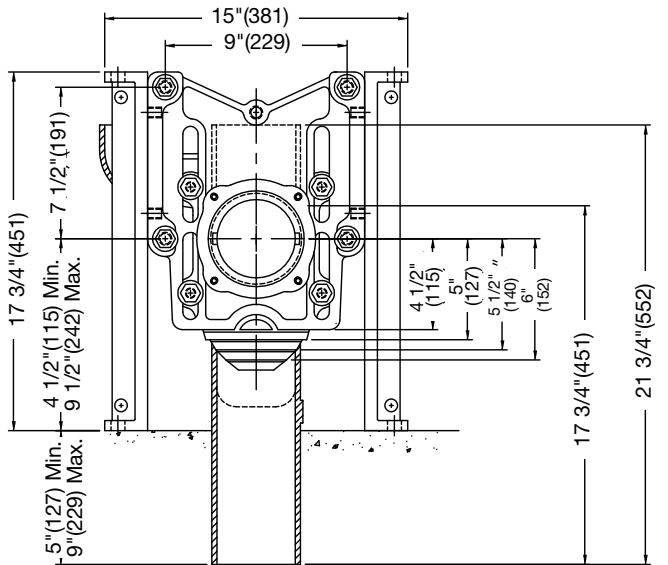
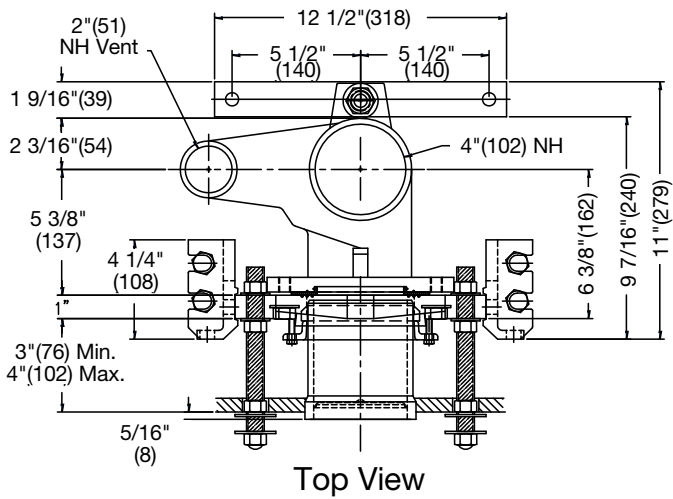
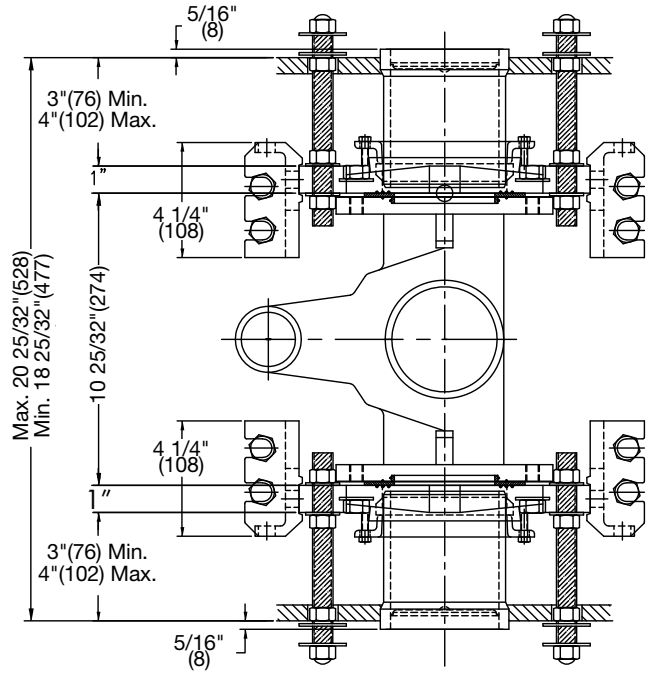
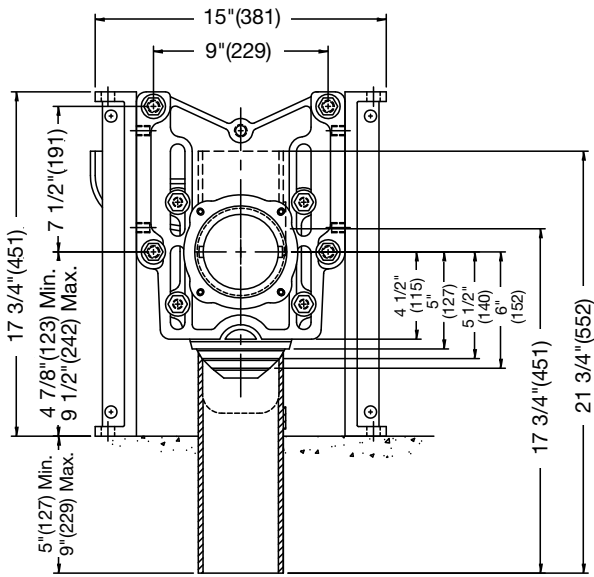
ISCA-103-L/R

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



# Industry Standard Water Closet Carriers



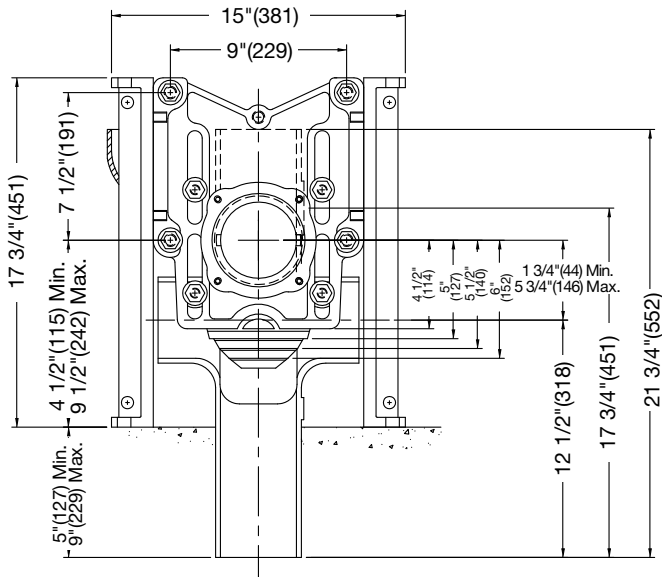
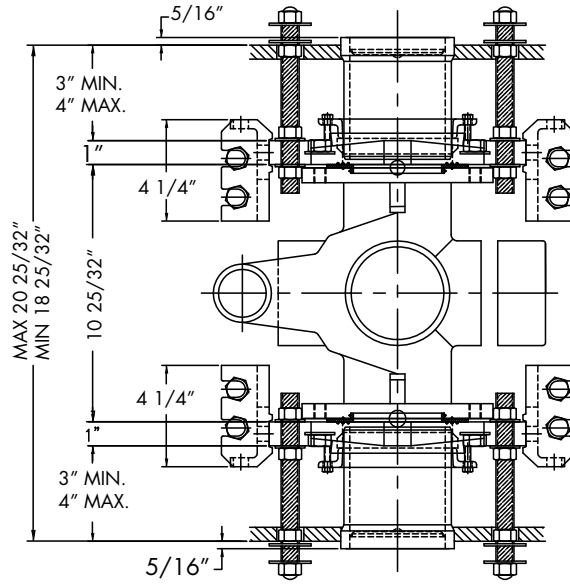
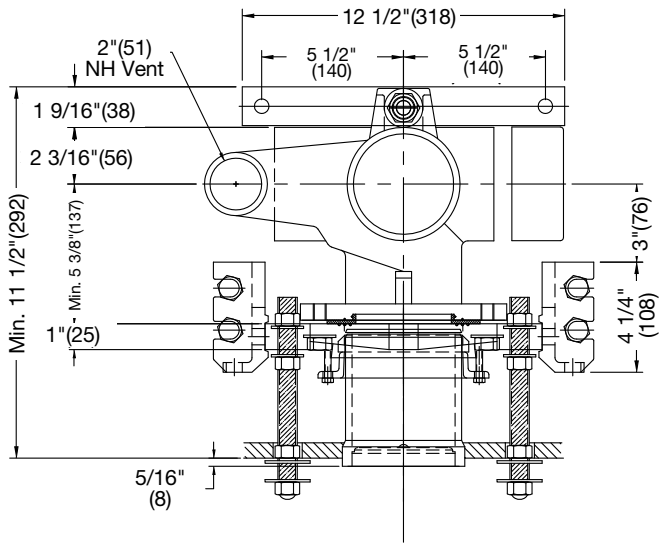
**ISCA-123**

**ISCA-123-D**

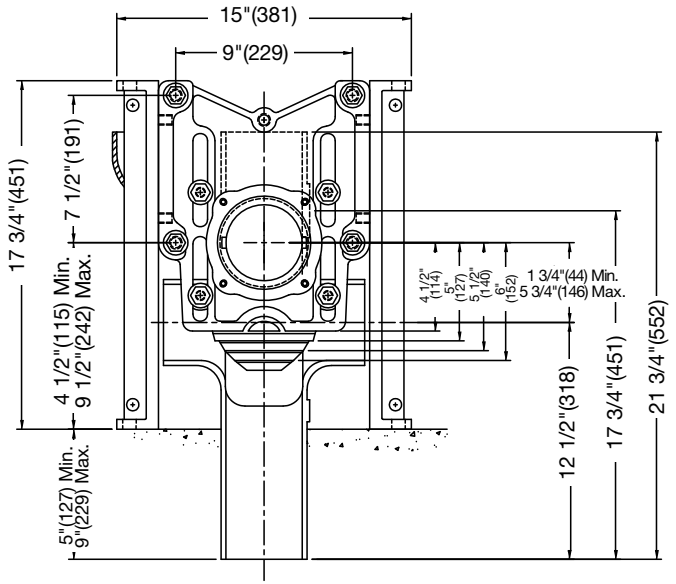


Consult factory for all applications outside of listed parameters.  
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# Industry Standard Water Closet Carriers



**ISCA-133-L/R**



**ISCA-133-D**



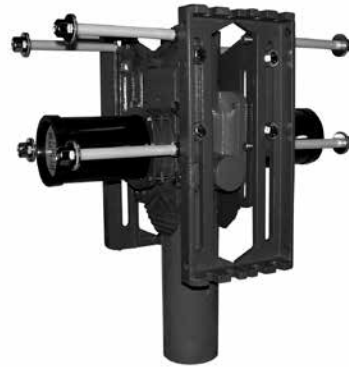
# Industry Standard Thin Wall Water Closet Carriers

## ISCA-141 Thin Wall 500 lb. Closet Carrier

| Model Number    | Wt. Lbs. | Description                     | List Price |
|-----------------|----------|---------------------------------|------------|
| ISCA-141-3      | 52       | 3" Waste, 2" Vent               | \$1,766.33 |
| ISCA-141-4-V2   | 62       | 4" Waste, 2" Vent               | 1,951.33   |
| ISCA-141-4-V4   | 62       | 4" Waste, 4" Vent               | 2,201.39   |
| ISCA-141-4-D-V2 | 94       | Back-to-Back, 4" Waste, 2" Vent | 3,551.42   |
| ISCA-141-4-D-V4 | 94       | Back-to-Back, 4" Waste, 4" Vent | 3,803.98   |



ISCA-141



ISCA-141-D

## ISCA-151 Thin Wall 500 lb. Offset Closet Carrier

| Model Number | Wt. Lbs. | Description         | List Price |
|--------------|----------|---------------------|------------|
| ISCA-151-L   | 72       | Single - Left Hand  | \$2,569.48 |
| ISCA-151-R   | 72       | Single - Right Hand | 2,569.48   |
| ISCA-151-D   | 107      | Back-to-Back        | 3,876.14   |



ISCA-151



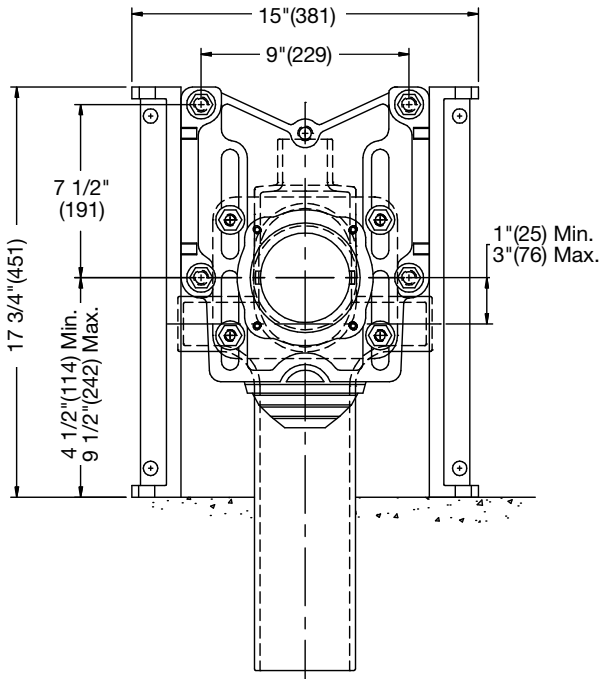
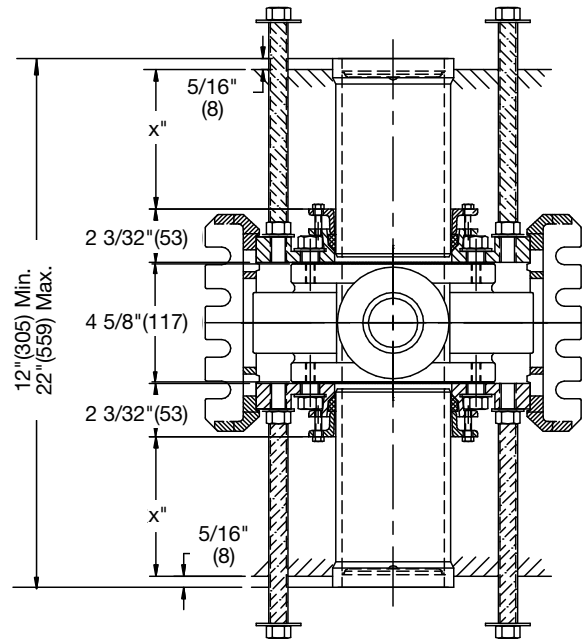
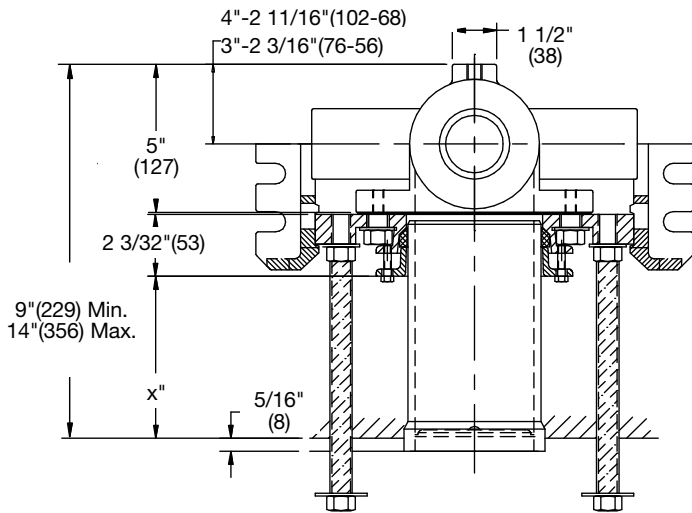
ISCA-151-D

See Pg. 235 for options & parts for all ISCA & QT models.

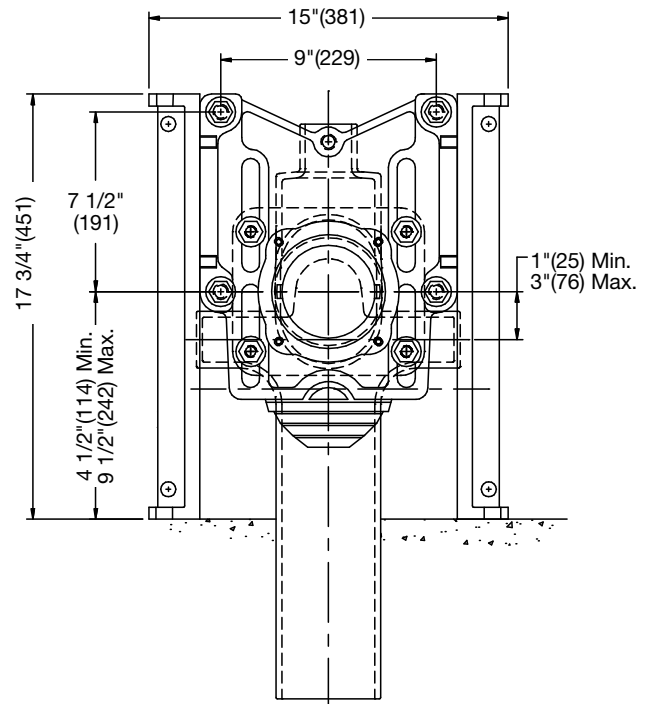


Consult factory for all applications outside of listed parameters. Prices do not include applicable taxes.

# Industry Standard Thin Wall Water Closet Carriers



**ISCA-141**



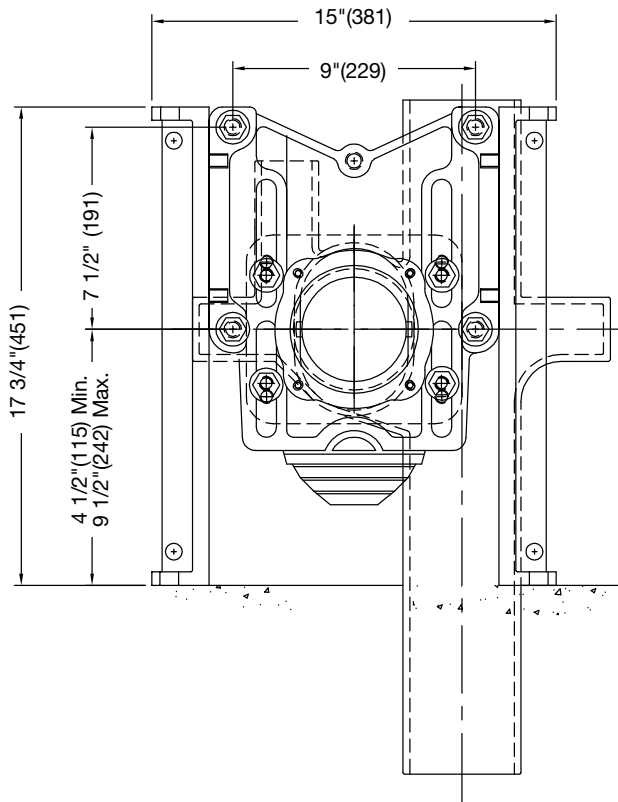
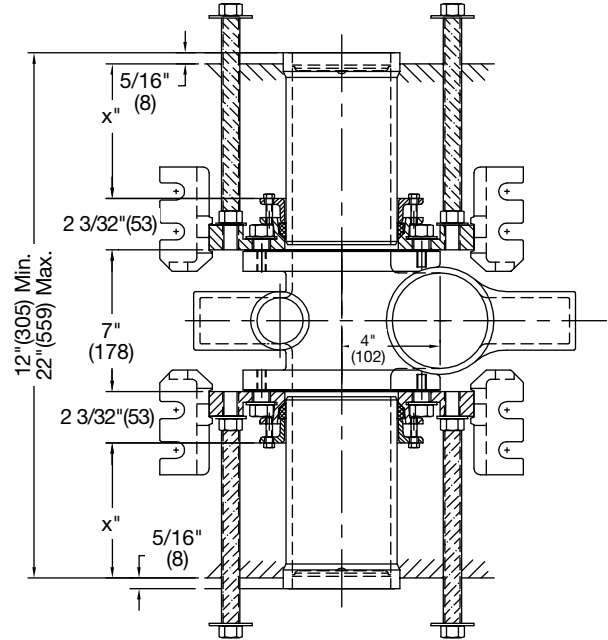
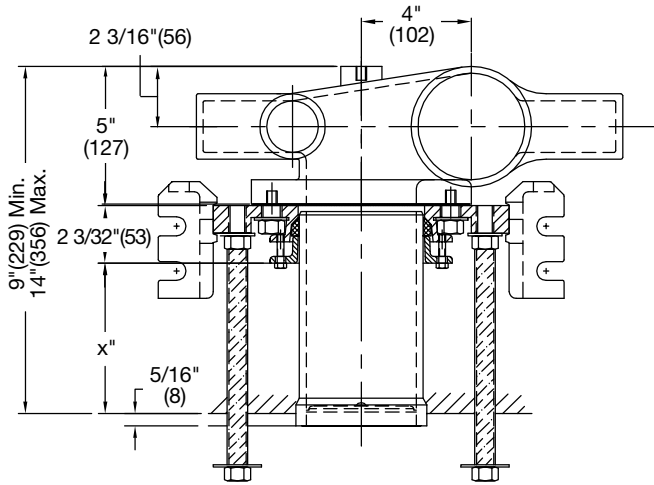
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Consult factory for all applications outside of listed parameters.

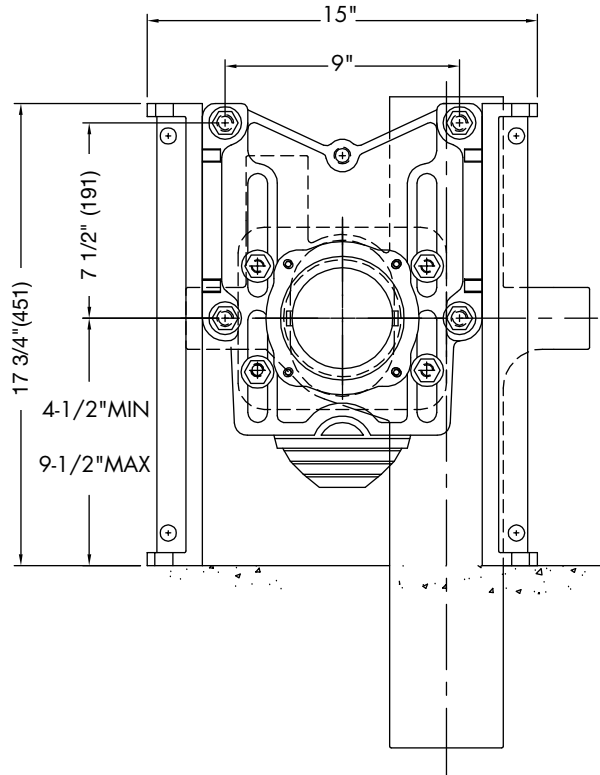
Prices do not include applicable taxes.



# Industry Standard Thin Wall Water Closet Carriers



**ISCA-151**



**ISCA-151-D**



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# QT QuickTurn™ Water Closet Carriers

## QT-101 Horizontal Adjustable 500 lb. Closet Carrier

| Model Number | Wt. Lbs. | Description                           | List Price |
|--------------|----------|---------------------------------------|------------|
| QT-101-L     | 66       | Single Horizontal - Left Hand         | \$1,979.25 |
| QT-101-R     | 66       | Single Horizontal - Right Hand        | 1,979.25   |
| QT-101-L-AUX | 67       | Single Horizontal - LH - 2" Aux Conn. | 2,118.83   |
| QT-101-R-AUX | 67       | Single Horizontal - RH - 2" Aux Conn. | 2,091.57   |
| QT-101-D     | 122      | Back-to-Back Horizontal               | 2,944.12   |



QT-101-L



QT-101-D

## QT-121 Vertical Adjustable 500 lb. Closet Carrier

| Model Number | Wt. Lbs. | Description           | List Price |
|--------------|----------|-----------------------|------------|
| QT-121       | 81       | Single Vertical       | \$2,344.28 |
| QT-121-D     | 132      | Back-to-Back Vertical | 4,470.99   |



QT-121



QT-121-D

## QT-131 Vertical Adjustable 500 lb. Closet Carrier with Side Inlet(s)

| Model Number | Wt. Lbs. | Description                             | List Price |
|--------------|----------|---|------------|
| QT-131       | 82       | Single Vertical - w/Side Inlet(s)       | \$2,631.26 |
| QT-131-D     | 138      | Back to Back Vertical - w/Side Inlet(s) | 4,389.64   |



QT-131



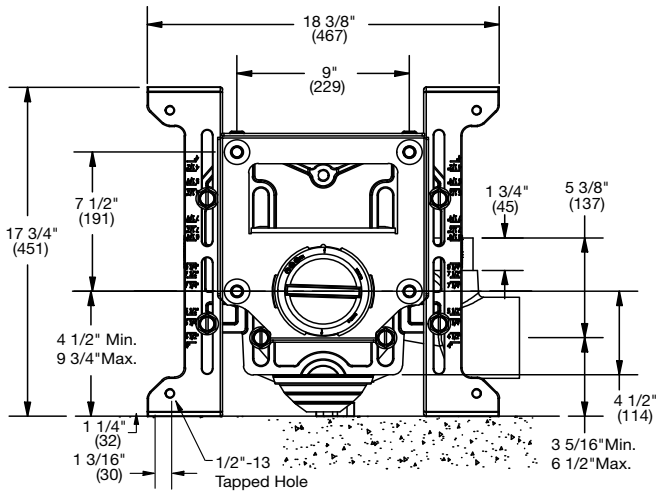
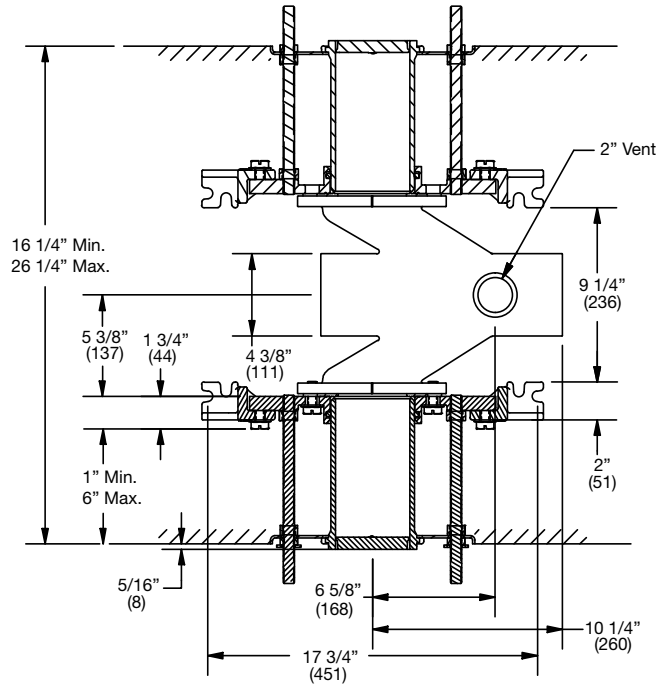
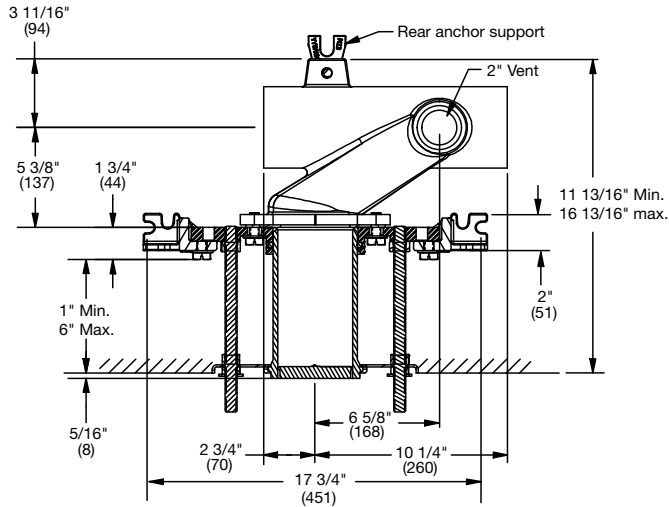
QT-131-D

See Pg. 235 for options & parts for all ISCA & QT models.

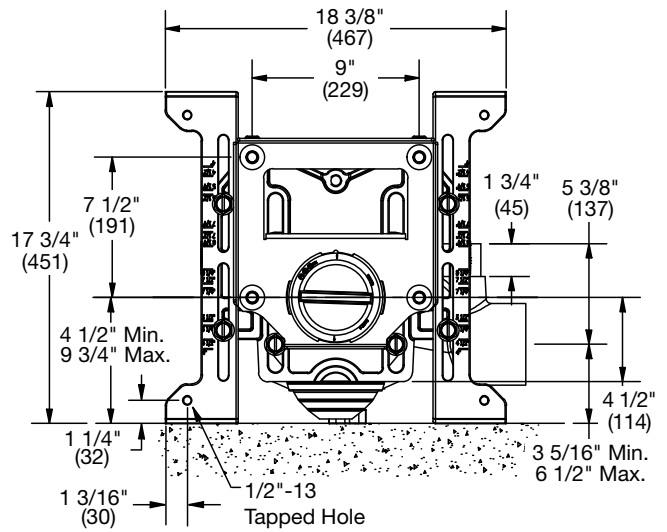
Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.



# QT QuickTurn™ Water Closet Carriers



**QT-101-L/R**

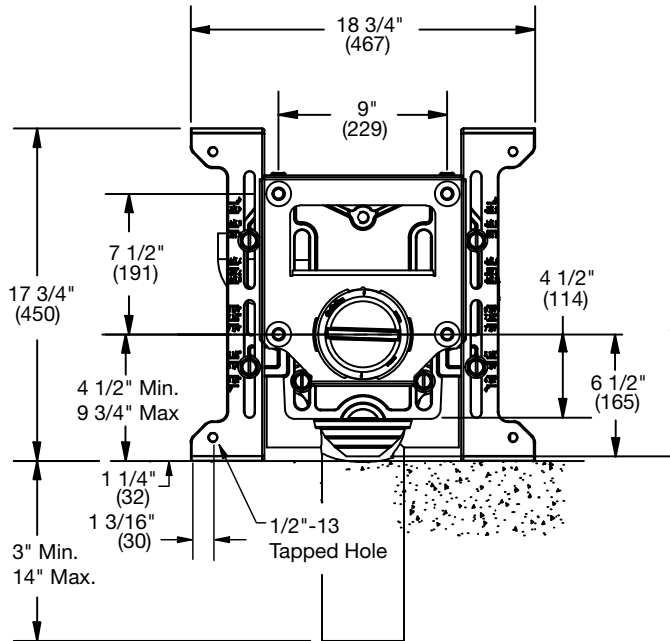
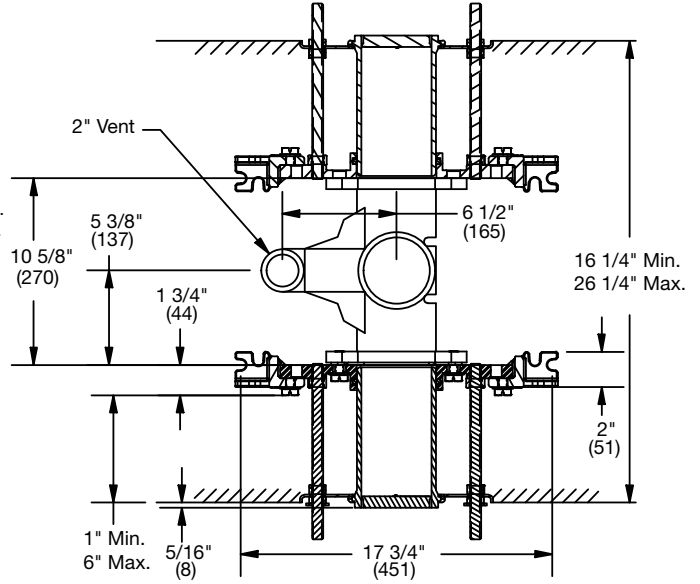
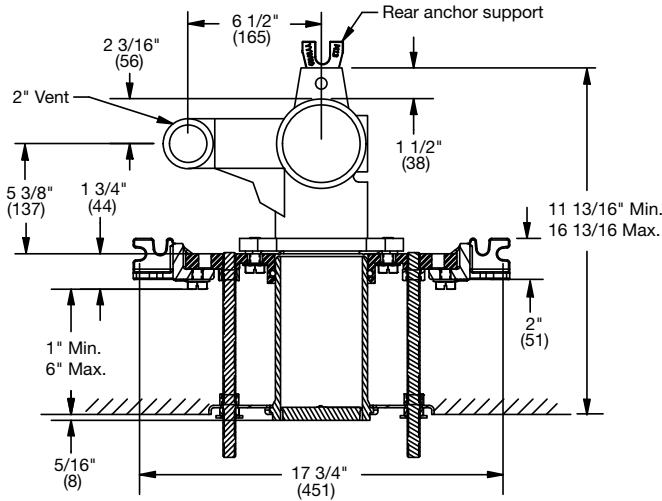


**QT-101-D**

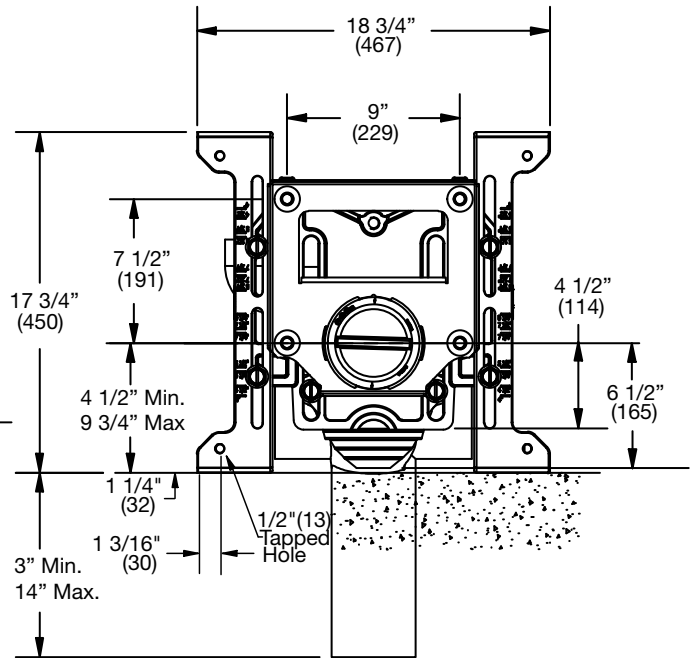


Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# QT QuickTurn™ Water Closet Carriers



QT-121



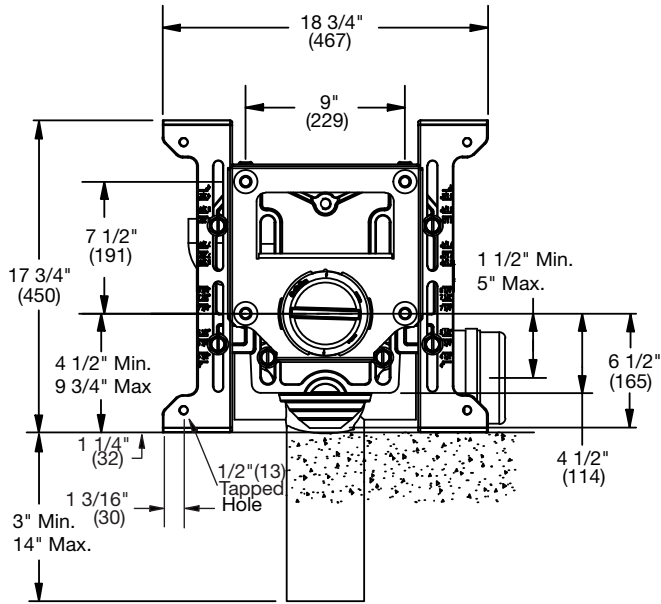
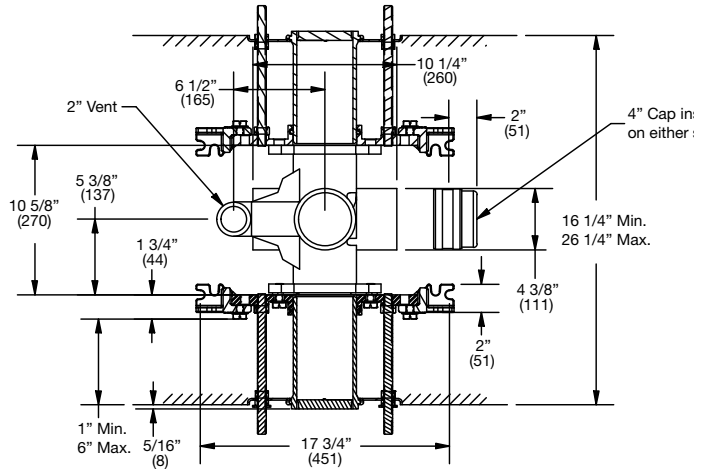
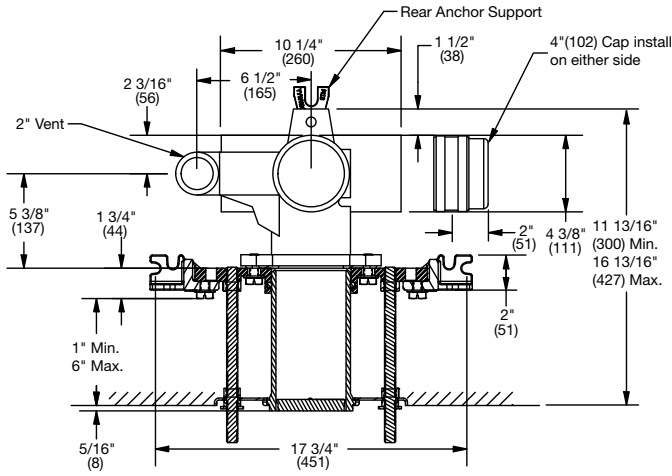
QT-121-D

Consult factory for all applications outside of listed parameters.

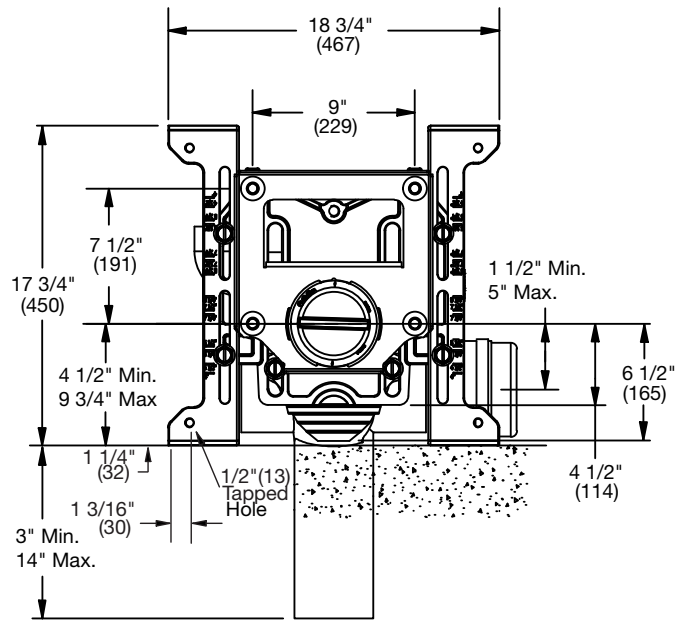
Prices do not include applicable taxes.



# QT QuickTurn™ Water Closet Carriers



QT-131



QT-131-D



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# QT QuickTurn™ Water Closet Carriers

## QT-102

### Horizontal Adjustable 1000 lb. Bariatric Closet Carrier

| Model Number | Wt. Lbs. | Description                    | List Price |
|--------------|----------|--------------------------------|------------|
| QT-102-L     | 104      | Single Horizontal - Left Hand  | \$4,955.59 |
| QT-102-R     | 104      | Single Horizontal - Right Hand | 4,955.59   |
| QT-102-D     | 198      | Back-to-Back Horizontal        | 9,597.67   |



QT-102-L



QT-102-D

## QT-122

### Vertical Adjustable 1000 lb. Bariatric Closet Carrier

| Model Number | Wt. Lbs. | Description           | List Price |
|--------------|----------|-----------------------|------------|
| QT-122       | 119      | Single Vertical       | \$5,320.62 |
| QT-122-D     | 208      | Back-to-Back Vertical | 10,423.67  |



QT-122



QT-122-D

## QT-132

### Vertical Adjustable 1000 lb. Bariatric Closet Carrier with Side Inlet(s)

| Model Number | Wt. Lbs. | Description                           | List Price |
|--------------|----------|---------------------------------------|------------|
| QT-132       | 120      | Single Vertical w/Side Inlet(s)       | \$5,607.60 |
| QT-132-D     | 214      | Back-to-Back Vertical w/Side Inlet(s) | 10,342.32  |



QT-132



QT-132-D

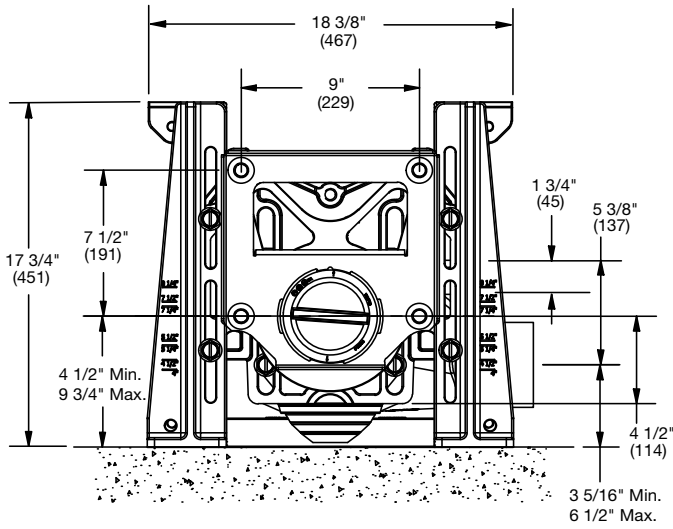
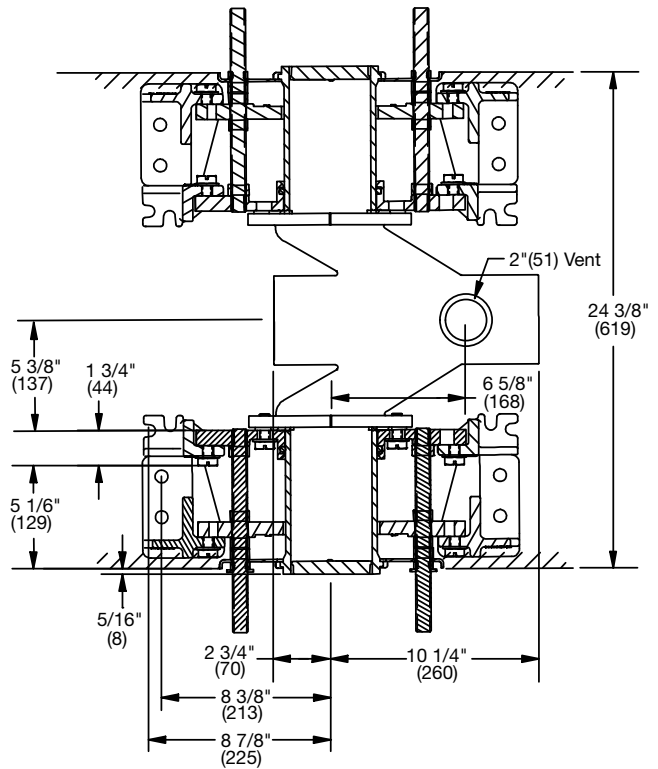
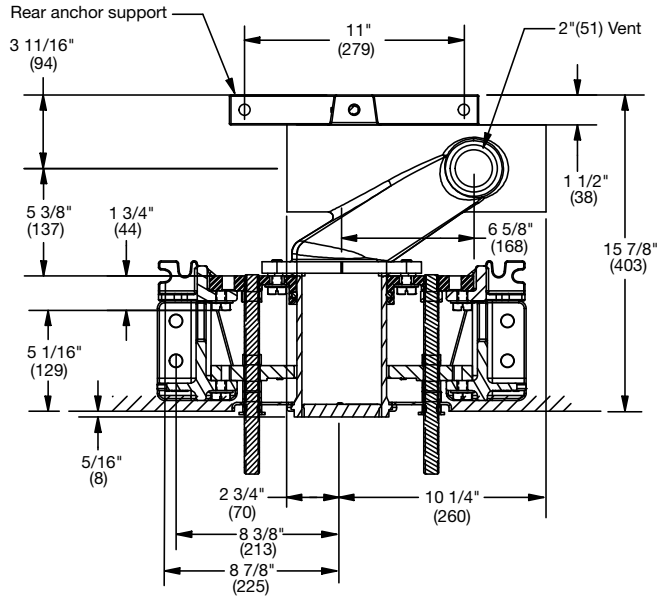
See Pg. 235 for options & parts for all ISCA & QT models.

Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

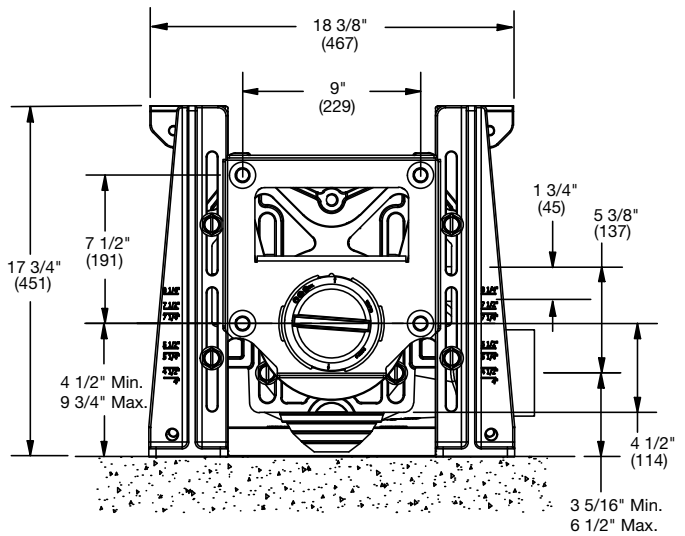




# QT QuickTurn™ Water Closet Carriers



**QT-102-LR**

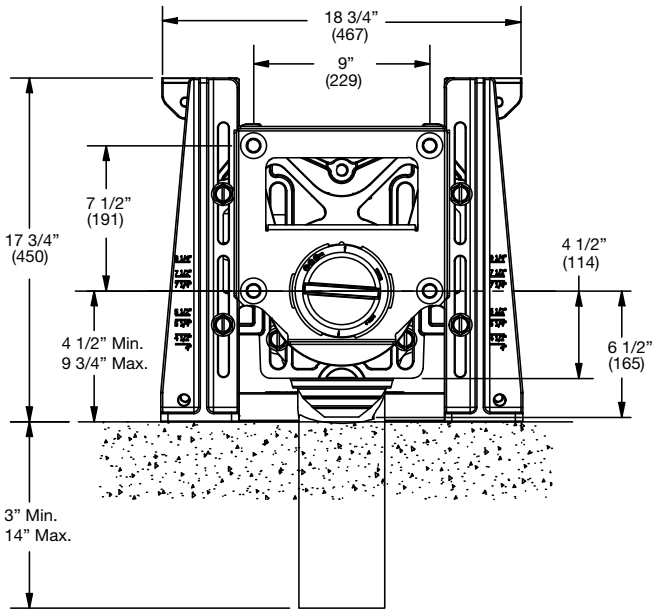
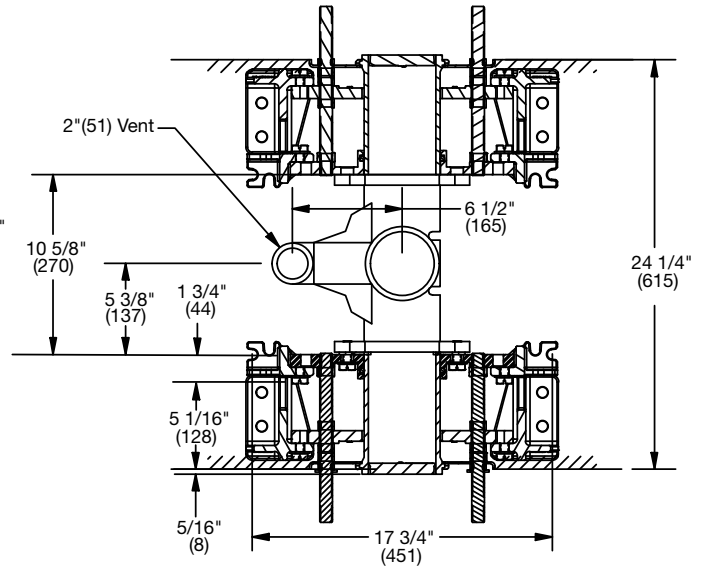
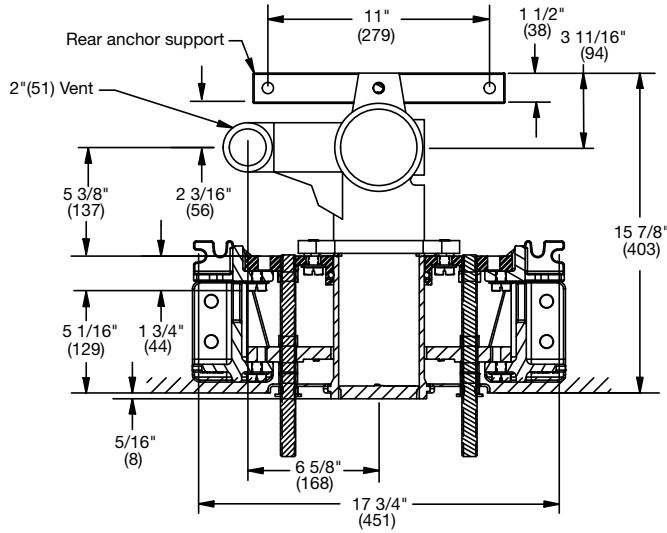


**QT-102-D**

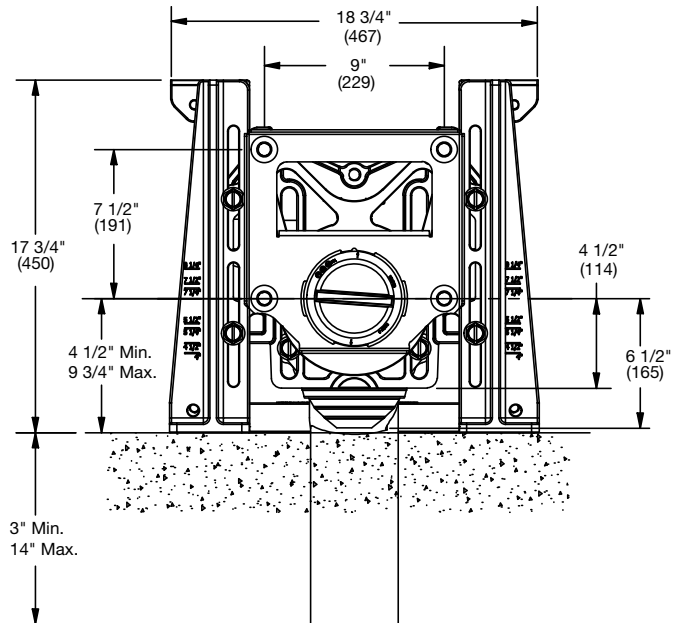


Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# QT QuickTurn™ Water Closet Carriers



QT-122



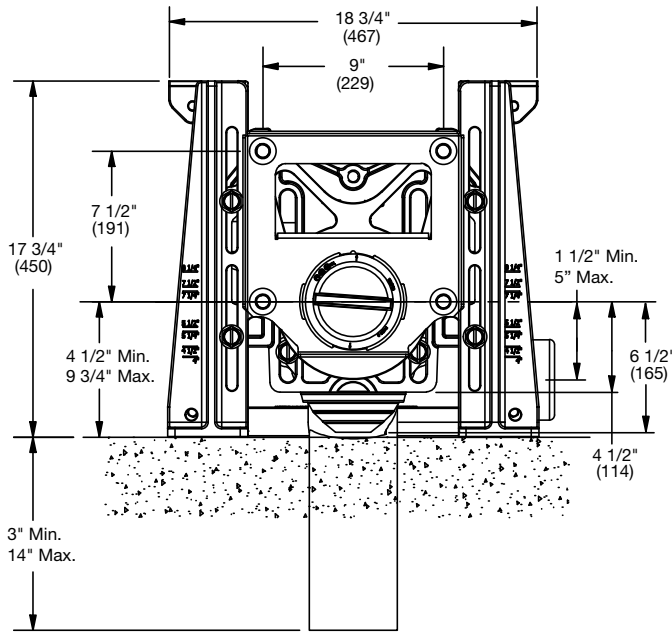
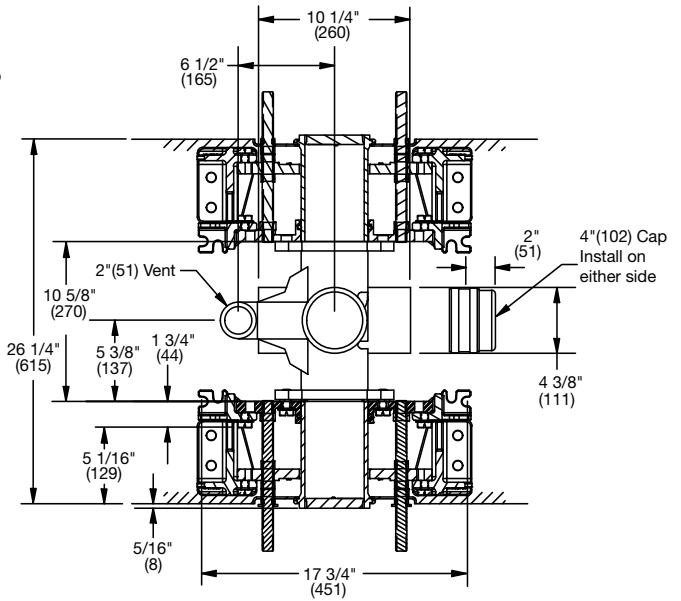
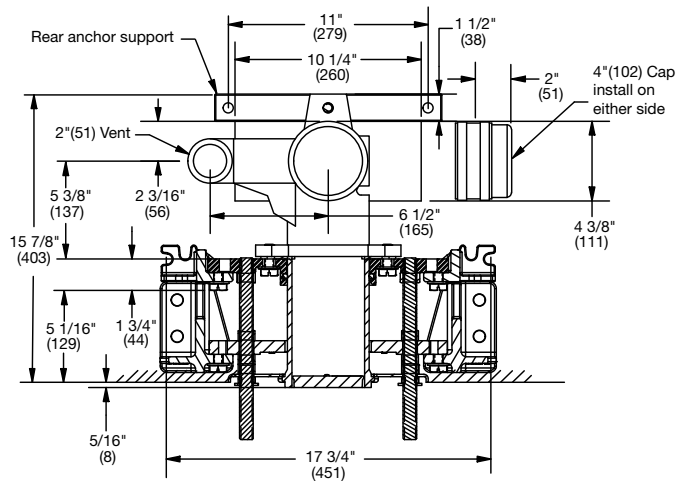
QT-122-D

Consult factory for all applications outside of listed parameters.

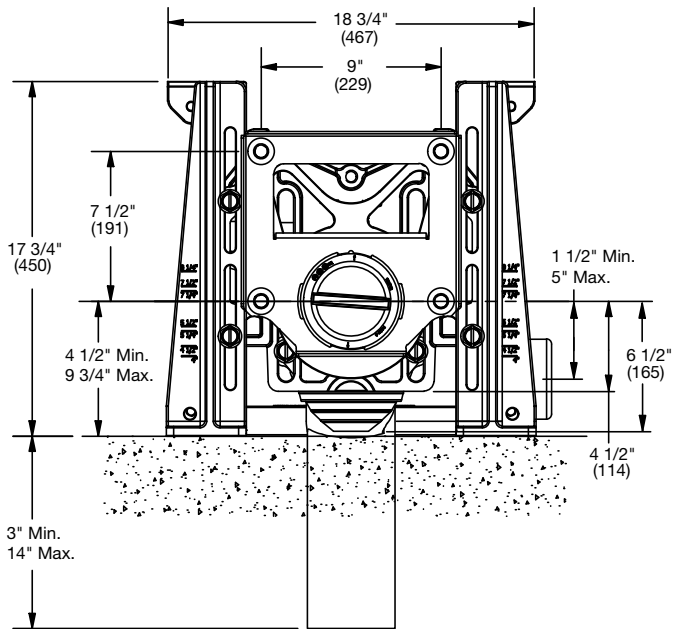
Prices do not include applicable taxes.



# QT QuickTurn™ Water Closet Carriers



QT-132



QT-132-D



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# QT QuickTurn™ Water Closet Carriers

## QT-103 Horizontal Adjustable 750 lb. Closet Carrier

| Model Number | Wt. Lbs. | Description                    | List Price |
|--------------|----------|--------------------------------|------------|
| QT-103-L     | 81       | Single Horizontal - Right Hand | \$2,165.32 |
| QT-103-R     | 81       | Single Horizontal - Left Hand  | 2,165.32   |
| QT-103-D     | 152      | Back-to-Back Horizontal.       | 4,017.13   |



QT-103-L



QT-103-D

## QT-123 Vertical Adjustable 750 lb. Closet Carrier

| Model Number | Wt. Lbs. | Description           | List Price |
|--------------|----------|-----------------------|------------|
| QT-123       | 96       | Single Vertical       | \$2,530.35 |
| QT-123-D     | 162      | Back-to-Back Vertical | 4,843.13   |



QT-123



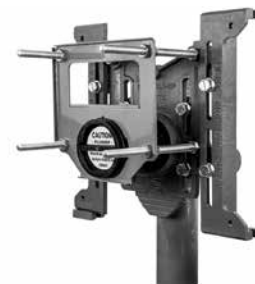
QT-123-D

## QT-133 Vertical Adjustable 750 lb. Closet Carrier with Side Inlet(s)

| Model Number | Wt. Lbs. | Description                             | List Price |
|--------------|----------|---|------------|
| QT-133       | 97       | Single Vertical - w/Side Inlet(s)       | \$2,817.33 |
| QT-133-D     | 168      | Back to Back Vertical - w/Side Inlet(s) | 4,761.78   |



QT-133



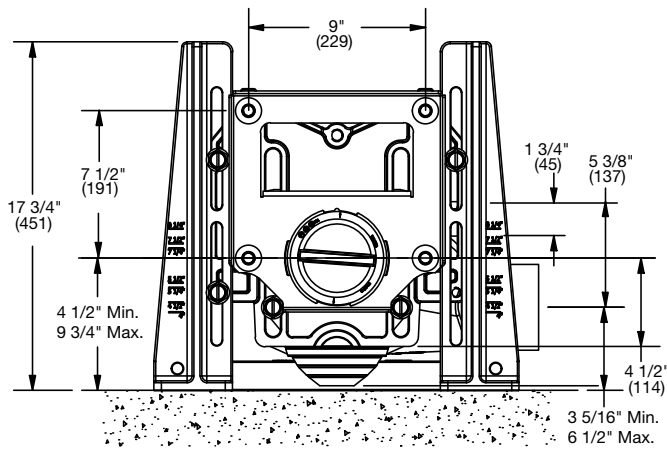
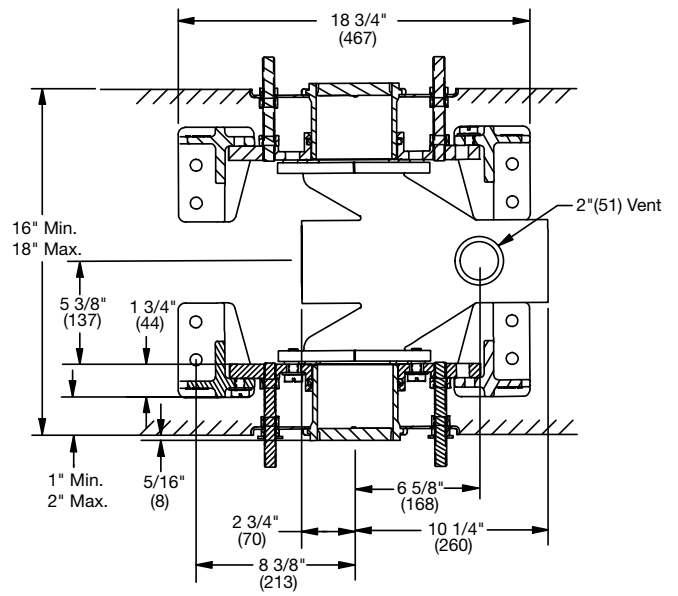
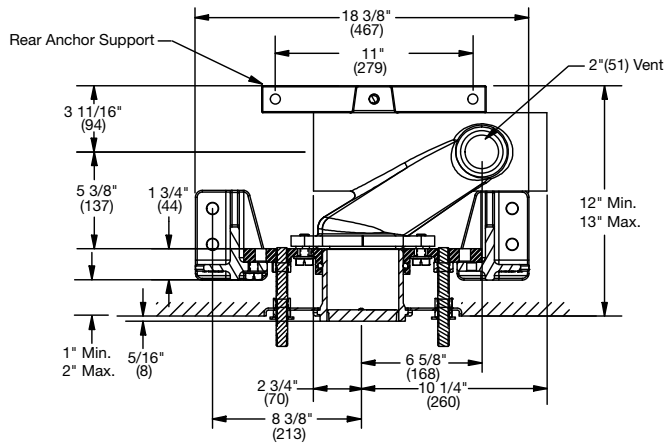
QT-133-D

See Pg. 235 for options & parts for all ISCA & QT models.

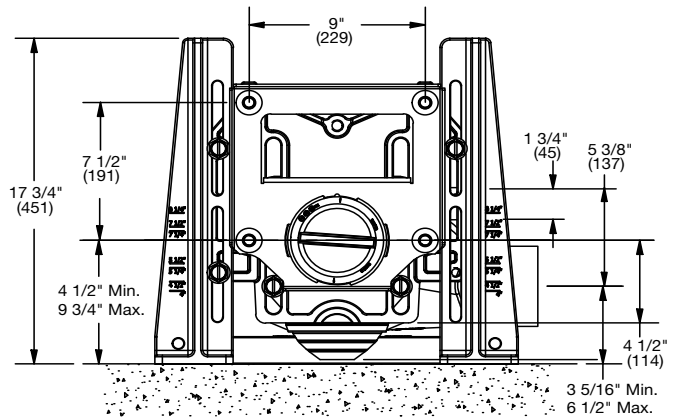
Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.



# QT QuickTurn™ Water Closet Carriers



**QT-103-L/R**

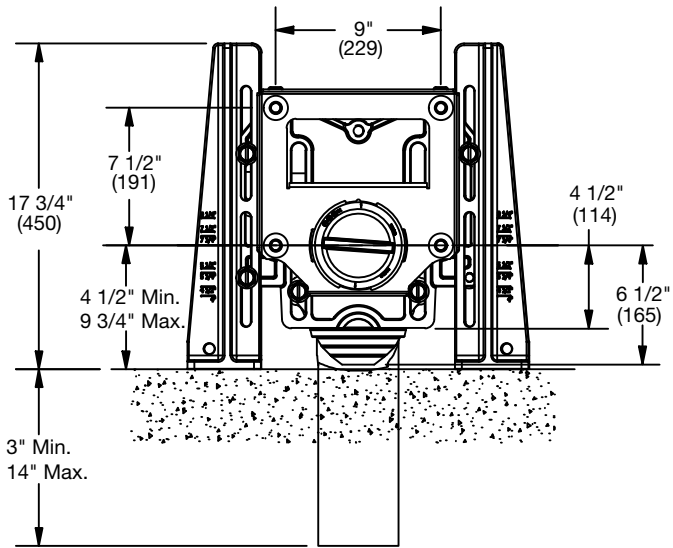
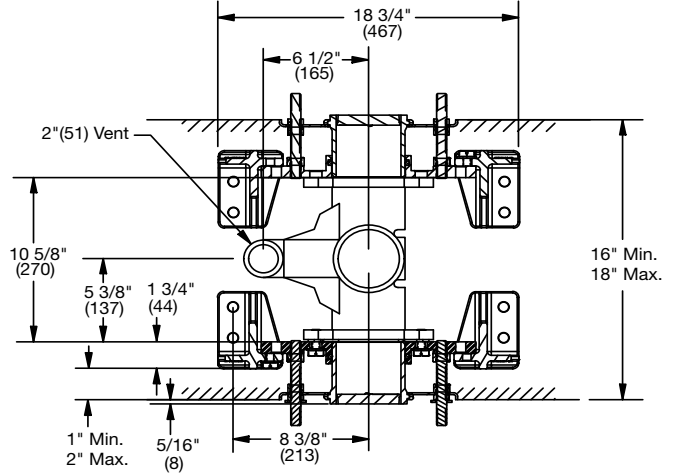
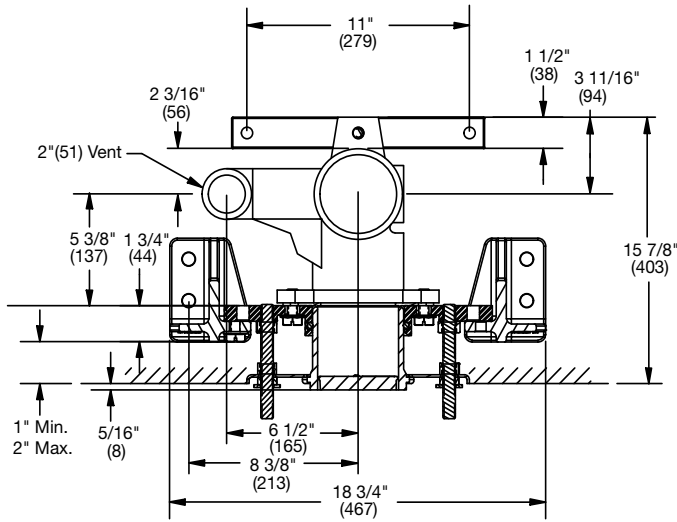


**QT-103-D**

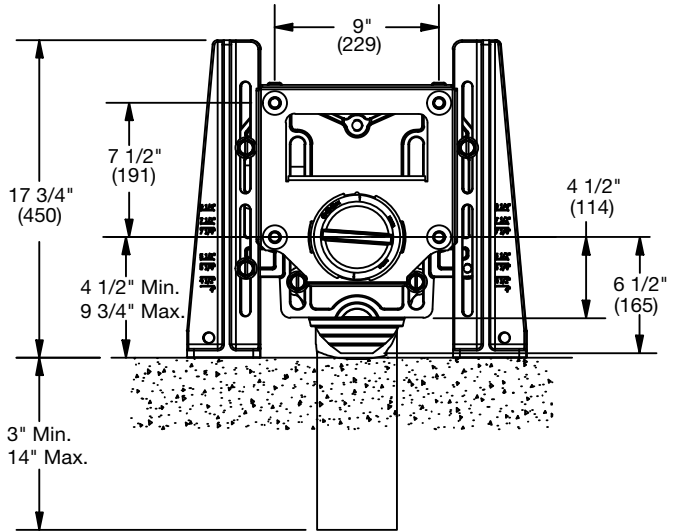


Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# QT QuickTurn™ Water Closet Carriers



QT-123



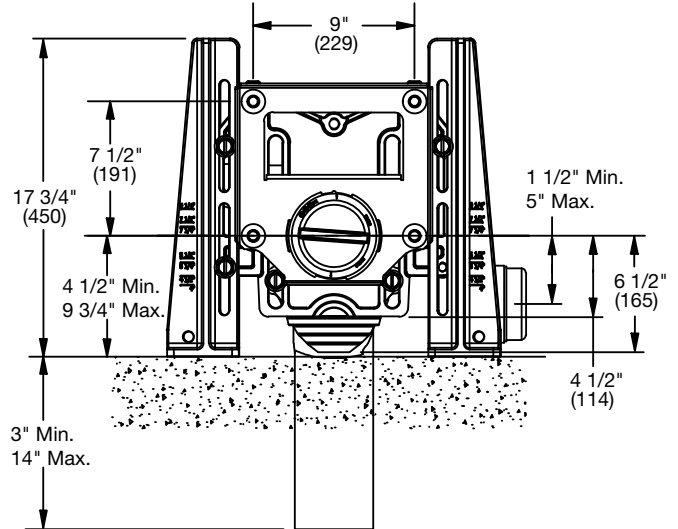
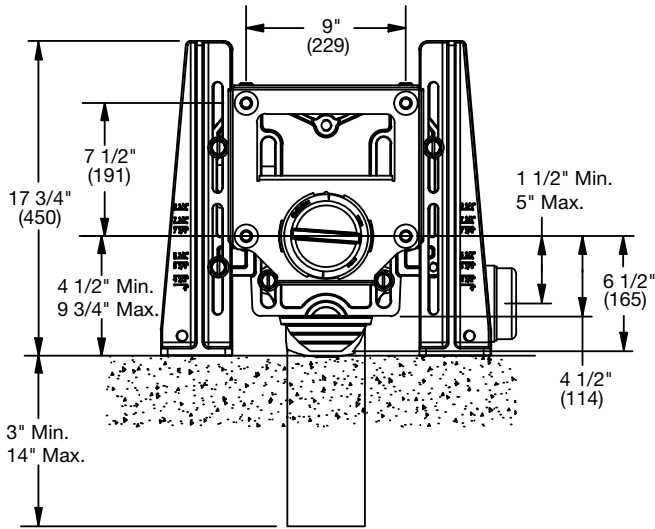
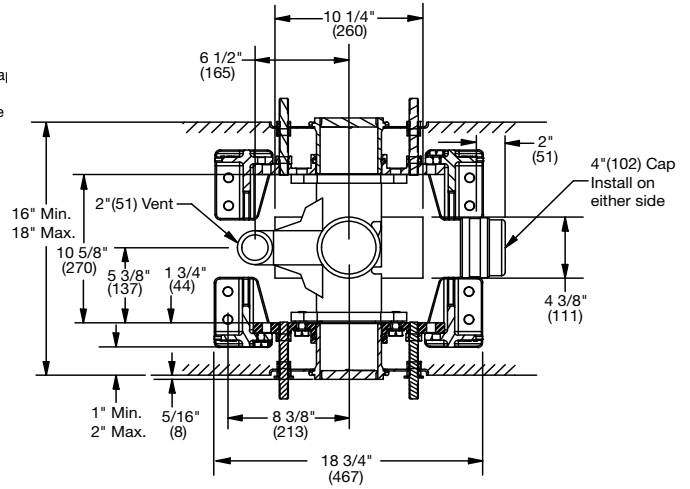
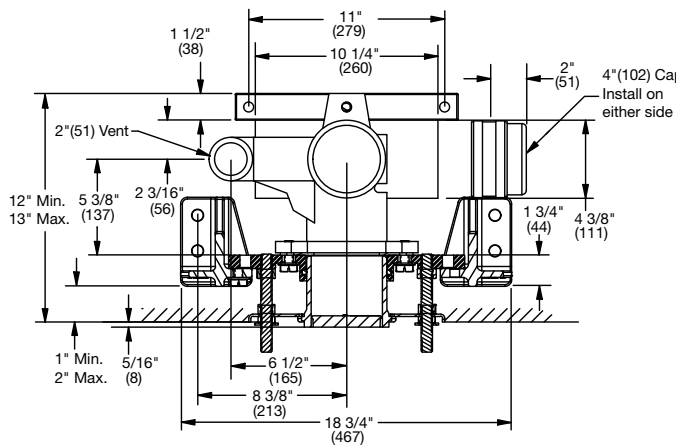
QT-123-D

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



# QT QuickTurn™ Water Closet Carriers



QT-133

QT-133-D

# QT QuickTurn™ Thin Wall Water Closet Carriers

## QT-141 Thin Wall 500 lb. Closet Carrier

| Model Number  | Wt. Lbs. | Description                     | List Price |
|---------------|----------|---------------------------------|------------|
| QT-141-3      | 76       | 3" Waste, 2" Vent               | \$2,071.05 |
| QT-141-4-V2   | 76       | 4" Waste, 2" Vent               | 2,256.05   |
| QT-141-4-V4   | 76       | 4" Waste, 4" Vent               | 2,506.11   |
| QT-141-4-D-V2 | 120      | Back-to-Back, 4" Waste, 2" Vent | 4,160.86   |
| QT-141-4-D-V4 | 127      | Back-to-Back, 4" Waste, 4" Vent | 4,413.42   |



QT-141-3



QT-141-4-D-V2

## QT-151 Thin Wall 500 lb. Offset Closet Carrier

| Model Number | Wt. Lbs. | Description         | List Price |
|--------------|----------|---------------------|------------|
| QT-151-L     | 77       | Single - Left Hand  | \$2,874.20 |
| QT-151-R     | 77       | Single - Right Hand | 2,874.20   |
| QT-151-D     | 128      | Back to Back        | 4,485.58   |



QT-151-L



QT-151-D

## QT-161-L/R Thin Wall 500 lb. Horizontal Closet Carrier

| Model Number | Wt. Lbs. | Description         | List Price |
|--------------|----------|---------------------|------------|
| QT-161-L     | 78       | Single - Left Hand  | \$2,487.61 |
| QT-161-R     | 78       | Single - Right Hand | 2,487.61   |



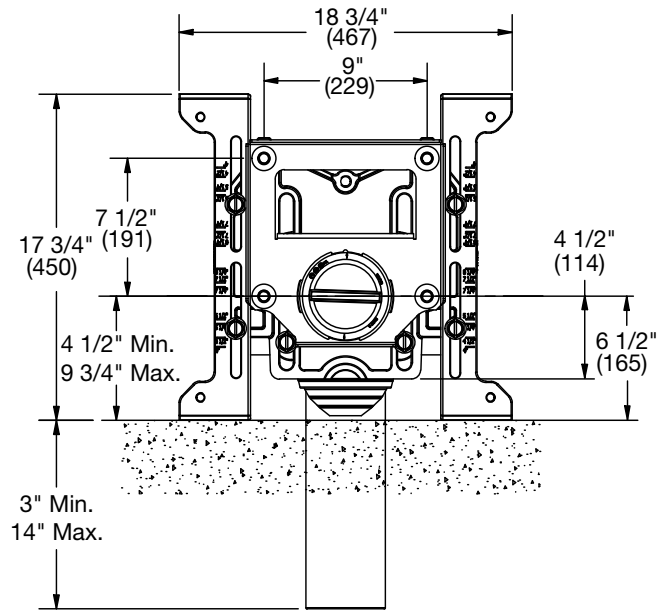
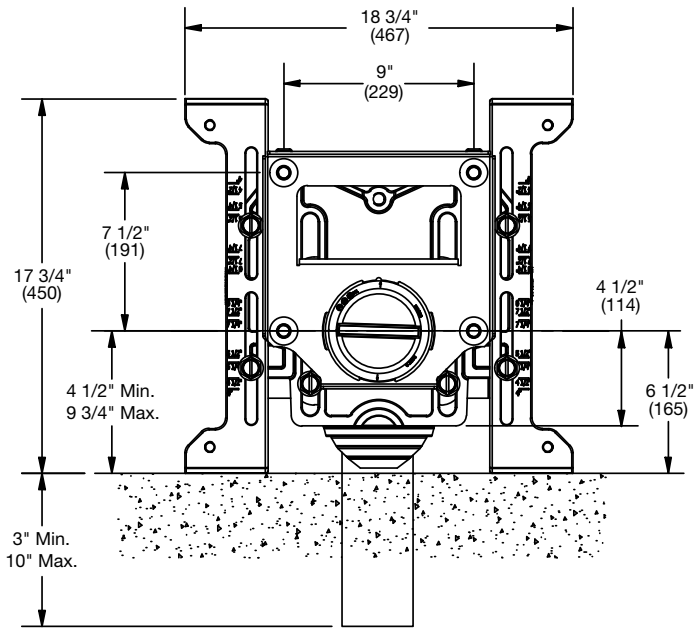
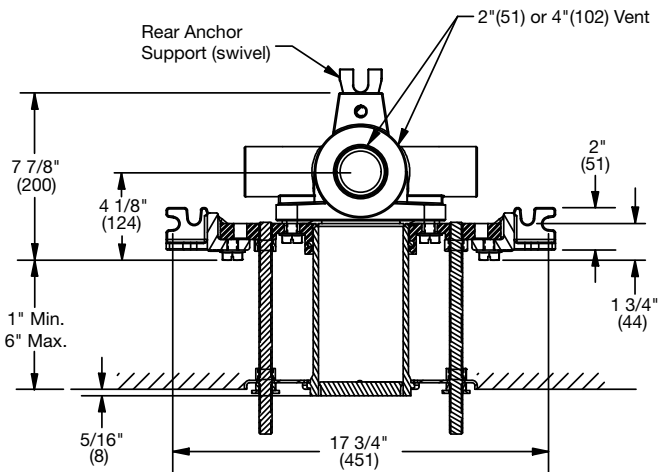
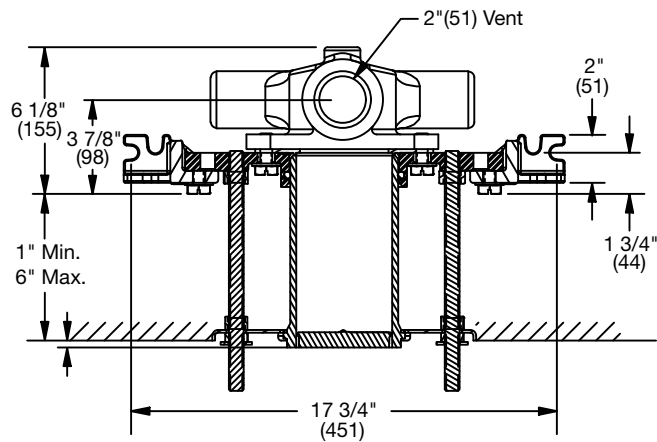
QT-161-L

Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.





# QT QuickTurn™ Water Closet Carriers



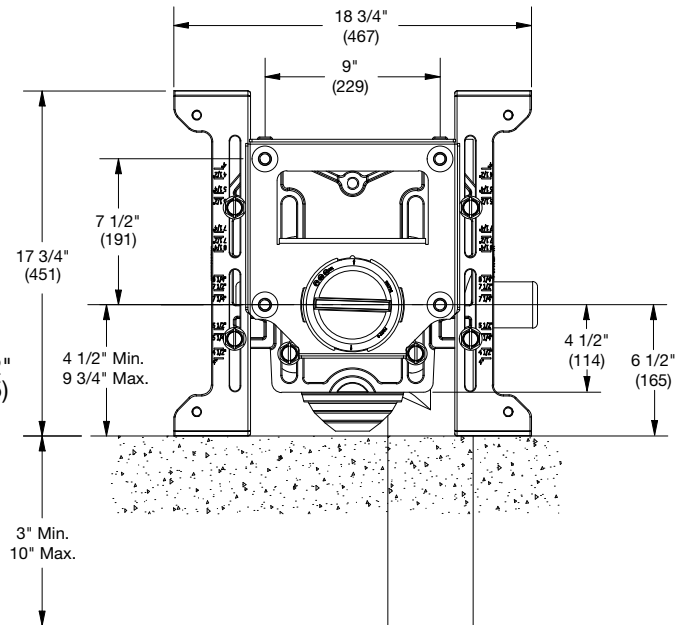
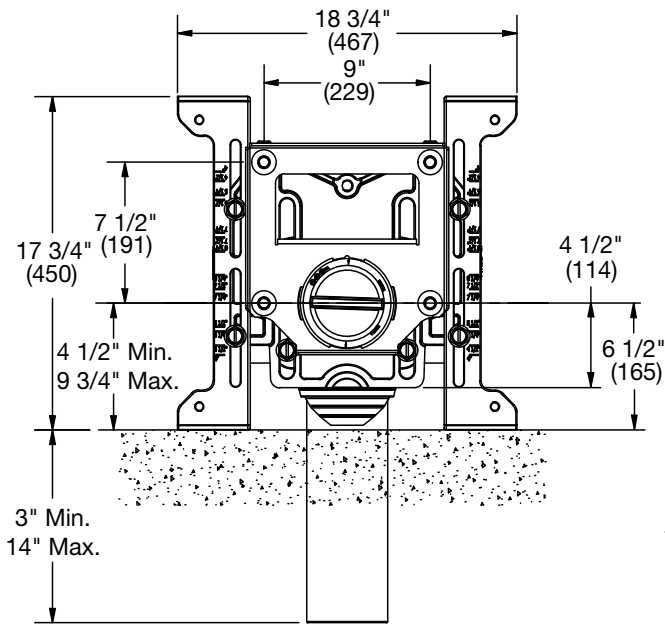
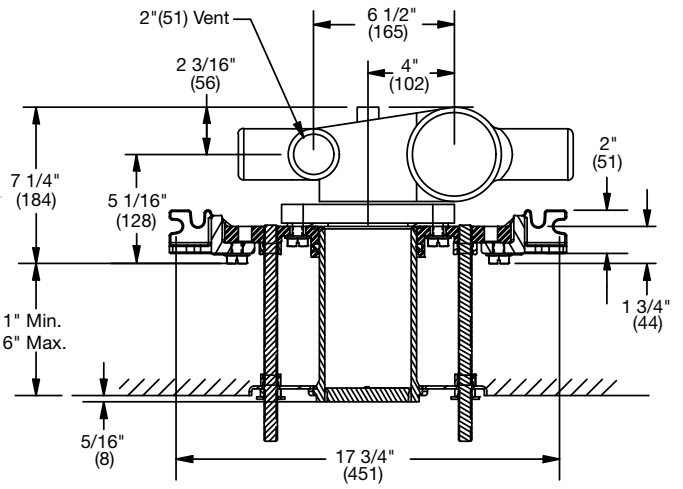
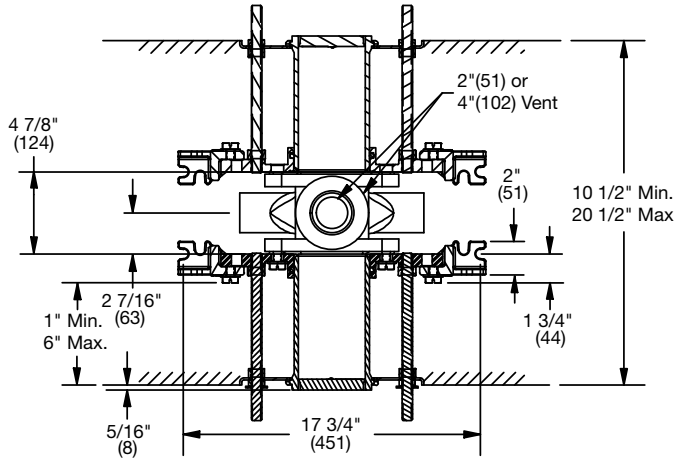
QT-141-3

QT-141-4



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# QT QuickTurn™ Water Closet Carriers



QT-141-4-D

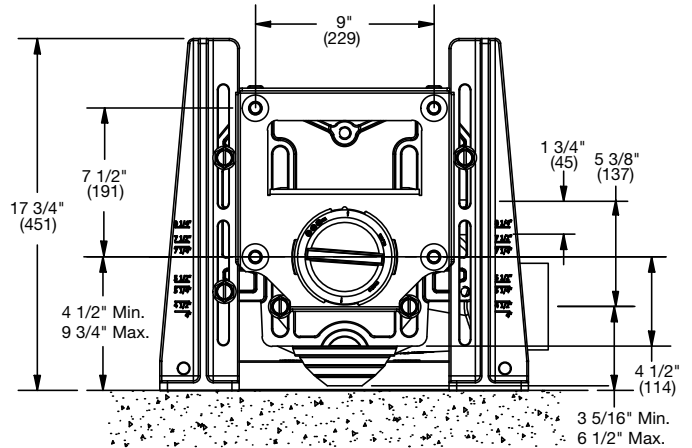
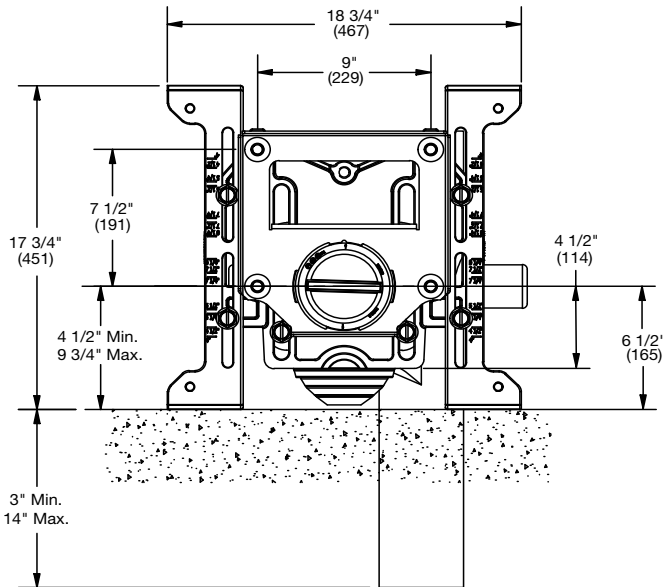
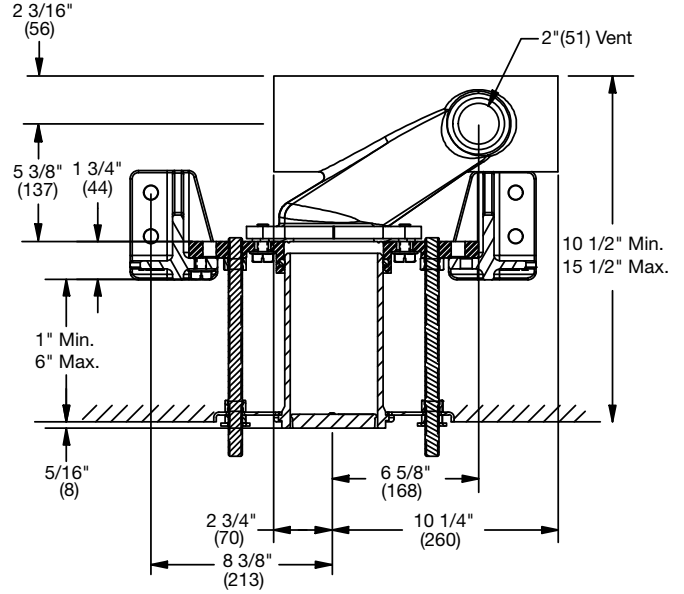
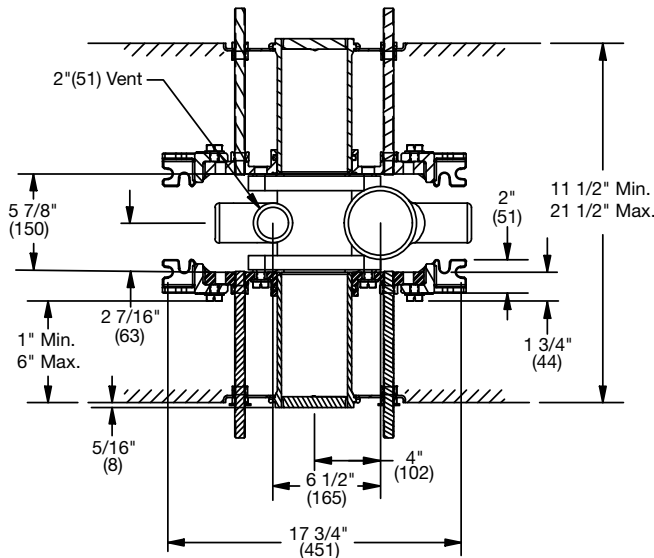
QT-151-L/R

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



# QT QuickTurn™ Water Closet Carriers



QT-151-D

QT-161-L/R

# Fixture Carriers

## Wall Hung Fixture Carriers

Wall hung fixture carriers provide structural support for off-the-floor lavatories, urinals, water coolers, and service sinks. Floor mounted carriers are anchored to the structural floor, and work independently of the wall structure. Wall mounted carriers may be suitable in some light commercial or residential applications, provided they are securely fastened to a suitable structural wall.

### Lavatory Carriers

Floor mounted lavatory carriers are recommended for installation of all wall hung lavatories. Lavatories attached to a wall with only a fixture mounting bracket will eventually become unstable, causing damage to the wall, and creating a hazardous condition.

Lavatories are most commonly designed for installation with a concealed arm carrier. Concealed arm carriers have supporting arms that extend through cavities in the back of the fixture, and are entirely hidden by the lavatory and the wall. For aesthetic reasons, concealed arm carriers are preferred in commercial construction.

Watts patented TCA-411 "Track" Lavatory Concealed Arm Carriers are specifically designed for block wall construction. In commercial construction, floor mounted lavatory carriers are typically mounted behind a block wall. Standard TCA-411 nipples extend through the wall, and arms adjust horizontally, with the carrier anchored to the floor. These unique features greatly reduce installation time and labor in block wall construction.

Less common plate type or exposed arm carriers may be required for specific lavatories. Plate type carriers bolt directly to the fixture mounting bracket. Exposed arm carriers are designed with L-shaped support brackets, which extend from the carrier, and bolt to the underside of the fixture.

### Urinal & Water Cooler Carriers

Urinal and water coolers are floor mounted plate type carriers, recommended for all commercial construction. These carriers bolt directly to the fixture mounting bracket(s), and are entirely concealed by the fixture and the wall.

### Service Sink Carriers

Service sink carriers are specified in clinical applications, to support flushing rim, or surgical scrub sinks. Similar in function to water closet carriers, service sink carriers provide structural support, and facilitate a connection to the waste line.



Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

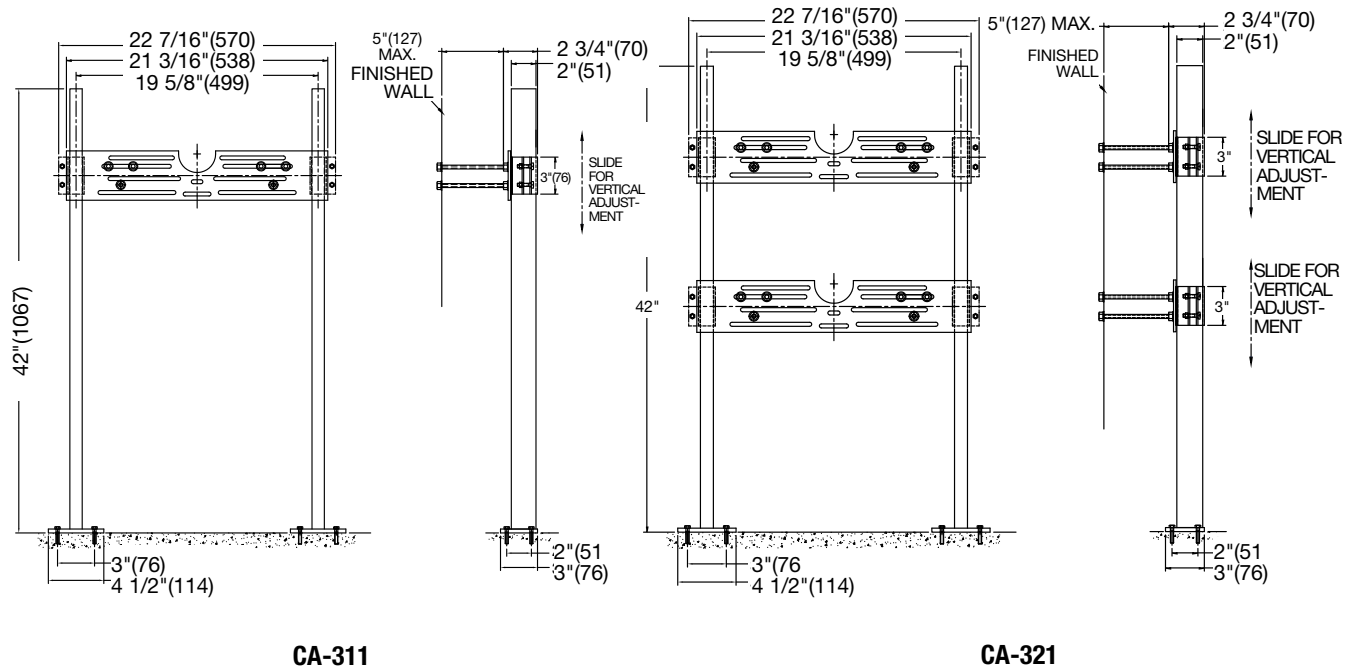
**WATTS**<sup>®</sup>

# Lavatory/Urinal Carriers

CA-311, 321

Urinal Carriers

| Model Number | Wt. Lbs. | Description        | List Price |
|--------------|----------|--------------------|------------|
| CA-311       | 26       | Single Plate       | \$555.91   |
| CA-321       | 26       | with Bearing Plate | 717.67     |



# Lavatory Carriers

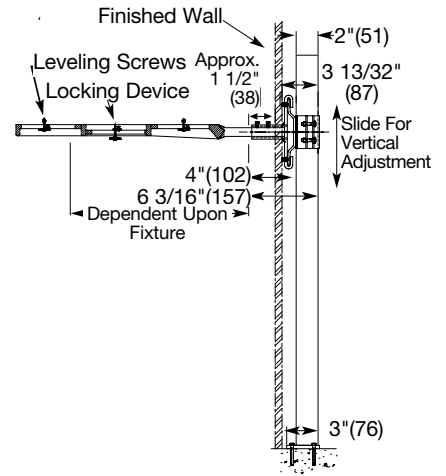
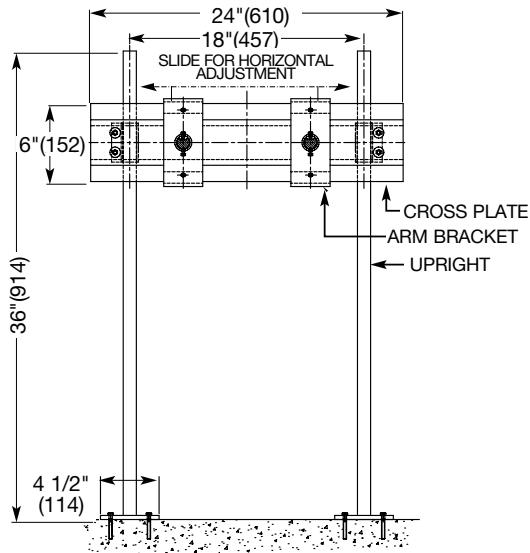
## TCA-411

## Floor Mounted "Track" Lavatory Carrier w/Concealed Arms

| Model Number | Wt., Lbs. | Description                              | List Price |
|--------------|-----------|--|------------|
| TCA-411      | 35        | Single, Concealed Arms                   | \$1,490.90 |
| TCA-411-D    | 60        | Back to Back, Concealed Arms             | 2,781.70   |
| TCA-411-WC   | 37        | Single, Concealed Arms, 27 x 20 Lavatory | 1,490.90   |
| TCA-411-D-WC | 64        | Double, Concealed Arms, 27x20 Lavatory   | 2,781.70   |

### Options for TCA-411 Series:

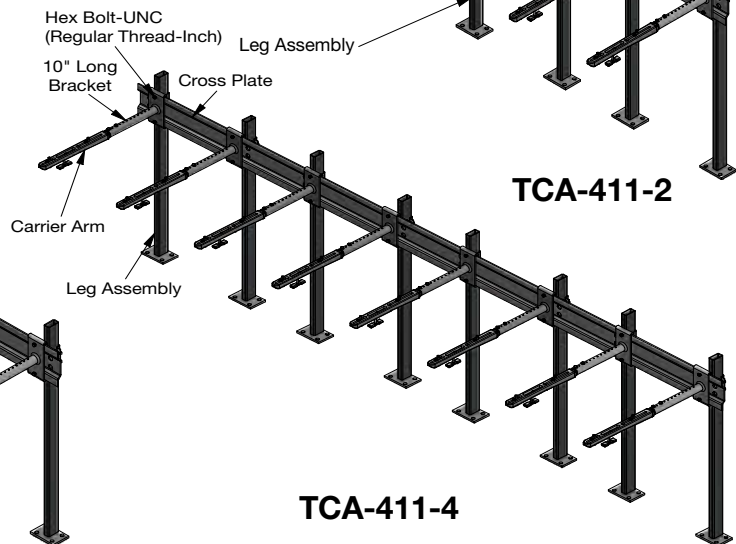
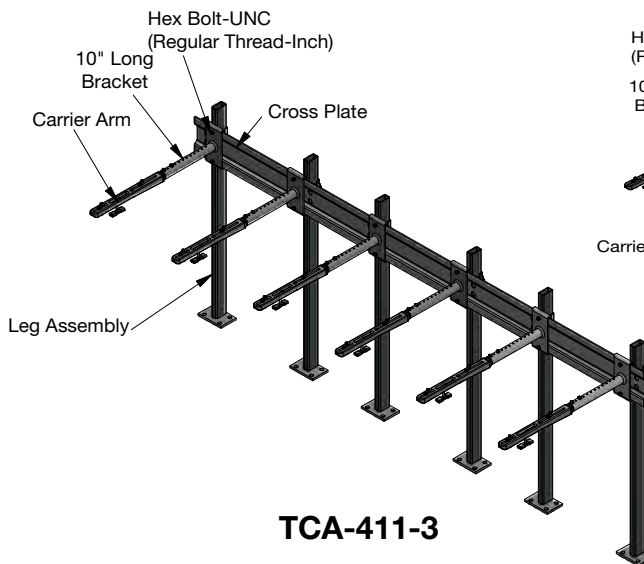
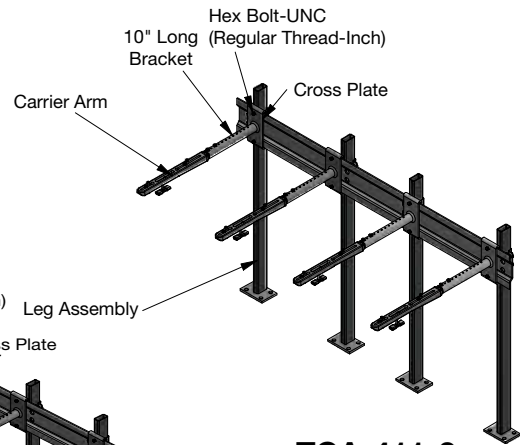
| Suffix | Description                          | List Price |
|--------|--------------------------------------|------------|
| -M54   | 2" Chrome Plated Escutcheons, Single | \$195.50   |
|        | 2" Chrome Plated Escutcheons, Double | 391.00     |
| -M55   | 4" Chrome Plated Escutcheons, Single | 351.50     |
|        | 4" Chrome Plates Escutcheons, Double | 702.50     |
| -M60   | Valve Support Plate, Single          | 176.00     |
|        | Valve Support Plate Double           | 351.50     |



## TCA-411-2/3/4

## Floor Mounted "Track" Extended Lavatory Carrier with Concealed Arms

| Model Number | Order Code | Wt., Lbs. | Description             | List Price |
|--------------|------------|-----------|-------------------------|------------|
| TCA-411-2    | 8190012    | 80        | 2 Sink w/Concealed Arms | \$3,796.90 |
| TCA-411-3    | 8190011    | 120       | 3 Sink w/Concealed Arms | CF**       |
| TCA-411-4    | 8190010    | 160       | 4 Sink w/Concealed Arms | CF**       |



Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



# Lavatory Carriers

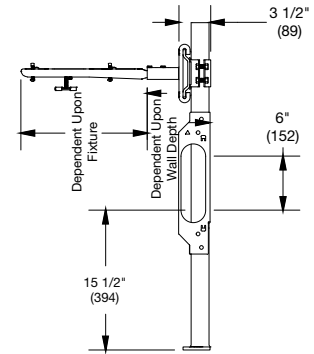
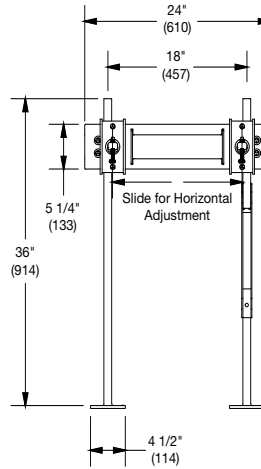
## TCA-411-WLA Floor Mounted "Track" Lavatory Carrier w/Concealed Arms & Waste Line Access

| Model Number     | Order Code | Wt., Lbs. | Description  | List Price |
|------------------|------------|-----------|--|------------|
| TCA-411-WLA      | 8201171    | 35        | Single, Concealed Arms w/Waste Line Access                   | \$3,248.23 |
| TCA-411-D-WLA    | 8201172    | 60        | Back to Back, Concealed Arms w/Waste Line Access             | 4,984.61   |
| WCA-411-WC-WLA   | 8201200    | 37        | Single, Concealed Arms, 27 x 20 Lavatory w/Waste Line Access | 3,519.51   |
| WCA-411-D-WC-WLA | 8201201    | 64        | Double, Concealed Arms, 27x20 Lavatory w/Waste Line Access   | 4,453.74   |



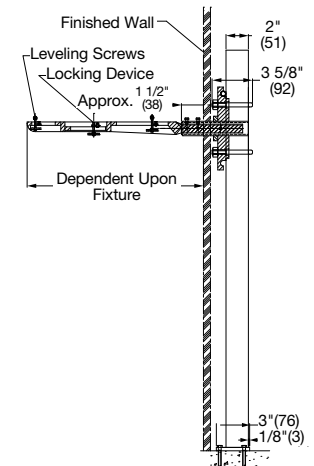
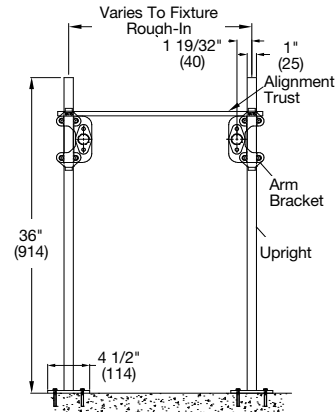
### Options for TCA-411-WLA

| Suffix | Description                          | List Price |
|--------|--------------------------------------|------------|
| -CI    | Arms for Cast Iron Lavatory          | No Add     |
| -M54   | 2" Chrome Plated Escutcheons, Single | \$276.50   |
|        | 2" Chrome Plated Escutcheons, Double | 550.00     |
| -M55   | 4" Chrome Plated Escutcheons, Single | 500.50     |
|        | 4" Chrome Plated Escutcheons, Double | 1,000.00   |
| -M60   | Valve Support Plate, Single          | 251.50     |
|        | Valve Support Plate Double           | 499.00     |



## WCA-411 Floor Mounted Lavatory Carrier w/Concealed Arms

| Model Number | Order Code | Wt., Lbs. | Description                              | List Price |
|--------------|------------|-----------|--|------------|
| WCA-411      | 8133205    | 35        | Single, Concealed Arms                   | \$638.26   |
| WCA-411-D    | 8133213    | 60        | Back to Back, Concealed Arms             | 1,104.39   |
| WCA-411-WC   | 8133225    | 37        | Single, Concealed Arms, 27 x 20 Lavatory | 740.09     |
| WCA-411-D-WC | 8133212    | 64        | Double, Concealed Arms, 27x20 Lavatory   | 1,125.54   |



### Options for WCA-411 Series:

| Suffix | Description                        | List Price |
|--------|------------------------------------|------------|
| -M54   | 2" Chrome Plated Escutcheons, Each | \$191.00   |
| -M55   | 4" Chrome Plated Escutcheons, Each | 320.00     |
| -M60   | Valve Support Plate, Each          | 242.00     |

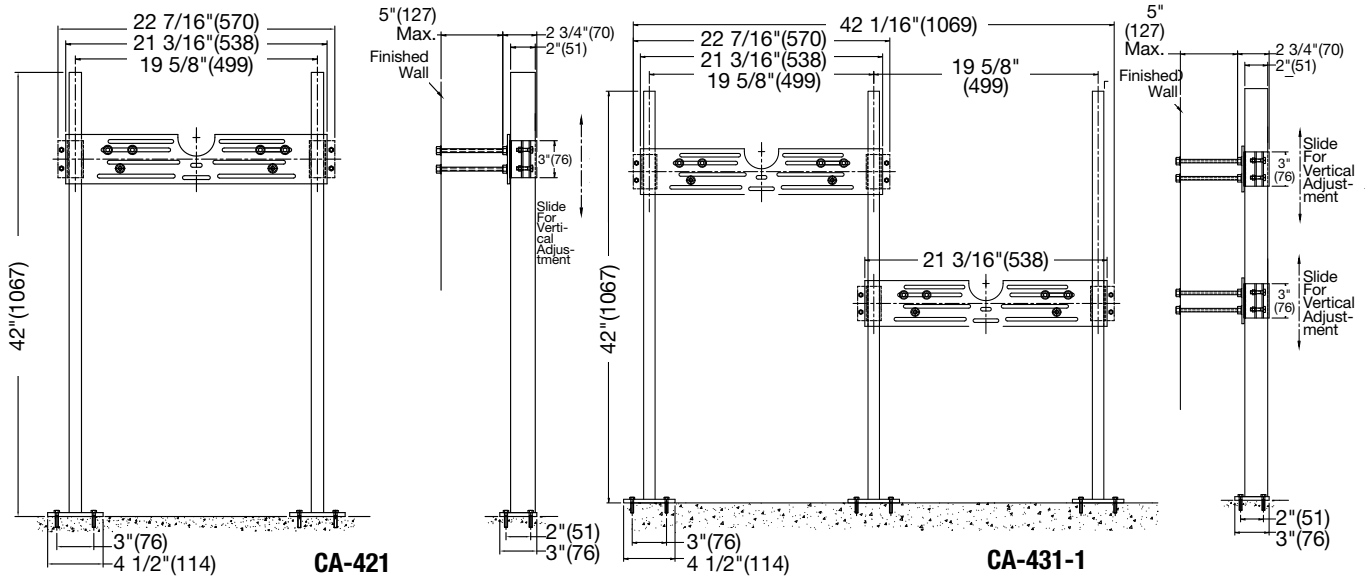


Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Lavatory/Water Cooler Carriers

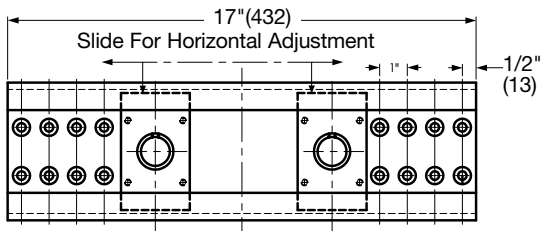
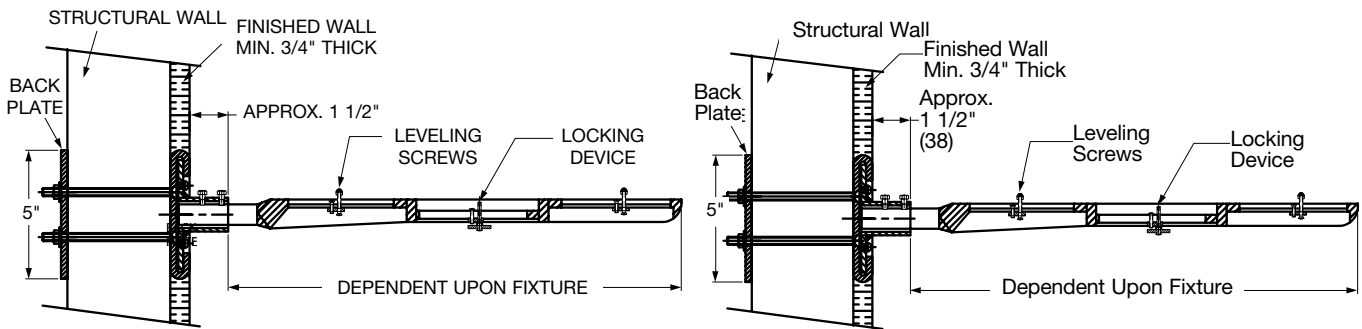
**CA-421** Floor Mounted Plate Type Lavatory/  
**CA-431-1** Water Cooler Carrier

| Model Number | Wt., Lbs. | Description                        | List Price |
|--------------|-----------|------------------------------------|------------|
| CA-431-1     | 50        | Plate Type for Hi-Low Water Cooler | 1,061.93   |

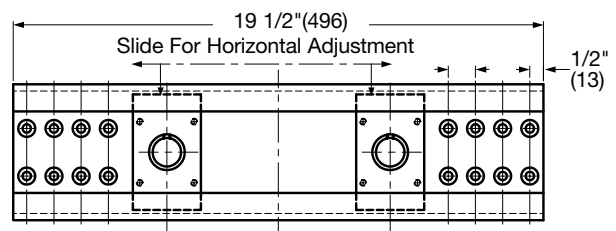


**TCA-440** Wall Mounted "Track" Lavatory Carrier  
**TCA-450** with Concealed Arms

| Model Number | Order Code | Wt., Lbs. | Description                       | List Price |
|--------------|------------|-----------|-----------------------------------|------------|
| TCA-440      | 8187152    | 28        | Concealed Arms, Standard Lavatory | \$556.27   |
| TCA-450      | 8187153    | 30        | Concealed Arms, 27x20 Lavatory    | 1,035.96   |



**TCA-440**



**TCA-450**

Consult factory for all applications outside of listed parameters.  
 Prices do not include applicable taxes.



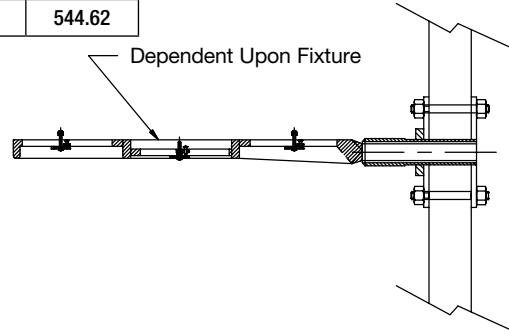
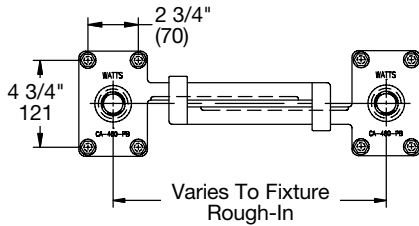


# Lavatory/Service Sink Carriers

CA-461  
CA-462

## Wall Mounted Concealed Arm Lavatory Carriers

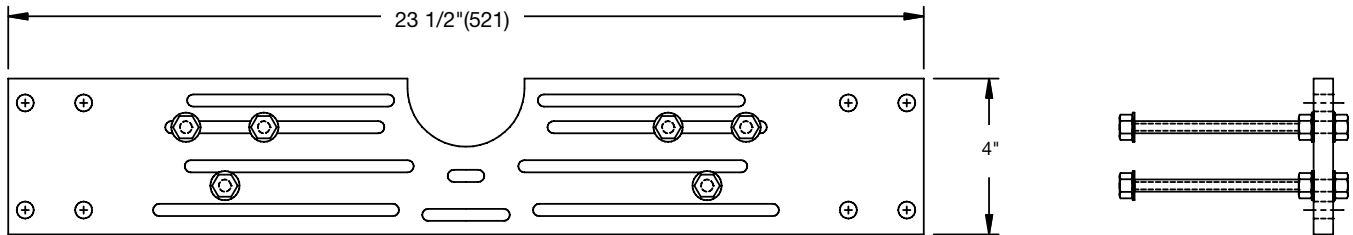
| Model Number | Order Code | Wt., Lbs. | Description                    | List Price |
|--------------|------------|-----------|--------------------------------|------------|
| CA-461       | 8133254    | 30        | Concealed Arms with Back Plate | \$686.82   |
| CA-462       | 8133260    | 24        | Concealed Arms                 | 544.62     |



CA-481

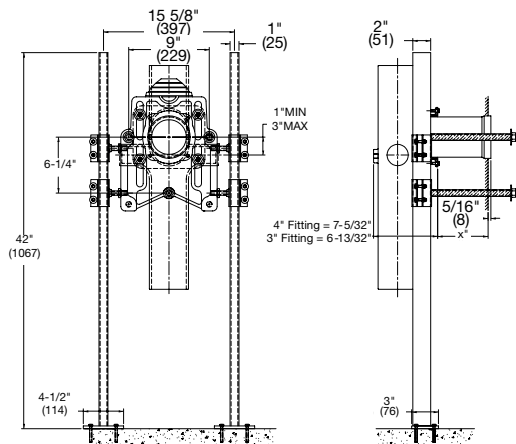
## Wall Plate

| Model Number | Order Code | Description           | List Price |
|--------------|------------|-----------------------|------------|
| CA-481       | 8133262    | Wall Plate with Studs | \$258.81   |

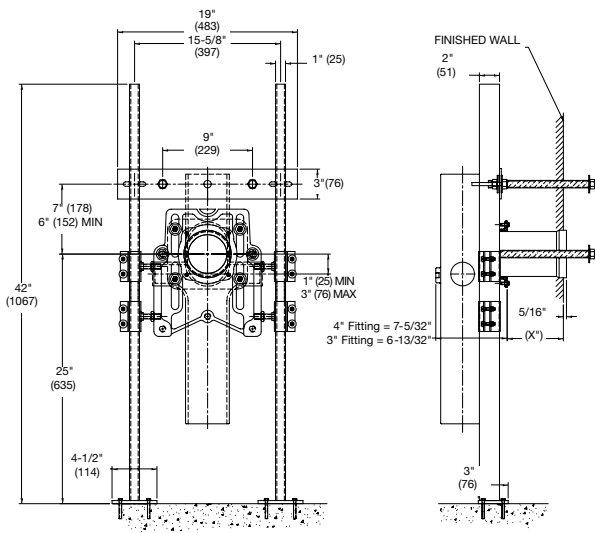


## ISCA-550, ISCA-560 Service Sink Carriers

| Model Number  | Order Code | Wt., Lbs. | Description       | List Price |
|---------------|------------|-----------|-------------------|------------|
| ISCA-550-3    | 8187116    | 60        | 3" Waste, 2" Vent | \$2,454.42 |
| ISCA-550-4-V2 | 8187117    | 60        | 4" Waste, 2" Vent | 2,665.11   |
| ISCA-550-4-V4 | 8187118    | 60        | 4" Waste, 4" Vent | CF**       |
| ISCA-560-3    | 8155496    | 60        | 3" Waste, 2" Vent | 2,793.41   |
| ISCA-560-4-V2 | 8187120    | 60        | 4" Waste, 2" Vent | 2,984.89   |
| ISCA-560-4-V4 | 8187121    | 60        | 4" Waste, 4" Vent | CF**       |



ISCA-550



ISCA-560



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Specification Drainage Modular Parts

## Modular Bodies For Floor Drains & Cleanouts

| Catalogue No.  | Description | List Price |
|--|-------------|------------|
| <b>B2 Cast Iron Body (*Side Outlet Add \$198.71)</b> |             |            |
| B2-2*  | No Hub      | \$282.38   |
| B2-3*  | No Hub      | 282.38     |
| B2-4*  | No Hub      | 282.38     |
| B2-6   | No Hub      | 282.38     |
| B2-8   | No Hub      | 413.92     |
| B2-2P  | Push On     | 331.60     |
| B2-3P  | Push On     | 331.60     |
| B2-4P  | Push On     | 331.60     |
| B2-2X  | Caulk       | 282.38     |
| B2-4X  | Caulk       | 282.38     |



B2

### B2 PVC & ABS Bodies

|         |            |          |
|---------|------------|----------|
| B2-2-60 | PVC Socket | \$318.86 |
| B2-3-60 | PVC Socket | 318.86   |
| B2-4-60 | PVC Socket | 318.86   |
| B2-2-61 | ABS Socket | 318.86   |
| B2-3-61 | ABS Socket | 318.86   |
| B2-4-61 | ABS Socket | 318.86   |



B3

### B3 Cast Iron Body (\*Side Outlet Add \$176.56)

|         |                 |          |
|---------|-----------------|----------|
| B3-2*   | No Hub          | \$118.42 |
| B3-3*   | No Hub          | 118.42   |
| B3-4*   | No Hub          | 118.42   |
| B3-6    | No Hub          | 152.70   |
| B3T-2NH | No Hub          | 127.13   |
| B3T-3NH | No Hub          | 129.71   |
| B3T-4NH | No Hub          | 127.13   |
| B3T-2P  | Push On         | 173.92   |
| B3T-3P  | Push On         | 173.92   |
| B3T-4P  | Push On         | 173.92   |
| B3-2P   | Push On         | 169.97   |
| B3-3P   | Push On         | 184.36   |
| B3-4P   | Push On         | 246.65   |
| B3-2X   | Caulk           | 118.42   |
| B3-3X   | Caulk           | 118.42   |
| B3-4X   | Caulk           | 118.42   |
| B3-2T   | Threaded Outlet | 272.89   |
| B3-3T   | Threaded Outlet | 235.30   |
| B3-4T   | Threaded Outlet | 226.94   |



B3-60,61

### B3 PVC & ABS Bodies

|         |            |          |
|---------|------------|----------|
| B3-2-60 | PVC Socket | \$113.12 |
| B3-3-60 | PVC Socket | 155.02   |
| B3-4-60 | PVC Socket | 155.02   |
| B3-2-61 | ABS Socket | 155.02   |
| B3-3-61 | ABS Socket | 155.02   |
| B3-4-61 | ABS Socket | 155.02   |

### B4 Cast Iron Body

|       |         |          |
|-------|---------|----------|
| B4-2  | No Hub  | \$104.39 |
| B4-3  | No Hub  | 85.64    |
| B4-4  | No Hub  | 85.64    |
| B4-2P | Push On | 166.47   |
| B4-3P | Push On | 173.26   |
| B4-4P | Push On | 220.65   |



B4

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



# Specification Drainage Modular Parts

## Strainer & Grates For Watts Modular Drains

| Catalogue No. | Description | List Price |
|---------------|-------------|------------|
|---------------|-------------|------------|

### "Standard" Round Strainer with 1/2" Thick Grate

|     |                                     |          |
|-----|-------------------------------------|----------|
| 5-1 | Std NB (Heavy Duty 1/2")            | \$329.76 |
| 6-1 | Std NB (Heavy Duty 1/2")            | 464.59   |
| 8-1 | Std NB (Heavy Duty 1/2")            | 756.11   |
| 5-4 | Std Ductile Iron (Heavy Duty 1/2" ) | 156.70   |
| 5-3 | Std Stainless (Heavy Duty 1/2")     | 364.39   |
| 6-3 | Std Stainless (Heavy Duty 1/2")     | 640.07   |



5-4

### "A" Round Strainer with 1/4" Thick Grate

|      |                    |          |
|------|--------------------|----------|
| A5-1 | 1/4" Nickel Bronze | \$224.09 |
| A6-1 | 1/4" Nickel Bronze | 342.51   |
| A7-1 | 1/4" Nickel Bronze | 508.32   |



A

### Funnels

|       |   |          |
|-------|---|----------|
| EF-1  | 4" Nickel Bronze                          | \$511.94 |
| EF-50 | 4" Cast Iron                              | 260.37   |
| EG-1  | 4" x 9" Nickel Bronze                     | 641.31   |
| EG-3  | 4" x 9" Stainless Steel                   | 1,207.91 |
| EG-50 | 4" x 9" Cast Iron                         | 322.48   |
| F4-1  | 4" Nickel Bronze Bolt-On Funnel           | 290.38   |
| F4-50 | 4" Cast Iron Bolt-On Funnel               | 140.87   |
| F6-1  | 6" Nickel Bronze Bolt-On Funnel           | 290.38   |
| F6-50 | 6" Cast Iron Bolt-On Funnel               | 138.48   |
| G-1   | Bolt-On Oval Funnel 4" x 9" Nickel Bronze | 397.40   |
| G-50  | Bolt-On Oval Funnel 4" x 9" Cast Iron     | 192.01   |



EF-1

### "L" Square Strainer with 1/2" Reinforced Grate

|      |                                 |          |
|------|---------------------------------|----------|
| L5-1 | Std NB (Heavy Duty 1/2")        | \$468.24 |
| L6-1 | Std NB (Heavy Duty 1/2")        | 528.37   |
| L8-1 | Std NB (Heavy Duty 1/2")        | 974.72   |
| L5-3 | Std Stainless (Heavy Duty 1/2") | 486.46   |
| L6-3 | Std Stainless (Heavy Duty)      | 504.67   |



EG-1



L



Consult factory for all applications outside of listed parameters.  
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# Specification Drainage Modular Parts

## Strainer & Grates for Watts Modular Drains

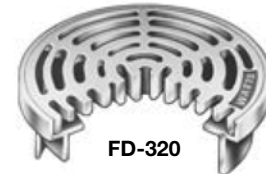
| Catalogue No. | Description | List Price |
|---------------|-------------|------------|
|---------------|-------------|------------|

### Cast Iron Top Assemblies for Floor/Area Drains

|            |               |          |
|------------|---------------|----------|
| FD-300-4   | Ductile       | \$207.71 |
| FD-300-101 | Nickel Bronze | 843.54   |



|           |               |          |
|-----------|---------------|----------|
| FD-320-50 | Cast Iron     | \$293.33 |
| FD-320-1  | Nickel Bronze | 730.58   |
| FD-320-Y  | Ductile       | 198.58   |



|           |               |            |
|-----------|---------------|------------|
| FD-330-1  | Nickel Bronze | \$1,029.38 |
| FD-330-50 | Ductile       | 767.12     |



|              |                                  |          |
|--------------|----------------------------------|----------|
| FD-340-50    | Ductile                          | \$994.79 |
| FD-340-Y-50  | Ductile                          | 728.78   |
| FD-340-101   | Nickel Bronze                    | 4,380.34 |
| FD-340-Y-101 | Non-Adjustable Nickel Bronze Top | 3,518.38 |



|          |         |            |
|----------|---------|------------|
| FD-360-4 | Ductile | \$3,013.44 |
|----------|---------|------------|



|               |               |            |
|---------------|---------------|------------|
| FD-450-AF-101 | Nickel Bronze | \$3,707.59 |
| FD-450-AF-4   | Ductile       | 1,889.32   |



|               |               |            |
|---------------|---------------|------------|
| FD-460-AF-4-9 | Ductile       | \$1,521.29 |
| FD-460-F-4-9  | Ductile       | 839.89     |
| FD-460-AF-1   | Nickel Bronze | 2,811.19   |
| FD-460-F-1    | Nickel Bronze | 2,062.39   |



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# Specification Drainage Modular Parts

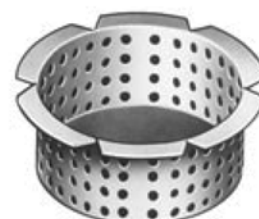
## Parts for Watts Modular Drains

| Catalogue No.  | Description                    | List Price |
|--|--------------------------------|------------|
| <b>Membrane Clamps &amp; Body Collars for Floor Drains</b> |                                |            |
| BLT3-XYC   | Reversible Collar for B3 Body  | \$61.95    |
| B3-C1  | Plain Clamp                    | 32.80      |
| B3-CB  | Fixed Collar for FD-300 Series | 109.32     |



### Sediment Bucket for Floor Drains

|                     |                 |         |
|---------------------|-----------------|---------|
| B1B-61 ABS SED BCKT | Sediment Bucket | \$61.95 |
| B2B-61 ABS SED BCKT | Sediment Bucket | 231.39  |
| B3B-SED BCKT        | Sediment Bucket | 61.95   |



### Cast Iron Adjustable Extension for Floor Drains

|          |                                 |          |
|----------|---------------------------------|----------|
| B2-XY    | For: FD-340, FD-360, FD-460-AF  | \$291.49 |
| B3-XY    | For: FD-320, FD-330, FD-870-TG  | 145.76   |
| DD-1     | For: FD-100, FD-300, RD-200     | 661.34   |
| DD-XY-50 | MPT For: FD-100, FD-200, FD-300 | 116.61   |



### Replacement Floor Drain Strainer Grates & Cleanout Covers

|                |  |          |
|----------------|--|----------|
| A5PG-1         | A-5" Nickel Bronze Strainer grate with 3 screws        | \$105.85 |
| FD-300-PG-4    | 6" Diameter Heavy Duty Ductile Grate                   | 121.47   |
| FD-320-PG-4    | 7-1/4" Diameter Ductile Iron Grate                     | 157.91   |
| FD-320-PG-1    | 7-1/4" Diameter Grate w/NB Veneer                      | 471.96   |
| FD-340-PG-4    | 11-11/16" Ductile Iron Grate                           | 543.10   |
| FD-340-PG-1    | 11-11/16" Cast Iron Grate                              | 1,198.99 |
| FD-460-AF-PG-4 | 12" Square Ductile Area Drain Grate                    | 442.46   |
| FD-460-AF-PG-1 | 12" Square Ductile Iron Area Drain Grate w/NB Veneer   | CF**     |
| FD-450-AF-PG-4 | 15" Square Ductile Area Drain Grate                    | 1,011.59 |
| R5G-1          | 5" Diameter Nickel Bronze CO cover w/gasket & 3 screws | 224.27   |
| RXPG-1         | 1/2" NH CO Cover w/gasket & 3 screws                   | 286.30   |
| RXPG-4         | 1/2" Ductile Iron CO Cover w/gasket & 3 Screws         | 67.67    |



Consult factory for all applications outside of listed parameters.  
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# Specification Drainage Modular Parts

## Parts for Watts Modular Drains

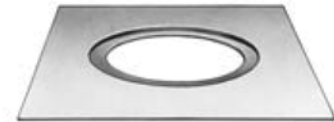
| Catalogue No. | Description | List Price |
|---------------|-------------|------------|
|---------------|-------------|------------|

### Roof Drain Components

|            |                    |         |
|------------|--------------------|---------|
| B2-DM      | RD-100 Poly        | \$76.54 |
| B2-KDM-L-4 | RD-100 Low Ductile | 287.87  |
| B2-KDM-4   | RD-100 Ductile     | 326.33  |
| B2-KDM-80  | RD-100 Aluminum    | 256.44  |
| B3DM       | RD-200 Poly        | 76.54   |
| B3KDM-80   | RD-200 Aluminum    | 166.12  |



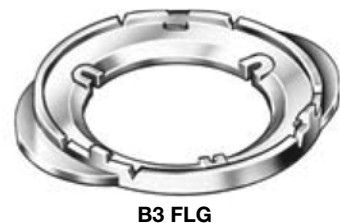
|             |                                  |          |
|-------------|----------------------------------|----------|
| B2-FLG      | RD-100 Flashing Ring, Deck Clamp | \$123.89 |
| B2-FLG-W-80 | RD-100 Aluminum w/ABS Standpipe  | 338.87   |
| B2-S        | RD-100 Sump Receiver             | 205.87   |



|       |                    |          |
|-------|--------------------|----------|
| B2-V2 | Fixed 2" Extension | \$355.70 |
| B2-V3 | Fixed 3" Extension | 355.70   |
| B2-V4 | Fixed 4" Extension | 355.70   |



|             |                                  |         |
|-------------|----------------------------------|---------|
| B3-FLG      | RD-200 Flashing Ring, Deck Clamp | \$80.27 |
| B3-FLG-W-50 | RD-200 Aluminum w/ABS Standpipe  | 198.81  |
| B3-S        | RD-200 Sump Receiver             | 117.26  |



Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



# Specification Drainage Modular Parts

## Parts for Watts Modular Drains

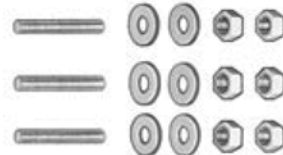
| Catalogue No. | Description | List Price |
|---------------|-------------|------------|
|---------------|-------------|------------|

### Hardware Packs

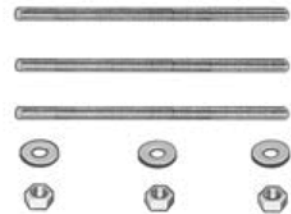
|      |                                       |        |
|------|---------------------------------------|--------|
| FC-1 | Cap Screw w/Integral Washer           | \$9.44 |
| FC-2 | Bolts, Washers & Nuts for Roof Drains | 17.53  |
| FC-3 | Bolts, Washers & Nuts for Deck Clamps | 31.17  |
| FC-4 | Bolts, Washers & Nuts for Extensions  | 43.08  |



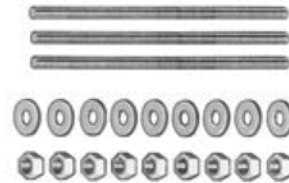
FC-1



FC-2



FC-3



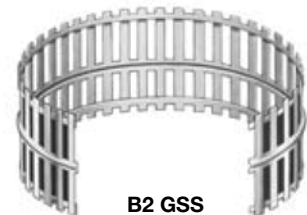
FC-4

### Ballast Guards (IRMA)

|        |                         |          |
|--------|-------------------------|----------|
| B2-GSS | RD-100 SS Ballast Guard | \$548.38 |
| B2-H   | C.I. Ballast Guard      | 453.66   |
| B3-GSS | RD-200 SS Ballast Guard | 238.68   |



B2H



B2 GSS

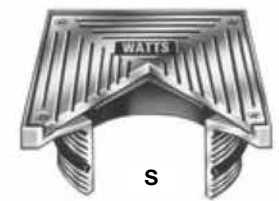
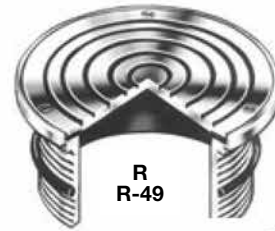


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# Specification Drainage Modular Parts

## Cleanouts for Watts Modular Drains

| Catalogue No.  | Description     | List Price |
|--|-----------------|------------|
| <b>Top Assemblies for CO-100 &amp; CO-200 Series Cleanouts</b> |                 |            |
| R-1  | Nickel Bronze   | \$349.81   |
| RX-3   | Stainless Steel | \$527.96   |
| RC-1   | Nickel Bronze   | \$349.81   |
| RFC71  | Nickel Bronze   | \$686.85   |
| RX-1   | Nickel Bronze   | \$455.63   |
| RX-4   | Ductile         | \$262.83   |
| S-1  | Nickel Bronze   | \$477.66   |
| S-3  | Stainless Steel | \$455.49   |
| T-1  | Nickel Bronze   | \$391.88   |
| TS-1   | Nickel Bronze   | \$550.07   |
| U-1  | Nickel Bronze   | \$654.71   |
| US-1   | Nickel Bronze   | \$686.85   |



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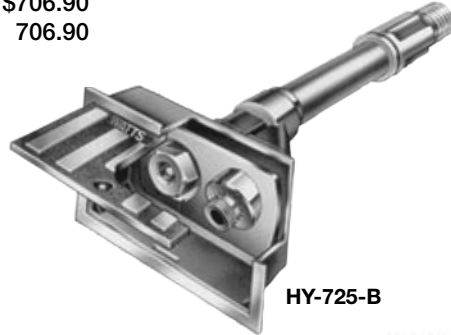
# Specification Drainage Modular Parts

## Parts for Wall Hydrants

| Catalogue No. | Description | List Price |
|---------------|-------------|------------|
|---------------|-------------|------------|

### HY-725 Box for use with HY-400 through HY-430

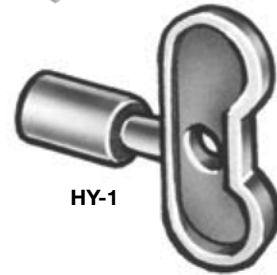
|          |                          |          |
|----------|--------------------------|----------|
| HY-725-B | Box (-1NB) Nickel Bronze | \$706.90 |
|          | (-28 SS) Stainless Steel | 706.90   |



HY-725-B

### Universal Hydrant Replacement Key

|      |                                     |         |
|------|-------------------------------------|---------|
| HY-1 | Replacement Key for all HD Hydrants | \$43.73 |
|------|-------------------------------------|---------|



HY-1

## Miscellaneous Parts for Watts Drainage Products

| Catalogue No. | Description | List Price |
|---------------|-------------|------------|
|---------------|-------------|------------|

### Neoprene Gasket for Wall Hung Water Closets

|       |                               |         |
|-------|-------------------------------|---------|
| CA-1G | Self-Adhesive Neoprene Gasket | \$61.95 |
|-------|-------------------------------|---------|



CA-1G



Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.

# Notes

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Consult factory for all applications outside of listed parameters.  
Prices do not include applicable taxes.



# Notes

# Notes



**Watts Drainage Solutions are engineered to deliver superior performance for commercial drainage designers, specifiers, and installers. Anchored by innovative designs and unique functionality, our Specification Drainage, Orion Chemical Waste, and BLÜCHER Stainless Steel drainage systems satisfy the most demanding industry requirements.**

**Watts Drainage offers a complete line of specification drainage products.**

- Cleanouts
- Dead Level® Trench Drains
- Fixture Carriers
- Floor & Area Drains
- Green Roof Drains
- Hydrants
- Interceptors
- Parking Deck Drains
- Light Commercial
- Roof Drains
- Sanitary Floor Sinks
- Specialties

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