

Catalog and Price List

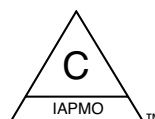
Specification Drainage Products



Effective September 15, 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 | 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 | | G-101 | A112.14.3-2000 |
| Solids Interceptors | | | | IGC167-2011 |

**Watts
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1-800-338-2581***

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Common Suffixes

| Numeric Suffixes | | Alpha Suffixes | |
|---|----------------------------|----------------|------------------------------|
| Code | Description | Code | Description |
| -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 |
| -13 | Galvanized | -128 | Grate w/Center Opening |
| -14 | Flat Grate | -150 | Half Grate |
| -15 | Strainer Extension | -175 | 3/4 Grate |
| Outlet Description | | Code | Description |
| Note: All Drainage products are supplied with NH (No Hub) connections standard unless otherwise indicated. | | -P | Push-On |
| | | -T or -THD | IPS Threaded |
| | | -X | Inside Caulk |
| | | -60 | PVC Socket |
| | | -61 | ABS Socket |
| | | -A | 45 Degree Outlet |
| | | -A | Accutrol Flow Restrictor |
| | | -AL | Aluminum Cover |
| | | -B | Sump Receiver |
| | | -C | Membrane Clamp |
| | | -CF | Carpet Clamping Flange |
| | | -D | Deck Clamp |
| | | -DS | Dome Strainer |
| | | -E | Extension |
| | | -F | Deck Flange |
| | | -F4-1 | 4" Round NB Funnel |
| | | -F4-504" | Round Cast Iron Funnel |
| | | -F6-1 | 6" Round NB Funnel |
| | | -FC | Flange & Clamp |
| | | -G-1 | 4" x 9" Oval NB Funnel |
| | | -G-50 | 4" x 9" Oval C.I. Funnel |
| | | -GSS | SS Ballast Guard |
| | | -HD | Heavy Duty |
| | | -HS | Hub & Spigot |
| | | -K | Cylinder Lock |
| | | -K | Ductile Iron Dome |
| | | -K13 | Galvanized Dome |
| | | -K40 | Ductile Iron Low Dome |
| | | -K80 | Aluminum Dome |
| | | -K81 | Bronze Dome |
| | | -K83 | SS Screen Dome |
| | | -L | Vandal Proof |
| | | -M1 | Extended Nipple |
| | | -M11 | Tiling Frame |
| | | -M20 | Flush Valve Support |
| | | -M23 | Right Side Inlet |
| | | -M24 | Left Side Inlet |
| | | -M54 | 2" Escutcheons |
| | | -M55 | 4" Escutcheons |
| | | -M60 | Flush Valve Support |
| | | -O | Non-Standard Inlet/Outlet |
| | | -Q | Special |
| | | -R | External Water Dam |
| | | -S0 | Side Outlet |
| | | -SS | Stainless Steel |
| | | -TG | Top Grate |
| | | -US | Buy American Compliant |
| | | -VB | Vacuum Breaker |
| | | -W | 4" Internal Water Dam |
| | | -W2 | 2" Internal Water Dam |
| | | -Y | Fixed Top |

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:

Shipments from the factory of less than \$3,500.00 net are F.O.B. factory. Factory shipments over \$3,500.00 net will be prepaid and allowed within the continental United States when made at the lowest motor carrier transportation rate.

TERMS OF SALE:

All sales are F.O.B. shipping point.

PAYMENT TERMS:

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

STOCKING WHOLESALE MINIMUM CHARGE:

A minimum billing charge of \$200.00 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. In the event that the customer cancels an order for such products, Watts shall charge the customer an amount equal to Watts' costs and expenses incurred in performing the purchase order prior to receipt of notice of cancellation.

LIMITED WARRANTY:

Watts Regulator Co. (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.

THE WARRANTY SET FORTH HEREIN 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 WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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 labor 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. This warranty shall be invalidated by any abuse, misuse, misapplication, improper installation or improper maintenance or alteration of the product.

Some States do not allow limitations on how long an implied warranty lasts, and some States do not allow the exclusion or limitation of incidental or consequential damages. Therefore the above limitations may not apply to you. This Limited Warranty gives you specific legal rights, and you may have other rights that vary from State to State. You should consult applicable state laws to determine your rights. SO FAR AS IS CONSISTENT WITH APPLICABLE STATE LAW, ANY IMPLIED WARRANTIES THAT MAY NOT BE DISCLAIMED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO ONE YEAR FROM THE DATE OF ORIGINAL SHIPMENT.

RETURNED GOODS RESTOCKING CHARGE:

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. However, a minimum 25% handling charge will apply. A minimum handling charge of \$35.00 is applied whenever the 25% handling deduction does not total \$35.00. 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. All dimensions shown in this catalog are subject to manufacturing tolerances.

WATTS Drainage 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 Drainage** representative for any clarification.

Examples of WATTS Drainage Alpha/Numeric Suffix System

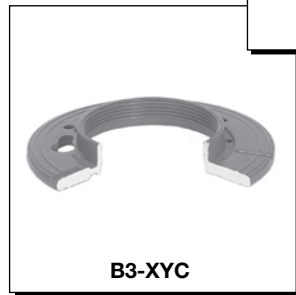
Floor Drains With Adjustable Strainers

Components:



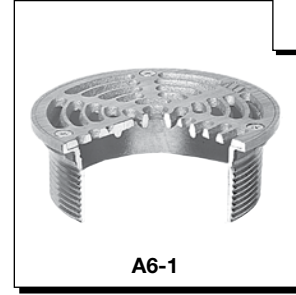
B3 Body, 3" Push-on connection standard with trap primer tapping.

+



Reversible clamp collar, attached with FC-1 hardware.

+



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

Alpha/Numeric Description

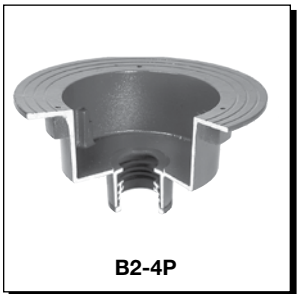
FD - 103P - A6 - 5 - 7

1 2 3 4 5 6

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"

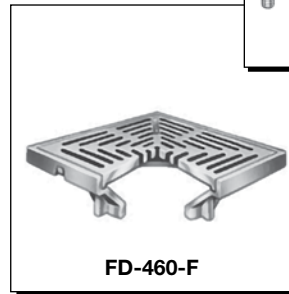
Area Drains

Components:



B2 Body, 4" Push-on Connection

+



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

Alpha/Numeric Description

FD - 464P

1 2 3

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

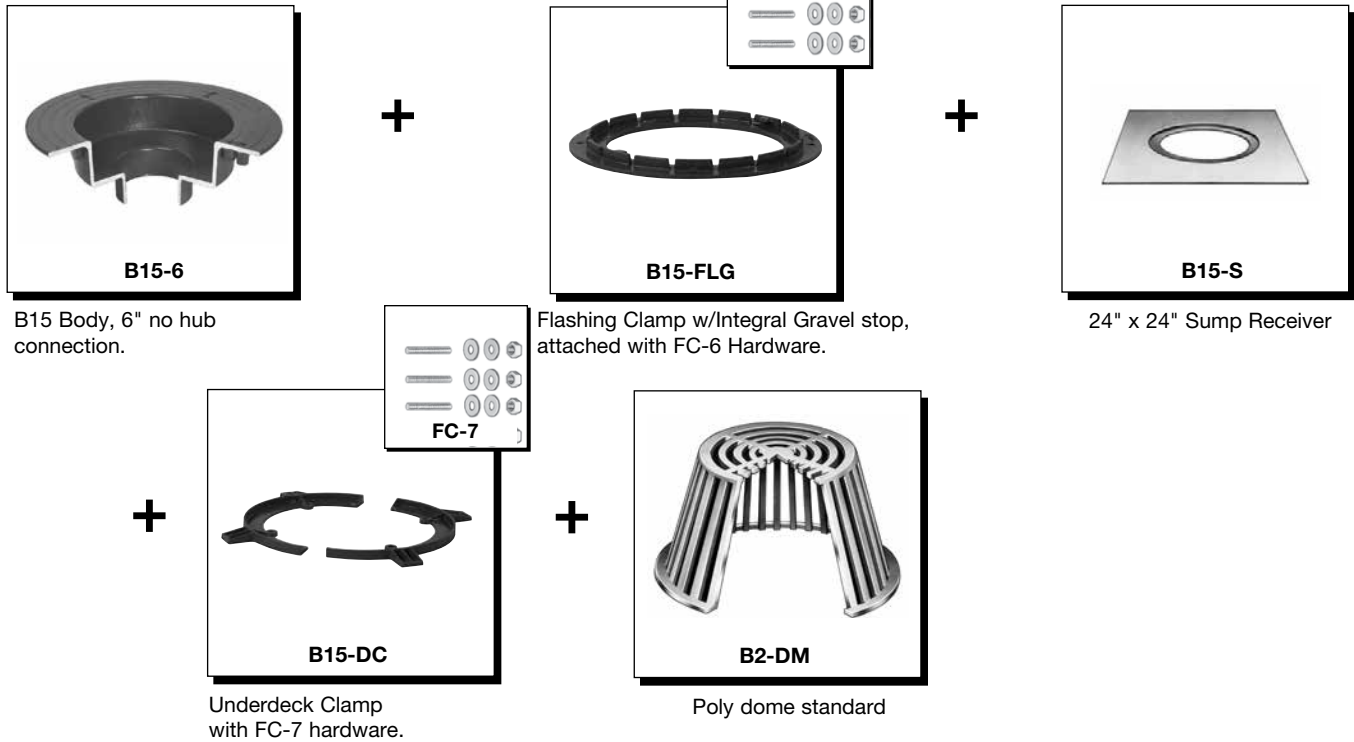


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Examples of WATTS Drainage Alpha/Numeric Suffix System

Roof Drains

Components:



Alpha/Numeric Description:

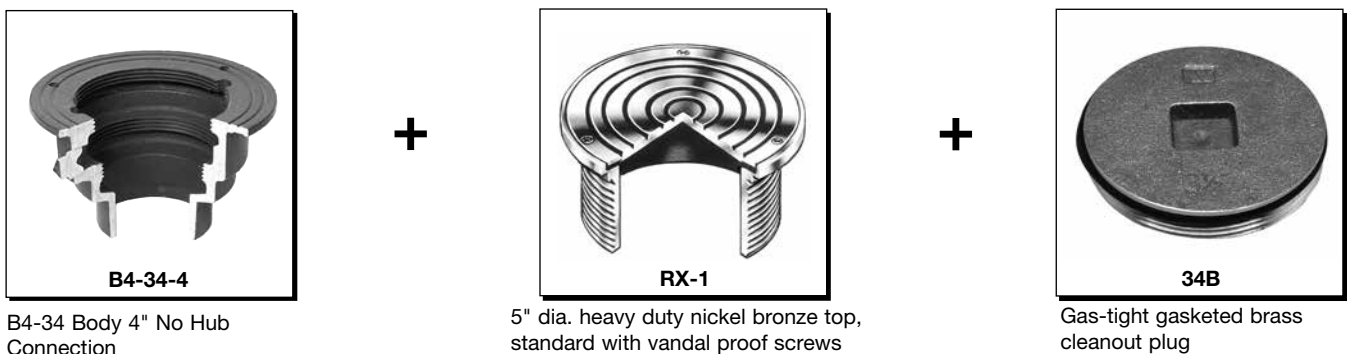
RD - 306 - B-D

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:



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

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Floor And Area Drains

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



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Floor And Area Drains

Pictorial Index



FD-100-A
Round Strainer



FD-100-B
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-M
Square Strainer



FD-100-RS
Rectangular Strainer



FD-100-VD
Solid Hinged Cover

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Floor And Area Drains

Pictorial Index



FD-100-VS
Square Hinged Solid Cover



FD-100-WD
Domed Standpipe



FD-200-A
Round Strainer



FD-200-B
HD 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



FD-200-M
Square Strainer



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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



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-Y
8" Fixed Top



FD-320-Y-SET
8" Fixed Top



FD-330
8x8" Adjustable Top



FD-330-Y
8x8" Fixed Top



FD-340
12" Adjustable Top



FD-340-SET
12" Adjustable Top

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Floor And Area Drains

Pictorial Index



FD-340-Y
12" Fixed Top



FD-340-Y-SET
12" Fixed Top



FD-360
15" Adjustable Top



FD-360-Y
15" Fixed Top



FD-370
Wood Deck Drain



FD-380
Adjustable Wood Floors



FD-390-E
General Purpose



FD-390-E-63
Fixed Wood Floors



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



FD-490-F-4
Parking Structure



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



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Floor And Area Drains

Pictorial Index



FD-530
Parking Area Drain



FD-600
Unfinished Area Isolation



FD-620
Finished Area Isolation



FD-660
PVC 7" Fixed Top



FD-670
PVC 10" Fixed 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



FD-870
12" Planting Area



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

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Floor And Area Drains

Pictorial Index



FD-930
Sq. Precast Parking Deck



FD-1100-A
Round SS Strainer



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



FD-1100-B
HD Round SS Strainer



FD-1100-ER
SS Extended Rim Strainer



FD-1100-L
HD Square SS Strainer



FD-1100-M
Square SS Strainer



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



FD-1160
Chemical Resistant



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-1200-A
Round SS Strainer



FD-1200-B
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



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Floor And Area Drains

Pictorial Index



FD-1200-L
HD Square SS Strainer



FD-1200-M
Square SS Strainer



TD-300
Elevator Trench Drain



FD-Funnels
Bolt-On Funnels



WSC-300-LR
Ligature Resistant Waterline
Shower Channel

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.



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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.

-13 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 Funnels

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 Funnels

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

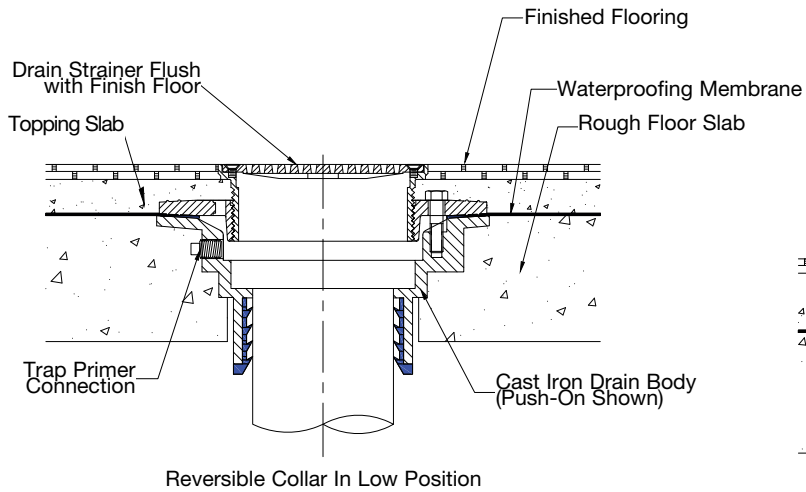
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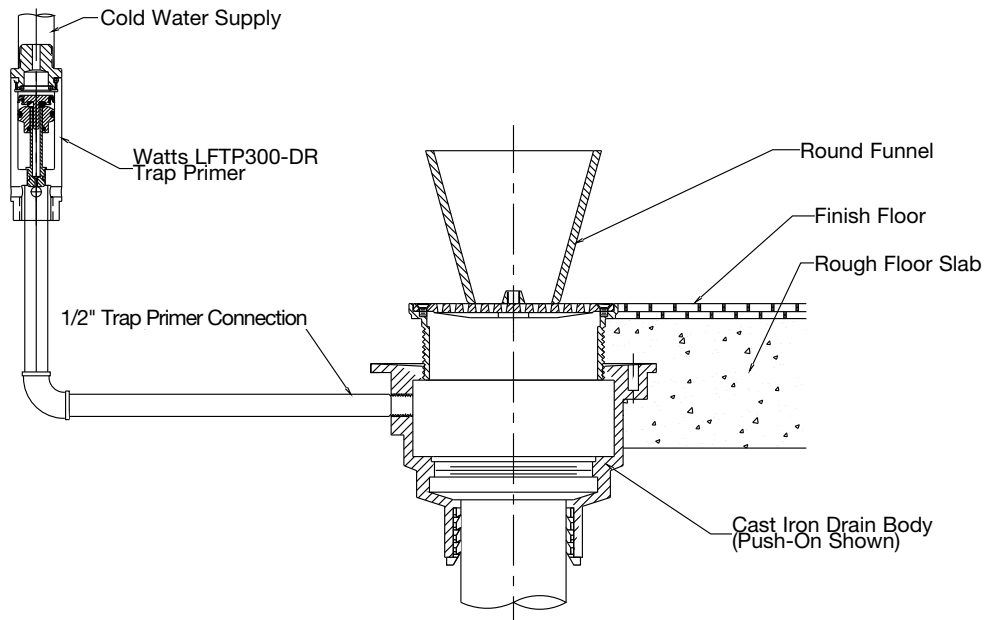
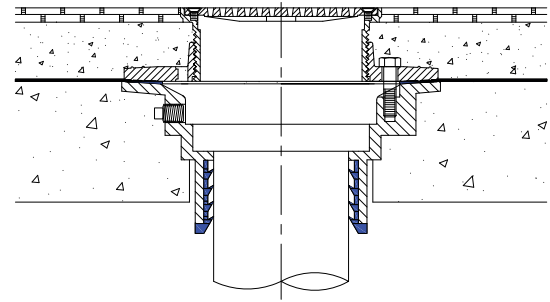
Floor And Area Drains

Typical Installations



FD-100 SERIES

ADJUSTABLE FLOOR DRAIN ABOVE GRADE



FD-200 SERIES

ADJUSTABLE FLOOR DRAIN ON GRADE W/TRAP PRIMER

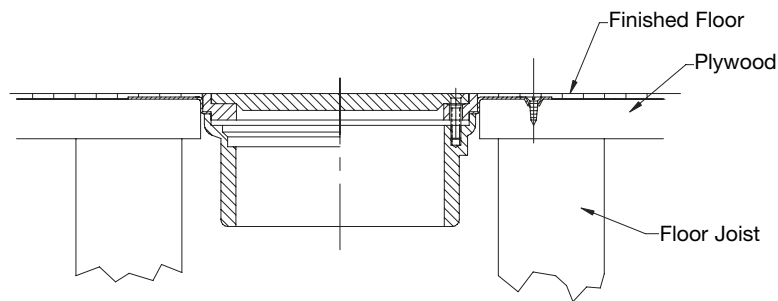
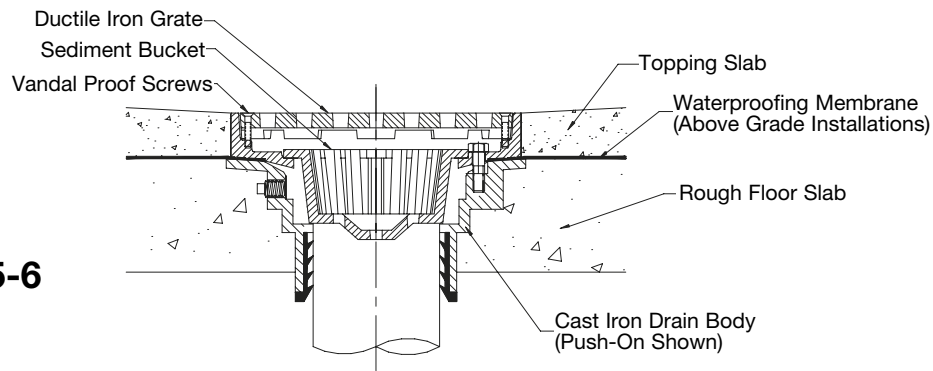


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Prices do not include applicable taxes.

Floor And Area Drains

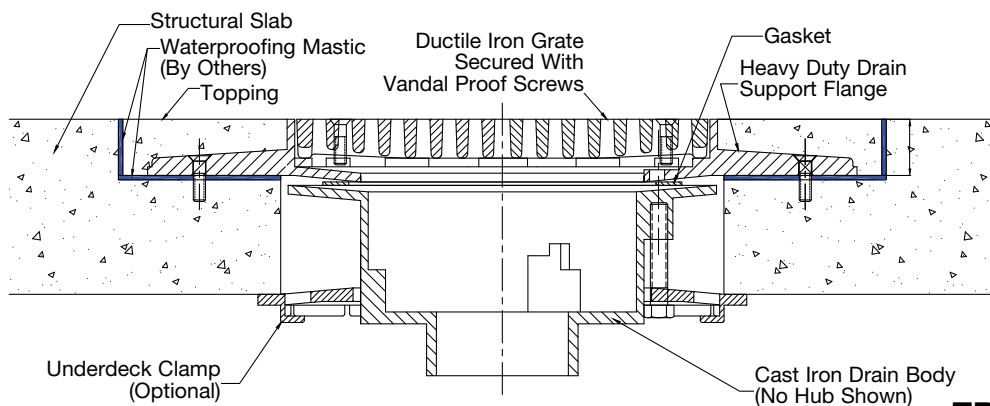
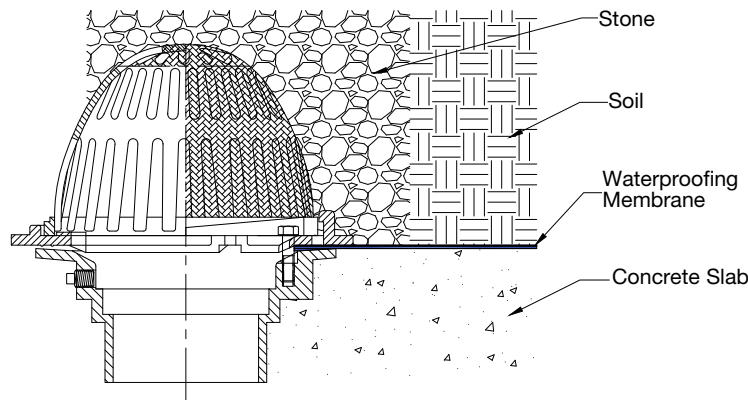
Typical Installations

FD-320-Y-5-6
AREA DRAIN



FD-390-E-63
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.



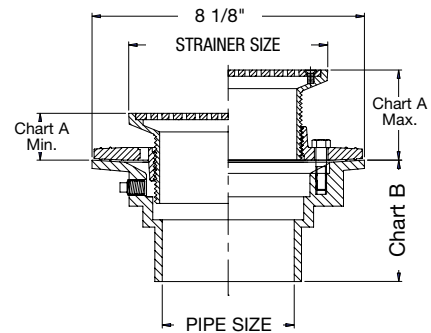
Finished Area Floor Drains

FD-100-A

Floor Drain with Round Strainer



| Model Number | Weight (lbs.) | Str. Size | Pipe Size | Strainer | List Price |
|------------------|---------------|-----------|-----------|---------------|------------|
| FD-102, 3, 4-A5 | 11 | 5" | 2,3,4" | nickel bronze | \$896.00 |
| FD-102, 3, 4-A6 | 12.5 | 6" | 2,3,4" | nickel bronze | 954.00 |
| FD-102, 3, 4-A7 | 14 | 7" | 2,3,4" | nickel bronze | 1,101.00 |
| FD-102, 3, 4-A8 | 16 | 8" | 2,3,4" | nickel bronze | 1,568.00 |
| FD-102, 3, 4-A10 | 21 | 10" | 2,3,4" | nickel bronze | 3,324.00 |



| 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" |

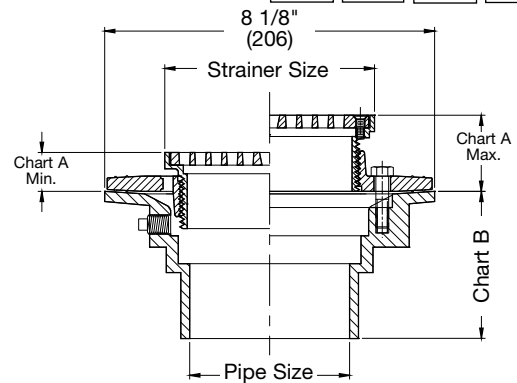
| Chart B | | | | | |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2" | 3 5/8" | 4 1/4" | 4 1/4" | 4 1/2" | 4" |
| 3" | 3 5/8" | 4 1/4" | 4 1/4" | 4 1/2" | 4" |
| 4" | 3 5/8" | 4 1/4" | 4 1/4" | 4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

FD-100-B

Floor Drain with Round Heavy Duty Strainer



| Model Number | Wt., Lbs. | Str. Size | Pipe Size | Strainer | List Price |
|-------------------|-----------|-----------|-----------|---------------|------------|
| FD-102, 3, 4-B5-4 | 13 | 5" | 2,3,4" | ductile iron | \$886.50 |
| FD-102, 3, 4-B5 | 11 | 5" | 2,3,4" | nickel bronze | 1,284.00 |
| FD-102, 3, 4-B6 | 12.5 | 6" | 2,3,4" | nickel bronze | 1,483.00 |
| FD-102, 3, 4-B8 | 16 | 8" | 2,3,4" | nickel bronze | 1,966.00 |
| FD-102, 3, 4-B10 | 21 | 10" | 2,3,4" | nickel bronze | 3,324.00 |



| 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) | \$264.00 |
| P | Push-On Outlet | No Add | -60 | PVC Body w/Socket Outlet (2,3,4" Only) | No Add |
| T | Threaded Outlet | \$151.50 | -61 | ABS Body w/Socket Outlet (2,3,4" Only) | No Add |
| X | Inside Caulk | No Add | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| None | 6" Outlet No Hub Only | 225.50 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -5 | Sediment Bucket | 202.50 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -6 | Vandal Proof | 102.00 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -7 | Trap Primer Tapping | No Add | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -8 | Ball Float Backwater Valve (2,3,4" Only) | 703.50 | -S0 | Side Outlet (2,3,4" Only) | 408.50 |
| -13 | Galvanized Body | 365.50 | | | |



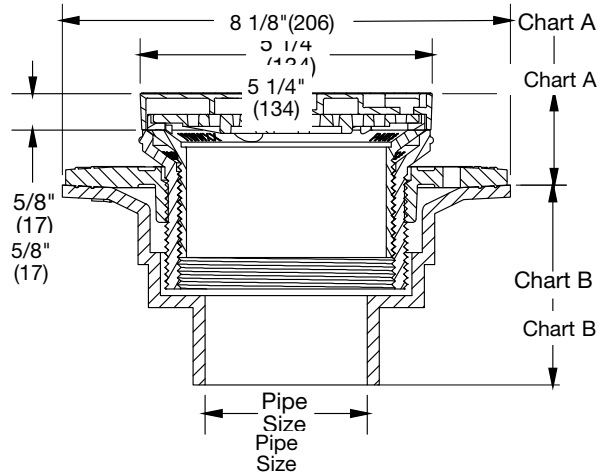
Consult factory for all applications outside of listed parameters.
Prices do not include applicable taxes.

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 | \$1,087.00 |
| FD-192, 3, 4-PR6 | 16 | 6"(152) | 2, 3, 4" | nickel bronze | 1,289.00 |
| FD-192, 3, 4-PR7 | 18 | 7"(178) | 2, 3, 4" | nickel bronze | 1,585.00 |
| FD-192, 3, 4-PR8 | 21 | 8"(203) | 2, 3, 4" | nickel bronze | 1,960.00 |
| FD-196-PR5 (NH Only) | 14 | 5"(127) | 6"(152) | nickel bronze | 2,598.00 |
| FD-196-PR6 (NH Only) | 16 | 6"(152) | 6"(152) | nickel bronze | 2,598.00 |
| FD-196-PR7 (NH Only) | 18 | 7"(178) | 6"(152) | nickel bronze | 2,598.00 |
| FD-196-PR8 (NH Only) | 21 | 8"(203) | 6"(152) | nickel bronze | 2,784.00 |



PATENTED

0-7/8" Adj.
After Pour

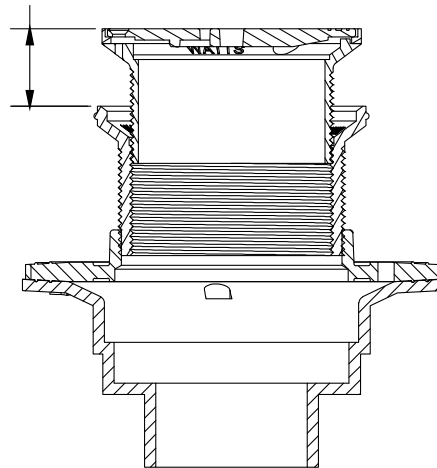


Chart A

| 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) | | | | |

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) | \$264.00 |
| P | Push-On Outlet | No Add | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| T | Threaded Outlet | \$151.50 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| X | Inside Caulk | No Add | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -7 | Trap Primer Tapping | No Add | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -8 | Ball Float Backwater Valve (2, 3, 4" Only) | 703.50 | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -13 | Galvanized Body | 365.50 | -S0 | Side Outlet (2, 3, 4" Only) | 408.50 |

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 | \$601.50 |
| FD-192, 3, 4-PR6-60 | 6 | 6"(152) | 2, 3, 4" | nickel bronze | 894.50 |
| FD-192, 3, 4-PR7-60 | 7 | 7"(178) | 2, 3, 4" | nickel bronze | 1,009.00 |
| FD-192, 3, 4-PR8-60 | 8 | 8"(203) | 2, 3, 4" | nickel bronze | 1,104.00 |



PATENTED

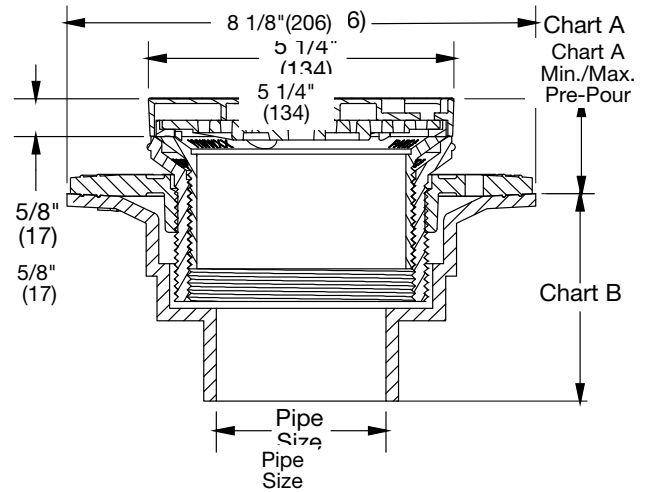
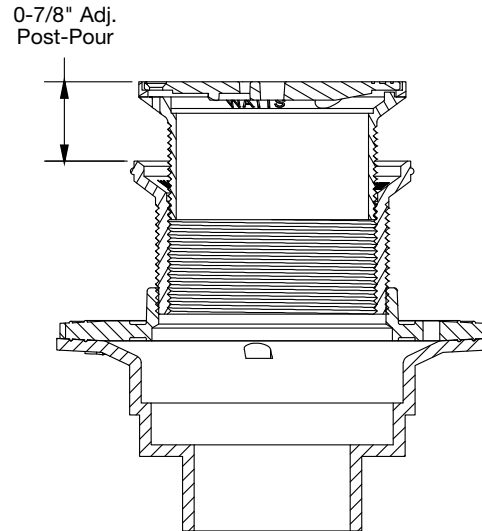


Chart A

| 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) |



Options for FD-190-PR-60 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|-------------------------------|------------|--------|-------------------------------|------------|
| -7 | Trap Primer Tapping | No Add | -15 | Strainer Extension (DD-50) | \$ 264.00 |
| -8 | Ball Float Backwater Valve | \$703.50 | -G-1 | 4x9"Oval Nickel Bronze Funnel | 1,627.00 |
| -61 | ABS Body w/Socket Outlet | 189.50 | | | |
| -F4-50 | 4" Round Cast Iron Funnel | 335.00 | | | |
| -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 | | | |
| -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 | | | |
| -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 | | | |



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

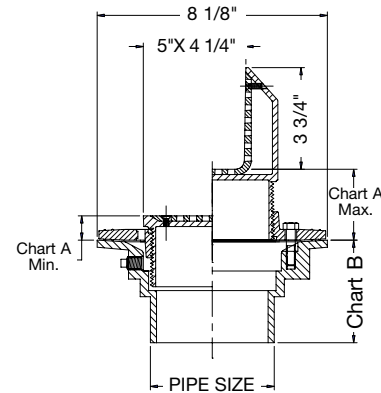
Finished Area Floor Drains

FD-100-AS

Floor Drain with Angle Strainer



| Model Number | Wt., Lbs. | Str. Size | Outlet Size | Strainer | List Price |
|-----------------|-----------|-----------|-------------|---------------|------------|
| FD-102, 3, 4-AS | 15 | 5"x4" | 2,3,4" | nickel bronze | \$3,636.00 |



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

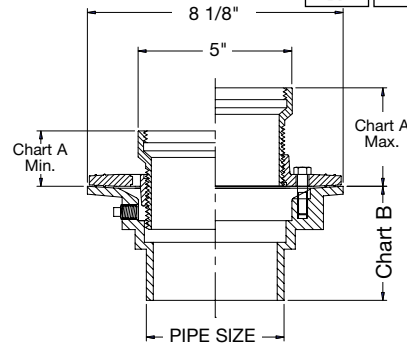
| Chart B | | | | | |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2" | 3 5/8" | 4 1/4" | 4 1/4" | 4 1/2" | 4" |
| 3" | 3 5/8" | 4 1/4" | 4 1/4" | 4 1/2" | 4" |
| 4" | 3 5/8" | 4 1/4" | 4 1/4" | 4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

FD-100-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 | \$845.00 |
| FD-102, 3, 4-DD-1 | 7 | 2,3,4" | nickel bronze | 1,388.00 |



| 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" | - | - | - | - |

Options for FD-100 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--|------------|--------|--|------------|
| None | No Hub Outlet | No Add | -15 | Strainer Extension (DD-50) | \$264.00 |
| P | Push-On Outlet | No Add | -60 | PVC Body w/Socket Outlet (2,3,4" Only) | No Add |
| T | Threaded Outlet | \$151.50 | -61 | ABS Body w/Socket Outlet (2,3,4" Only) | No Add |
| X | Inside Caulk | No Add | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| None | 6" Outlet No Hub Only | 225.50 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -5 | Sediment Bucket | 202.50 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -6 | Vandal Proof | 102.00 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -7 | Trap Primer Tapping | No Add | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -8 | Ball Float Backwater Valve (2,3,4" Only) | 703.50 | -S0 | Side Outlet (2,3,4" Only) | 408.50 |
| -13 | Galvanized Body | 365.50 | | | |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



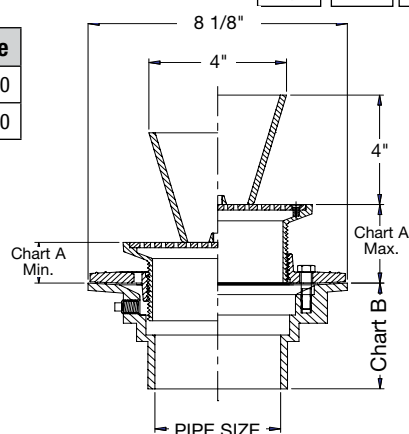
Finished Area Floor Drains

FD-100-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 | \$1,693.00 |
| FD-102, 3, 4-EF-50 | 10 | 5" | 2,3,4" | cast iron | 1,227.00 |



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

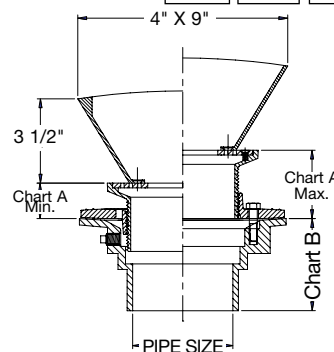
| Chart B | | | | | |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2" | 3 5/8" | 4 1/4" | 4 1/4" | 4 1/2" | 4" |
| 3" | 3 5/8" | 4 1/4" | 4 1/4" | 4 1/2" | 4" |
| 4" | 3 5/8" | 4 1/4" | 4 1/4" | 4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

FD-100-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 | \$2,521.00 |
| FD-102, 3, 4-EG-50 | 10 | 5" | 2,3,4" | cast iron | 1,684.00 |



| 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" | - | - | - | - |

Options for FD-100 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--|------------|--------|--|------------|
| None | No Hub Outlet | No Add | -13 | Galvanized Body | \$365.50 |
| P | Push-On Outlet | No Add | -15 | Strainer Extension (DD-50) | 294.00 |
| T | Threaded Outlet | \$151.50 | -60 | PVC Body w/Socket Outlet (2, 3, 4" Only) | No Add |
| X | Inside Caulk | No Add | -61 | ABS Body w/Socket Outlet (2, 3, 4" Only) | No Add |
| None | 6" Outlet No Hub Only | 225.50 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -5 | Sediment Bucket | 202.50 | -S0 | Side Outlet (2, 3, 4" Only) | 408.50 |
| -6 | Vandal Proof | 102.00 | | | |
| -7 | Trap Primer Tapping | No Add | | | |
| -8 | Ball Float Backwater Valve (2,3,4" Only) | 703.50 | | | |



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

Finished Area Floor Drains

FD-100-ER

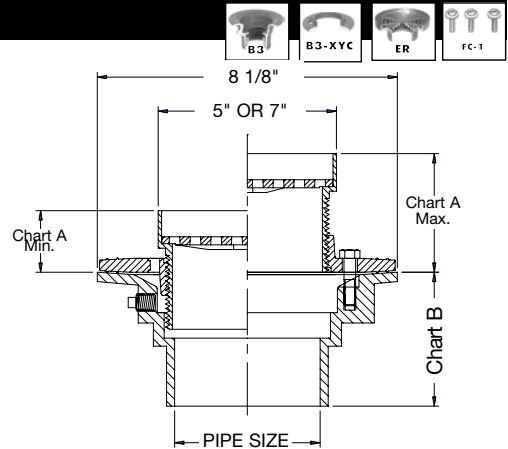
Floor Drain with Extended Rim Strainer

| Model Number | Weight (lbs.) | Str. Size | Outlet Size | Strainer | List Price |
|------------------|---------------|-----------|-------------|---------------|------------|
| FD-102, 3, 4-ER5 | 11 | 5" | 2,3,4" | nickel bronze | \$1,934.00 |
| FD-102, 3, 4-ER7 | 12 | 7" | 2,3,4" | nickel bronze | 2,079.00 |
| FD-102, 3, 4-ER9 | 13 | 9" | 2,3,4" | nickel bronze | 2,914.00 |



| 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-FC

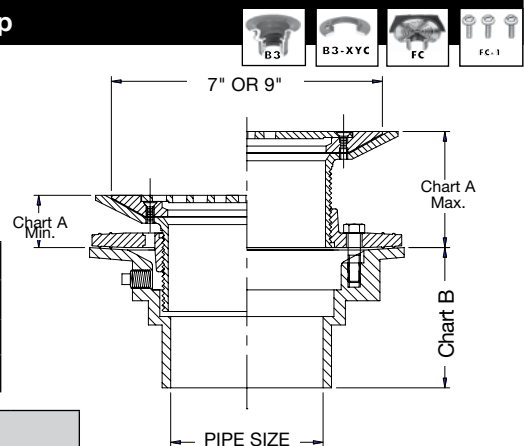
Floor Drain with Surface Membrane Clamp

| Model Number | Weight (lbs.) | Str. Size | Outlet Size | Strainer | List Price |
|------------------|---------------|-----------|-------------|---------------|------------|
| FD-102, 3, 4-FC7 | 15 | 7" | 2,3,4" | nickel bronze | \$2,754.00 |
| FD-102, 3, 4-FC9 | 18 | 9" | 2,3,4" | nickel bronze | 3,770.00 |



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



Options for FD-100 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--|------------|--------|--|------------|
| None | No Hub Outlet | No Add | -15 | Strainer Extension (DD-50) | \$264.00 |
| P | Push-On Outlet | No Add | -60 | PVC Body w/Socket Outlet (2,3,4" Only) | No Add |
| T | Threaded Outlet | \$151.50 | -61 | ABS Body w/Socket Outlet (2,3,4" Only) | No Add |
| X | Inside Caulk | No Add | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| None | 6" Outlet No Hub Only | 225.50 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -5 | Sediment Bucket | 202.50 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -6 | Vandal Proof | 102.00 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -7 | Trap Primer Tapping | No Add | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -8 | Ball Float Backwater Valve (2,3,4" Only) | 703.50 | -S0 | Side Outlet (2,3,4" Only) | 408.50 |
| -13 | Galvanized Body | 365.50 | | | |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



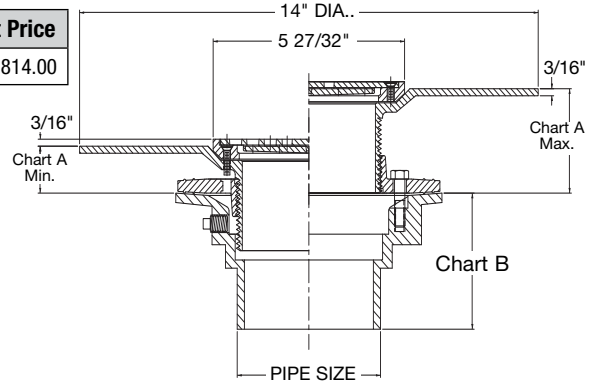
Finished Area Floor Drains

FD-100-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 | \$2,814.00 |



| 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-K

Floor Drain with Dome Strainer

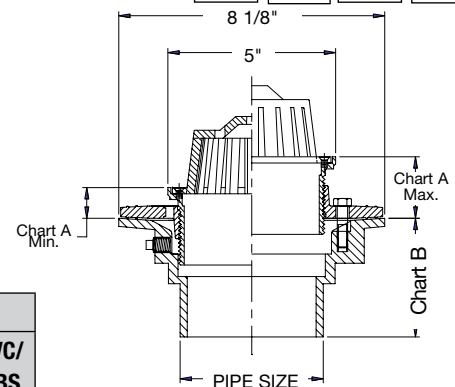


| Model Number | Weight (lbs.) | Str. Size | Outlet Size | Strainer | List Price |
|----------------|---------------|-----------|-------------|---------------|------------|
| FD-102, 3, 4-K | 11 | 5" dome | 2,3,4" | nickel bronze | \$1,266.00 |



| 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" | - | - | - | - |



Options for FD-100 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--|------------|--------|--|------------|
| None | No Hub Outlet | No Add | -15 | Strainer Extension (DD-50) | \$264.00 |
| P | Push-On Outlet | No Add | -60 | PVC Body w/Socket Outlet (2,3,4" Only) | No Add |
| T | Threaded Outlet | \$151.50 | -61 | ABS Body w/Socket Outlet (2,3,4" Only) | No Add |
| X | Inside Caulk | No Add | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| None | 6" Outlet No Hub Only | 225.50 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -5 | Sediment Bucket | 202.50 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -6 | Vandal Proof | 102.00 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -7 | Trap Primer Tapping | No Add | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -8 | Ball Float Backwater Valve (2,3,4" Only) | 703.50 | -S0 | Side Outlet (2,3,4" Only) | 408.50 |
| -13 | Galvanized Body | 365.50 | | | |



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

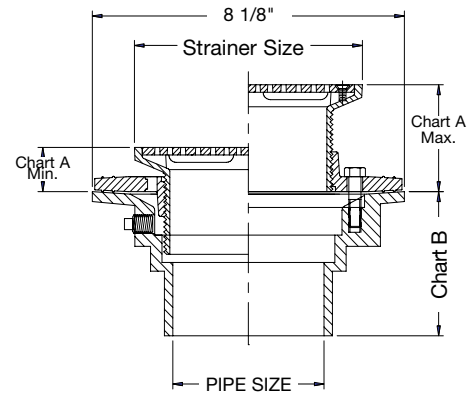
Finished Area Floor Drains

FD-100-L

Floor Drain with Square Heavy Duty Strainer



| Model Number | Weight (lbs.) | Str. Size | Outlet Size | Strainer | List Price |
|-------------------|---------------|-----------|-------------|---------------|------------|
| FD-102, 3, 4-L5 | 10 | 5"x5" | 2, 3, 4" | nickel bronze | \$1,394.00 |
| FD-102, 3, 4-L5-4 | 11 | 5"x5" | 2, 3, 4" | ductile iron | 940.50 |
| FD-102, 3, 4-L6 | 14 | 6"x6" | 2, 3, 4" | nickel bronze | 1,639.00 |
| FD-102, 3, 4-L6-9 | 14 | 6"x6" | 2, 3, 4" | NB hinged | 2,151.00 |
| FD-102, 3, 4-L8 | 16 | 8"x8" | 2, 3, 4" | nickel bronze | 2,306.00 |
| FD-102, 3, 4-L8-9 | 16 | 8"x8" | 2, 3, 4" | NB hinged | 2,819.00 |



| 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" |

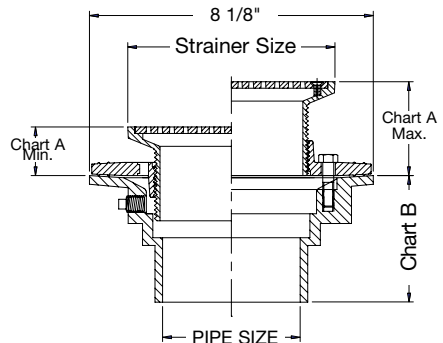
| Chart B | | | | | |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2" | 3 5/8" | 4 1/4" | 4 1/4" | 4 1/2" | 4" |
| 3" | 3 5/8" | 4 1/4" | 4 1/4" | 4 1/2" | 4" |
| 4" | 3 5/8" | 4 1/4" | 4 1/4" | 4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

FD-100-M

Floor Drain with Square Strainer



| Model Number | Weight (lbs.) | Str. Size | Outlet Size | Strainer | List Price |
|-------------------|---------------|-----------|-------------|---------------|------------|
| FD-102, 3, 4-M5 | 10 | 5"x5" | 2, 3, 4" | nickel bronze | \$1,197.00 |
| FD-102, 3, 4-M6 | 14 | 6"x6" | 2, 3, 4" | nickel bronze | 1,334.00 |
| FD-102, 3, 4-M6-9 | 14 | 6"x6" | 2, 3, 4" | NB hinged | 1,850.00 |
| FD-102, 3, 4-M8 | 16 | 8"x8" | 2, 3, 4" | nickel bronze | 1,940.00 |
| FD-102, 3, 4-M8-9 | 16 | 8"x8" | 2, 3, 4" | NB hinged | 2,451.00 |



| 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" |

| 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) | \$264.00 |
| P | Push-On Outlet | No Add | -60 | PVC Body w/Socket Outlet (2,3,4" Only) | No Add |
| T | Threaded Outlet | \$151.50 | -61 | ABS Body w/Socket Outlet (2,3,4" Only) | No Add |
| X | Inside Caulk | No Add | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| None | 6" Outlet No Hub Only | 225.50 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -5 | Sediment Bucket | 202.50 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -6 | Vandal Proof | 102.00 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -7 | Trap Primer Tapping | No Add | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -8 | Ball Float Backwater Valve (2,3,4" Only) | 703.50 | -S0 | Side Outlet (2,3,4" Only) | 408.50 |
| -13 | Galvanized Body | 365.50 | | | |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



Finished Area Floor Drains

FD-100-RS

Floor Drain with Rectangular Strainer

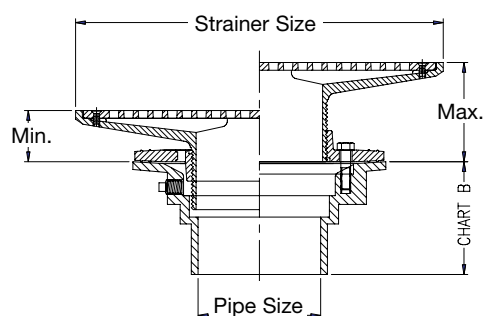


| Model Number | Weight (lbs.) | Str. Size | Outlet Size | Strainer | List Price |
|--------------------|---------------|-----------|-------------|---------------|------------|
| FD-102, 3, 4-RS48 | 12 | 4"x8" | 2, 3, 4" | nickel bronze | \$1,966.00 |
| FD-102, 3, 4-RS412 | 14 | 4"x12" | 2, 3, 4" | nickel bronze | 2,374.00 |
| FD-102, 3, 4-RS517 | 24 | 5"x17" | 2, 3, 4" | nickel bronze | 2,838.00 |



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



FD-100-VD

Floor Drain with Round Hinged Solid Cover

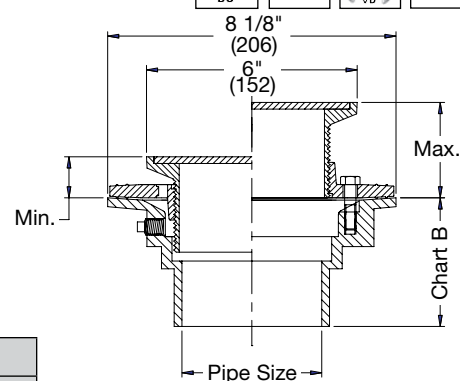


| Model Number | Weight (lbs.) | Str. Size | Outlet Size | Strainer | List Price |
|-----------------|---------------|-----------|-------------|---------------|------------|
| FD-102, 3, 4-VD | 15 | 6" | 2,3,4" | nickel bronze | \$1,617.00 |



| 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" | - | - | - | - |



Options for FD-100 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|---|------------|--------|---|------------|
| None | No Hub Outlet | No Add | -15 | Strainer Extension (DD-50) | \$264.00 |
| P | Push-On Outlet | No Add | -60 | PVC Body w/Socket Outlet (2,3,4\" Only) | No Add |
| T | Threaded Outlet | \$151.50 | -61 | ABS Body w/Socket Outlet (2,3,4\" Only) | No Add |
| X | Inside Caulk | No Add | -F4-50 | 4\" Round Cast Iron Funnel | 335.00 |
| None | 6\" Outlet No Hub Only | 225.50 | -F4-1 | 4\" Round Nickel Bronze Funnel | 797.00 |
| -5 | Sediment Bucket | 202.50 | -F6-1 | 6\" Round Nickel Bronze Funnel | 1,165.00 |
| -6 | Vandal Proof | 102.00 | -G-50 | 4x9\" Oval Cast Iron Funnel | 788.50 |
| -7 | Trap Primer Tapping | No Add | -G-1 | 4x9\" Oval Nickel Bronze Funnel | 1,627.00 |
| -8 | Ball Float Backwater Valve (2,3,4\" Only) | 703.50 | -S0 | Side Outlet (2,3,4\" Only) | 408.50 |
| -13 | Galvanized Body | 365.50 | | | |



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Finished Area Floor Drains

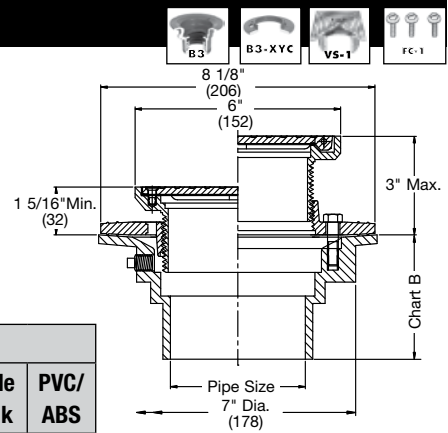
FD-100-VS

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"x6 Cover" | 2, 3, 4" | nickel bronze | \$2,306.00 |



| 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" | - | - | - | - |



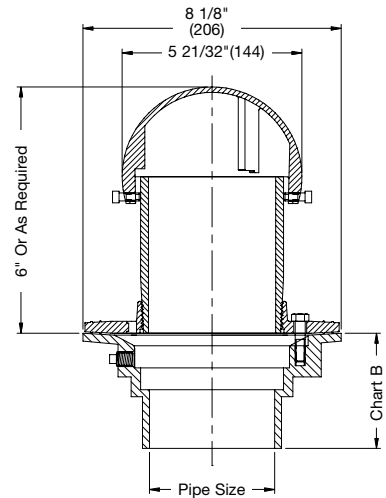
FD-100-WD

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" | \$2,156.00 |



| 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) | \$264.00 |
| P | Push-On Outlet | No Add | -60 | PVC Body w/Socket Outlet (2,3,4" Only) | No Add |
| T | Threaded Outlet | \$151.50 | -61 | ABS Body w/Socket Outlet (2,3,4" Only) | No Add |
| X | Inside Caulk | No Add | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| None | 6" Outlet No Hub Only | 225.50 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -5 | Sediment Bucket | 202.50 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -6 | Vandal Proof | 102.00 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -7 | Trap Primer Tapping | No Add | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -8 | Ball Float Backwater Valve (2,3,4" Only) | 703.50 | -S0 | Side Outlet (2,3,4" Only) | 408.50 |
| -13 | Galvanized Body | 365.50 | | | |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



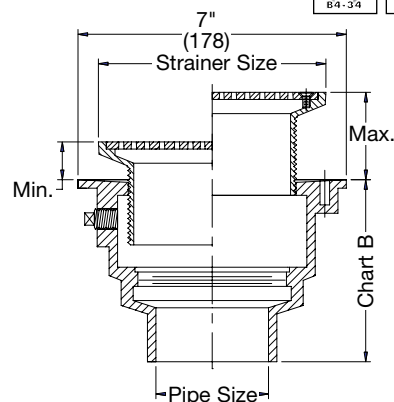
On-Grade Finished Area Floor Drains

FD-200-A

Floor Drain with Round Strainer



| Model Number | Weight (lbs.) | Str. Size | Outlet Size | Strainer | List Price |
|------------------|---------------|-----------|-------------|---------------|------------|
| FD-202, 3, 4-A5 | 8 | 5" | 2, 3, 4" | nickel bronze | \$800.00 |
| FD-202, 3, 4-A6 | 9.5 | 6" | 2, 3, 4" | nickel bronze | 980.50 |
| FD-202, 3, 4-A7 | 12 | 7" | 2, 3, 4" | nickel bronze | 1,149.00 |
| FD-202, 3, 4-A8 | 16 | 8" | 2, 3, 4" | nickel bronze | 1,739.00 |
| FD-202, 3, 4-A10 | 20 | 10" | 2, 3, 4" | nickel bronze | 2,173.00 |



| 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" |

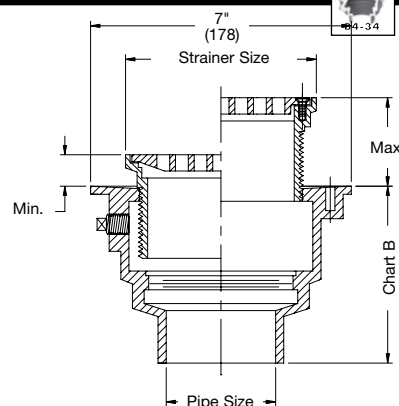
| Chart B | | | |
|-----------|--------|---------|---------|
| Pipe Size | No Hub | Push On | PVC/ABS |
| 2" | 4 3/4" | 5 1/2" | 4" |
| 3" | 4 3/4" | 5 1/2" | 4" |
| 4" | 4 3/4" | 5 1/2" | 4" |

FD-200-B

Floor Drain with Round Heavy Duty Strainer



| Model Number | Weight (lbs.) | Str. Size | Outlet Size | Strainer | List Price |
|-------------------|---------------|-----------|-------------|---------------|------------|
| FD-202, 3, 4-B5-4 | 13 | 5" | 2, 3, 4" | ductile iron | \$773.00 |
| FD-202, 3, 4-B5 | 8 | 5" | 2, 3, 4" | nickel bronze | 988.00 |
| FD-202, 3, 4-B6 | 9.5 | 6" | 2, 3, 4" | nickel bronze | 1,365.00 |
| FD-202, 3, 4-B8 | 16 | 8" | 2, 3, 4" | nickel bronze | 1,850.00 |
| FD-202, 3, 4-B10 | 20 | 10" | 2, 3, 4" | nickel bronze | 2,975.00 |



| 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" |

Options for FD-200 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--|------------|--------|--------------------------------|------------|
| None | No Hub Outlet | No Add | -15 | Strainer Extension (DD-50) | \$264.00 |
| P | Push-On Outlet | No Add | -60 | PVC Body w/Socket Outlet | No Add |
| X | Inside Caulk | No Add | -61 | ABS Body w/Socket Outlet | No Add |
| -5 | Sediment Bucket | \$202.50 | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| -6 | Vandal Proof | 102.00 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -7 | Trap Primer Tapping | No Add | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -8 | Ball Float Backwater Valve (2,3,4" Only) | 703.50 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -13 | Galvanized Body | 365.50 | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |



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 | \$975.50 |
| FD-292, 3, 4-PR6 | 15 | 6"(152) | 2, 3, 4" | nickel bronze | 1,177.00 |
| FD-292, 3, 4-PR7 | 17 | 7"(178) | 2, 3, 4" | nickel bronze | 1,474.00 |
| FD-292, 3, 4-PR8 | 20 | 8"(203) | 2, 3, 4" | nickel bronze | 1,847.00 |



PATENTED

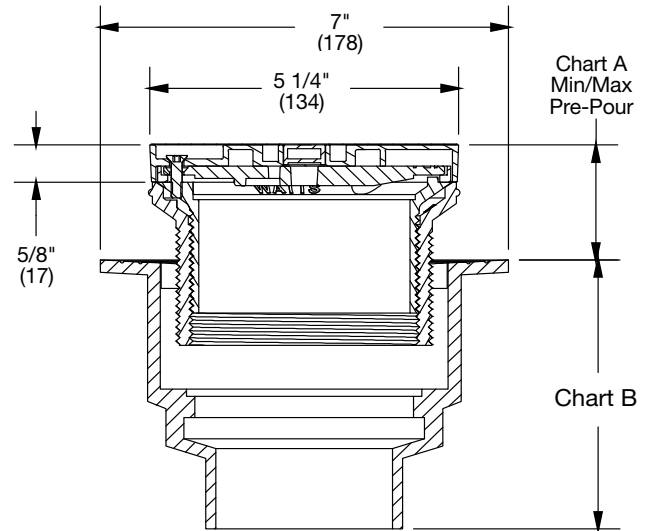


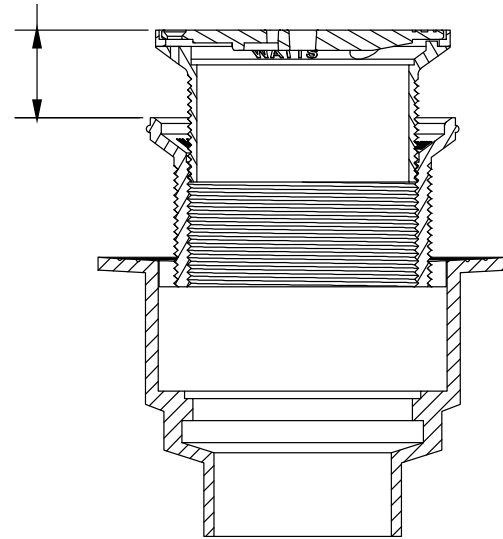
Chart A

| 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



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) | \$264.00 |
| P | Push-On Outlet | No Add | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| T | Threaded Outlet | \$151.50 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| X | Inside Caulk | No Add | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| None | 6" Outlet No Hub Only | 225.50 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -7 | Trap Primer Tapping | No Add | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -8 | Ball Float Backwater Valve (2, 3, 4" Only) | 703.50 | | | |
| -13 | Galvanized Body | 365.50 | | | |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

WATTS®

Adjustable Floor Drains

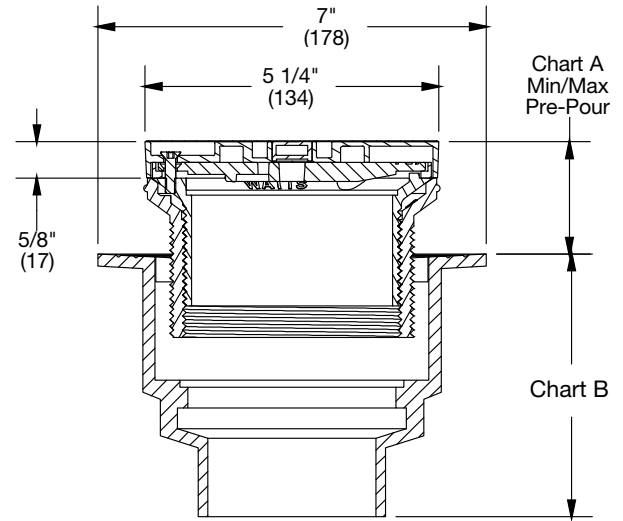
FD-290-PR-60

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 | \$553.50 |
| FD-292, 3, 4-PR6-60 | 5 | 6"(152) | 2, 3, 4" | nickel bronze | 801.50 |
| FD-292, 3, 4-PR7-60 | 6 | 7"(178) | 2, 3, 4" | nickel bronze | 948.50 |
| FD-292, 3, 4-PR8-60 | 7 | 8"(203) | 2, 3, 4" | nickel bronze | 1,029.00 |



PATENTED



0-7/8" Adj.
Post-Pour

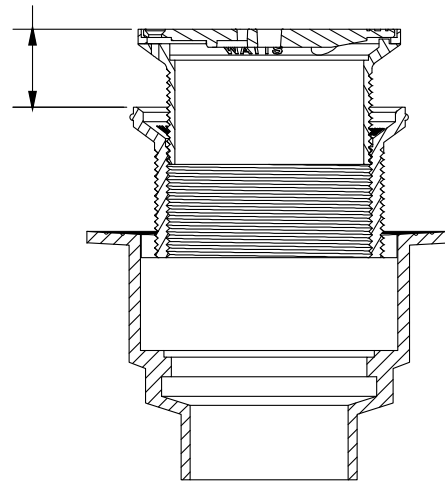


Chart A

| 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) |

Options for FD-290-PR-60 Series

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|-------------------------------|------------|--------|--------------------------------|------------|
| -7 | Trap Primer Tapping | No Add | -G-1 | 4x9" Oval Nickel Bronze Funnel | \$1,627.00 |
| -8 | Ball Float Backwater Valve | \$703.50 | | | |
| -61 | ABS Body w/Socket Outlet | 189.50 | | | |
| -F4-50 | 4" Round Cast Iron Funnel | 335.00 | | | |
| F4-1 | 4" Round Nickel Bronze Funnel | 797.00 | | | |
| -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 | | | |
| -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 | | | |
| -15 | Strainer Extension (DD-50) | 264.00 | | | |



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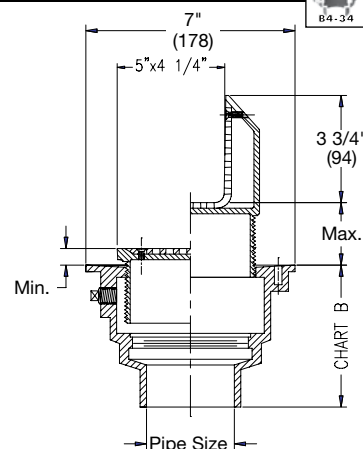
On-Grade Finished Area Floor Drains

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"x4" | 2, 3, 4" | nickel bronze | \$3,519.00 |



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

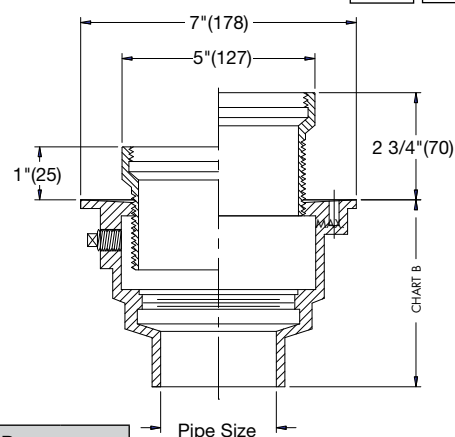
| Chart B | | | |
|-----------|--------|---------|----------|
| Pipe Size | No Hub | Push On | PVC/ ABS |
| 2" | 4 3/4" | 5 1/2" | 4" |
| 3" | 4 3/4" | 5 1/2" | 4" |
| 4" | 4 3/4" | 5 1/2" | 4" |

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 | \$728.00 |
| FD-202, 3, 4-DD-1 | 7 | N/A | 2, 3, 4" | nickel bronze | 1,271.00 |



| 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" |

Options for FD-200 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--|------------|--------|--------------------------------|------------|
| None | No Hub Outlet | No Add | -15 | Strainer Extension (DD-50) | \$264.00 |
| P | Push-On Outlet | No Add | -60 | PVC Body w/Socket Outlet | No Add |
| X | Inside Caulk | No Add | -61 | ABS Body w/Socket Outlet | No Add |
| -5 | Sediment Bucket | \$202.50 | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| -6 | Vandal Proof | 102.00 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -7 | Trap Primer Tapping | No Add | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -8 | Ball Float Backwater Valve (2,3,4" Only) | 703.50 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -13 | Galvanized Body | 365.50 | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |

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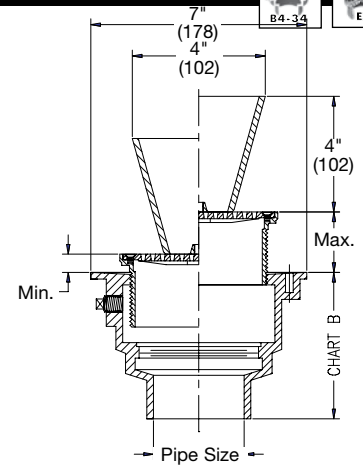
On-Grade Finished Area Floor Drains

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 | \$1,576.00 |
| FD-202, 3, 4-EF-50 | 10 | 5" | 2, 3, 4" | nickel bronze | 1,111.00 |



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

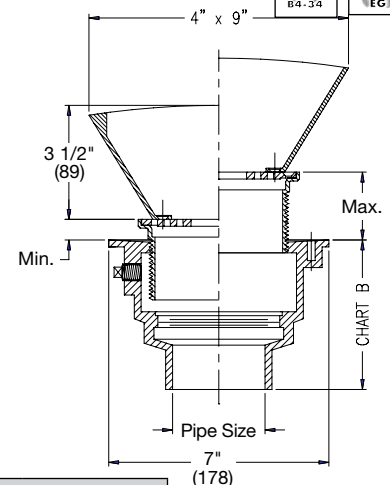
| Chart B | | | |
|-----------|--------|---------|---------|
| Pipe Size | No Hub | Push On | PVC/ABS |
| 2" | 4 3/4" | 5 1/2" | 4" |
| 3" | 4 3/4" | 5 1/2" | 4" |
| 4" | 4 3/4" | 5 1/2" | 4" |

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 | \$2,403.00 |
| FD-202, 3, 4-EG-50 | 10 | 5" | 2, 3, 4" | cast iron | 1,570.00 |



| 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" |

Options for FD-200 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--|------------|--------|-------------------------------|------------|
| None | No Hub Outlet | No Add | -15 | Strainer Extension (DD-50) | \$264.00 |
| P | Push-On Outlet | No Add | -60 | PVC Body w/Socket Outlet | No Add |
| X | Inside Caulk | No Add | -61 | ABS Body w/Socket Outlet | No Add |
| -5 | Sediment Bucket | \$202.50 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -6 | Vandal Proof | 102.00 | | | |
| -7 | Trap Primer Tapping | No Add | | | |
| -8 | Ball Float Backwater Valve (2,3,4" Only) | 703.50 | | | |
| -13 | Galvanized Body | 365.50 | | | |



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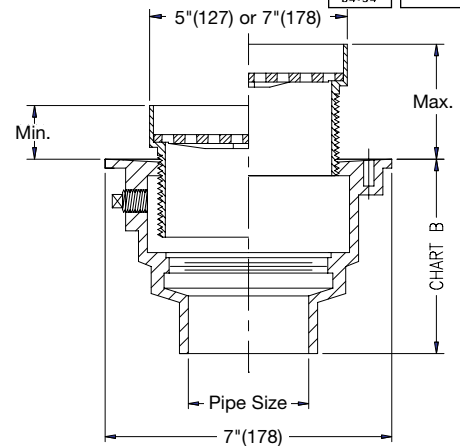
On-Grade Finished Area Floor Drains

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 | \$1,817.00 |
| FD-202, 3, 4-ER7 | 12 | 7" | 2, 3, 4" | nickel bronze | 1,961.00 |
| FD-202, 3, 4, ER9 | 13 | 9" | 2, 3, 4" | nickel bronze | 2,500.00 |



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

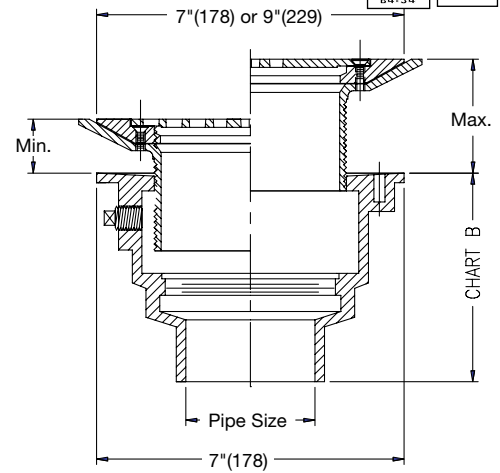
| Chart B | | | |
|-----------|--------|---------|---------|
| Pipe Size | No Hub | Push On | PVC/ABS |
| 2" | 4 3/4" | 5 1/2" | 4" |
| 3" | 4 3/4" | 5 1/2" | 4" |
| 4" | 4 3/4" | 5 1/2" | 4" |

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 | \$2,635.00 |
| FD-202, 3, 4-FC9 | 16 | 9" | 2, 3, 4" | nickel bronze | 3,653.00 |



| 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" |

Options for FD-200 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--|------------|--------|--------------------------------|------------|
| None | No Hub Outlet | No Add | -15 | Strainer Extension (DD-50) | \$264.00 |
| P | Push-On Outlet | No Add | -60 | PVC Body w/Socket Outlet | No Add |
| X | Inside Caulk | No Add | -61 | ABS Body w/Socket Outlet | No Add |
| -5 | Sediment Bucket | \$202.50 | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| -6 | Vandal Proof | 102.00 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -7 | Trap Primer Tapping | No Add | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -8 | Ball Float Backwater Valve (2,3,4" Only) | 703.50 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -13 | Galvanized Body | 365.50 | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |

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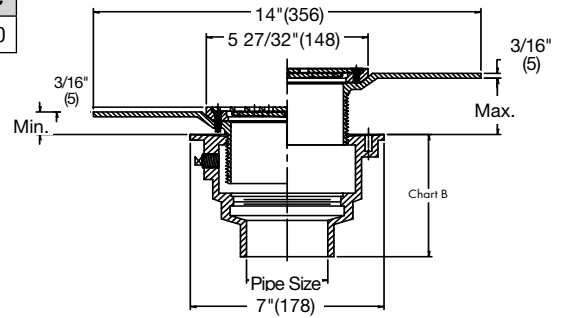
On-Grade Finished Area Floor Drains

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 | \$2,752.00 |



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

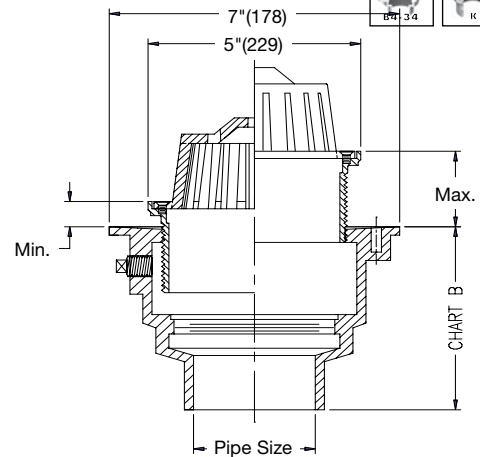
| Chart B | | | |
|-----------|--------|---------|---------|
| Pipe Size | No Hub | Push On | PVC/ABS |
| 2" | 4 3/4" | 5 1/2" | 4" |
| 3" | 4 3/4" | 5 1/2" | 4" |
| 4" | 4 3/4" | 5 1/2" | 4" |

FD-200-K

Floor Drain with Dome Strainer



| Model Number | Weight (lbs.) | Str. Size | Outlet Size | Strainer | List Price |
|----------------|---------------|-----------|-------------|---------------|------------|
| FD-202, 3, 4-K | 11 | 5" dome | 2, 3, 4" | nickel bronze | \$1,149.00 |



| 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" |

Options for FD-200 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--|------------|--------|--------------------------------|------------|
| None | No Hub Outlet | No Add | -15 | Strainer Extension (DD-50) | \$ 264.00 |
| P | Push-On Outlet | No Add | -60 | PVC Body w/Socket Outlet | No Add |
| X | Inside Caulk | No Add | -61 | ABS Body w/Socket Outlet | No Add |
| -5 | Sediment Bucket | \$ 202.50 | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| -6 | Vandal Proof | 102.00 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -7 | Trap Primer Tapping | No Add | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -8 | Ball Float Backwater Valve (2,3,4" Only) | 703.50 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -13 | Galvanized Body | 365.50 | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |



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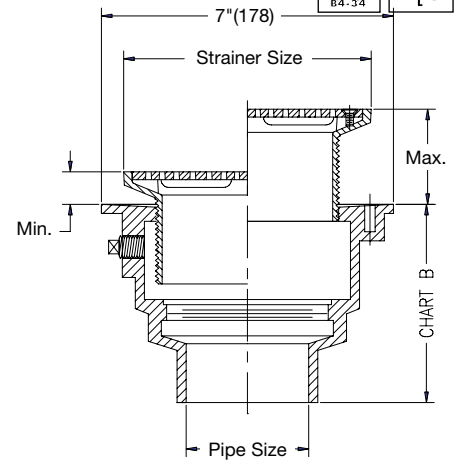
On-Grade Finished Area Floor Drains

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 | \$1,278.00 |
| FD-202, 3, 4-L5-4 | 11 | 5" Sq. | 2, 3, 4" | ductile iron | 826.00 |
| FD-202, 3, 4-L6 | 14 | 6" Sq. | 2, 3, 4" | nickel bronze | 1,523.00 |
| FD-202, 3, 4-L6-9 | 14 | 6" Sq. | 2, 3, 4" | NB hinged | 2,036.00 |
| FD-202, 3, 4-L8 | 16 | 8" Sq. | 2, 3, 4" | nickel bronze | 1,989.00 |
| FD-202, 3, 4-L8-9 | 16 | 8" Sq. | 2, 3, 4" | NB hinged | 2,702.00 |

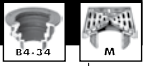


| Chart A | | |
|---------------|--------|---------|
| Strainer Dia. | Min. | Max. |
| 5"x5" | 1 1/2" | 2 5/16" |
| 6"x6" | 1 1/2" | 2 5/16" |
| 8"x8" | 1 1/2" | 2 3/4" |

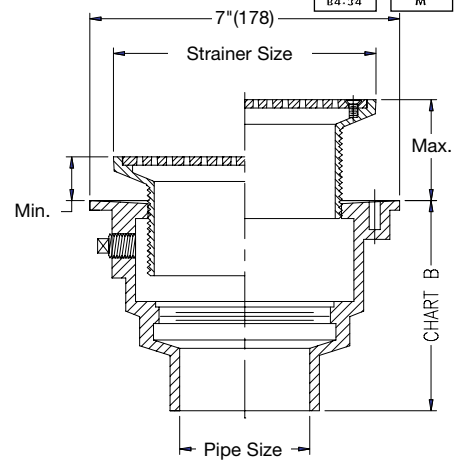
| Chart B | | | |
|-----------|--------|---------|---------|
| Pipe Size | No Hub | Push On | PVC/ABS |
| 2" | 4 3/4" | 5 1/2" | 4" |
| 3" | 4 3/4" | 5 1/2" | 4" |
| 4" | 4 3/4" | 5 1/2" | 4" |

FD-200-M

Floor Drain with Square Strainer



| Model Number | Weight (lbs.) | Str. Size | Outlet Size | Strainer | List Price |
|-------------------|---------------|-----------|-------------|---------------|------------|
| FD-202, 3, 4-M5 | 10 | 5" Sq. | 2, 3, 4" | nickel bronze | \$1,197.00 |
| FD-202, 3, 4-M6 | 14 | 6" Sq. | 2, 3, 4" | nickel bronze | 1,334.00 |
| FD-202, 3, 4-M6-9 | 14 | 6" Sq. | 2, 3, 4" | NB hinged | 1,505.00 |
| FD-202, 3, 4-M8 | 16 | 8" Sq. | 2, 3, 4" | nickel bronze | 1,940.00 |
| FD-202, 3, 4-M8-9 | 16 | 8" Sq. | 2, 3, 4" | NB hinged | 2,451.00 |



| Chart A | | |
|---------------|--------|---------|
| Strainer Dia. | Min. | Max. |
| 5"x5" | 1 1/2" | 2 5/16" |
| 6"x6" | 1 1/2" | 2 5/16" |
| 8"x8" | 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" |

Options for FD-200 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--|------------|--------|--------------------------------|------------|
| None | No Hub Outlet | No Add | -15 | Strainer Extension (DD-50) | \$264.00 |
| P | Push-On Outlet | No Add | -60 | PVC Body w/Socket Outlet | No Add |
| X | Inside Caulk | No Add | -61 | ABS Body w/Socket Outlet | No Add |
| -5 | Sediment Bucket | \$202.50 | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| -6 | Vandal Proof | 102.00 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -7 | Trap Primer Tapping | No Add | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -8 | Ball Float Backwater Valve (2,3,4" Only) | 703.50 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -13 | Galvanized Body | 365.50 | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |

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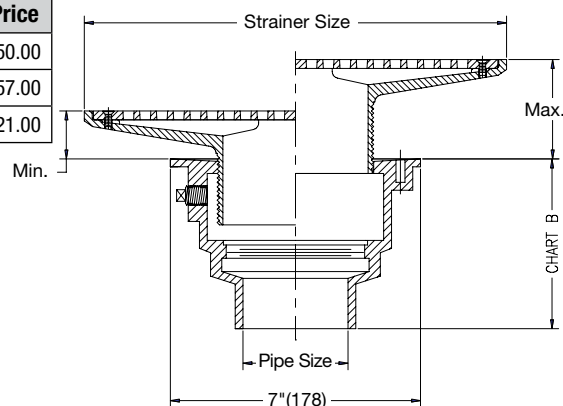
On-Grade Finished Area Floor Drains

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"x8" | 2, 3, 4" | nickel bronze | \$1,850.00 |
| FD-202, 3, 4-RS412 | 14 | 4"x12" | 2, 3, 4" | nickel bronze | 2,257.00 |
| FD-202, 3, 4-RS517 | 24 | 5"x17" | 2, 3, 4" | nickel bronze | 2,721.00 |



| 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" |

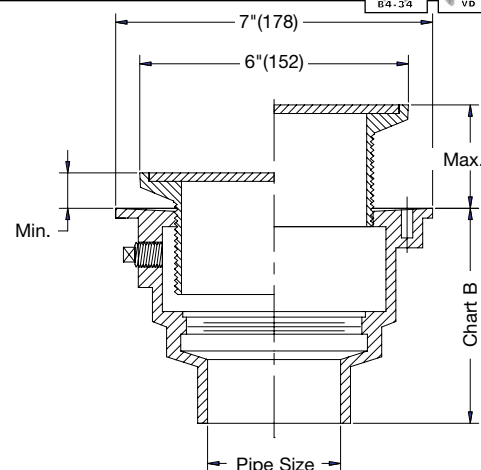
| Chart B | | | |
|-----------|--------|---------|---------|
| Pipe Size | No Hub | Push On | PVC/ABS |
| 2" | 4 3/4" | 5 1/2" | 4" |
| 3" | 4 3/4" | 5 1/2" | 4" |
| 4" | 4 3/4" | 5 1/2" | 4" |

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 | \$1,499.00 |



| 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" |

Options for FD-200 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--|------------|--------|--------------------------------|------------|
| None | No Hub Outlet | No Add | -15 | Strainer Extension (DD-50) | \$264.00 |
| P | Push-On Outlet | No Add | -60 | PVC Body w/Socket Outlet | No Add |
| X | Inside Caulk | No Add | -61 | ABS Body w/Socket Outlet | No Add |
| -5 | Sediment Bucket | \$202.50 | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| -6 | Vandal Proof | 102.00 | -F4-1 | 4" Round Nickel Bronze Funnel | 885.50 |
| -7 | Trap Primer Tapping | No Add | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -8 | Ball Float Backwater Valve (2,3,4" Only) | 703.50 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -13 | Galvanized Body | 365.50 | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |



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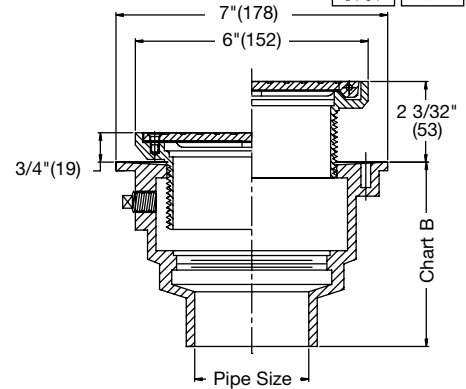
On-Grade Finished Area Floor Drains

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"x6" | 2, 3, 4" | nickel bronze | \$2,188.00 |



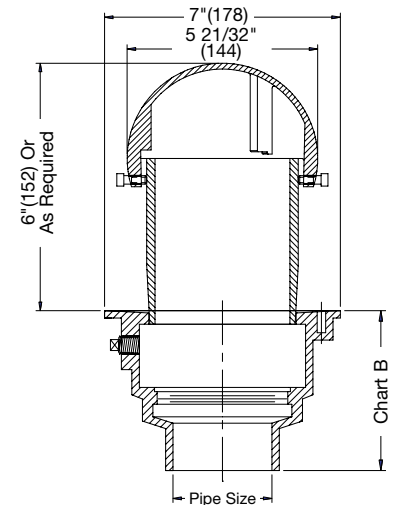
| Chart B | | | |
|-----------|--------|---------|---------|
| Pipe Size | No Hub | Push On | PVC/ABS |
| 2" | 4 3/4" | 5 1/2" | 4" |
| 3" | 4 3/4" | 5 1/2" | 4" |
| 4" | 4 3/4" | 5 1/2" | 4" |

FD-200-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" | \$1,924.00 |



| 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" |

Options for FD-200 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--|------------|--------|--------------------------------|------------|
| None | No Hub Outlet | No Add | -15 | Strainer Extension (DD-50) | \$264.00 |
| P | Push-On Outlet | No Add | -60 | PVC Body w/Socket Outlet | No Add |
| X | Inside Caulk | No Add | -61 | ABS Body w/Socket Outlet | No Add |
| -5 | Sediment Bucket | \$202.50 | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| -6 | Vandal Proof | 102.00 | -F4-1 | 4" Round Nickel Bronze Funnel | 885.50 |
| -7 | Trap Primer Tapping | No Add | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -8 | Ball Float Backwater Valve (2,3,4" Only) | 703.50 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -13 | Galvanized Body | 365.50 | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |

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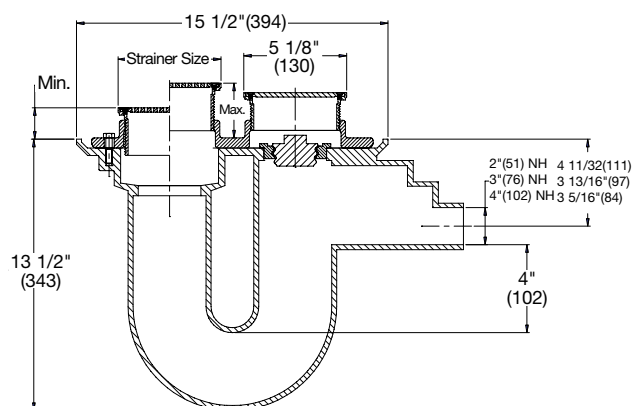


On-Grade Finished Area Floor Drains

FD-230-A

Combined Floor Drain/Cleanout with Integral Trap

| Model Number | Weight (lbs.) | Str. Size | Outlet Size | Strainer | List Price |
|-----------------|---------------|-----------|-------------|---------------|------------|
| FD-232, 3, 4-A5 | 57 | 5" | 2, 3, 4" | nickel bronze | \$3,303.00 |
| FD-232, 3, 4-A6 | 58 | 6" | 2, 3, 4" | nickel bronze | 3,507.00 |
| FD-232, 3, 4-A7 | 60 | 7" | 2, 3, 4" | nickel bronze | 3,692.00 |
| FD-232, 3, 4-M5 | 60 | 5" | 2, 3, 4" | nickel bronze | 3,443.00 |
| FD-232, 3, 4-M6 | 60 | 6" | 2, 3, 4" | nickel bronze | 3,360.00 |



| 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 11/16" | 3 1/4" |
| 5" Sq. | 7/8" | 3 1/4" |
| 6" Sq. | 1" | 3 1/4" |

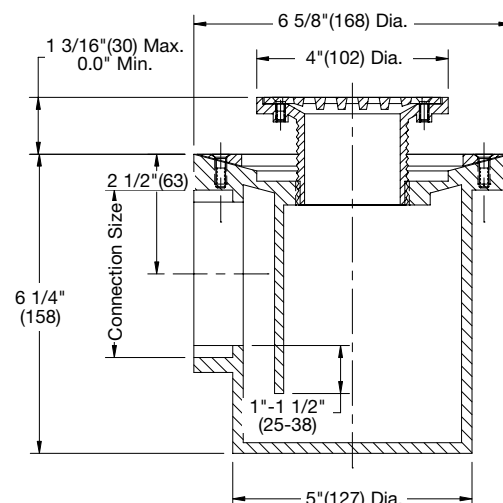
Options for FD-230 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|-------------------------------|------------|--------|--------------------------------|-------------|
| -7 | Trap Primer Tapping | \$281.50 | -F6-1 | 6" Round Nickel Bronze Funnel | \$ 1,165.00 |
| -15 | Strainer Extension (DD-50) | 264.00 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -F4-50 | 4" Round Cast Iron Funnel | 335.00 | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 | | | |

FD-240

Prison Cell Floor Drain

| Model Number | Weight (lbs.) | Str. Size | Outlet Size | Strainer | List Price |
|--------------|---------------|-----------|-------------|---------------|------------|
| FD-242 | 15 | 4" | 2" | nickel bronze | \$1,873.00 |
| FD-243 | 14 | 4" | 3" | nickel bronze | 2,090.00 |



Options for FD-240 Series

| Suffix | Description | List Price |
|--------|---------------------|------------|
| -7 | Trap Primer Tapping | \$282.00 |
| -CP | Chrome Plated Top | 483.00 |



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

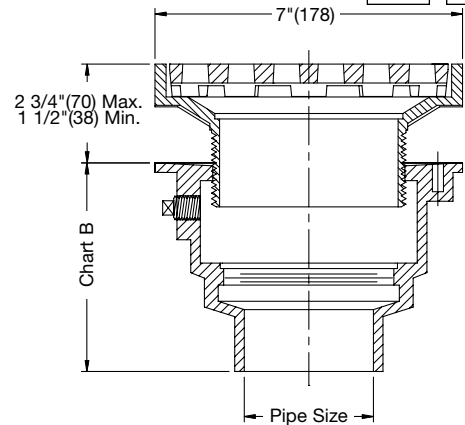
Area Drains

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 | \$878.00 |
| FD-302, 3, 4-1 | 18 | 7" | 2,3,4" | nickel bronze | 1,958.00 |



Options for FD-300 Series

| Suffix | Description | List Price |
|--------|----------------|------------|
| -C | Membrane Clamp | \$247.00 |

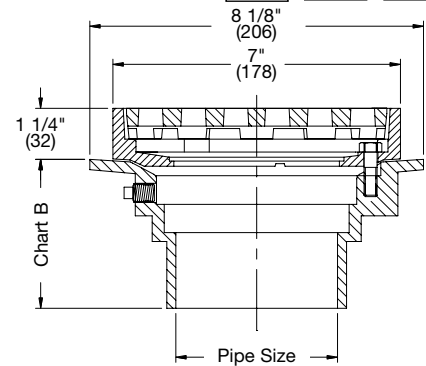
| Chart B | | | |
|-----------|--------|---------|---------|
| Pipe Size | No Hub | Push On | PVC/ABS |
| 2" | 4 3/4" | 5 1/2" | 4" |
| 3" | 4 3/4" | 5 1/2" | 4" |
| 4" | 4 3/4" | 5 1/2" | 4" |

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 | \$814.00 |
| FD-312, 3, 4-1 | 18 | 7" | 2,3,4" | nickel bronze | 1,951.00 |



| 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-300, 310, 320, 330 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|---|------------|--------|--|------------|
| None | No Hub | No Add | -34 | Closure Plug | \$227.50 |
| P | Push-On | No Add | -60 | PVC Body w/Socket Outlet (2,3,4" only) | No Add |
| T | Threaded Outlet | \$151.50 | -61 | ABS Body w/Socket Outlet (2,3,4" only) | No Add |
| X | Inside Caulk Outlet | No Add | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| None | 6" Outlet - No Hub Only | 225.50 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -5 | Sediment Bucket | 225.00 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -6 | Vandal Proof | 275.00 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -7 | Trap Primer Tapping | No Add | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -8 | Ball Float Backwater Valve (2,3,4" Only) | 703.50 | -S0 | Side Outlet (2, 3, 4" only) | 408.50 |
| -13 | All Galvanized (unless other top specified) | 792.50 | | | |
| -21 | Secondary Strainer | 127.50 | | | |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



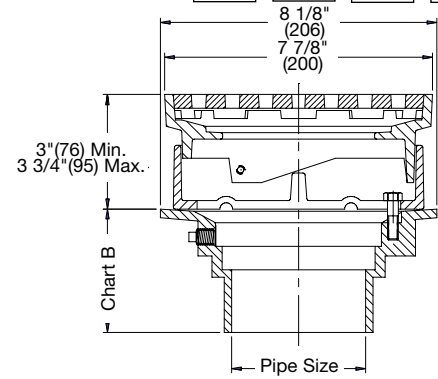
Area Drains

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 | \$1,325.00 |
| FD-322, 3, 4-1 | 20 | 8" | 2, 3, 4" | nickel bronze | 2,331.00 |

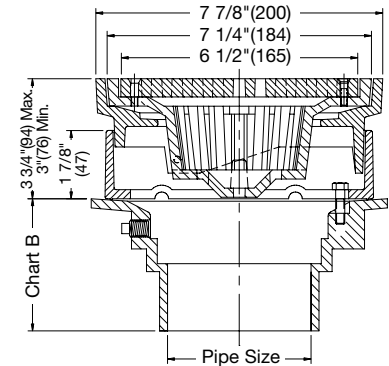


| Chart B | | | | | |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2" | 3 5/8" | 3 5/8" | 4 1/4" | 4 1/4" | 2 3/4" |
| 3" | 3 5/8" | 4" | 4 1/4" | 4 1/4" | 3 5/8" |
| 4" | 3 5/8" | 4" | 4 1/4" | 4 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 | \$1,545.00 |
| FD-322, 3, 4-Set-1 | 19 | 8" | 2, 3, 4" | nickel bronze | 3,594.00 |



| 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-300, 310, 320, 330 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|---|------------|--------|--|------------|
| None | No Hub | No Add | -34 | Closure Plug | \$227.50 |
| P | Push-On | No Add | -60 | PVC Body w/Socket Outlet (2,3,4" only) | No Add |
| T | Threaded Outlet | \$151.50 | -61 | ABS Body w/Socket Outlet (2,3,4" only) | No Add |
| X | Inside Caulk Outlet | No Add | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| None | 6" Outlet - No Hub Only | 225.50 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -5 | Sediment Bucket | 259.00 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -6 | Vandal Proof | 275.00 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -7 | Trap Primer Tapping | No Add | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -8 | Ball Float Backwater Valve (2,3,4" Only) | 703.50 | -S0 | Side Outlet (2, 3, 4" only) | 408.50 |
| -13 | All Galvanized (unless other top specified) | 792.50 | | | |
| -21 | Secondary Strainer | 127.50 | | | |



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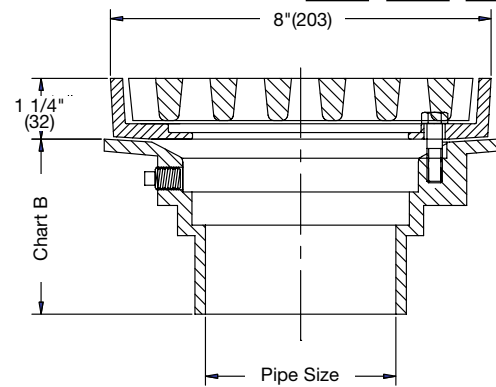
Area Drains

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 | \$946.50 |
| FD-322, 3, 4-Y-1 | 20 | 8" | 2, 3, 4" | nickel bronze | 2,045.00 |



| 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" | - | - | - | - |

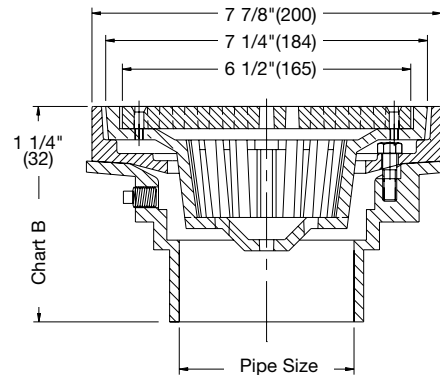
Options for FD-320-Y Series

| Suffix | Description | List Price |
|--------|--|------------|
| -5SS | Type 304 Stainless Steel Sediment Bucket | 641.50 |
| -28 | All Type 304 Stainless Steel | 1,823.00 |

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 | \$1,114.00 |
| FD-322, 3, 4-Y-SET-1 | 19 | 8" | 2, 3, 4" | nickel bronze | 2,719.00 |



| 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-300, 310, 320, 330 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|---|------------|--------|--|------------|
| None | No Hub | No Add | -34 | Closure Plug | \$227.50 |
| P | Push-On | No Add | -60 | PVC Body w/Socket Outlet (2,3,4" only) | No Add |
| T | Threaded Outlet | \$151.50 | -61 | ABS Body w/Socket Outlet (2,3,4" only) | No Add |
| X | Inside Caulk Outlet | No Add | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| None | 6" Outlet - No Hub Only | 225.50 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -5 | Sediment Bucket | 259.00 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -6 | Vandal Proof | 275.00 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -7 | Trap Primer Tapping | No Add | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -8 | Ball Float Backwater Valve (2,3,4" Only) | 703.50 | -S0 | Side Outlet (2, 3, 4" only) | 408.50 |
| -13 | All Galvanized (unless other top specified) | 792.50 | | | |
| -21 | Secondary Strainer | 127.50 | | | |

Consult factory for all applications outside of listed parameters.

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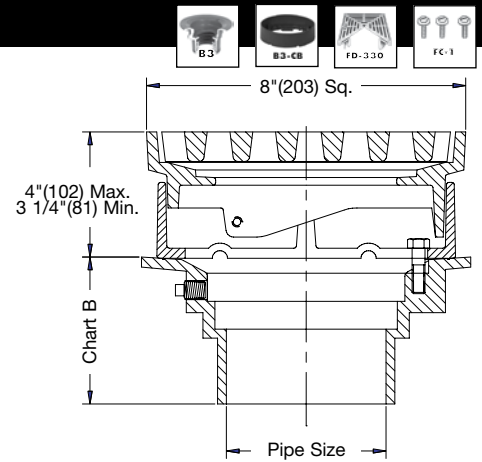


Area Drains

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 | \$1,934.00 |
| FD-332, 3, 4-1 | 23 | 8" Sq. | 2, 3, 4" | nickel bronze | 3,250.00 |



Options for FD-330 Series

| Suffix | Description | List Price |
|--------|--------------|------------|
| -9 | Hinged Grate | \$483.00 |

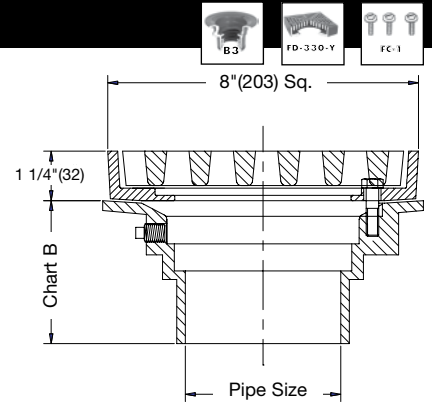
Chart B

| 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-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 | 22 | 8" Sq. | 2, 3, 4" | ductile iron | \$1,546.00 |
| FD-332, 3, 4-Y-1 | 23 | 8" Sq. | 2, 3, 4" | nickel bronze | 2,687.00 |



Options for FD-330-Y Series

| Suffix | Description | List Price |
|--------|--------------|------------|
| -9 | Hinged Grate | \$483.00 |

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-300, 310, 320, 330 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|---|------------|--------|--|------------|
| None | No Hub | No Add | -34 | Closure Plug | \$227.50 |
| P | Push-On | No Add | -60 | PVC Body w/Socket Outlet (2,3,4" only) | No Add |
| T | Threaded Outlet | \$151.50 | -61 | ABS Body w/Socket Outlet (2,3,4" only) | No Add |
| X | Inside Caulk Outlet | No Add | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| None | 6" Outlet - No Hub Only | 225.50 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -5 | Sediment Bucket | 259.00 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -6 | Vandal Proof | 275.00 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -7 | Trap Primer Tapping | No Add | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -8 | Ball Float Backwater Valve (2,3,4" Only) | 703.50 | -S0 | Side Outlet (2, 3, 4" only) | 408.50 |
| -13 | All Galvanized (unless other top specified) | 792.50 | | | |
| -21 | Secondary Strainer | 127.50 | | | |



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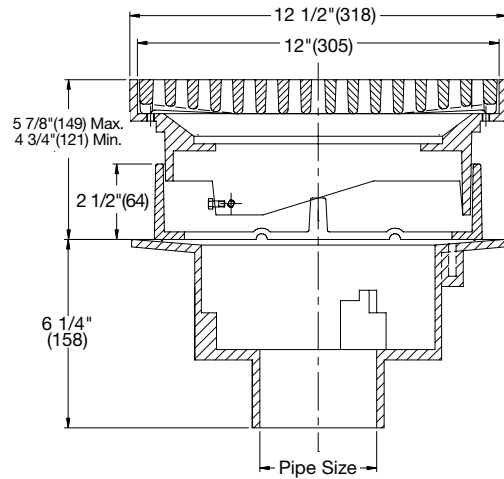
Area Drains

FD-340

Area Drain with 12" Round Adjustable Top



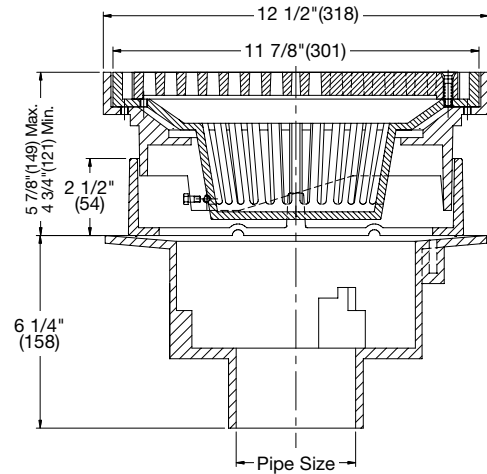
| Model Number | Weight (lbs.) | Grate Size | Outlet Size | Grate | List Price |
|--------------------|---------------|------------|--------------|---------------|------------|
| FD-342,3,4,5,6,8 | 62 | 12" | 2,3,4,5,6,8" | ductile iron | \$2,742.00 |
| FD-342,3,4,5,6,8-1 | 62 | 12" | 2,3,4,5,6,8" | nickel bronze | 5,084.00 |



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 | \$3,314.00 |
| FD-342,3,4,5,6,8-1-SET | 62 | 12" | 2,3,4,5,6,8" | nickel bronze | 4,709.00 |



Options for FD-340, FD-340-SET Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|---|------------|--------|--|------------|
| None | No Hub | No Add | -34 | Closure Plug | \$227.50 |
| P | Push-On Outlet (2,3,4,6" only) | No Add | -60 | PVC Body w/Socket Outlet (2,3,4" only) | No Add |
| T | Threaded Outlet (2,3,4,6" only) | \$151.50 | -61 | ABS Body w/Socket Outlet (2,3,4" only) | No Add |
| X | Inside Caulk Outlet (2,3,4,6" only) | No Add | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| -5 | Sediment Bucket | 478.50 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -6 | Vandal Proof | 275.00 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -7 | Trap Primer Tapping | 282.00 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -8 | Ball Float Backwater Valve (2,3,4" only) | 703.50 | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -13 | All Galvanized (unless other top specified) | 1,505.00 | -S0 | Side Outlet (2, 3, 4" only) | 627.00 |
| -21 | Secondary Strainer | 127.50 | | | |

Consult factory for all applications outside of listed parameters.

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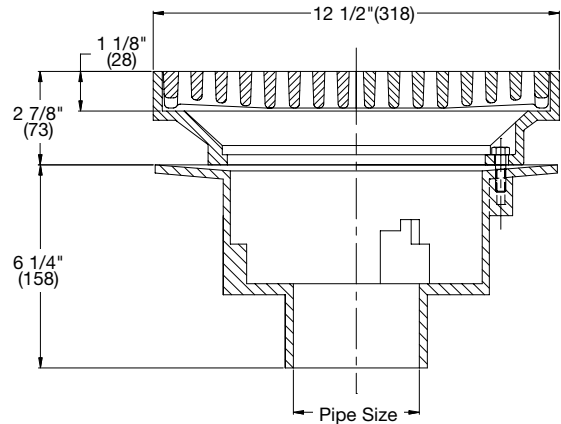
Area Drains

FD-340-Y

Area Drain with 12" Round Fixed Top



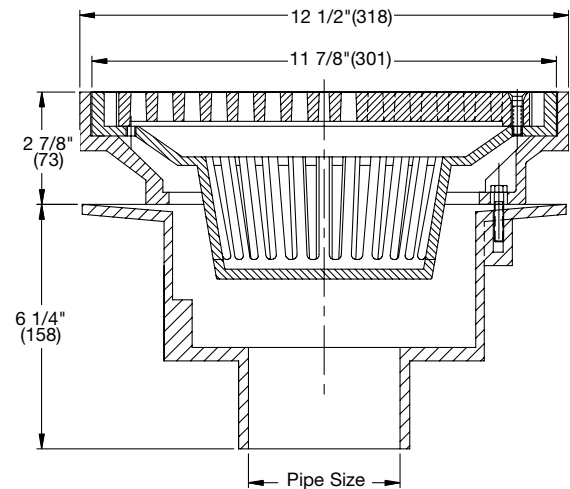
| Model Number | Weight (lbs.) | Grate Size | Outlet Size | Grate | List Price |
|----------------------|---------------|------------|--------------|---------------|------------|
| FD-342,3,4,5,6,8-Y | 60 | 12" | 2,3,4,5,6,8" | ductile iron | \$2,062.00 |
| FD-342,3,4,5,6,8-Y-1 | 60 | 12" | 2,3,4,5,6,8" | nickel bronze | 4,069.00 |



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 | \$2,801.00 |
| FD-342,3,4,5,6,8-Y-1-SET | 60 | 12" | 2,3,4,5,6,8" | nickel bronze | 4,898.00 |



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

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|---|------------|--------|--|------------|
| None | No Hub | No Add | -34 | Closure Plug | \$227.50 |
| P | Push-On Outlet (2,3,4,6" only) | No Add | -60 | PVC Body w/Socket Outlet (2,3,4" only) | No Add |
| T | Threaded Outlet (2,3,4,6" only) | \$151.50 | -61 | ABS Body w/Socket Outlet (2,3,4" only) | No Add |
| X | Inside Caulk Outlet (2,3,4,6" only) | No Add | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| -5 | Sediment Bucket | 478.50 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -6 | Vandal Proof | 275.00 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -7 | Trap Primer Tapping | 282.00 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -8 | Ball Float Backwater Valve (2,3,4" only) | 703.50 | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -13 | All Galvanized (unless other top specified) | 1,505.00 | -S0 | Side Outlet (2, 3, 4" only) | 627.00 |
| -21 | Secondary Strainer | 127.50 | | | |



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

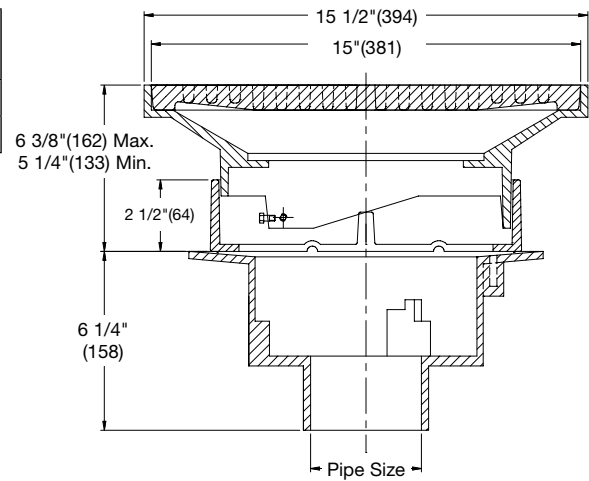
Area Drains

FD-360

Area Drain with 15" Round Adjustable Top



| Model Number | Weight (lbs.) | Grate Size | Outlet Size | Grate | List Price |
|--------------------|---------------|------------|--------------|---------------|------------|
| FD-362,3,4,5,6,8 | 110 | 15" | 2,3,4,5,6,8" | ductile iron | \$6,155.00 |
| FD-362,3,4,5,6,8-1 | 110 | 15" | 2,3,4,5,6,8" | nickel bronze | 9,328.00 |

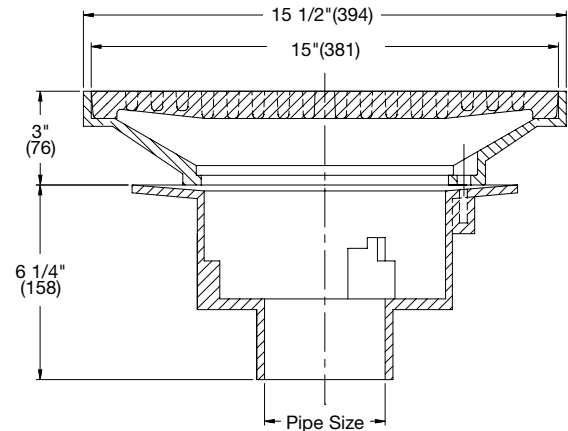


FD-360-Y

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 | \$5,329.00 |
| FD-362,3,4,5,6,8-Y-1 | 110 | 15" | 2,3,4,5,6,8" | nickel bronze | 8,261.00 |



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

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|---|------------|--------|--|------------|
| None | No Hub | No Add | -34 | Closure Plug | \$227.50 |
| P | Push-On (2,3,4,6" Only) | No Add | -60 | PVC Body w/Socket Outlet (2,3,4,6" Only) | No Add |
| T | Threaded Outlet (2,3,4,6" Only) | \$151.50 | -61 | ABS Body w/Socket Outlet (2,3,4" Only) | No Add |
| X | Inside Caulk Outlet (2,3,4,6" Only) | No Add | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| -5 | Sediment Bucket | 478.50 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -6 | Vandal Proof | 275.00 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -7 | Trap Primer Tapping | 282.00 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -8 | Ball Float Backwater Valve (2,3,4" only) | 703.50 | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -13 | All Galvanized (unless other top specified) | 3,652.00 | -S0 | Side Outlet (2, 3, 4" Only) | 627.00 |
| -21 | Secondary Strainer | 127.50 | | | |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

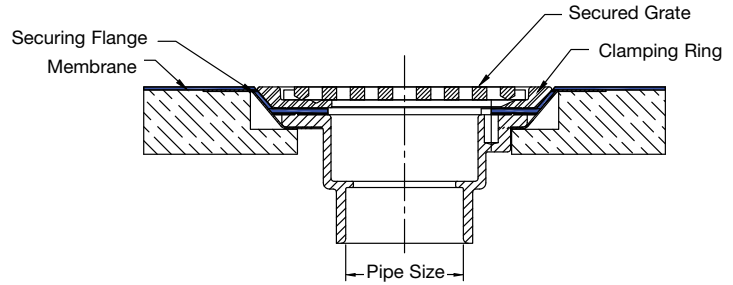


Specialty Drains

FD-370

Wood Deck Drain w/Surface Membrane Clamp

| Model Number | Weight (lbs.) | Grate Size | Outlet Size | Grate | List Price |
|--------------|---------------|------------|-------------|----------|------------|
| FD-372 | 4 | 5" | 2" ABS | aluminum | \$762.00 |



Typical Installation

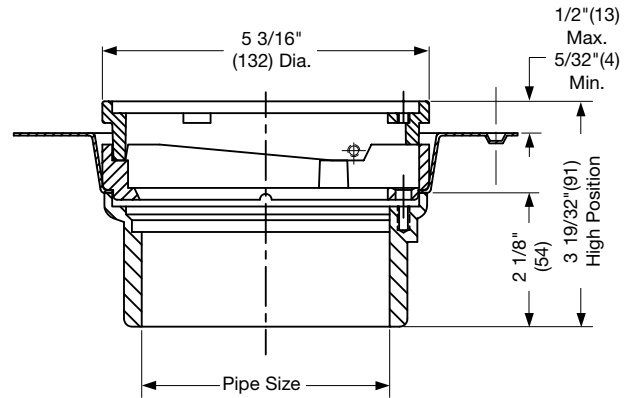
Options for FD-370 Series:

| Suffix | Description | List Price |
|--------|--------------|------------|
| -6 | Vandal Proof | \$94.75 |

FD-380

Adjustable Wood Floor Drain

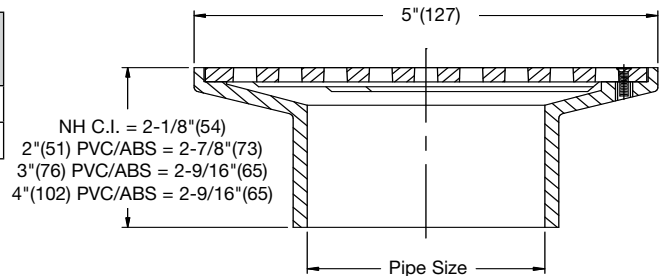
| Model Number | Weight (lbs.) | Grate Size | Outlet Size | Grate | List Price |
|--------------|---------------|------------|-------------|---------------|------------|
| FD-382,3,4 | 7 | 5" | 2,3,4" | nickel bronze | \$1,140.00 |



FD-390-E

General Purpose Floor Drain

| Model Number | Weight (lbs.) | Grate Size | Outlet Size | Grate | List Price |
|----------------|---------------|------------|-------------|---------------|------------|
| FD-392,3,4-E | 5 | 5" | 2,3,4" | ductile iron | \$351.50 |
| FD-392,3,4-E-1 | 5 | 5" | 2,3,4" | nickel bronze | 434.50 |



Options for FD-380 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--|------------|--------|--------------------------------|------------|
| None | No Hub | No Add | -F4-1 | 4" Round Bronze Funnel | \$797.00 |
| -6 | Vandal Proof | \$102.00 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -60 | PVC Body w/Socket Outlet (2,3,4,6" Only) | No Add | G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -61 | ABS Body w/Socket Outlet | No Add | G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -E | 5/16 Stackable Strainer Extension | 155.50 | | | |
| -F4-50 | 4" Round Cast Iron Funnel | 408.50 | | | |



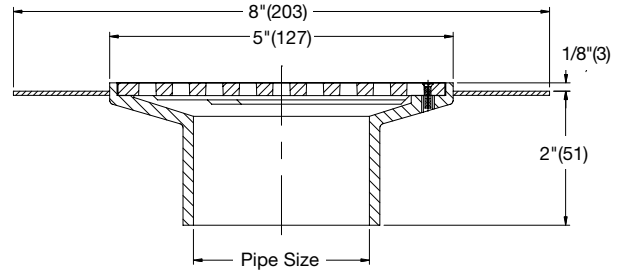
Consult factory for all applications outside of listed parameters.
Prices do not include applicable taxes.

Specialty Drains

FD-390-E-63

Floor Drain for Wooden Floors

| Model Number | Weight (lbs.) | Grate Size | Outlet Size | Grate | List Price |
|-----------------|---------------|------------|-------------|---------------|------------|
| FD-392,3,4-E-63 | 7 | 5" | 2,3,4" | nickel bronze | \$828.00 |



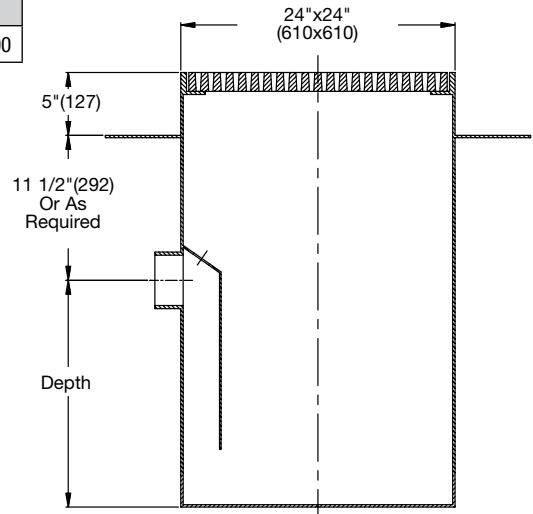
Options for FD-390-E, FD-390-E-63 Series

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|---------------------------|------------|--------|--------------------------------|------------|
| -None | No Hub | No Add | -F4-1 | 4" Round Nickel Bronze Funnel | \$797.00 |
| -6 | Vandal Proof | \$102.00 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -60 | PVC Body w/Socket Outlet | No Add | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -61 | ABS Body w/Socket Outlet | No Add | -G-1 | 4X9" Oval Nickel Bronze Funnel | 1,627.00 |
| -F4-50 | 4" Round Cast Iron Funnel | 335.00 | | | |

FD-410

Large Capacity Bottom Outlet Offset Parking Area Drain

| Model Number | Weight (lbs.) | Grate Size | Outlet Size | Grate | List Price |
|------------------------|---------------|------------|-------------|-----------|-------------|
| FD-413,4,6 (A,B,C,D,E) | 800 | 20x20 1/2" | 3,4,6" | cast iron | \$18,472.00 |



Options for FD-410 Series

| Suffix | Description | List Price |
|--------|-----------------------|------------|
| -6 | Vandal Proof | \$360.00 |
| -Q | Special Dimension | P.O.A. |
| -SI | Side Inlet Connection | 1,153.00 |
| -ST | Solid Top | No Add |
| -T | Threaded Outlet | 497.00 |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

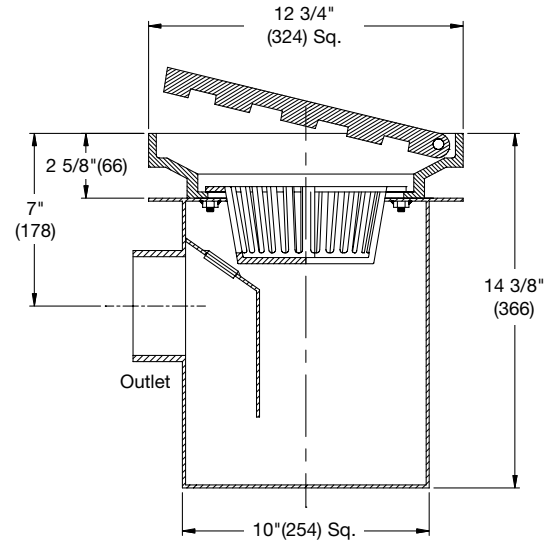


Area Drains

FD-430

Side Outlet Area Drain with Hinged Grate

| Model Number | Weight (lbs.) | Grate Size | Outlet Size | Grate | List Price |
|--------------|---------------|-------------|-------------|---------------|------------|
| FD-432,3,4 | 63 | 12 1/2" Sq. | 2,3,4" | ductile iron | \$4,070.00 |
| FD-432,3,4-1 | 63 | 12 1/2" Sq. | 2,3,4" | nickel bronze | 6,091.00 |



Options for FD-430 Series

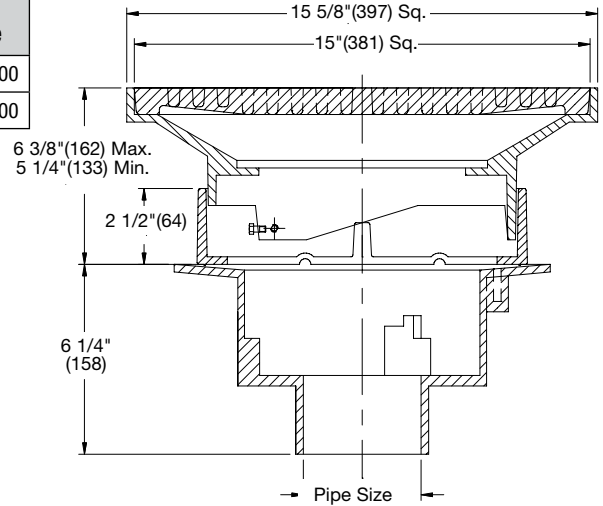
| Suffix | Description | List Price |
|--------|-----------------|------------|
| -6 | Vandal Proof | \$275.00 |
| -T | Threaded Outlet | 497.00 |

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 | \$5,367.00 |
| FD-452,3,4,5,6,8-1 | 120 | 15 1/2"(394) Sq. | 2,3,4,5,6,8" | nickel bronze | 8,592.00 |



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

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|---|------------|--------|--|------------|
| None | No Hub | No Add | -34 | Closure Plug | \$227.50 |
| P | Push-On (2,3,4,6" Only) | No Add | -60 | PVC Body w/Socket Outlet (2,3,4,6" Only) | No Add |
| T | Threaded Outlet (2,3,4,6" Only) | \$151.50 | -61 | ABS Body w/Socket Outlet (2,3,4" Only) | No Add |
| X | Inside Caulk Outlet (2,3,4,6" Only) | No Add | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| -5 | Sediment Bucket | 478.50 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -6 | Vandal Proof | 275.00 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -7 | Trap Primer Tapping | 282.00 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -8 | Ball Float Backwater Valve (2,3,4" only) | 703.50 | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -9 | Hinged Grate | 510.50 | -S0 | Side Outlet | 627.00 |
| -13 | All Galvanized (unless other top specified) | 3,652.00 | | | |
| -21 | Secondary Strainer | 127.50 | | | |



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

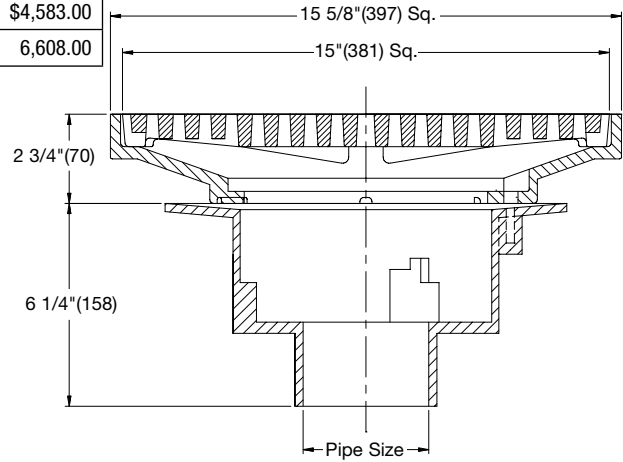
Area Drains

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 | \$4,583.00 |
| FD-452,3,4,5,6,8-1-F | 120 | 15 1/2"(394) Sq. | 2,3,4,5,6,8" | nickel bronze | 6,608.00 |

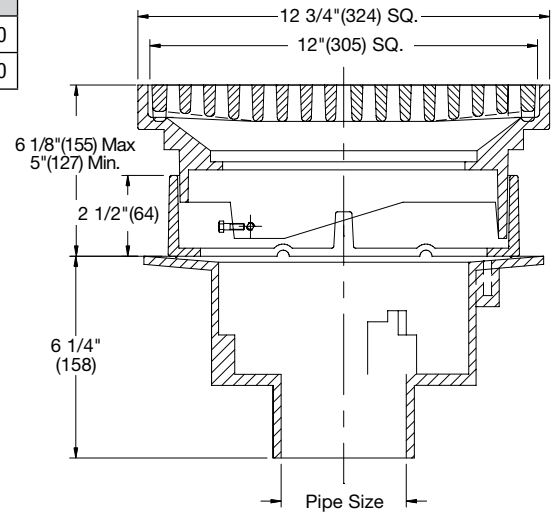


FD-460

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 | \$3,554.00 |
| FD-462,3,4,5,6,8-1 | 70 | 12 1/2"(318) | 2,3,4,5,6,8" | nickel bronze | 8,880.00 |



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

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|---|------------|--------|--|------------|
| None | No Hub | No Add | -34 | Closure Plug | \$227.50 |
| P | Push-On (2,3,4,6" Only) | No Add | -60 | PVC Body w/Socket Outlet (2,3,4,6" Only) | No Add |
| T | Threaded Outlet (2,3,4,6" Only) | \$151.50 | -61 | ABS Body w/Socket Outlet (2,3,4" Only) | No Add |
| X | Inside Caulk Outlet (2,3,4,6" Only) | No Add | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| -5 | Sediment Bucket | 478.50 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -6 | Vandal Proof | 275.00 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -7 | Trap Primer Tapping | 282.00 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -8 | Ball Float Backwater Valve (2,3,4" only) | 703.50 | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -9 | Hinged Grate | 510.50 | -S0 | Side Outlet | 627.00 |
| -13 | All Galvanized (unless other top specified) | 3,652.00 | | | |
| -21 | Secondary Strainer | 127.50 | | | |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



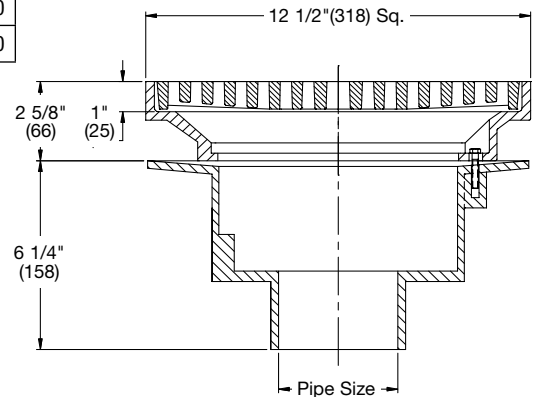
Area Drains

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 | \$2,774.00 |
| FD-462,3,4,5,6,8-F-1 | 85 | 12 1/2"(318) Sq. | 2,3,4,5,6,8" | nickel bronze | 5,165.00 |



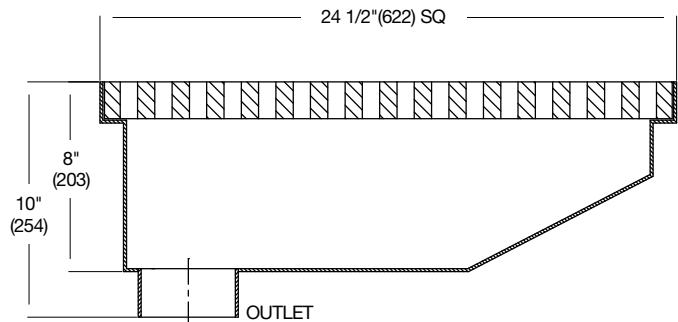
Options for FD-460, 460-F Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|---|------------|--------|--|------------|
| None | No Hub | No Add | -34 | Closure Plug | \$227.50 |
| P | Push-On (2,3,4,6" Only) | No Add | -60 | PVC Body w/Socket Outlet (2,3,4,6" Only) | No Add |
| T | Threaded Outlet (2,3,4,6" Only) | \$151.50 | -61 | ABS Body w/Socket Outlet (2,3,4" Only) | No Add |
| X | Inside Caulk Outlet (2,3,4,6" Only) | No Add | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| -5 | Sediment Bucket | 478.50 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -6 | Vandal Proof | 275.00 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -7 | Trap Primer Tapping | 282.00 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -8 | Ball Float Backwater Valve (2,3,4" only) | 703.50 | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -9 | Hinged Grate | 510.50 | -S0 | Side Outlet (2,3,4" Only) | 627.00 |
| -13 | All Galvanized (unless other top specified) | 1,654.00 | | | |
| -21 | Secondary Strainer | 127.50 | | | |

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 | \$11,353.00 |



Options for FD-530 Series

| Suffix | Description | List Price |
|--------|-------------------------|-------------|
| -5 | Sediment Bucket | \$ 1,590.00 |
| -6 | Vandal Proof Grate | 852.00 |
| -38 | Solids Retaining Baffle | 1,081.00 |
| -C | Membrane Clamp | 2,038.00 |
| -T | Threaded Outlet | 497.00 |



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

Isolation Drains

FD-600

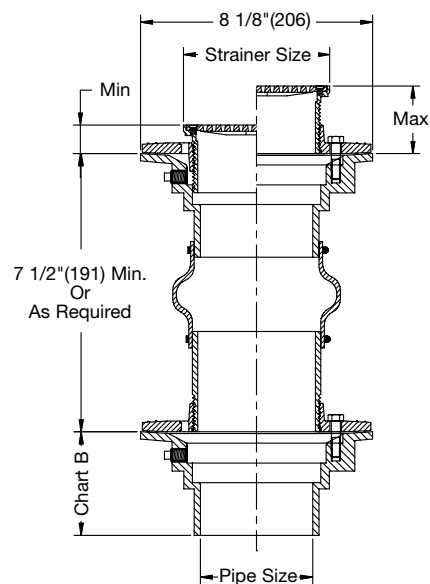
Isolation Floor Drain

| Model Number | Weight (lbs.) | Strainer Size | Pipe Size | Strainer | List Price |
|-----------------|---------------|---------------|-----------|---------------|------------|
| FD-602, 3, 4-A5 | 17 | 5" | 2,3,4" | nickel bronze | \$2,465.00 |
| FD-602, 3, 4-A6 | 17.5 | 6" | 2,3,4" | nickel bronze | 2,664.00 |
| FD-602, 3, 4-A8 | 23 | 8" | 2,3,4" | nickel bronze | 3,152.00 |



| 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.

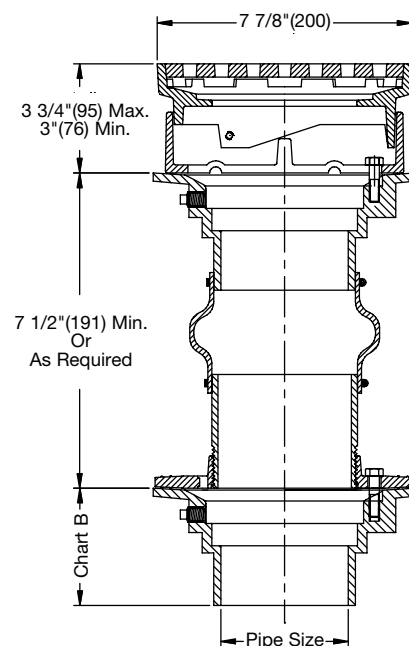
FD-620

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 | \$3,135.00 |
| FD-622, 3, 4-1 | 25 | 8" | 2, 3, 4" | nickel bronze | 4,140.00 |



| 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-320 Options on page 40.

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

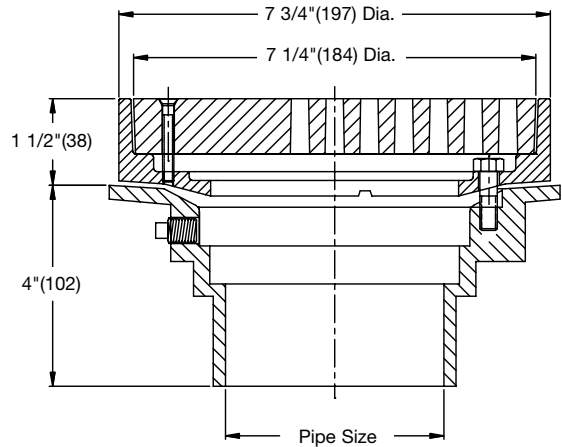


Area Drains

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 | \$948.50 |



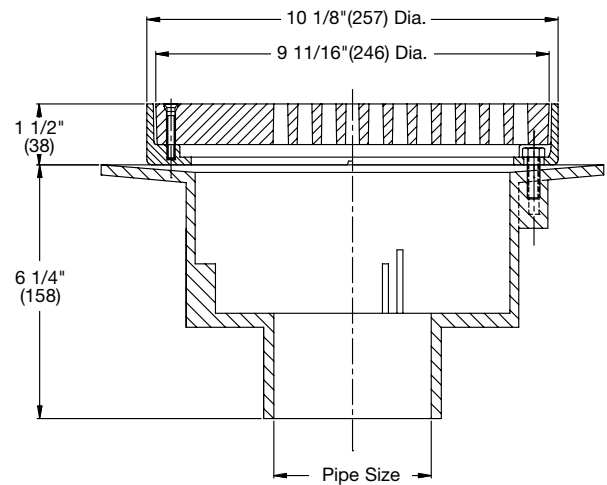
Options for FD-660 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--|------------|--------|---------------------|------------|
| -5 | Sediment Bucket | \$259.00 | -F4-50 | 4" Round CI Funnel | \$335.00 |
| -6 | Vandal Proof | No Add | -F4-1 | 4" Round NB Funnel | 797.00 |
| -7 | Trap Primer Tapping | No Add | -F6-1 | 6" Round NB Funnel | 1,165.00 |
| -34 | Closure Plug | 227.50 | -G-50 | 4x9" Oval CI Funnel | 788.50 |
| -61 | ABS Body w/Socket Outlet (2, 3, 4" only) | No Add | -G-1 | 4x9" Oval NB Funnel | 1,627.00 |
| -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 | 8 | 10" | 2,3,4" | PVC | \$1,585.00 |



Options for FD- 670 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--|------------|--------|----------------------------|------------|
| -5 | Sediment Bucket | \$385.00 | -F4-1 | 4" Round NB Funnel | \$797.00 |
| -6 | Vandal Proof | No Add | -F6-1 | 6" Round NB Funnel | 1,165.00 |
| -34 | Closure Plug | 227.50 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -61 | ABS Body w/Socket Outlet (2, 3, 4" Only) | No Add | -G-1 | 4x9" Oval Funnel | 1,627.00 |
| -150 | 1/2 Grate | No Add | | | |
| -F4-50 | 4" Round CI Funnel | 335.00 | | | |



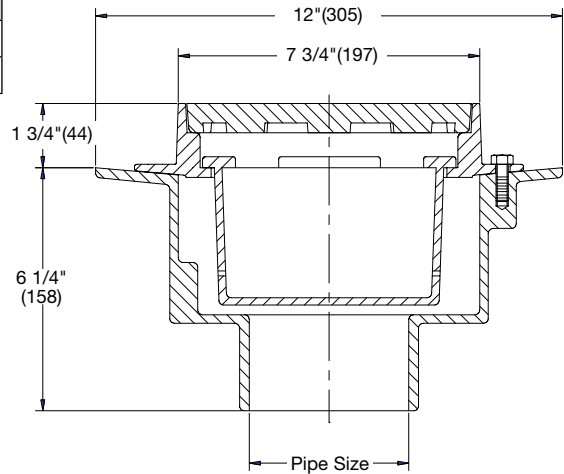
Consult factory for all applications outside of listed parameters.
Prices do not include applicable taxes.

Specialty 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 | \$2,261.00 |
| FD-812, 3, 4, 5, 6, 8-1 | 15 | 8" | 2, 3, 4, 5, 6, 8" | nickel bronze | 3,264.00 |



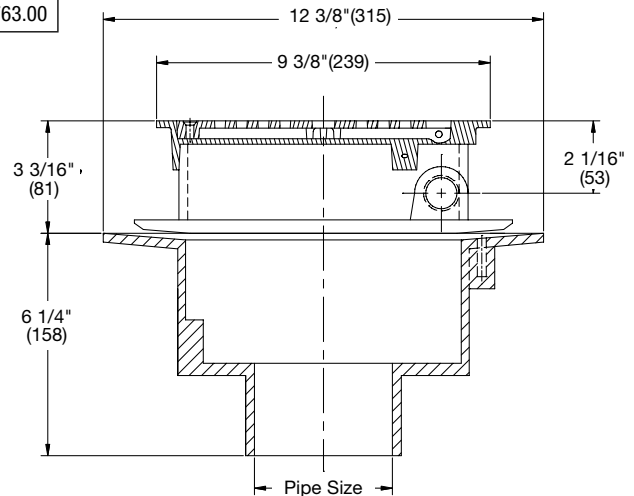
Options for FD-810 Series

| 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) | \$151.50 |
| X | Inside Caulk Outlet (2,3,4,6" only)X | No Add |
| -6 | Vandal Proof | 275.00 |
| -7 | Trap Primer Tapping | 282.00 |
| -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 | \$4,763.00 |



Options for FD-820 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) | \$151.50 |
| X | Inside Caulk Outlet (2,3,4,6" only) | No Add |
| -5 | Sediment Bucket | 478.50 |
| -6 | Vandal Proof | 275.00 |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

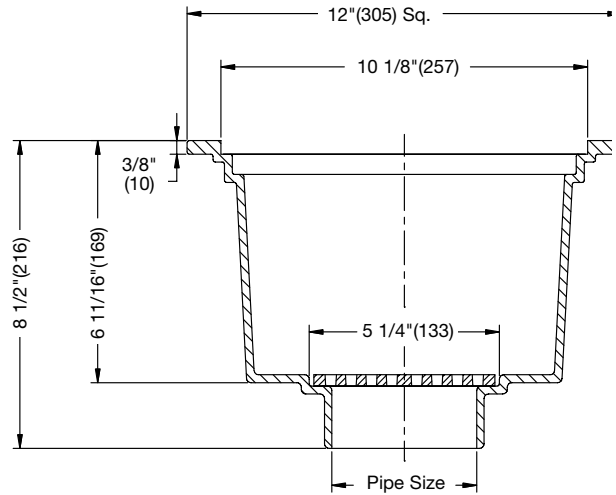


Specialty Floor Drains

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 | \$1,497.00 |



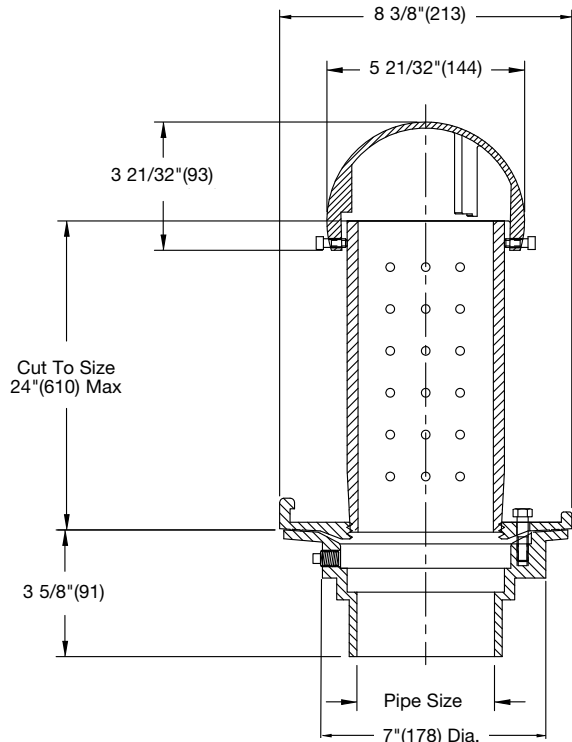
Options for FD-830 Series

| Suffix | Description | List Price |
|--------|--------------------------|------------|
| -1 | Nickel Bronze Top | \$743.00 |
| -5 | Sediment Bucket | 446.50 |
| -7 | Trap Primer Tapping | 282.00 |
| -TG | Top Grate - Ductile Iron | 363.50 |

FD-850

Planting Area Drain with Dome Cap

| Model Number | Weight (lbs.) | Str. Type | Pipe Size | List Price |
|--------------|---------------|-----------------|-----------|------------|
| FD-852, 3, 4 | 11 | Domed Standpipe | 2,3,4" | \$2,354.00 |



Options for FD-850 Series

| Suffix | Description | List Price |
|--------|---|------------|
| P | Push On | No Add |
| -13 | All Galvanized (unless other top specified) | \$729.50 |
| -60 | PVC Body w/Socket Outlet | No Add |
| -61 | ABS Body w/Socket Outlet | No Add |
| -B | Sump Receiver | 478.50 |
| -D | Underdeck Clamp | 278.00 |
| -F | Deck Flange/Adj. Extension | 930.00 |
| -SO | Side Outlet | 408.50 |
| -T | Threaded Outlet | 151.50 |



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

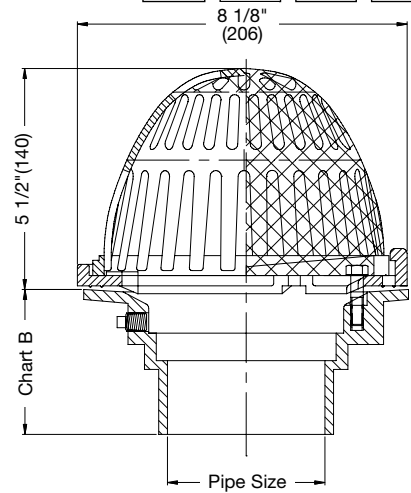
Specialty Floor Drains

FD-860

Planting Area Drain with Screened Dome



| Model Number | Weight (lbs.) | Str. Size | Pipe Size | Strainer | List Price |
|--------------|---------------|-------------|-----------|-----------------|------------|
| FD-862, 3, 4 | 25 | 8 1/2" Dome | 2,3,4" | alum. w/SS mesh | \$1,734.00 |



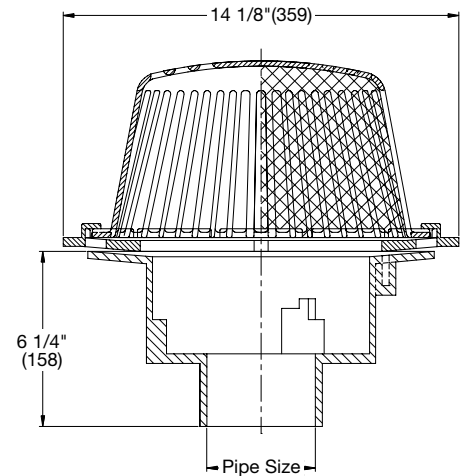
| Chart B | | | | | |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2" | 3 5/8" | 3 5/8" | 4 1/4" | 4 1/4" | 2 3/4" |
| 3" | 3 5/8" | 4" | 4 1/4" | 4 1/4" | 3 5/8" |
| 4" | 3 5/8" | 4" | 4 1/4" | 4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

FD-870

Large Planting Area Drain with Screened Dome



| Model Number | Weight (lbs.) | Str. Size | Pipe Size | Dome | List Price |
|-----------------|---------------|-------------|-----------|-----------------|------------|
| FD-872, 3, 4, 6 | 50 | 8 1/2" Dome | 2,3,4" | alum. w/SS mesh | \$2,030.00 |



Options for FD-860/870 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|---------------------|------------|--------|--|------------|
| None | No Hub | No Add | -13 | Galvanized Body and Clamp | \$729.50 |
| P | Push-On Outlet | No Add | -60 | PVC Body w/Socket Outlet (2,3,4,6" only) | No Add |
| T | Threaded Outlet | \$151.50 | -61 | ABS Body w/Socket Outlet (2,3,4" only) | No Add |
| X | Inside Caulk Outlet | No Add | -81 | Bronze Dome | 1,364.00 |
| -6 | Vandal Proof Dome | 214.50 | -S0 | Side Outlet | 627.00 |

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

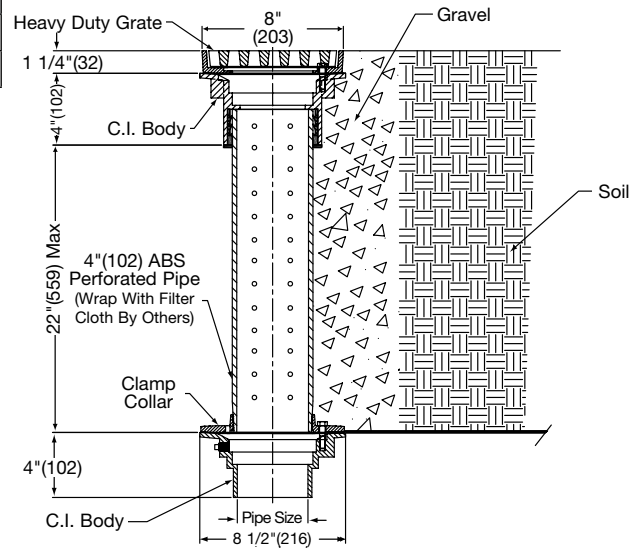


Specialty Floor Drains

FD-880

Ground Water Containment Drain

| Model Number | Weight (lbs.) | Str. Size | Pipe Size | Strainer | List Price |
|----------------|---------------|-----------|-----------|---------------|------------|
| FD-882, 3, 4, | 34 | 8" | 2,3,4" | ductile iron | \$2,801.00 |
| FD-882, 3, 4-1 | 34 | 8" | 2, 3, 4" | nickel bronze | 3,805.00 |



Options for FD-880 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|---------------------|------------|--------|---------------------------|------------|
| None | No Hub | No Add | -6 | Vandal Proof | \$237500 |
| P | Push-On Outlet | No Add | -7 | Trap Primer Tapping | No Add |
| T | Threaded Outlet | \$151.50 | -21 | Secondary Strainer | 127.50 |
| X | Inside Caulk Outlet | No Add | -S0 | Side Outlet (2,3,4" only) | 408.50 |
| -5 | Sediment Bucket | 259.00 | | | |

FD-890

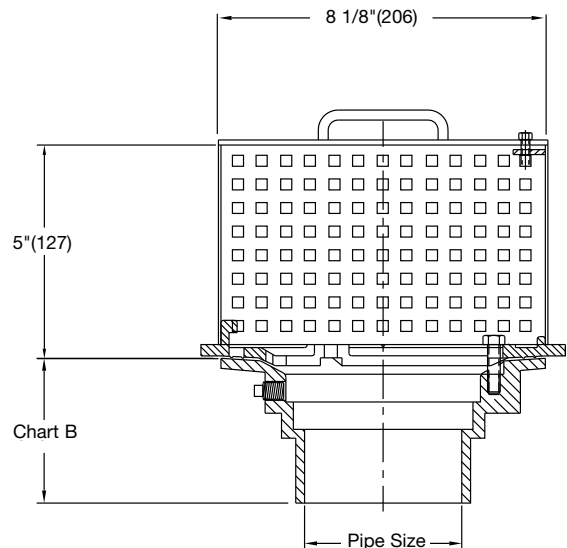
Planter Drain with Removable Cover

| Model Number | Weight (lbs.) | Pipe Size | Cover | List Price |
|---------------|---------------|-----------|-----------------|------------|
| FD-892, 3, 4, | 14 | 2,3,4" | Stainless Steel | \$2,610.00 |



Options for FD-890 Series

| Suffix | Description | List Price |
|--------|---------------------------|------------|
| None | No Hub Outlet | No Add |
| P | Push-On Outlet | No Add |
| T | Threaded Outlet | \$151.50 |
| X | Inside Caulk | No Add |
| -13 | Galvanized Body and Clamp | 367.00 |
| -S0 | Side Outlet | 408.50 |



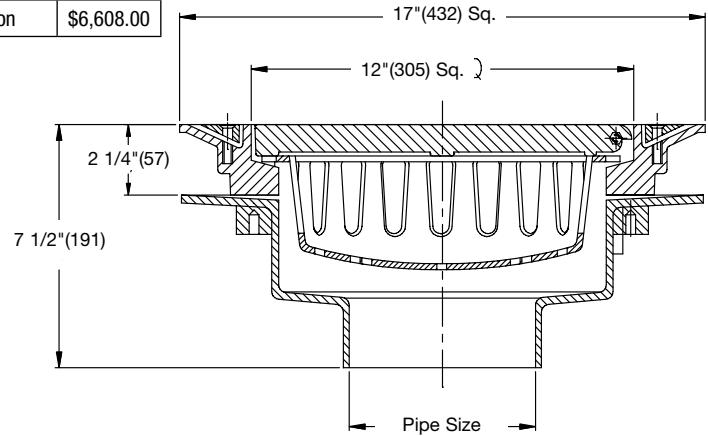
Consult factory for all applications outside of listed parameters.
Prices do not include applicable taxes.

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 | \$6,608.00 |



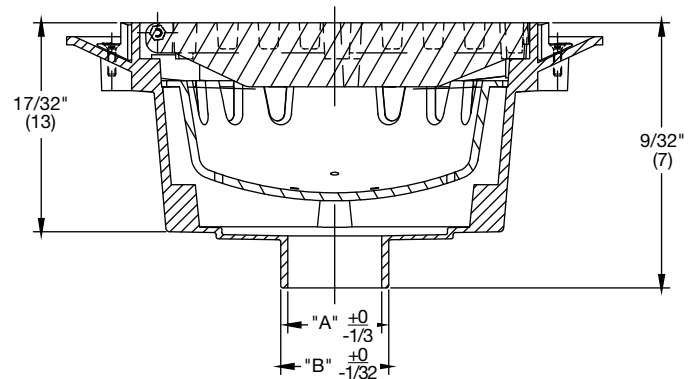
Option for FD-490 Series:

| Suffix | Description | List Price |
|--------|--------------|------------|
| P | Push On | No Add |
| X | Inside Caulk | No Add |
| -6 | Vandal Proof | \$275.00 |
| -13 | Galvanized | 1,881.00 |

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 | \$6,743.00 |



Option for FD-490 Series:

| Suffix | Description | List Price |
|--------|--------------|------------|
| -6 | Vandal Proof | \$289.00 |
| -13 | Galvanized | 1,975.00 |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

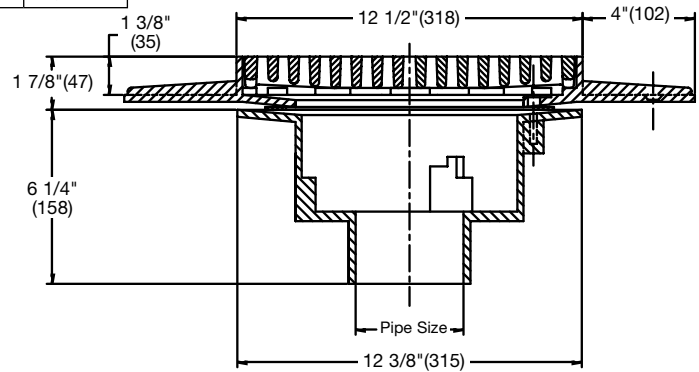


Parking Deck Drains

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 | \$4,340.00 |



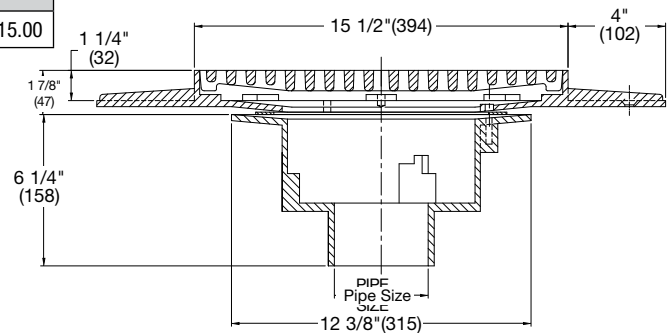
Options for FD-900/910 Series:

| 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) | \$151.50 |
| X | Inside Caulk Outlet (2, 3, 4, 6" only) | No Add |
| -5 | Sediment Bucket | 352.50 |
| -6 | Vandal Proof | 262.00 |
| -13 | Galvanized | 1,881.00 |
| D | Underdeck Clamp | 450.00 |

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 | \$5,415.00 |



Options for FD-900/910 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) | \$151.50 |
| X | Inside Caulk Outlet (2, 3, 4, 6" only) | No Add |
| -5 | Sediment Bucket | 352.50 |
| -6 | Vandal Proof | 275.00 |
| -13 | Galvanized | 1,881.00 |
| D | Underdeck Clamp | 450.00 |



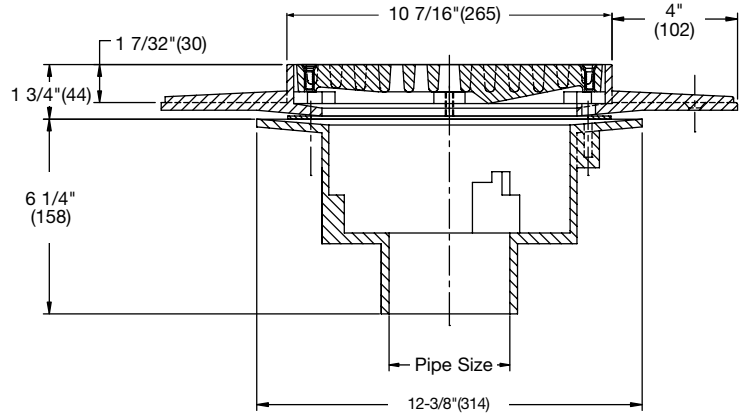
Consult factory for all applications outside of listed parameters.
Prices do not include applicable taxes.

Parking Deck Drains

FD-920

Parking Deck Drain For Precast Slabs

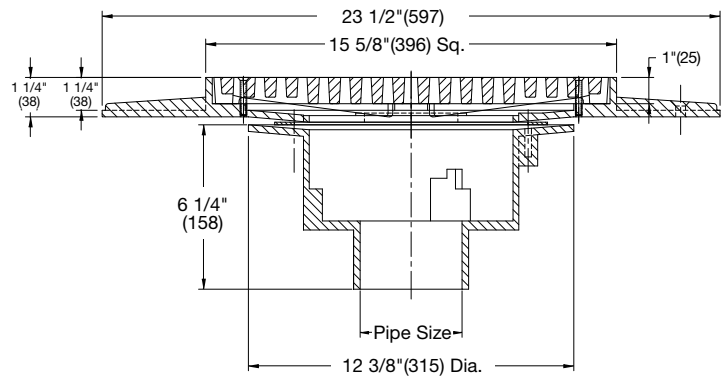
| Model Number | Weight (lbs.) | Cover Size | Pipe Size | Grate | List Price |
|-----------------------|---------------|------------|--------------------|--------------|------------|
| FD-922, 3, 4, 5, 6, 8 | 48 | 10" | 2, 3, 4, 5, 6, 8," | ductile iron | \$2,089.00 |



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 | \$5,690.00 |



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) | \$151.50 |
| X | Inside Caulk Outlet (2, 3, 4, 6" only) | No Add |
| -5 | Sediment Bucket | 352.50 |
| -6 | Vandal Proof | 275.00 |
| -13 | Galvanized | 1,881.00 |
| D | Underdeck Clamp | 450.00 |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



Floor Drains with Stainless Steel Strainers

FD-1100-A

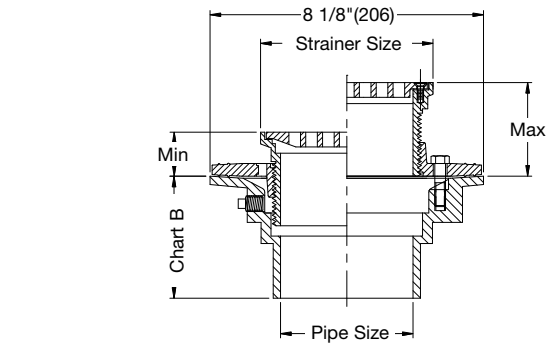
Floor Drain with Round Stainless Steel Strainer



| Model Number | Weight (lbs.) | Str. Size | Pipe Size | Strainer | List Price |
|----------------|---------------|-----------|-----------|-----------------|------------|
| FD-1102,3,4-A5 | 11 | 5" | 2,3,4" | stainless steel | \$1,332.00 |
| FD-1102,3,4-A6 | 12.5 | 6" | 2,3,4" | stainless steel | 1,610.00 |
| FD-1102,3,4-A8 | 16 | 8" | 2,3,4" | stainless steel | 2,208.00 |



| 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" | - | - | - | - |

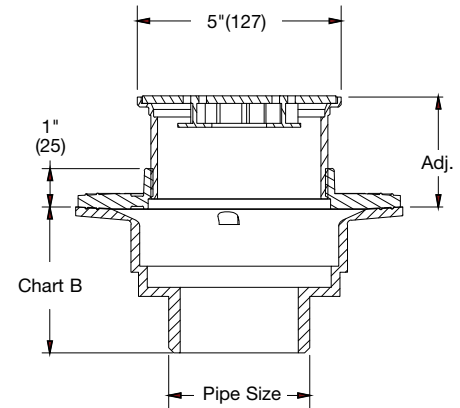
FD-1100-A-LR

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 | \$4,331.00 |
| FD-1102, 3, 4-A6-LR | 12.5 | 6" | 2,3,4" | stainless steel | 4,678.00 |
| FD-1102, 3, 4-A8-LR | 16 | 8" | 2,3,4" | stainless steel | 6,750.00 |



| 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) | - | - | - | - |

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

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|---|------------|--------|--|------------|
| None | No Hub Outlet | No Add | -60 | PVC Body w/Socket Outlet (2,3,4\" only) | No Add |
| P | Push-On Outlet | No Add | -61 | ABS Body w/Socket Outlet (2,3,4\" only) | No Add |
| T | Threaded Outlet | \$151.50 | -F4-3 | 4\" Round SS Funnel (FD-1100-A Only) | \$1,019.00 |
| X | Inside Caulk | No Add | -F4-50 | 4\" Round Cast Iron Funnel (FD-1100-A Only) | 335.00 |
| None | 6\" Outlet No Hub Only | 225.50 | -F4-1 | 4\" Round Nickel Bronze Funnel (FD-1100-A Only) | 797.00 |
| -5 | Sediment Bucket | 202.50 | -F6-1 | 6\" Round Nickel Bronze Funnel (FD-1100-A Only) | 1,165.00 |
| -6 | Vandal Proof | 102.00 | -G-50 | 4x9\" Oval Cast Iron Funnel (FD-1100-A Only) | 788.50 |
| -7 | Trap Primer Tapping | No Add | -G-1 | 4x9\" Oval Nickel Bronze Funnel (FD-1100-A Only) | 1,627.00 |
| -8 | Ball Float Backwater Valve (2,3,4\" only) | 703.50 | -SO | Side Outlet (2,3,4\" only) | 408.50 |
| -13 | Galvanized Body | 361.50 | | | |
| -15 | Strainer Extension (DD-50) | 264.00 | | | |
| -28 | 304 SS Body and Collar (No Hub Only) | 1,697.00 | | | |



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

Adjustable Floor Drains with Stainless Steel Strainers

FD-1100-B

Floor Drain with Heavy Duty Round Stainless Steel Strainer

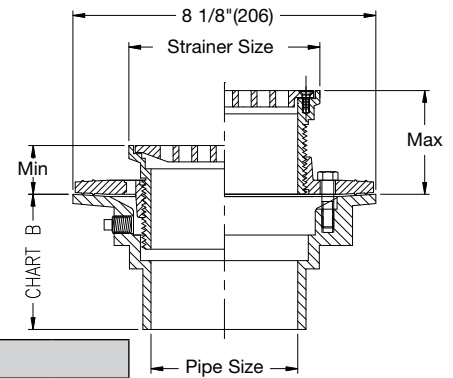


| Model Number | Weight (lbs.) | Str. Size | Pipe Size | Strainer | List Price |
|----------------|---------------|-----------|-----------|-----------------|------------|
| FD-1102,3,4-B5 | 11 | 5" | 2,3,4" | stainless steel | \$1,512.00 |
| FD-1102,3,4-B6 | 12.5 | 6" | 2,3,4" | stainless steel | 1,796.00 |
| FD-1102,3,4-B8 | 16 | 8" | 2,3,4" | stainless steel | 2,208.00 |



| 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" | 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" | - | - | - | - |



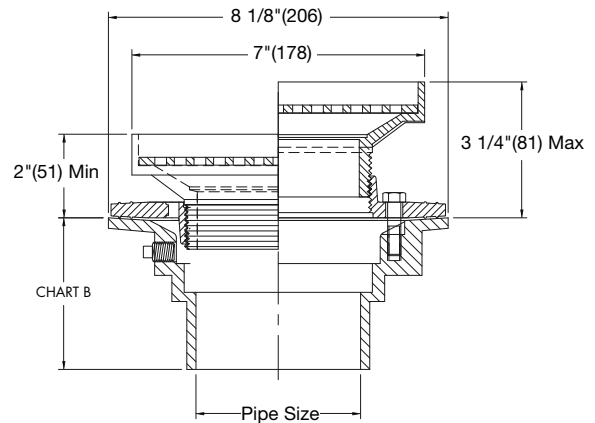
FD-1100-ER

Floor Drain with Stainless Steel Extended Rim Strainer

| Model Number | Weight (lbs.) | Str. Size | Pipe Size | Strainer | List Price |
|-----------------|---------------|-----------|-----------|-----------------|------------|
| FD-1102,3,4-ER7 | 11 | 7" | 2,3,4" | stainless steel | \$2,387.00 |



| 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" |



Options for FD-1100 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--|------------|--------|--|------------|
| None | No Hub Outlet | No Add | -60 | PVC Body w/Socket Outlet (2,3,4" only) | No Add |
| P | Push-On Outlet | No Add | -61 | ABS Body w/Socket Outlet (2,3,4" only) | No Add |
| T | Threaded Outlet | \$151.50 | -F4-3 | 4" Round SS Funnel | \$1,019.00 |
| X | Inside Caulk | No Add | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| None | 6" Outlet No Hub Only | 225.50 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -5 | Sediment Bucket | 202.50 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -6 | Vandal Proof | 102.00 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -7 | Trap Primer Tapping | No Add | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -8 | Ball Float Backwater Valve (2,3,4" only) | 703.50 | -SO | Side Outlet (2,3,4" only) | 408.50 |
| -13 | Galvanized Body | 361.50 | | | |
| -15 | Strainer Extension (DD-50) | 264.00 | | | |
| -28 | 304 SS Body and Collar (No Hub Only) | 1,697.00 | | | |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



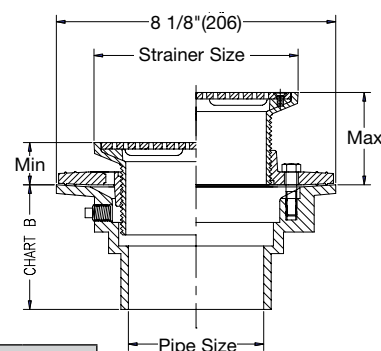
Adjustable Floor Drains with Stainless Steel Strainers

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 | 10 | 5"x5" | 2,3,4" | stainless steel | \$1,626.00 |
| FD-1102,3,4-L6 | 14 | 6"x6" | 2,3,4" | stainless steel | 1,970.00 |
| FD-1102,3,4-L8 | 16 | 8"x8" | 2,3,4" | stainless steel | 2,521.00 |



| 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" |

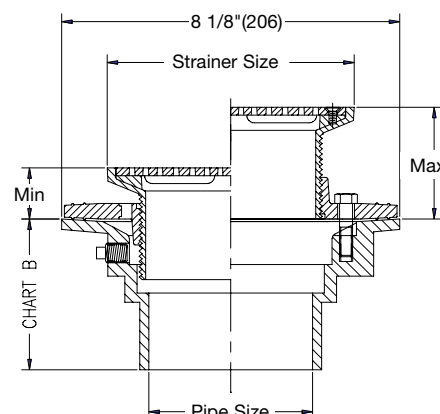
| Chart B | | | | | |
|-----------|--------|---------|---------------|--------------|---------|
| Pipe Size | No Hub | Push On | Female Thread | Inside Caulk | PVC/ABS |
| 2" | 3 5/8" | 3 5/8" | 4 1/4" | 4 1/4" | 2 3/4" |
| 3" | 3 5/8" | 4" | 4 1/4" | 4 1/4" | 3 5/8" |
| 4" | 3 5/8" | 4" | 4 1/4" | 4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

FD-1100-M

Floor Drain with Square Stainless Steel Strainer



| Model Number | Weight (lbs.) | Str. Size | Pipe Size | Strainer | List Price |
|----------------|---------------|-----------|-----------|-----------------|------------|
| FD-1102,3,4-M5 | 11 | 5"x5" | 2,3,4" | stainless steel | \$1,470.00 |
| FD-1102,3,4-M6 | 12.5 | 6"x6" | 2,3,4" | stainless steel | 1,970.00 |
| FD-1102,3,4-M8 | 16 | 8"x8" | 2,3,4" | stainless steel | 2,210.00 |



Options for FD-1100 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--|------------|--------|--|------------|
| None | No Hub Outlet | No Add | -60 | PVC Body w/Socket Outlet (2,3,4" only) | No Add |
| P | Push-On Outlet | No Add | -61 | ABS Body w/Socket Outlet (2,3,4" only) | No Add |
| T | Threaded Outlet | \$151.50 | -F4-3 | 4" Round SS Funnel | \$1,019.00 |
| X | Inside Caulk | No Add | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| None | 6" Outlet No Hub Only | 225.50 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -5 | Sediment Bucket | 202.50 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -6 | Vandal Proof | 102.00 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -7 | Trap Primer Tapping | No Add | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -8 | Ball Float Backwater Valve (2,3,4" only) | 703.50 | -SO | Side Outlet (2,3,4" only) | 408.50 |
| -13 | Galvanized Body | 361.50 | | | |
| -15 | Strainer Extension (DD-50) | 264.00 | | | |
| -28 | 304 SS Body and Collar (No Hub Only) | 1,697.00 | | | |



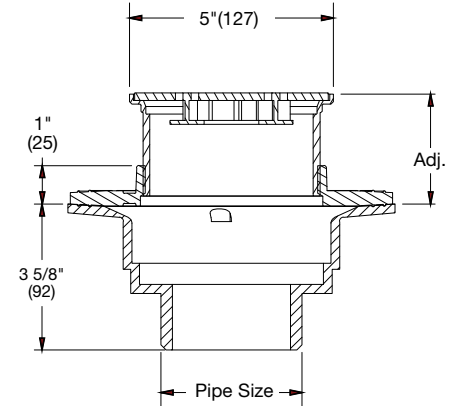
Consult factory for all applications outside of listed parameters.
Prices do not include applicable taxes.

Adjustable Floor Drains with Stainless Steel Strainers

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 | \$4,669.00 |
| FD-1102, 3, 4-M6-LR | 12.5 | 6" | 2,3,4" | stainless steel | 4,832.00 |
| FD-1102, 3, 4-M8-LR | 16 | 8" | 2,3,4" | stainless steel | 6,028.00 |



| 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) | - | - | - | - |

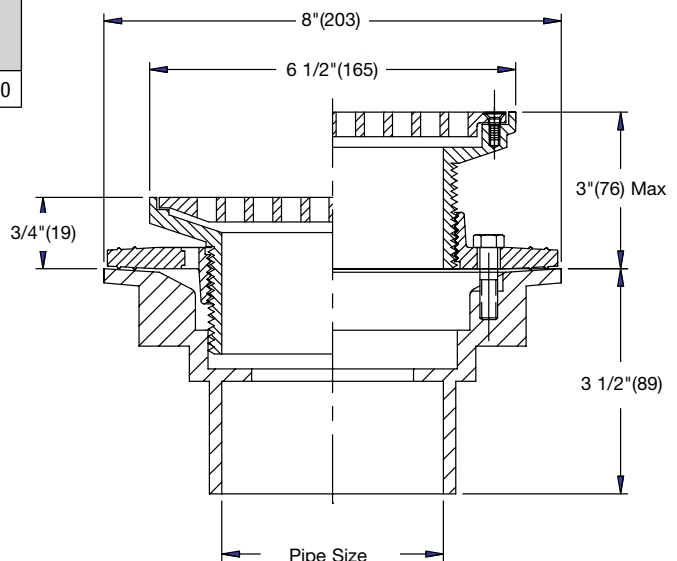
Options for FD-1100-M-LR Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--|------------|--------|--|------------|
| None | No Hub Outlet | No Add | -60 | PVC Body w/Socket Outlet (2,3,4" only) | No Add |
| P | Push-On Outlet | No Add | -61 | ABS Body w/Socket Outlet (2,3,4" only) | No Add |
| T | Threaded Outlet | \$151.50 | -F4-3 | 4" Round SS Funnel | \$1,019.00 |
| X | Inside Caulk | No Add | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| None | 6" Outlet No Hub Only | 225.50 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -5 | Sediment Bucket | 202.50 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -6 | Vandal Proof | 102.00 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -7 | Trap Primer Tapping | No Add | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -8 | Ball Float Backwater Valve (2,3,4" only) | 703.50 | -SO | Side Outlet (2,3,4" only) | 408.50 |
| -13 | Galvanized Body | 361.50 | | | |
| -15 | Strainer Extension (DD-50) | 264.00 | | | |
| -28 | 304 SS Body and Collar (No Hub Only) | 1,697.00 | | | |

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 | \$828.00 |



Options for FD-1160 Series:

| Suffix | Description | List Price |
|--------|--------------------------------|------------|
| -5 | Sediment Bucket | \$202.50 |
| -6 | Vandal Proof | 102.00 |
| -7 | Trap Primer Tapping | No Add |
| -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |

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 | \$1,491.00 |
| FD-1192, 3, 4-PR6 | 16 | 6"(152) | 2, 3, 4" | stainless steel | 1,207.00 |
| FD-1192, 3, 4-PR7 | 18 | 7"(178) | 2, 3, 4" | stainless steel | 1,972.00 |
| FD-1192, 3, 4-PR8 | 21 | 8"(203) | 2, 3, 4" | stainless steel | 2,789.00 |
| FD-1196-PR5 | 14 | 5"(127) | 6" | stainless steel | 2,839.00 |
| FD-1196-PR6 | 16 | 6"(152) | 6" | stainless steel | 2,839.00 |
| FD-1196-PR7 | 18 | 7"(178) | 6" | stainless steel | 3,026.00 |
| FD-1196-PR8 | 21 | 8"(203) | 6" | stainless steel | 3,025.00 |

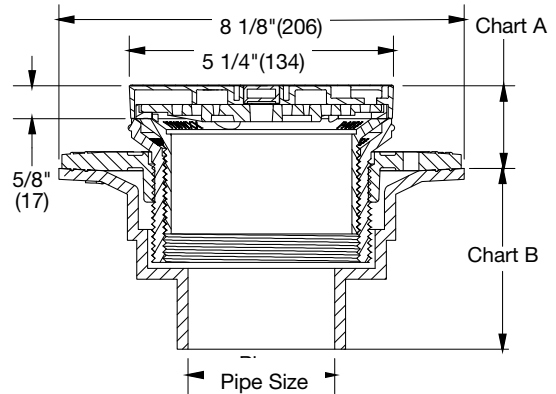


Chart A

| Str. 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) | | | | |

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 | \$1,002.00 |
| FD-1192, 3, 4-PR6-60 | 6 | 6"(152) | 2, 3, 4" | stainless steel | 1,207.00 |
| FD-1192, 3, 4-PR7-60 | 7 | 7"(178) | 2, 3, 4" | stainless steel | 1,696.00 |
| FD-1192, 3, 4-PR8-60 | 8 | 8"(203) | 2, 3, 4" | stainless steel | 2,606.00 |

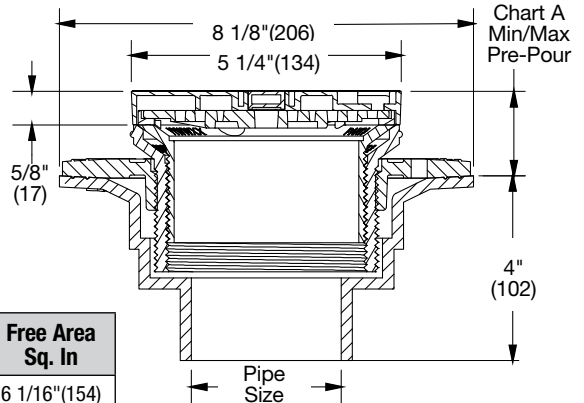


Chart A

| 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) |

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

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--|------------|--------|--|------------|
| None | No Hub Outlet (FD-1190-PR 2, 3, 4" Only) | No Add | -15 | Strainer Extension (DD-50) | \$227.50 |
| None | No Hub Outlet (FD-1190-PR 6" Only) | \$192.50 | -61 | ABS Body w/Socket Outlet (FD-1190-PR Only) | 162.00 |
| P | Push-On Outlet (FD-1190-PR Only) | No Add | -F4-50 | 4" Round Cast Iron Funnel | 287.00 |
| T | Threaded Outlet (FD-1190-PR Only) | 129.00 | -F4-1 | 4" Round Nickel Bronze Funnel | 683.00 |
| X | Inside Caulk (FD-1190-PR Only) | No Add | -F6-1 | 6" Round Nickel Bronze Funnel | 999.00 |
| -7 | Trap Primer Tapping | No Add | -G-50 | 4" x 9" Oval Cast Iron Funnel | 676.00 |
| -8 | Ball Float Backwater Valve (2, 3, 4" Only) | 603.00 | -G-1 | 4" x 9" Oval Nickel Bronze Funnel | 1,393.00 |
| -13 | Galvanized Body (FD-1190-PR Only) | 337.00 | -S0 | Side Outlet (FD-1190-PR 2, 3, 4" Only) | 349.50 |



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

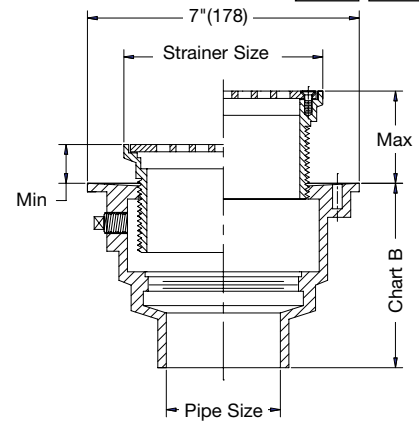
On-Grade Floor Drains with Stainless Steel Strainers

FD-1200-A

Floor Drain with Heavy Duty Round Stainless Steel Strainer



| Model Number | Weight (lbs.) | Str. Size | Pipe Size | Strainer | List Price |
|----------------|---------------|-----------|-----------|-----------------|------------|
| FD-1202,3,4-A5 | 8 | 5" | 2,3,4" | stainless steel | \$1,094.00 |
| FD-1202,3,4-A6 | 9.5 | 6" | 2,3,4" | stainless steel | 1,236.00 |
| FD-1202,3,4-A8 | 16 | 8" | 2,3,4" | stainless steel | 2,146.00 |



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

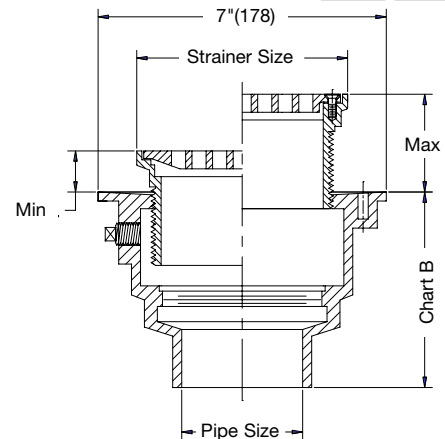
| Chart B | | | |
|-----------|--------|---------|---------|
| Pipe Size | No Hub | Push On | PVC/ABS |
| 2" | 4 3/4" | 5 1/2" | 4" |
| 3" | 4 3/4" | 5 1/2" | 4" |
| 4" | 4 3/4" | 5 1/2" | 4" |

FD-1200-B

Floor Drain with Heavy Duty Round Stainless Steel Strainer



| Model Number | Weight (lbs.) | Str. Size | Pipe Size | Strainer | List Price |
|----------------|---------------|-----------|-----------|-----------------|------------|
| FD-1202,3,4-B5 | 11 | 5" | 2,3,4" | stainless steel | \$1,393.00 |
| FD-1202,3,4-B6 | 12.5 | 6" | 2,3,4" | stainless steel | 1,593.00 |
| FD-1202,3,4-B8 | 16 | 8" | 2,3,4" | stainless steel | 2,843.00 |



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

Options for FD-1200 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--|------------|--------|---|------------|
| None | No Hub | No Add | -28 | 304SS Body & Collar w/BW Connection (No Hub Only) | \$1,697.00 |
| P | Push-On Outlet | No Add | -60 | PVC Body w/Socket Outlet | No Add |
| X | Inside Caulk | No Add | -61 | ABS Body w/Socket Outlet | No Add |
| -5 | Sediment Bucket | \$202.50 | -F4-3 | 4" Round SS Funnel | 1,019.00 |
| -6 | Vandal Proof | 102.00 | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| -7 | Trap Primer Tapping | No Add | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -8 | Ball Float Backwater Valve (2,3,4" Only) | 703.50 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -13 | Galvanized Body | 365.50 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -15 | Strainer Extension (DD-50) | 264.00 | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |

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 | \$1,297.00 |
| FD-1292, 3, 4-PR6 | 15 | 6"(152) | 2, 3, 4" | stainless steel | 1,460.00 |
| FD-1292, 3, 4-PR7 | 17 | 7"(178) | 2, 3, 4" | stainless steel | 1,937.00 |
| FD-1292, 3, 4-PR8 | 20 | 8"(203) | 2, 3, 4" | stainless steel | 2,754.00 |

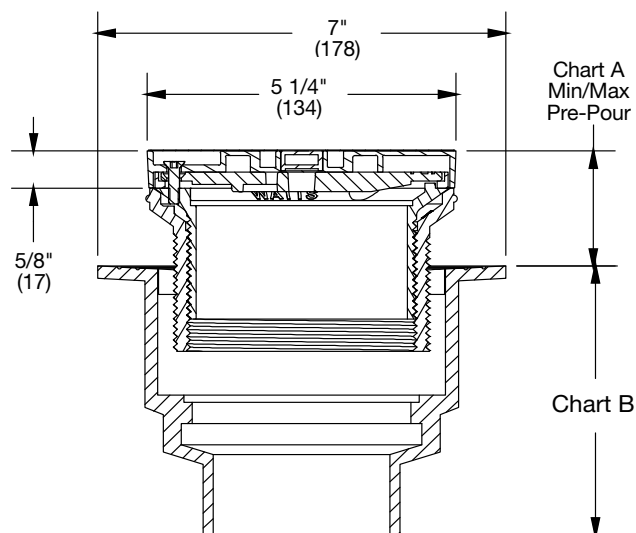


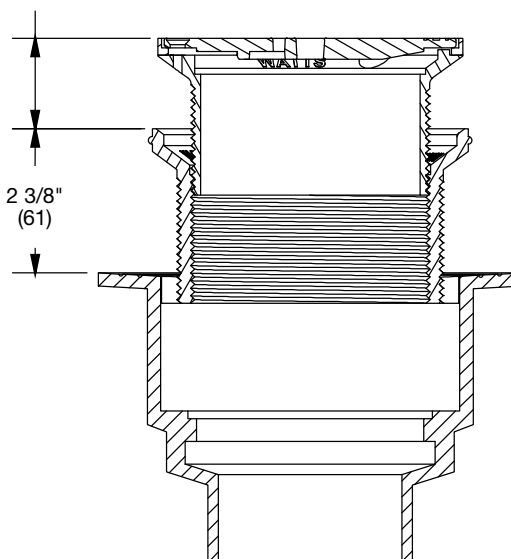
Chart A

| 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) |

0-7/8" Adj.
Post-Pour



Options for FD-1290-PR Series

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--|------------|--------|--------------------------------|------------|
| None | No Hub Outlet | No Add | -15 | Strainer Extension (DD-50) | \$264.00 |
| P | Push-On Outlet | No Add | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| T | Threaded Outlet | \$151.50 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| X | Inside Caulk | No Add | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -7 | Trap Primer Tapping | No Add | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -8 | Ball Float Backwater Valve (2, 3, 4" Only) | 703.50 | | | |
| -13 | Galvanized Body | 365.50 | | | |



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-60

Pronto!® PVC Adjustable Floor Drain w/Integrated Level

| Model Number | Weight Lbs. | Str. Size | Outlet Size | Strainer | List Price |
|----------------------|-------------|-----------|-------------|-----------------|------------|
| FD-1292, 3, 4-PR5-60 | 4 | 5"(127) | 2, 3, 4" | stainless steel | \$964.50 |
| FD-1292, 3, 4-PR6-60 | 5 | 6"(152) | 2, 3, 4" | stainless steel | 1,169.00 |
| FD-1292, 3, 4-PR7-60 | 6 | 7"(178) | 2, 3, 4" | stainless steel | 1,658.00 |
| FD-1292, 3, 4-PR8-60 | 7 | 8"(203) | 2, 3, 4" | stainless steel | 2,568.00 |



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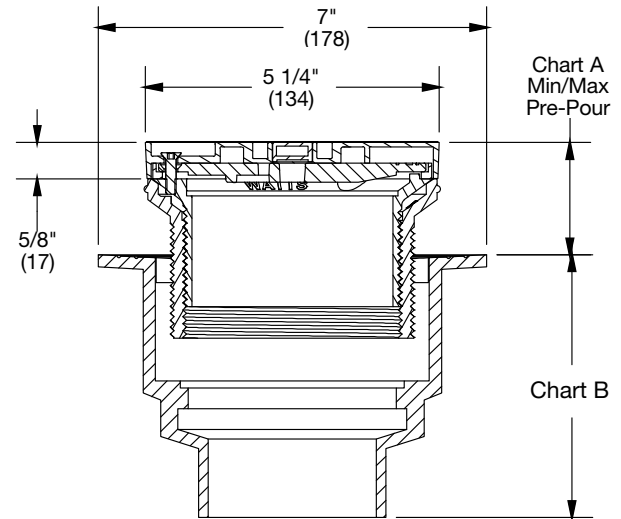


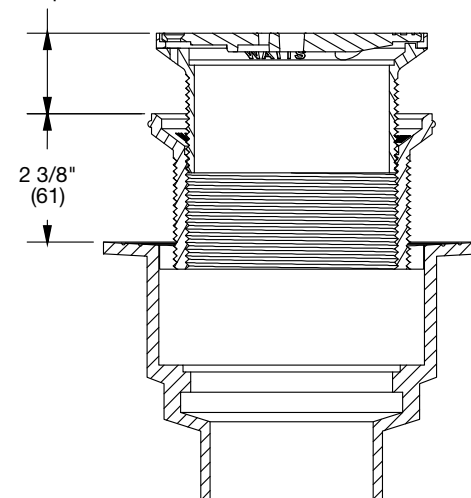
Chart A

| 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



Options for FD-1290-PR-60 Series

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|-------------------------------|------------|--------|--------------------------------|------------|
| -7 | Trap Primer Tapping | No Add | -G-1 | 4x9" Oval Nickel Bronze Funnel | \$1,546.00 |
| -8 | Ball Float Backwater Valve | \$703.50 | | | |
| -61 | ABS Body w/Socket Outlet | 189.50 | | | |
| -F4-50 | 4" Round Cast Iron Funnel | 335.00 | | | |
| F4-1 | 4" Round Nickel Bronze Funnel | 797.00 | | | |
| -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 | | | |
| -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 | | | |
| -15 | Strainer Extension (DD-50) | 264.00 | | | |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

WATTS®

On-Grade Floor Drains with Stainless Steel Strainers

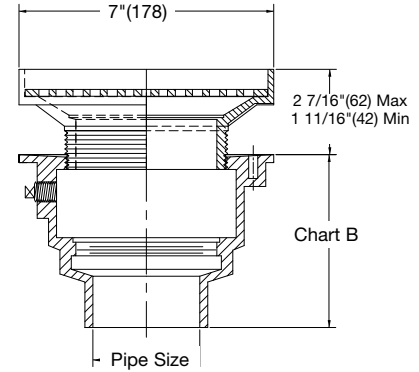
FD-1200-ER

Floor Drain with Stainless Steel Extended Rim Strainer

| Model Number | Weight (lbs.) | Str. Size | Pipe Size | Strainer | List Price |
|-----------------|---------------|-----------|-----------|-----------------|------------|
| FD-1202,3,4-ER7 | 11 | 7" | 2,3,4" | stainless steel | \$2,267.00 |



| 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-1200-L

Floor Drain with Heavy Duty Square Stainless Steel Strainer

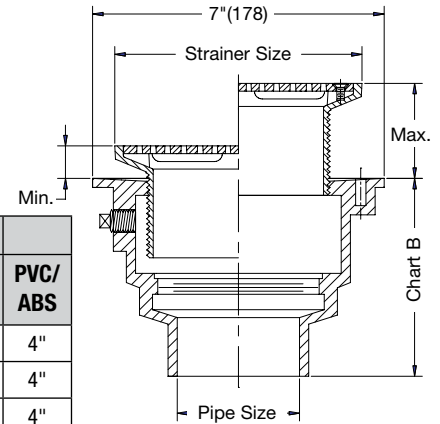


| Model Number | Weight (lbs.) | Str. Size | Pipe Size | Strainer | List Price |
|----------------|---------------|-----------|-----------|-----------------|------------|
| FD-1202,3,4-L5 | 10 | 5x5" | 2,3,4" | stainless steel | \$1,506.00 |
| FD-1202,3,4-L6 | 14 | 6x6" | 2,3,4" | stainless steel | 1,879.00 |
| FD-1202,3,4-L8 | 16 | 8x8" | 2,3,4" | stainless steel | 2,403.00 |



| Chart A | | |
|----------|--------|---------|
| Strainer | Min. | Max. |
| 5"x5" | 1 1/2" | 2 5/16" |
| 6"x6" | 1 1/2" | 2 5/16" |
| 8"x8" | 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" |



FD-1200-M

Floor Drain with Square Stainless Steel Strainer

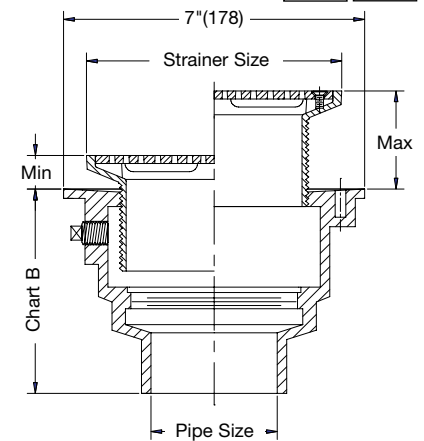


| Model Number | Weight (lbs.) | Str. Size | Pipe Size | Strainer | List Price |
|----------------|---------------|-----------|-----------|-----------------|------------|
| FD-1202,3,4-M5 | 10 | 5"x5" | 2,3,4" | stainless steel | \$1,197.00 |
| FD-1202,3,4-M6 | 12.5 | 6"x6" | 2,3,4" | stainless steel | 1,634.00 |
| FD-1202,3,4-M8 | 16 | 8"x8" | 2,3,4" | stainless steel | 1,905.00 |



| Chart A | | |
|----------|--------|---------|
| Strainer | Min. | Max. |
| 5"x5" | 1 1/2" | 2 5/16" |
| 6"x6" | 1 1/2" | 2 5/16" |
| 8"x8" | 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" |



Options for FD-1200 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--|------------|--------|---|------------|
| None | No Hub | No Add | -28 | 304SS Body & Collar w/BW Connection (No Hub only) | \$1,697.00 |
| P | Push-On Outlet | No Add | -60 | PVC Body w/Socket Outlet | No Add |
| X | Inside Caulk | No Add | -61 | ABS Body w/Socket Outlet | No Add |
| -5 | Sediment Bucket | \$ 202.50 | -F4-3 | 4" Round SS Funnel | 1,019.00 |
| -6 | Vandal Proof | 102.00 | -F4-50 | 4" Round Cast Iron Funnel | 335.00 |
| -7 | Trap Primer Tapping | No Add | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -8 | Ball Float Backwater Valve (2,3,4" Only) | 703.50 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -13 | Galvanized Body | 365.50 | -G-50 | 4x9" Oval Cast Iron Funnel | 788.50 |
| -15 | Strainer Extension (DD-50) | 264.00 | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |



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

Channel Drains/Accessories

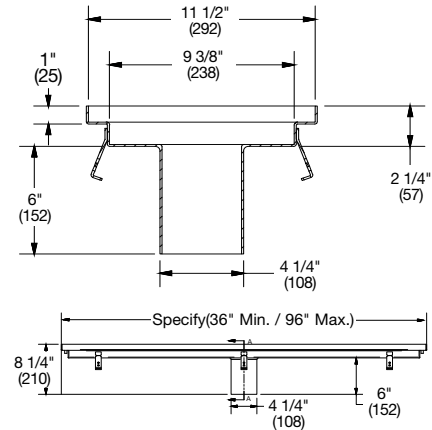
TD-300

Elevator Channel Drain

| Model Number | Size | EDP Number | Grate | List Price |
|----------------------------|------|------------|-----------------|------------|
| TD-324 | 24" | 8189398 | stainless steel | \$9,373.00 |
| *TD-336 | 36" | 8189211 | stainless steel | 14,058.00 |
| *TD-342 | 42" | 8189377 | stainless steel | 16,391.00 |
| *TD-348 | 48" | 8189779 | stainless steel | 18,498.00 |
| *TD-360 | 60" | 8189780 | stainless steel | 20,368.00 |
| *TD-396 | 96" | 8189375 | stainless steel | 37,470.00 |
| Special Order: Add Per Ft. | | | | \$4,287.00 |

Options for TD-300:

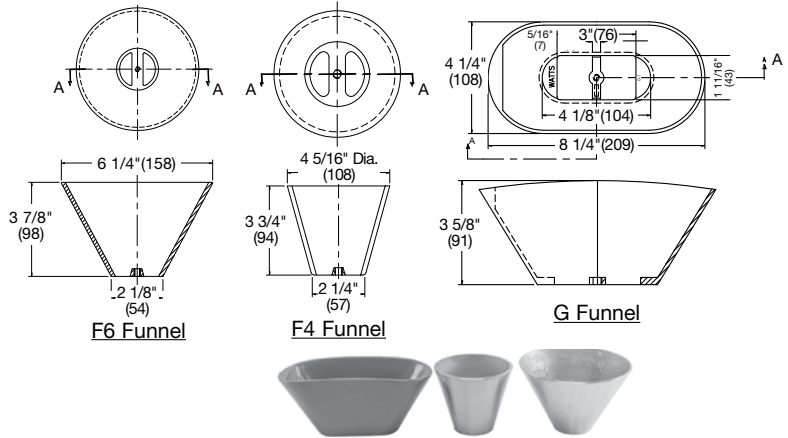
| Suffix | Description | List Price |
|--------|------------------------|------------|
| -06 | 6" (152) No Hub Outlet | \$677.50 |



FD-Funnels

Bolt-On Funnels

| Model Number | EDP# | Size | Material | List Price |
|--------------|---------|-----------|-----------------|------------|
| F4-50 | 8135668 | 4" Round | cast iron | \$335.00 |
| F4-1 | 8135666 | 4" Round | nickel bronze | 799.00 |
| F4-3 | 8187293 | 4" Round | stainless steel | 1,021.00 |
| F6-1 | 8135671 | 6" Round | nickel bronze | 1,165.00 |
| G-50 | 8141444 | 4x9" Oval | cast iron | 789.50 |
| G-1 | 8141441 | 4x9" Oval | nickel bronze | 1,627.00 |
| G-3 | 8141443 | 4x9" Oval | stainless steel | 2,031.00 |



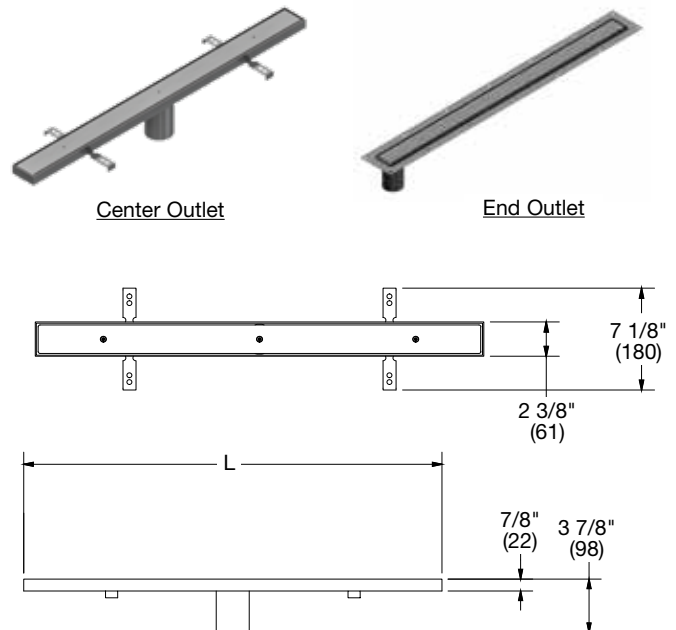
WSC-300-LR

Ligature Resistant Waterline Shower Channel

| Model Number | Pipe Size | Top Size | List Price |
|---------------|-----------|--------------------------|------------|
| WSC-312-LR | 2" | 12" SS LR Shower Channel | \$2,198.00 |
| WSC-312-LR-FC | 2" | w/Membrane Clamp | 2,419.00 |
| WSC-324-LR | 2" | 24" SS LR Shower Channel | 2,565.00 |
| WSC-324-LR-FC | 2" | w/Membrane Clamp | 2,690.00 |
| WSC-330-LR | 2" | 30" SS LR Shower Channel | 2,808.00 |
| WSC-330-LR-FC | 2" | w/Membrane Clamp | 2,940.00 |
| WSC-336-LR | 2" | 36" SS LR Shower Channel | 3,040.00 |
| WSC-336-LR-FC | 2" | w/Membrane Clamp | 3,180.00 |
| WSC-342-LR | 2" | 42" SS LR Shower Channel | 3,276.00 |
| WSC-342-LR-FC | 2" | w/Membrane Clamp | 3,427.00 |
| WSC-348-LR | 2" | 48" SS LR Shower Channel | 3,663.00 |
| WSC-348-LR-FC | 2" | w/ Membrane Clamp | 4,030.00 |
| WSC-360-LR | 2" | 60" SS LR Shower Channel | 3,884.00 |
| WSC-360-LR-FC | 2" | w/Membrane Clamp | 4,272.00 |

Options for WSC-300-LR:

| Suffix | Description | List Price |
|--------|-------------|------------|
| -EO | End Outlet | No Add |



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



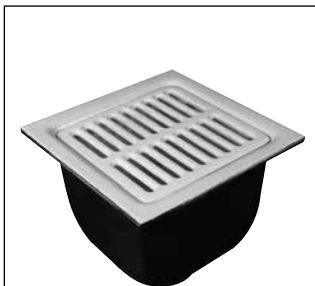
FS-710
8" Square x 6" Deep



FS-720
8" Round x 6" Deep



FS-730
12" Square x 6" Deep



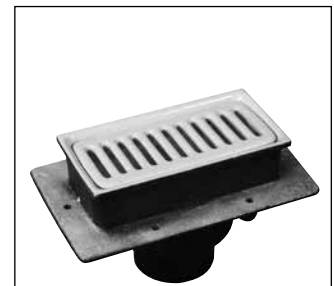
FS-740
12" Square x 8" Deep



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

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.

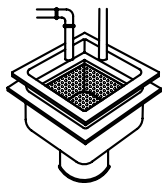
-G-1 Oval Funnel

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

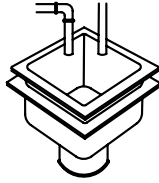
-US Buy American Compliant

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

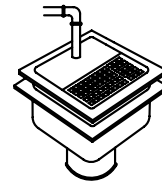
Option Configurations



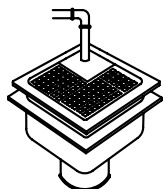
-5 Sediment Bucket



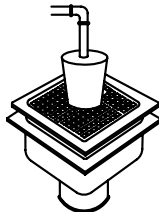
-33 Less Grate



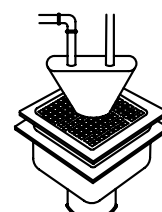
-150 1/2 Grate



-175 3/4 Grate



-F4-1 NB Round Funnel



-G-1 NB Oval Funnel

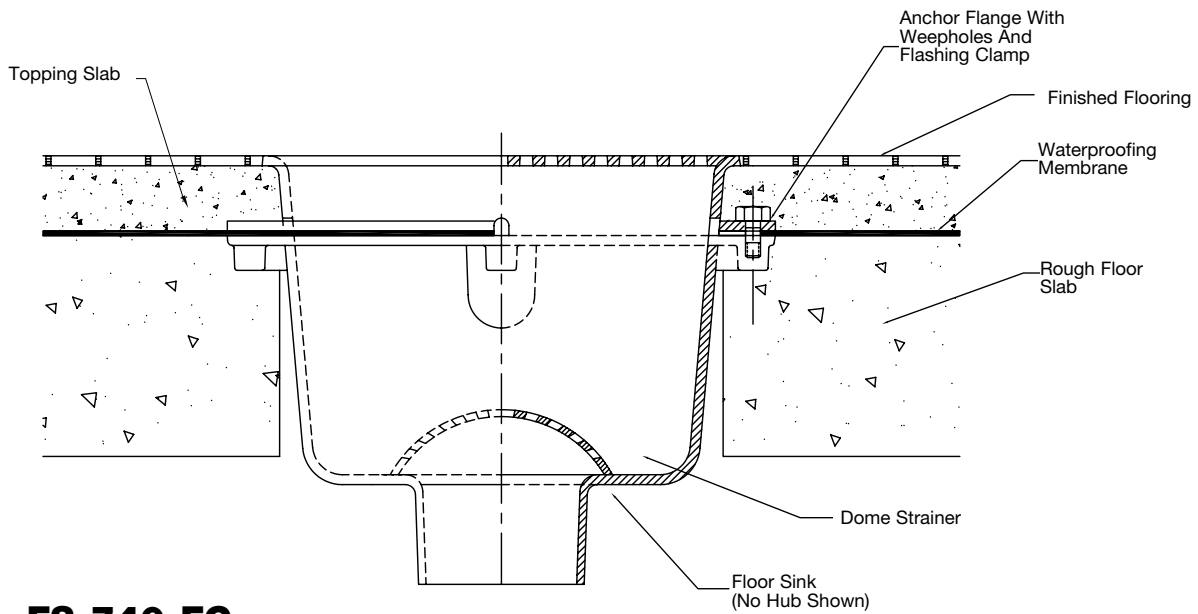
Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



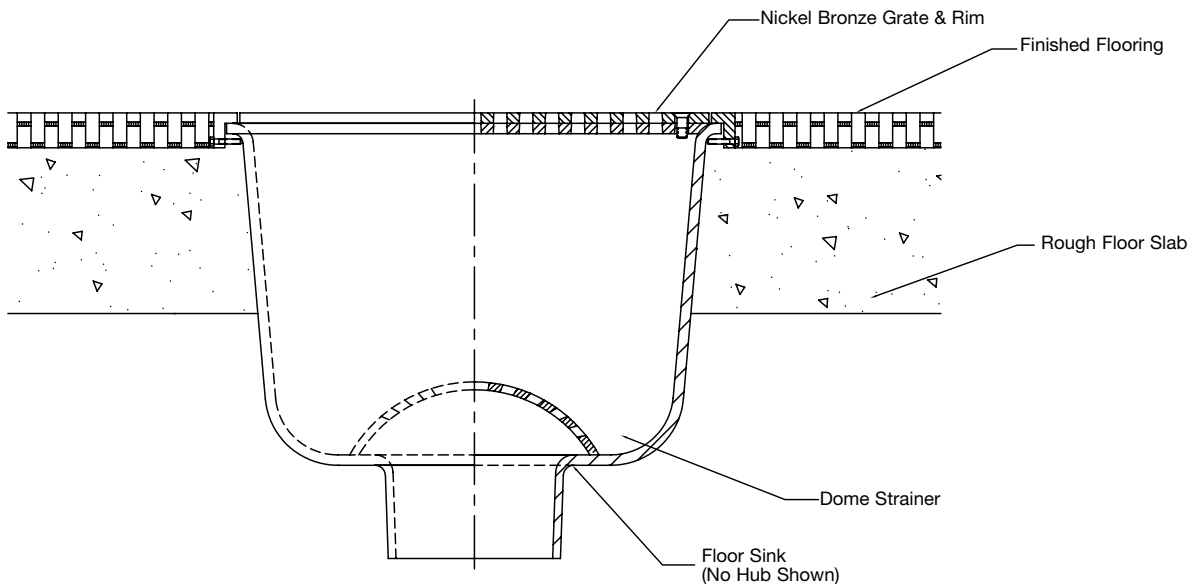
Sanitary Floor Sinks

Typical Installations



FS-740-FC

ABOVE GRADE INSTALLATION



FS-740-1

ON GRADE INSTALLATION



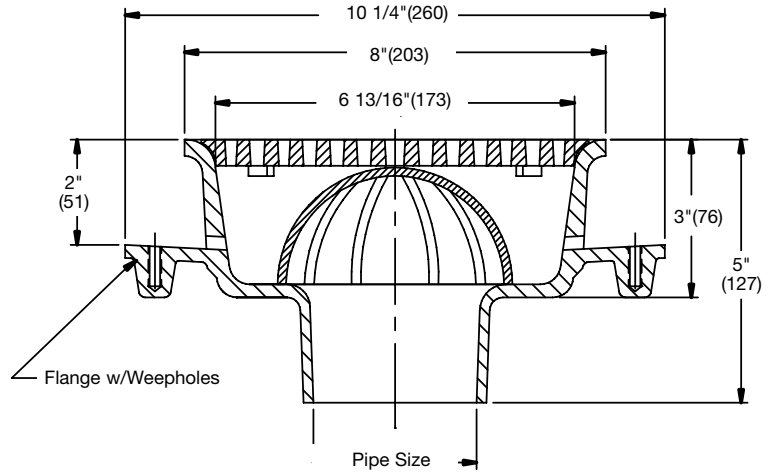
Consult factory for all applications outside of listed parameters.
Prices do not include applicable taxes.

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 | \$2,556.00 |
| FS-702, 3, 4-1 | 20 | 8" Round | 2,3,4" | nickel bronze | 3,356.00 |



Options for FS-700 Series

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|-------------------------------------|------------|--------|--------------------------------|------------|
| None | No Hub | No Add | -150 | 1/2 Grate | No Add |
| P | Push-On Outlet | No Add | -175 | 3/4 Grate | No Add |
| FC | Flange w/Weepholes & Flashing Clamp | \$348.50 | -F4-1 | 4" Round Nickel Bronze Funnel | \$797.00 |
| -5 | Sediment Bucket | 415.50 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -6 | Vandal Proof (-1 Ony) | 144.00 | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -7 | Trap Primer Tapping | 358.50 | | | |
| -9 | Hinged Grate (FS-710-1, -3 Only) | 655.00 | | | |
| -21 | Secondary Strainer | 127.50 | | | |
| -33 | Less Grate | -483.00 | | | |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

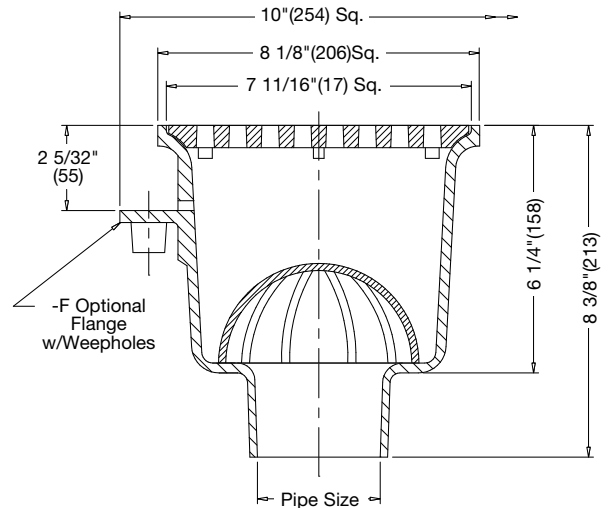


Sanitary Floor Sinks

FS-710

8" Square x 6" Deep Sanitary Floor Sink

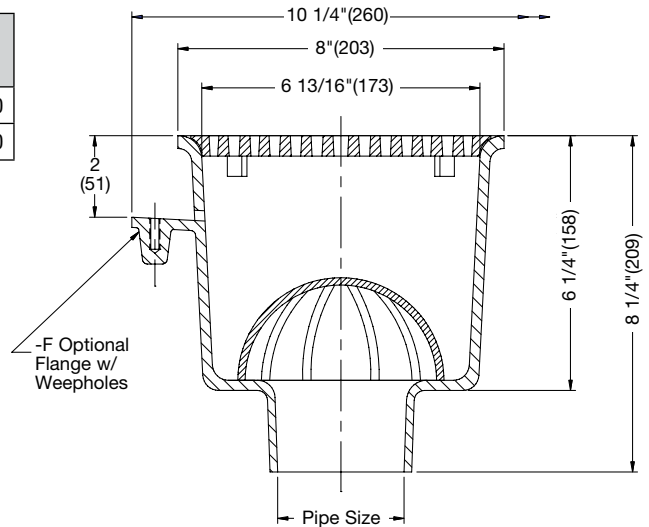
| Model Number | Weight (lbs.) | Top Size | Outlet Size | Top | List Price |
|----------------|---------------|----------|-------------|---------------|------------|
| FS-712, 3, 4 | 20 | 8" Sq. | 2,3,4" | porcelain | \$2,926.00 |
| FS-712, 3, 4-1 | 20 | 8" Sq. | 2,3,4" | nickel bronze | 3,728.00 |



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 | \$2,687.00 |
| FS-722, 3, 4-1 | 16 | 8" Round | 2,3,4" | nickel bronze | 3,487.00 |



Options for FS-710/720 Series

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|---|------------|--------|--------------------------------|------------|
| None | No Hub | No Add | -21 | Secondary Strainer | \$127.50 |
| P | Push-On Outlet | No Add | -33 | Less Grate | -483.00 |
| X | Inside Caulk Outlet | No Add | -150 | 1/2 Grate | No Add |
| -F | Flange w/Weepholes | \$345.00 | -175 | 3/4 Grate | No Add |
| -FC | Flange w/Weepholes & Flashing Clamp | 693.00 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -3 | Stainless Steel (Rim & Grate) (FS-710 Only) | 1,099.00 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -5 | Sediment Bucket | 415.00 | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -6 | Vandal Proof (-1,-3 Only) | 144.00 | | | |
| -7 | Trap Primer Tapping | 358.50 | | | |
| -9 | Hinged Grate (FS-710-1, -3 Only) | 655.00 | | | |



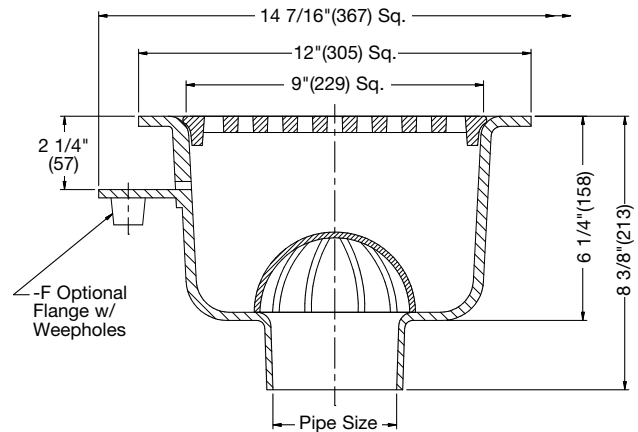
Consult factory for all applications outside of listed parameters.
Prices do not include applicable taxes.

Sanitary Floor Sinks

FS-730

12" Square x 6" Deep Sanitary Floor Sink

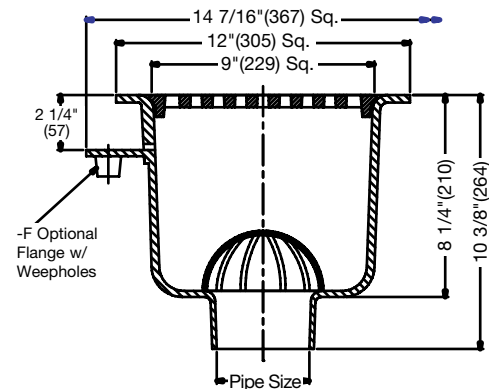
| Model Number | Weight (lbs.) | Top Size | Outlet Size | Top | List Price |
|----------------|---------------|----------|-------------|---------------|------------|
| FS-732, 3, 4 | 32 | 12" Sq. | 2,3,4" | porcelain | \$3,935.00 |
| FS-732, 3, 4-1 | 32 | 12" Sq. | 2,3,4" | nickel bronze | 5,329.00 |



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 | \$4,141.00 |
| FS-742, 3, 4-1 | 34 | 12" Sq. | 2,3,4" | nickel bronze | 5,537.00 |



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

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|-------------------------------------|------------|--------|----------------------------------|------------|
| None | No Hub | No Add | -9 | Hinged Grate (-1, -3 Only) | \$655.00 |
| P | Push-On Outlet | No Add | -21 | Secondary Strainer | 127.50 |
| X | Inside Caulk Outlet | No Add | -33 | Less Grate | -483.00 |
| -F | Flange w/Weepholes | \$721.50 | -128 | Grate with 2 1/2" Center Opening | 335.00 |
| -FC | Flange w/Weepholes & Flashing Clamp | 1,081.00 | -150 | 1/2 Grate | No Add |
| -3 | Stainless Steel (Rim & Grate) | 1,673.00 | -175 | 3/4 Grate | No Add |
| -5 | Sediment Bucket | 595.00 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -6 | Vandal Proof (-1, -3 Only) | 144.00 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -7 | Trap Primer Tapping | 358.50 | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

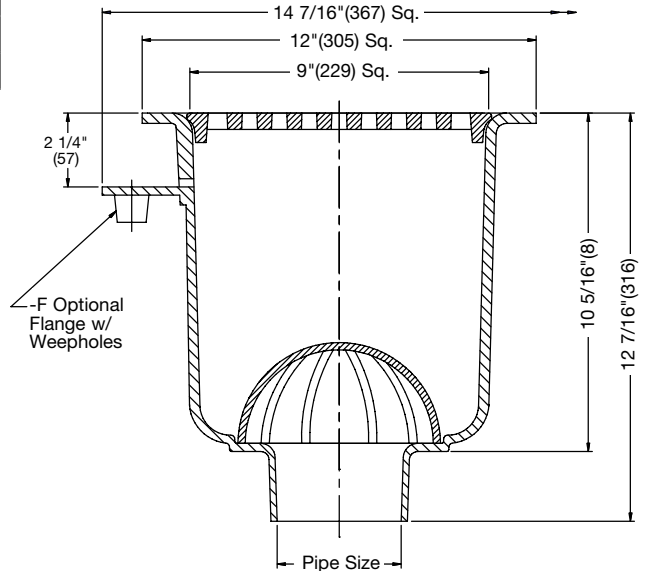


Sanitary Floor Sinks

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 | \$4,357.00 |
| FS-752, 3, 4-1 | 36 | 12" Sq. | 2,3,4" | nickel bronze | 5,757.00 |

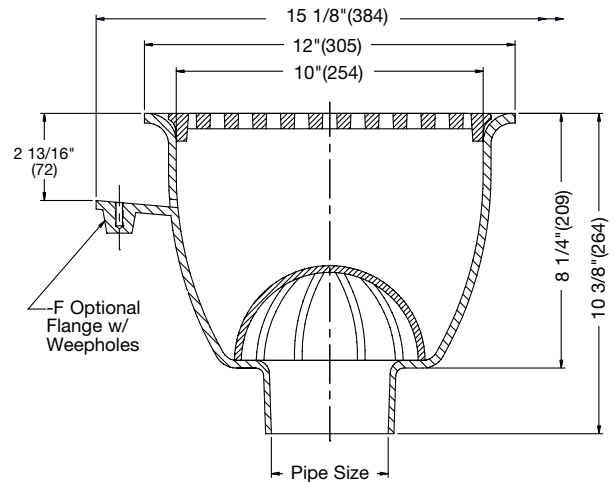


Options See Pg. 76

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 | \$2,868.00 |
| FS-762, 3, 4-1 | 32 | 12" Round | 2,3,4" | nickel bronze | \$4,220.00 |



Options for FS-760 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|-------------------------------------|------------|--------|--------------------------------|------------|
| None | No Hub | No Add | -21 | Secondary Strainer | \$127.50 |
| P | Push-On Outlet | No Add | -33 | Less Grate | -483.00 |
| -F | Flange w/Weepholes | \$721.50 | -150 | 1/2 Grate | No Add |
| -FC | Flange w/Weepholes & Flashing Clamp | 1,081.00 | -175 | 3/4 Grate | No Add |
| -5 | Sediment Bucket | 595.00 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -6 | Vandal Proof (-1, -3 Only) | 144.00 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -7 | Trap Primer Tapping | 358.50 | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |



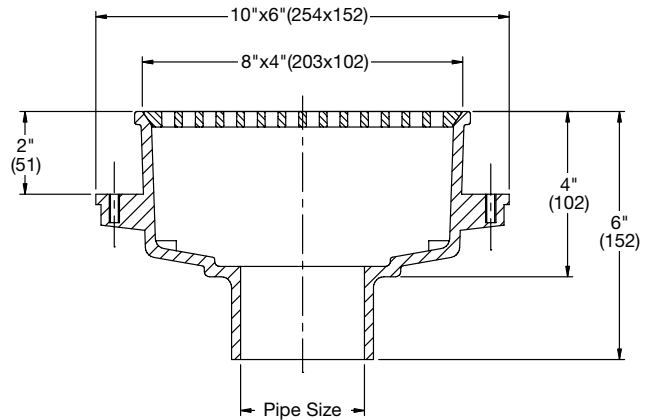
Consult factory for all applications outside of listed parameters.
Prices do not include applicable taxes.

Sanitary Floor Sinks

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"x8" | 2,3" | porcelain | \$2,926.00 |
| FS-772, 3-1 | 16 | 4"x8" | 2,3" | nickel bronze | 3,630.00 |



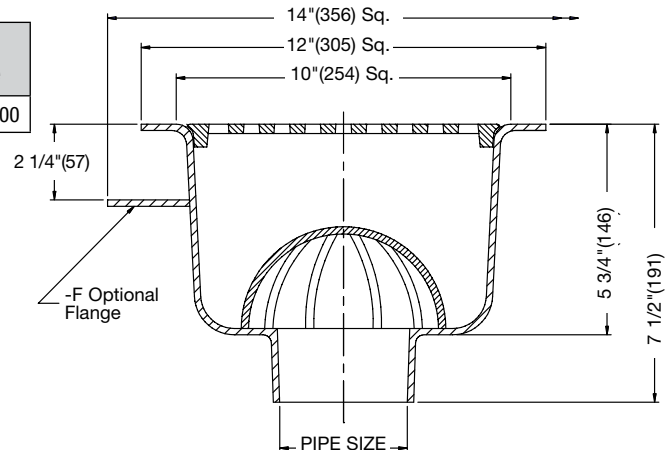
Options for FS-770 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|-------------------------|------------|--------|--------------------------------|------------|
| None | No Hub | No Add | -33 | Less Grate | \$-483.00 |
| P | Push-On Outlet | No Add | -150 | 1/2 Grate | No Add |
| -FC | Flashing Clamp | \$342.50 | F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -5 | Sediment Bucket | 415.50 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -6 | Vandal Proof (-1, Only) | 144.00 | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -7 | Trap Primer Tapping | 358.50 | | | |

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 | \$6,926.00 |



Options for FS-780 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|-------------------------------------|------------|--------|--------------------------------|-------------|
| None | No Hub | No Add | -33 | Less Grate | \$-2,097.00 |
| P | Push-On Outlet | No Add | -150 | 1/2 Grate | No Add |
| -F | Flange w/Weepholes | \$1,019.00 | -175 | 3/4 Grate | No Add |
| -FC | Flange w/Weepholes & Flashing Clamp | 1,916.00 | F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -5 | Sediment Bucket | 770.00 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -6 | Vandal Proof | 1,188.00 | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -21 | Secondary Strainer | 127.50 | | | |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

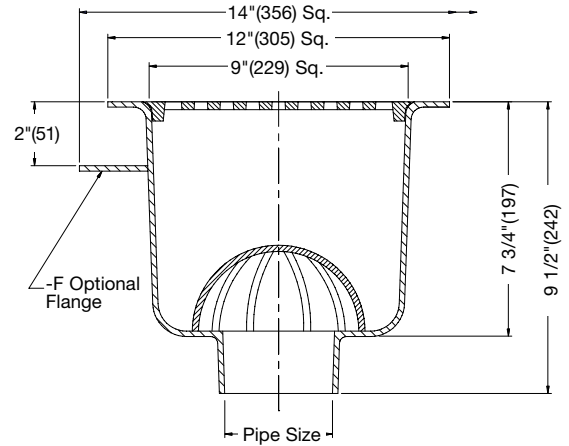


Sanitary Floor Sinks

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 | \$7,242.00 |



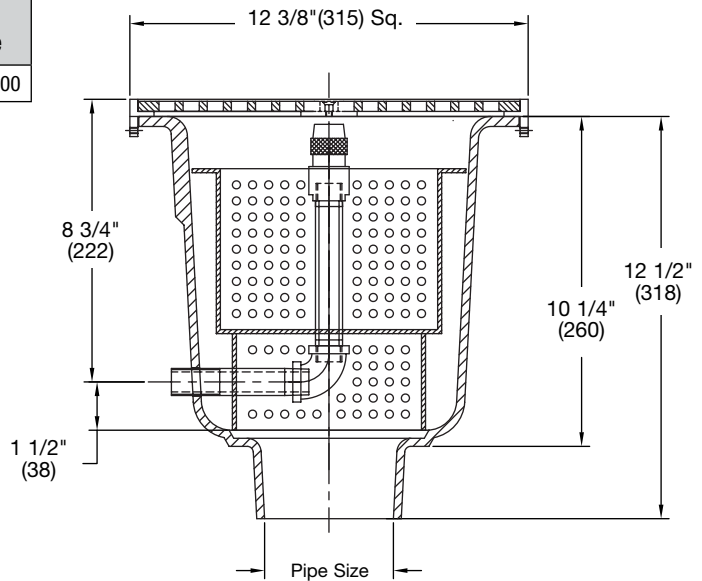
FS-800

Sanitary Can Wash

| Model Number | Weight (lbs.) | Top Size | Outlet Size | Top | List Price |
|--------------|---------------|----------|-------------|---------------|------------|
| FS-804 | 39 | 12" Sq. | 4" | nickel bronze | \$7,898.00 |

Options for FS-800 Series

| Suffix | Description | List Price |
|--------|--------------|------------|
| -6 | Vandal Proof | \$130.00 |



Options for FS-780 and FS-790 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|-------------------------------------|------------|--------|--------------------------------|-------------|
| None | No Hub | No Add | -33 | Less Grate | \$-2,097.00 |
| P | Push-On Outlet | No Add | -150 | 1/2 Grate | No Add |
| -F | Flange w/Weepholes | \$1,019.00 | -175 | 3/4 Grate | No Add |
| -FC | Flange w/Weepholes & Flashing Clamp | 1,916.00 | -F4-1 | 4" Round Nickel Bronze Funnel | 797.00 |
| -5 | Sediment Bucket | 770.00 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -6 | Vandal Proof | 1,188.00 | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -21 | Secondary Strainer | 127.50 | | | |



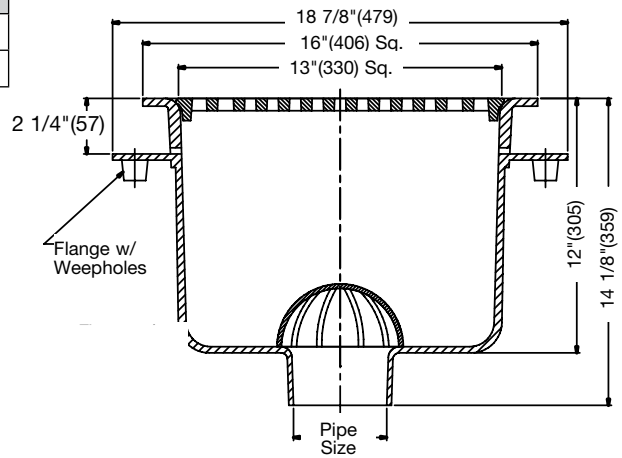
Consult factory for all applications outside of listed parameters.
Prices do not include applicable taxes.

Sanitary Floor Sinks

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 | \$8,709.00 |
| FS-854,6-1 | 150 | 16" Sq. | 4,6" | nickel bronze | 10,969.00 |



Options for FS-850 Series

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|------------------------|------------|--------|---------------------|------------|
| -FC | Flashing Clamp | \$1,049.00 | -150 | 1/2 Grate | No Add |
| -5 | Sediment Bucket | 1,540.00 | -175 | 3/4 Grate | No Add |
| -6 | Vandal Proof (-1 Only) | 144.00 | -F4-1 | 4" Round NB Funnel | \$797.00 |
| -7 | Trap Primer Tapping | 358.50 | -F6-1 | 6" Round NB Funnel | 1,165.00 |
| -9 | Hinged Grate | 655.00 | -G-1 | 4x9" Oval NB Funnel | 1,627.00 |
| -33 | Less Grate | -1,530.65 | | | |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

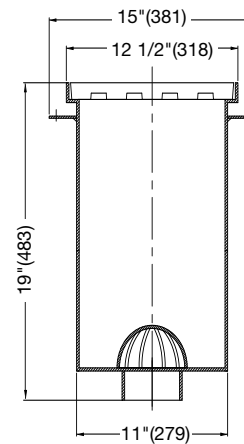
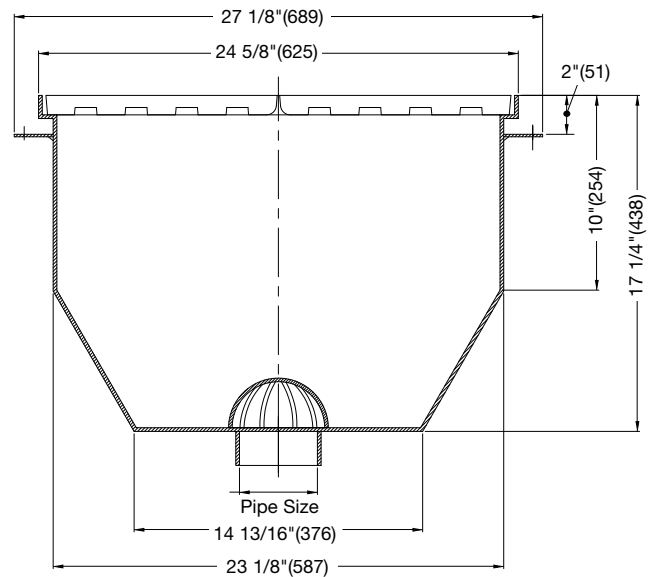


Sanitary Floor Receptor

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"x24" | 2,3,4,6" | ductile iron | \$17,634.00 |
| FS-902,3,4,6-1 | 82 | 12"x24" | 2,3,4,6" | nickel bronze | 22,565.00 |



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 | No Add | -175 | 3/4 Grate | No Add |
| -FC | Flashing Clamp | \$1,049.00 | -F4-1 | 4" Round Nickel Bronze Funnel | \$797.00 |
| -5 | SS Sediment Bucket | 3,494.00 | -F6-1 | 6" Round Nickel Bronze Funnel | 1,165.00 |
| -6 | Vandal Proof | 144.00 | -G-1 | 4x9" Oval Nickel Bronze Funnel | 1,627.00 |
| -33 | Less Grate | -3,928.40 | | | |



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.

WATTS®

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

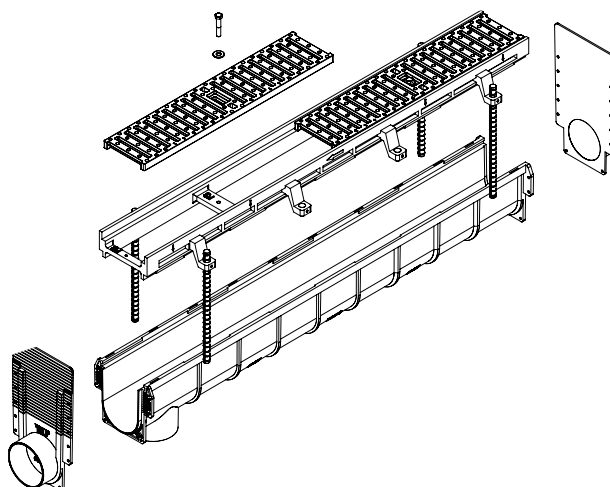


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Dead Level® Trench Drains

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, 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

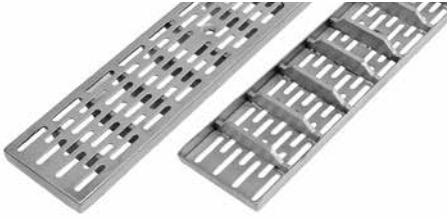
8189419 DLG-BK12 12"
8189003 DLG-BK24 24"
8189004 DLG-BK 48"



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

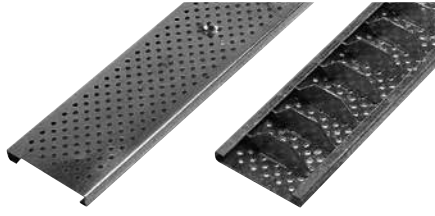
Dead Level® Trench Drains

Grating



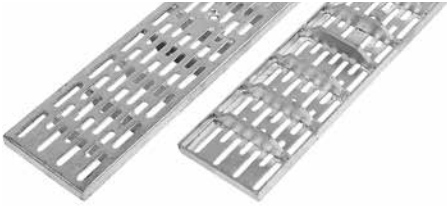
Reinforced Galvanized
Steel Slotted

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



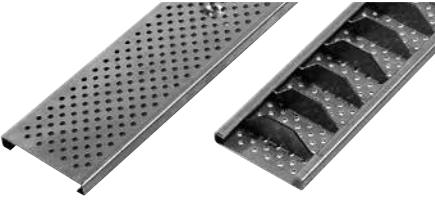
Reinforced Galvanized
Steel Perforated

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" Wide

| Grating | Grating | Std. | DIN | ANSI | H-20 | ADA | Heel | Open |
|---------|---------------------------------------|--------|-------|-------|-----------|-----------|-------|------|
| Suffix | Desc. | Length | Class | Class | Compliant | Compliant | Proof | 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

| Grating | Grating | Std. | DIN | ANSI | H-20 | ADA | Heel | Open |
|---------|---------------------------------------|--------|-------|-------|-----------|-----------|-------|------|
| Suffix | Desc. | Length | Class | Class | Compliant | Compliant | Proof | Area |
| 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 | Grating | Std. | DIN | ANSI | H-20 | ADA | Heel | Open |
|---------|---------------------------------------|--------|-------|-------|-----------|-----------|-------|------|
| Suffix | Desc. | Length | Class | Class | Compliant | Compliant | Proof | 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% |

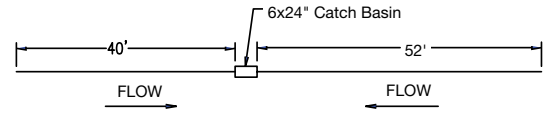
Catch Basins

| Grating | Grating | Std. | DIN | ANSI | H-20 | ADA | Heel | Open |
|----------|---|--------|-------|-------|-----------|-----------|-------|------|
| Suffix | Desc. | Length | Class | Class | Compliant | Compliant | Proof | 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)

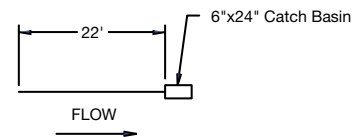
Galvanized Steel
Stainless Steel

FG
FS

8a. Configure Straight Run (EO or CO)

EX.

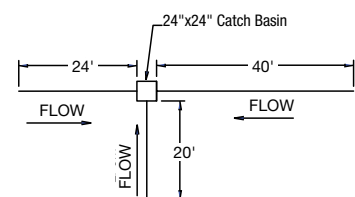
P22-EO-RSS-B6-FS
P = Polypropylene Frame
22 = Trench Length in Feet
EO = End Outlet
RSS = Reinforced Stainless Steel Slotted Grates
B6 = 6x24x24" Catch Basin
FS = Stainless Steel Frame Guard



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

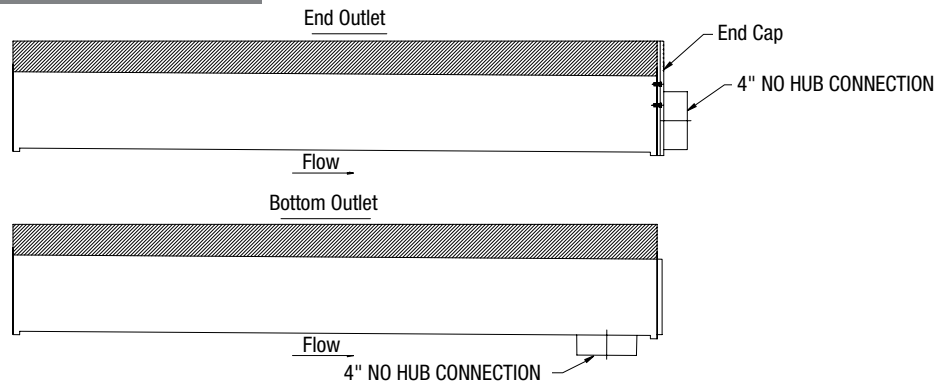


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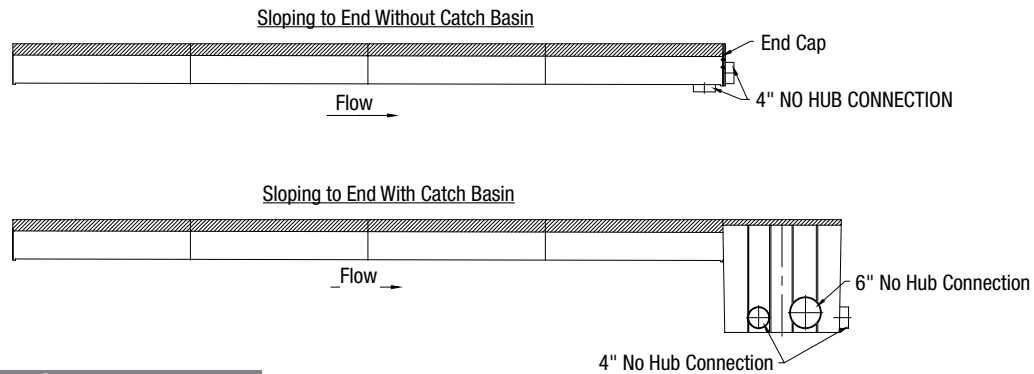
Dead Level® Trench Drains

Standard Configurations

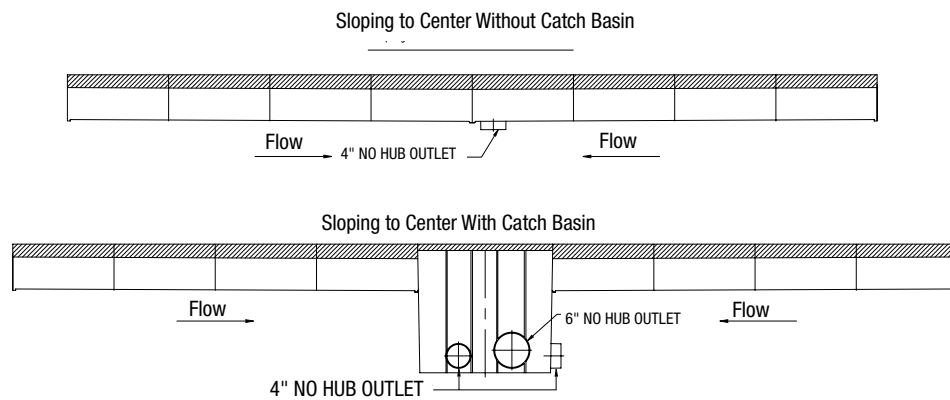
Outlet Variations



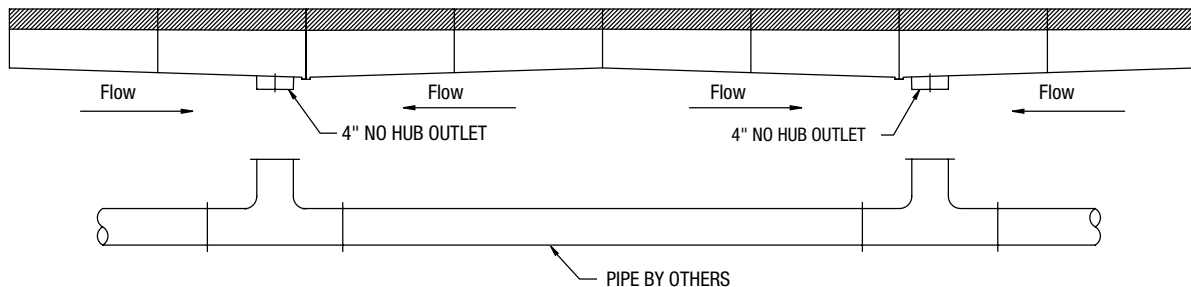
Sloping to End



Sloping to Center



Multiple Outlets

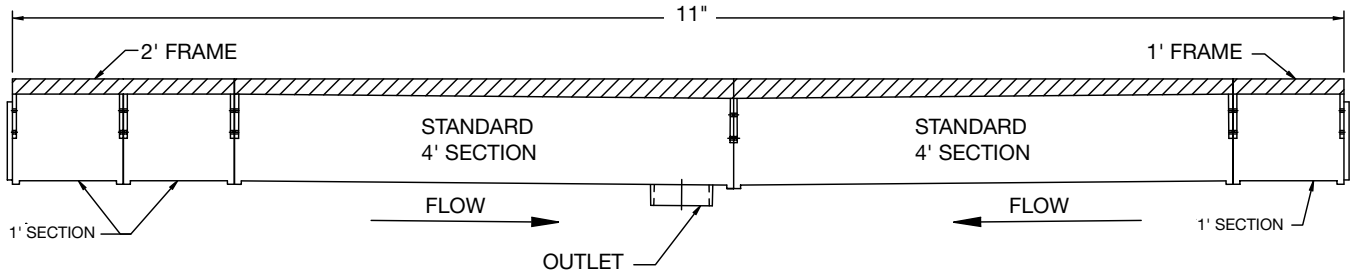


Dead Level® Trench Drains

Special Configurations

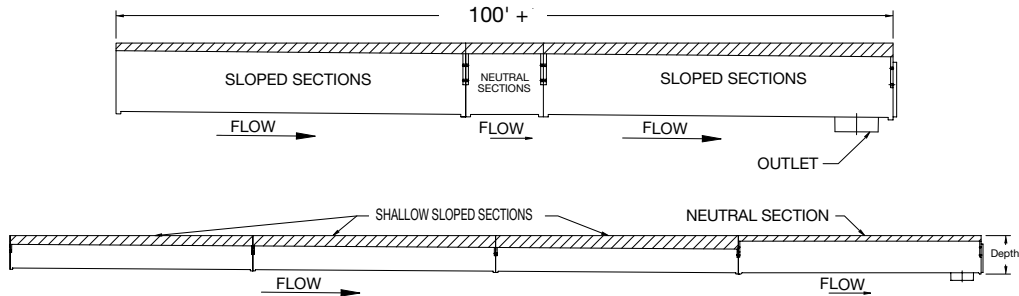
Use of Short Section

USE OF SHORT SECTIONS



Use of Neutral Channels

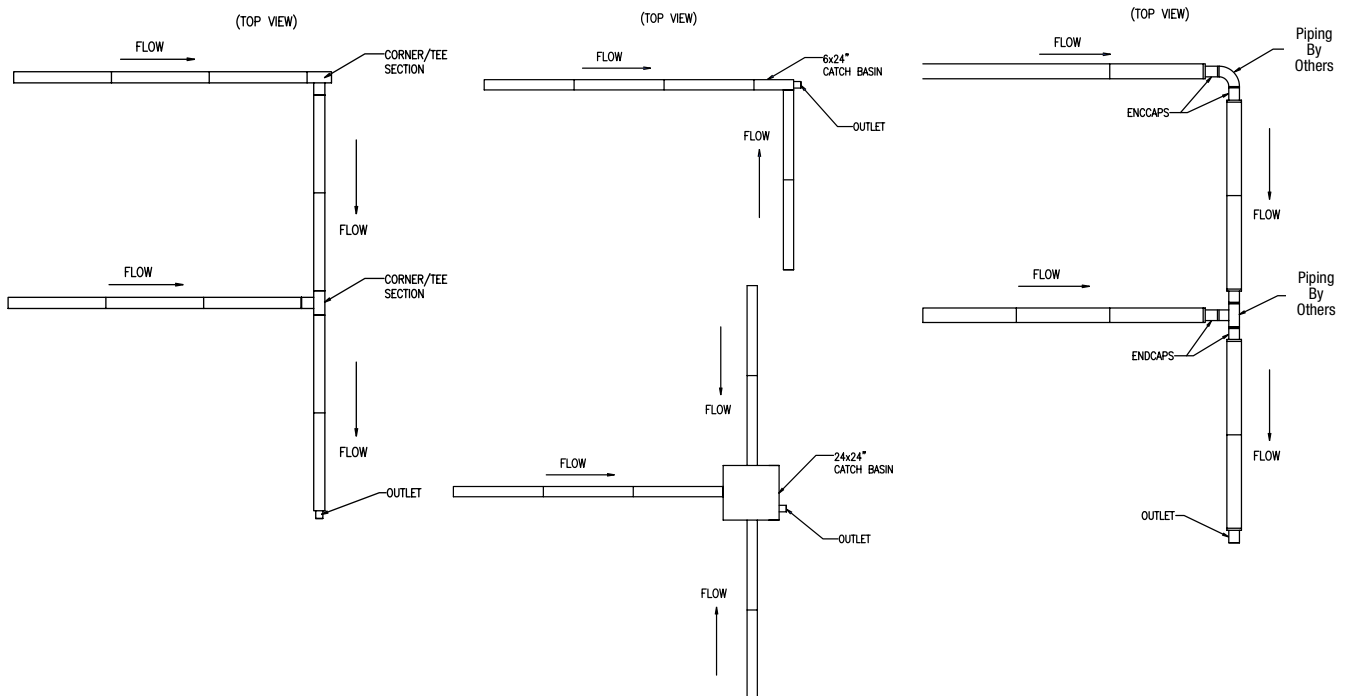
USE OF NEUTRAL CHANNELS EXTEND RUN BEYOND 100'



Use of Corner & Tee Section

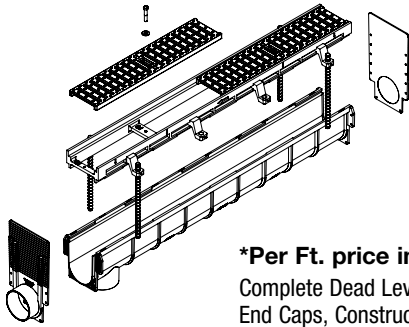
Corner or Tee w/Catch Basin

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.
Channel Clips may be ordered. See pricing below)

(Additional

| System Pricing | |
|--|---------------------|
| Dead Level D w/Ductile Iron Frame Grating Type | List Price Per Ft.* |
| BK - Brickslot | \$ 1,616.00 |
| BK-AC12 Brickslot Access Cover | 3,046.00 |
| BR - Decorative Bronze | 1,619.00 |
| DI - Ductile Iron | 1,188.00 |
| DI-ADA - ADA Ductile Iron | 1,267.00 |
| GDI - Galvanized Ductile Iron | 1,406.00 |
| GS - Galvanized Slotted | 1,030.00 |
| GP - Galvanized Perforated | 1,030.00 |
| SS - Stainless Slotted | 1,525.00 |
| SP - Stainless Perforated | 1,525.00 |
| RGS - HD Galvanized Slotted | 1,213.00 |
| RGP - HD Galvanized Perforated | 1,213.00 |
| RSS - HD Stainless Slotted | 1,699.00 |
| RSP - HD Stainless Perforated | 1,699.00 |
| PP - Polypropylene | 1,307.00 |
| SCI - Solid Cast Iron | 1,307.00 |
| LG - Less Grate | 861.00 |

| System Pricing | |
|---|---------------------|
| Dead Level P w/Polypropylene Frame Grating Type | List Price Per Ft.* |
| BK - Brickslot | \$1,446.00 |
| BK-AC12 Brickslot Access Cover | 2,879.00 |
| BR - Decorative Bronze | 1,415.00 |
| DI - Ductile Iron | 981.00 |
| DI-ADA - ADA Ductile Iron | 1,063.00 |
| GDI - Galvanized Ductile Iron | 1,200.00 |
| GS - Galvanized Slotted | 828.00 |
| GP - Galvanized Perforated | 828.00 |
| SS - Stainless Slotted | 1,321.00 |
| SP - Stainless Perforated | 1,321.00 |
| RGS - HD Galvanized Slotted | 1,008.00 |
| RGP - HD Galvanized Perforated | 1,008.00 |
| RSS - HD Stainless Slotted | 1,495.00 |
| RSP - HD Stainless Perforated | 1,495.00 |
| PP - Polypropylene | 795.50 |
| SCI - Solid Cast Iron | 1,103.00 |
| LG - Less Grate | 662.00 |

| Channel Clips Order # | List Price Each |
|-----------------------|-----------------|
| 8189227 | \$54.00 |



| Catch Basins | Description | List Price Per Unit |
|--------------|--|---------------------|
| CB-624D | 6x24x24 Catch Basin w/DI Frame | \$ 3,048.00 |
| CB-624P | 6x24x24 Catch Basin w/PP Frame | 3,048.00 |
| CB-624D-T | 6x24x24 Catch Basin w/DI Frame, Trash Basket | 3,279.00 |
| CB-624P-T | 6x24x24 Catch Basin w/PP Frame, Trash Basket | 3,279.00 |
| CB-2424 | 24x24x24 Catch Basin w/DI Grate | 8,366.00 |
| CB-2424T | 24x24x24 Catch Basin w/DI Grate, Trash Basket | 10,039.00 |
| CB-2424-RGS | 24x24x24 Catch Basin w/Galv. Grate | 16,575.00 |
| CB-2424T-RGS | 24x24x24 Catch Basin w/Galv. Grate, Trash Basket | 18,251.00 |
| CB-2424-SS | 24x24x24 Catch Basin w/SS Grate | 17,650.00 |
| CB-2424T-SS | 24x24x24 Catch Basin w/SS Grate, Trash Basket | 20,376.00 |



| Frame Guards | Description | Adder Per Ft. |
|--------------|-------------------|---------------|
| FG-BR | Decorative Bronze | \$549.00 |
| FG-GV | Galvanized Steel | 150.50 |
| FG-SS | Stainless Steel | 444.00 |



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 | \$2,571.00 |
| DI-ADA - ADA Ductile Iron | 2,740.00 |
| GDI - Galvanized Ductile Iron | 3,046.00 |
| RGP - HD Galvanized Perforated | 2,681.00 |
| RGS - HD Galvanized Slotted | 2,681.00 |
| RSP - HD Stainless Perforated | 3,689.00 |
| RSS - HD Stainless Slotted | 3,689.00 |
| SDI - Solid Ductile Iron | 2,862.00 |
| LG - Less Grate | 1,771.00 |

| Catch Basins | Description | List Price Per Unit |
|--------------|---|---------------------|
| CB-2424 | 24x24x24 Catch Basin w/DI Grate | \$8,366.00 |
| CB-2424T | 24x24x24 Catch Basin w/DI Grate, Trash Basket | 10,039.00 |
| CB-2424-RGS | 24x24x24 Catch Basin w/Galvanized Grate | 16,575.00 |
| CB-2424T-RGS | 24x24x24 Catch Basin w/Galvanized Grate, Trash Basket | 18,251.00 |
| CB-2424-SS | 24x24x24 Catch Basin w/SS Grate | 17,650.00 |
| CB-2424T-SS | 24x24x24 Catch Basin w/SS Grate, Trash Basket | 20,376.00 |

| Frame Guards | Description | Adder Per Ft. |
|--------------|------------------|---------------|
| -FGX-GV | Galvanized Steel | \$150.50 |
| -FGX-SS | Stainless Steel | 444.00 |



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 | \$1,616.00 |
| BK-AC12 Brickslot Access Cover | 3,046.00 |
| BR - Decorative Bronze | 1,619.00 |
| DI - Ductile Iron | 1,188.00 |
| DI-ADA Ductile Iron ADA | 1,269.00 |
| GDI Galvanized Ductile Iron | 1,406.00 |
| GP Galvanized Perforated | 1,030.00 |
| GS Galvanized Slotted | 1,030.00 |
| SP Stainless Steel Perforated | 1,525.00 |
| SS Stainless Steel Slotted | 1,525.00 |
| RGP Reinforced Galvanized Perforated | 1,215.00 |
| RGS Reinforced Galvanized Slotted | 1,215.00 |
| RSP Reinforced Stainless Steel Perforated | 1,699.00 |
| RSS Reinforced Stainless Steel Slotted | 1,699.00 |
| PP Polypropylene | 1,030.00 |
| SCI Solid Cast Iron | 1,307.00 |
| LG Less Grate | 861.00 |



***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 | Adder Per Ft. |
|--------------|-------------------|---------------|
| FG-BR | Decorative Bronze | \$549.00 |
| FG-GV | Galvanized Steel | 150.50 |
| FG-SS | Stainless Steel | 444.00 |

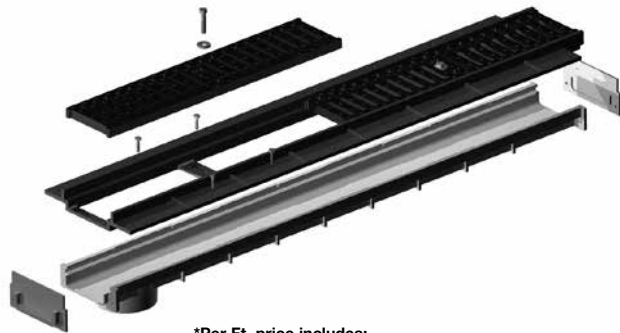
Dead Level® Z

6" Wide Flanged Deck Channel For Precast

System Pricing

| Grating Type | List Price Per Ft.* |
|------------------------------|---------------------|
| DI - Ductile Iron | \$1,188.00 |
| DI-ADA Ductile Iron ADA | 1,269.00 |
| GDI Galvanized Ductile Iron | 1,406.00 |
| RGP HD Galvanized Perforated | 1,215.00 |
| RGS HD Galvanized Slotted | 1,215.00 |
| RSP HD Stainless Perforated | 1,699.00 |
| RSS HD Stainless Slotted | 1,699.00 |

| Frame Guards | Description | Adder Per Ft. |
|--------------|-------------------|---------------|
| FG-BR | Decorative Bronze | \$549.00 |
| FG-GV | Galvanized Steel | 150.50 |
| FG-SS | Stainless Steel | 444.00 |



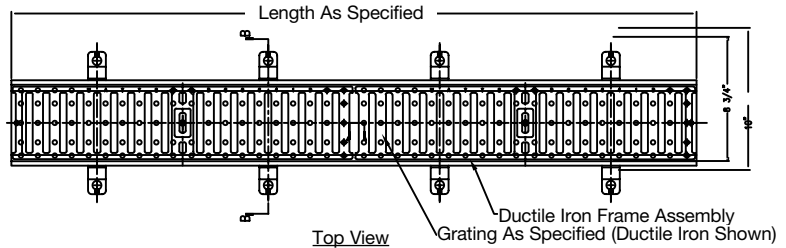
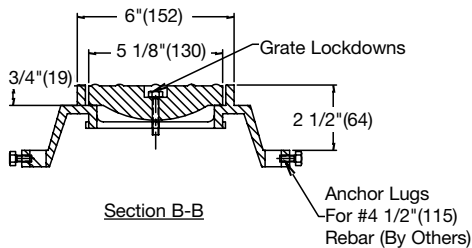
***Per Ft. price includes:**
Complete Dead Level® System with Channels, Frames, Grates, Lockdowns, Frame Connectors, End Caps, Construction Covers, and Hardware as Required.

Dead Level® 6" Wide Grate & Frame

DL-GF

6" Wide Ductile Iron Trench Frame & Grating

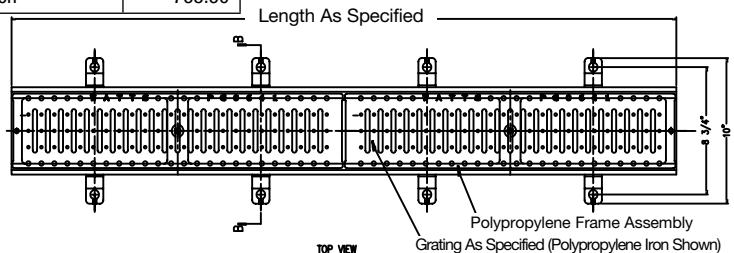
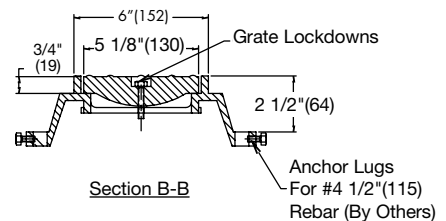
| Model Number | Weight (lbs.) | Frame | Grating | List Price Per Ft. |
|--------------|---------------|--------------|---------------------------------------|--------------------|
| DL-GF-BR | 14 lbs./ft. | ductile iron | decorative bronze | \$1,272.00 |
| DL-GF-DI | 16 lbs./ft. | ductile iron | ductile iron | 839.00 |
| DL-GF-DI-ADA | 16 lbs./ft. | ductile iron | ductile iron ADA | 921.00 |
| DL-GF-GDI | 16 lbs./ft. | ductile iron | galvanized ductile iron | 1,057.00 |
| DL-GF-GP | 11 lbs./ft. | ductile iron | galvanized perforated | 688.00 |
| DL-GF-GS | 11 lbs./ft. | ductile iron | galvanized slotted | 688.00 |
| DL-GF-RGP | 12 lbs./ft. | ductile iron | reinforced galvanized perforated | 868.00 |
| DL-GF-RGS | 12 lbs./ft. | ductile iron | reinforced galvanized slotted | 868.00 |
| DL-GF-SP | 11 lbs./ft. | ductile iron | stainless steel perforated | 1,180.00 |
| DL-GF-SS | 11 lbs./ft. | ductile iron | stainless steel slotted | 1,180.00 |
| DL-GF-RSP | 12 lbs./ft. | ductile iron | reinforced stainless steel perforated | 1,355.00 |
| DL-GF-RSS | 12 lbs./ft. | ductile iron | reinforced stainless steel slotted | 1,355.00 |
| DL-GF-SCI | 17 lbs./ft. | ductile iron | solid cast iron | 961.50 |



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 | \$1,070.00 |
| DLP-GF-DI | 8 lbs./ft. | polypropylene | ductile iron | 639.50 |
| DLP-GF-DI-ADA | 8 lbs./ft. | polypropylene | ductile iron ADA | 718.00 |
| DLP-GF-GDI | 8 lbs./ft. | polypropylene | galvanized ductile iron | 856.00 |
| DLP-GF-GP | 3 lbs./ft. | polypropylene | galvanized perforated | 486.50 |
| DLP-GF-GS | 3 lbs./ft. | polypropylene | galvanized slotted | 486.50 |
| DLP-GF-PP | 3 lbs./ft. | polypropylene | polypropylene | 486.50 |
| DLP-GF-RGP | 4 lbs./ft. | polypropylene | reinforced galvanized perforated | 666.00 |
| DLP-GF-RGS | 4 lbs./ft. | polypropylene | reinforced galvanized slotted | 819.00 |
| DLP-GF-SP | 3 lbs./ft. | polypropylene | stainless steel perforated | 976.50 |
| DLP-GF-SS | 3 lbs./ft. | polypropylene | stainless steel slotted | 976.50 |
| DLP-GF-RSP | 4 lbs./ft. | polypropylene | reinforced stainless steel perforated | 1,152.00 |
| DLP-GF-RSS | 4 lbs./ft. | polypropylene | reinforced stainless steel slotted | 1,152.00 |
| DLP-GF-SCI | 9 lbs./ft. | polypropylene | solid cast iron | 758.50 |



| Frame Guards | Description | Adder Per Ft. |
|--------------|-------------------|---------------|
| FG-BR | Decorative Bronze | \$549.00 |
| FG-GV | Galvanized Steel | 150.50 |
| FG-SS | Stainless Steel | 444.00 |

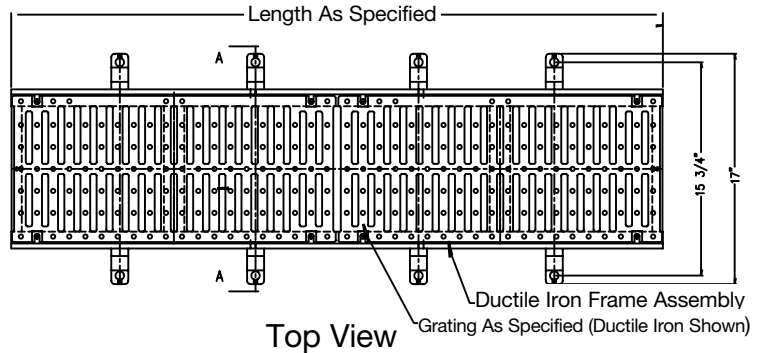
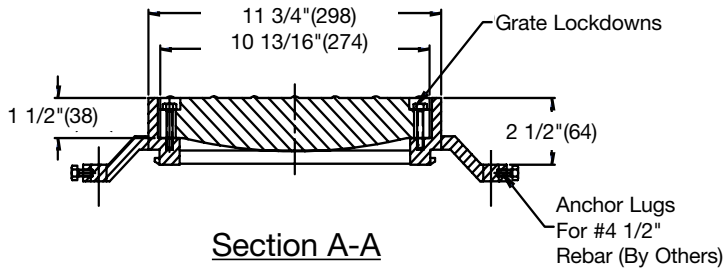


Consult factory for all applications outside of listed parameters.
Prices do not include applicable taxes.

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 | \$1,640.00 |
| DX-GF-DI-ADA | 32 lbs./ft. | ductile iron | ductile iron ADA | 1,809.00 |
| DX-GF-GDI | 32 lbs./ft. | ductile iron | galvanized ductile iron | 2,118.00 |
| DX-GF-RGP | 22 lbs./ft. | ductile iron | reinforced galvanized perforated | 1,750.00 |
| DX-GF-RGS | 22 lbs./ft. | ductile iron | reinforced galvanized slotted | 1,750.00 |
| DX-GF-RSP | 22 lbs./ft. | ductile iron | reinforced stainless steel perforated | 2,760.00 |
| DX-GF-RSS | 22 lbs./ft. | ductile iron | reinforced stainless steel slotted | 2,760.00 |
| DX-GF-SCI | 33 lbs./ft. | ductile iron | solid ductile iron | 1,935.00 |



| Frame Guards | Description | Adder Per Ft. |
|--------------|-------------------|---------------|
| FG-BR | Decorative Bronze | \$549.00 |
| FG-GV | Galvanized Steel | 150.50 |
| FG-SS | Stainless Steel | 444.00 |

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 | Product |
|-----------------------------|--------------------|
| 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 |

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.



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

Green Roof Drains

Green Roof Drainage

Commonly Specified Options

-13 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.

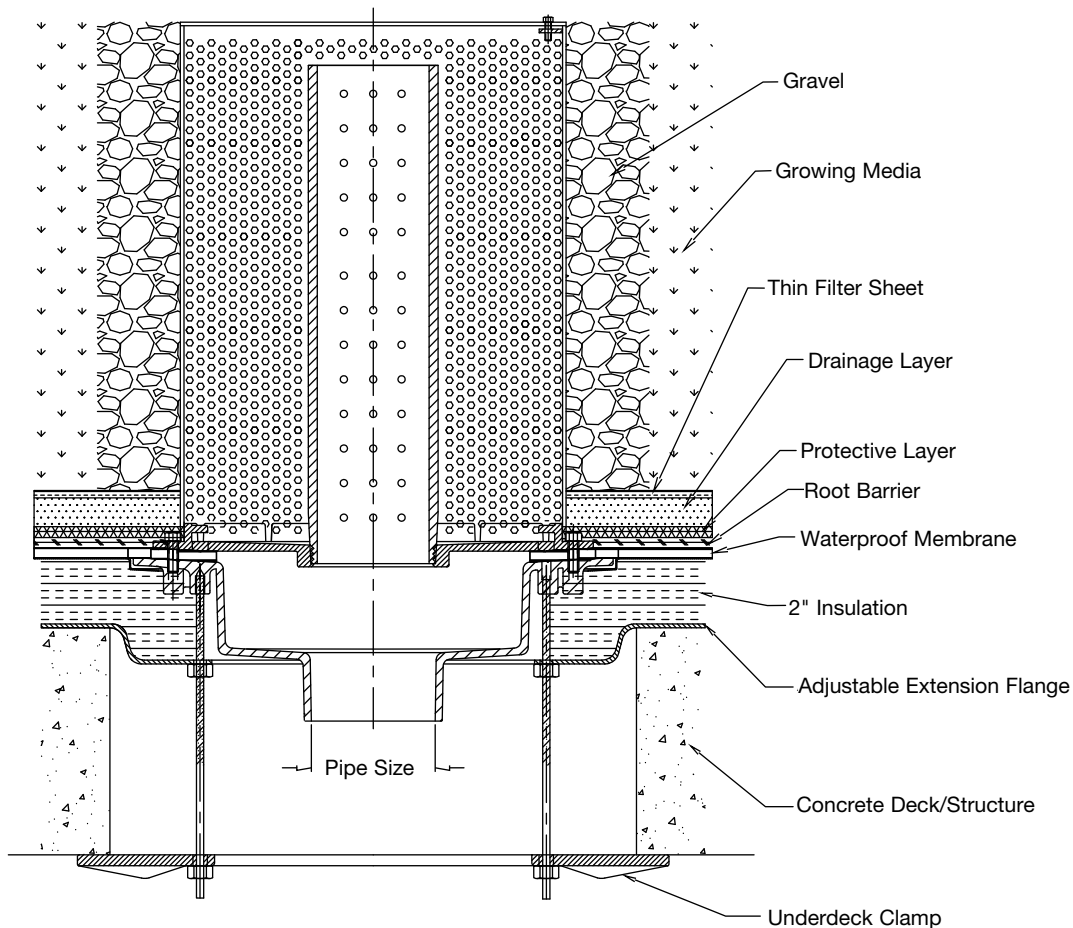
-US Buy American Compliant

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.

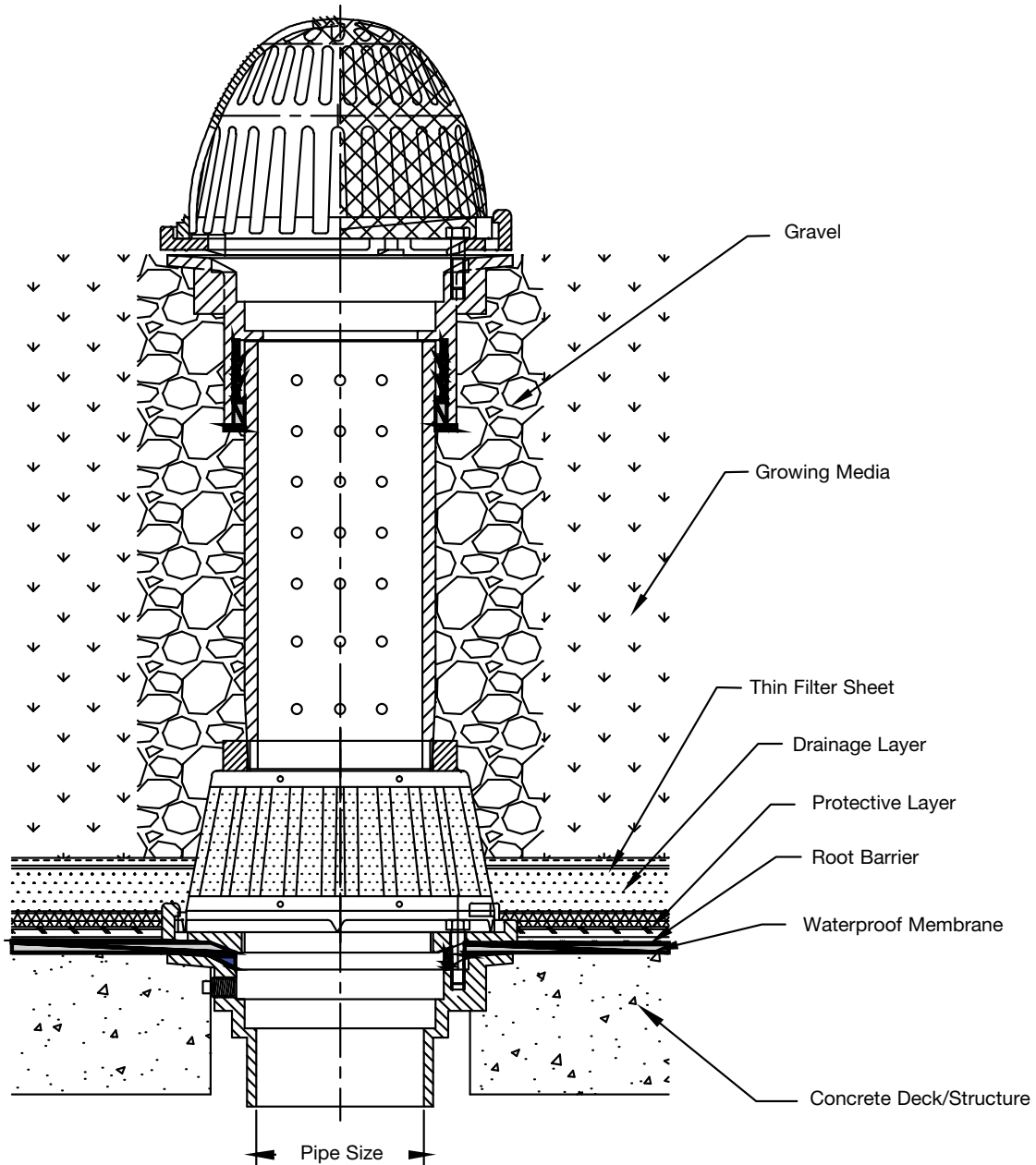


Green Roof Drains

Typical Installations

GRD-650

MULTI-LEVEL PLANTING AREA

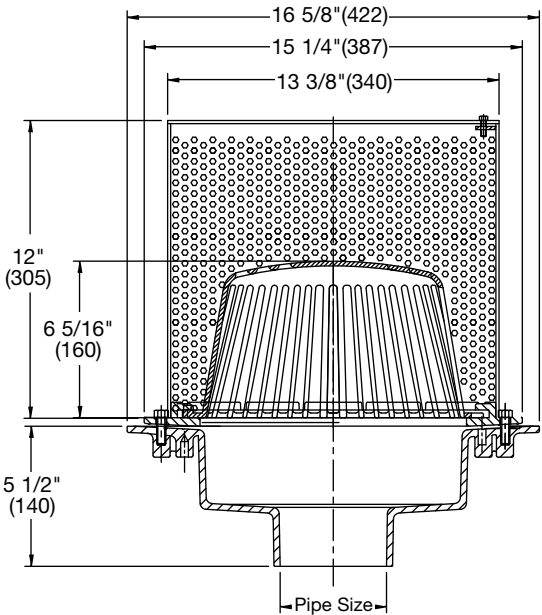


Green Roof Drains

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 | \$4,416.00 |



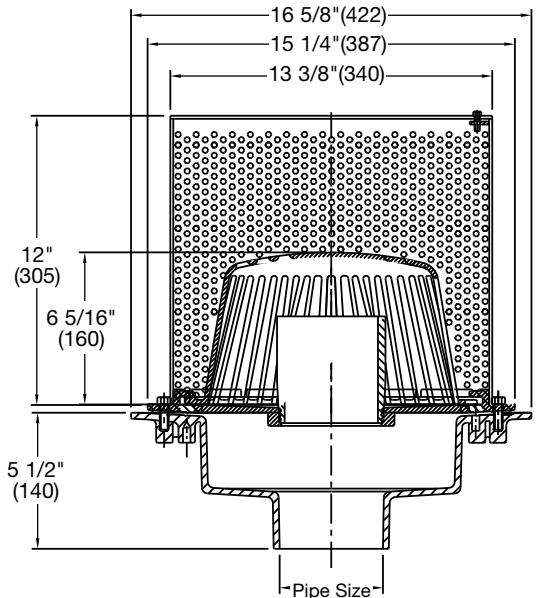
Options for GRD-610

| Suffix | Description | List Price |
|--------|----------------------------|------------|
| -13 | Galvanized Body & Clamp | \$1,781.00 |
| -B | Sump Receiver | 501.50 |
| -D | Underdeck Clamp | 450.00 |
| -F | Deck Flange/Adj. Extension | 1,228.00 |

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 | \$5,118.00 |



Options for GRD-610-W

| Suffix | Description | List Price |
|--------|----------------------------|------------|
| -13 | Galvanized Body & Clamp | \$1,781.00 |
| -B | Sump Receiver | 501.50 |
| -D | Underdeck Clamp | 450.00 |
| -F | Deck Flange/Adj. Extension | 1,228.00 |
| -W2 | 2" Internal Standpipe | No Add |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

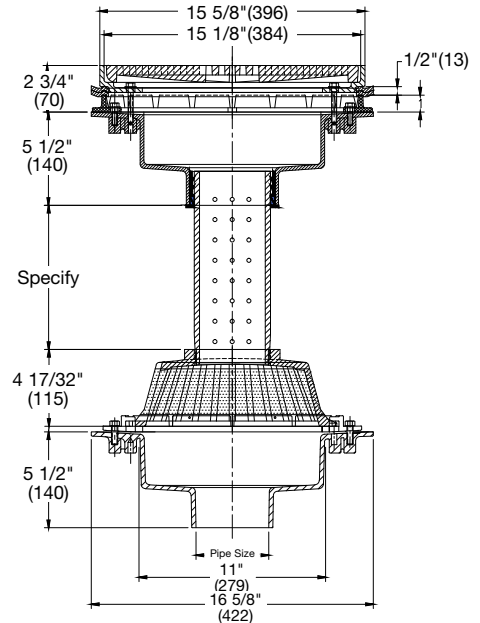


Green Roof Drains

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 | \$7,844.00 |



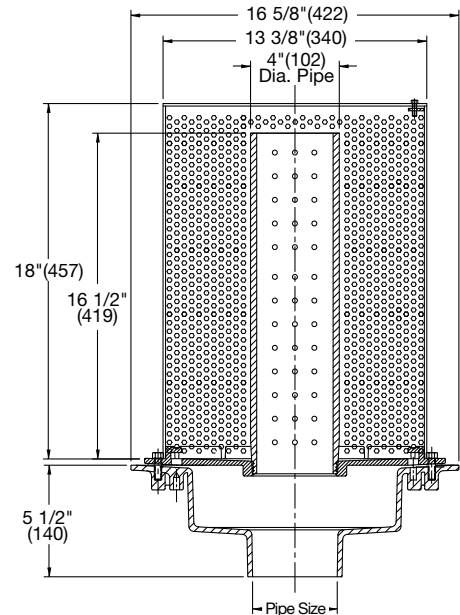
Options for GRD-620

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|-------------------------|------------|--------|----------------------------|------------|
| -5 | Sediment Bucket | \$478.50 | -B | Sump Receiver | \$501.50 |
| -6 | Vandal Proof | 275.00 | -D | Underdeck Clamp | 450.00 |
| -13 | Galvanized Body & Clamp | 3,565.00 | -F | Deck Flange/Adj. Extension | 1,228.00 |

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 | \$5,299.00 |



Options for GRD-630

| Suffix | Description | List Price |
|--------|----------------------------|------------|
| -13 | Galvanized Body & Clamp | \$1,781.00 |
| -B | Sump Receiver | 501.50 |
| -D | Underdeck Clamp | 450.00 |
| -F | Deck Flange/Adj. Extension | 1,228.00 |



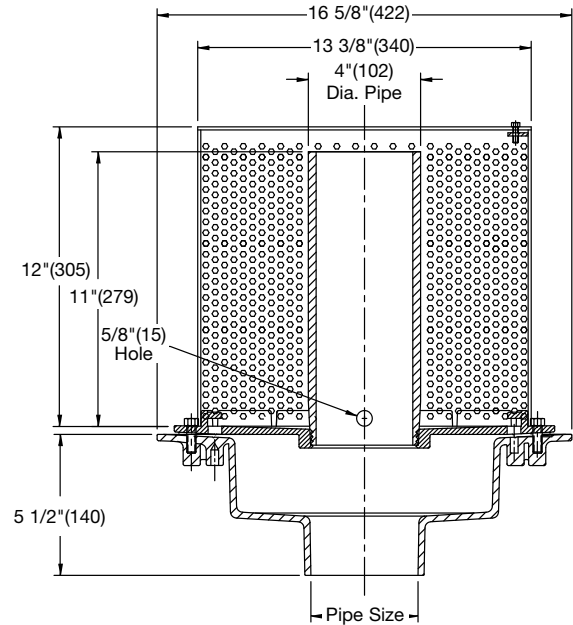
Consult factory for all applications outside of listed parameters.
Prices do not include applicable taxes.

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 | \$4,165.00 |



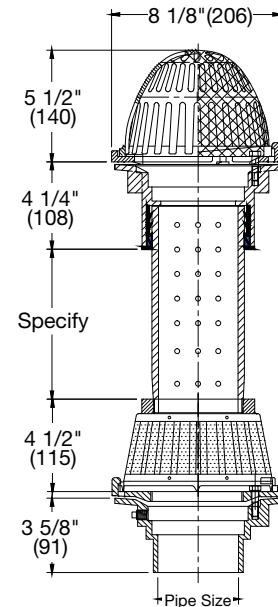
Options for GRD-640

| Suffix | Description | List Price |
|--------|----------------------------|------------|
| -13 | Galvanized Body & Clamp | \$1,781.00 |
| -B | Sump Receiver | 501.50 |
| -D | Underdeck Clamp | 450.00 |
| -F | Deck Flange/Adj. Extension | 1,228.00 |

GRD-650

Green Roof Multi-Level Planter Drain

| Model Number | Outlet Size | WT., lbs. | List Price |
|---------------|-------------|-----------|------------|
| GRD-652, 3, 4 | 2,3,4,\" | 29 | \$3,978.00 |



Options for GRD-650

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|-------------------------|------------|--------|----------------------------|------------|
| -5 | Sediment Bucket | \$259.00 | -D | Underdeck Clamp | \$278.00 |
| -6 | Vandal Proof | 275.00 | -F | Deck Flange/Adj. Extension | 930.00 |
| -13 | Galvanized Body & Clamp | 735.00 | -S0 | Side Outlet | 408.50 |
| -B | Sump Receiver | 478.50 | | | |

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

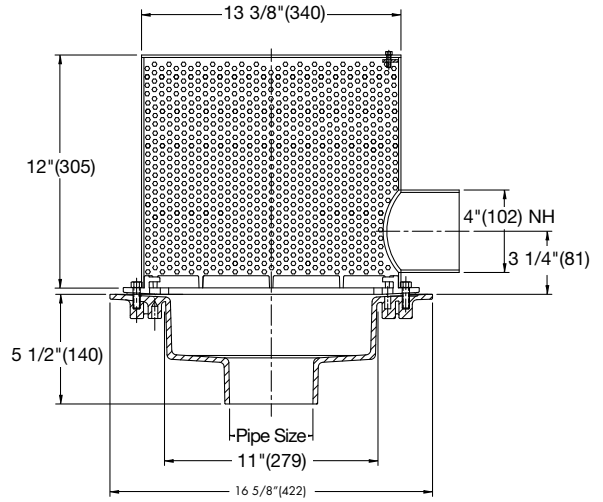


Green Roof Drains

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 | \$6,945.00 |



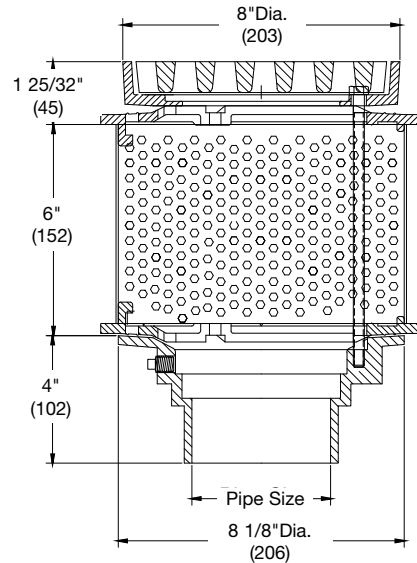
Options for GRD-670

| Suffix | Description | List Price |
|--------|----------------------------|------------|
| -13 | Galvanized Body & Clamp | \$1,781.00 |
| -B | Sump Receiver | 501.50 |
| -D | Underdeck Clamp | 450.00 |
| -F | Deck Flange/Adj. Extension | 1,228.00 |
| -Q | Additional Inlet(s) | 478.50 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 | \$3,792.00 |



Options for GRD-680

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|-------------------------|-------------|--------|----------------------------|------------|
| -1 | All Nickel Bronze Top | \$ 1,143.00 | -D | Underdeck Clamp | \$278.00 |
| -6 | Vandal Proof | 275.00 | -F | Deck Flange/Adj. Extension | 930.00 |
| -13 | Galvanized Body & Clamp | 735.00 | -S0 | Side Outlet | 408.50 |
| -B | Sump Receiver | 478.50 | | | |



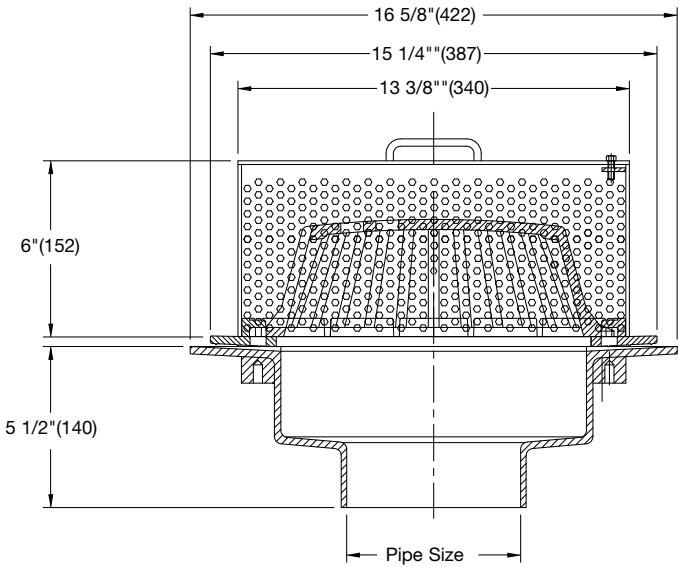
Consult factory for all applications outside of listed parameters.
Prices do not include applicable taxes.

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 | \$4,634.00 |



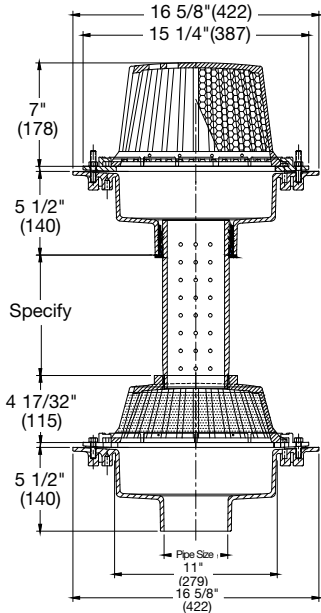
Options for GRD-690

| Suffix | Description | List Price |
|--------|----------------------------|------------|
| -13 | Galvanized Body & Clamp | \$1,781.00 |
| -B | Sump Receiver | 501.50 |
| -D | Underdeck Clamp | 450.00 |
| -F | Deck Flange/Adj. Extension | 1,228.00 |

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 | \$5,184.00 |



Options for GRD-730

| Suffix | Description | List Price |
|--------|----------------------------|------------|
| -5 | Sediment Bucket | \$478.50 |
| -6 | Vandal Proof | 275.00 |
| -13 | Galvanized Body & Clamp | 3,565.00 |
| -B | Sump Receiver | 501.50 |
| -D | Underdeck Clamp | 450.00 |
| -F | Deck Flange/Adj. Extension | 1,228.00 |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



Roof Drains

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- Typical Installations



Roof Drains

Pictorial Index



RD-100
Roof Drain



RD-100-85
IRMA
Roof Drain



RD-100-CP
Roof Drain with
12" x 12" Promenade Top



RD-100-CP-85
IRMA Roof Drain
w/12"x12" Promenade Top



RD-100-F
Roof Drain w/Deck
Flange/Adj. Extension



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-CP
Small Area Roof Drain with
Promenade Top



RD-200-CP-85
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

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

WATTS®

Roof Drains

Pictorial Index



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



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-350-F2
Combination Primary &
Overflow Roof Drain



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

Roof Drains

Pictorial Index



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



RDA-940
Wallflower™ Downspout
Nozzle



RD-950
Stainless Steel Downspout
Cover



RD-970/RD-980
Downspout Boots

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



Roof Drains

Roof Drain Selection Factors

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 |

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 ² | | | | |
|--|-----------------|--------------------------------|----------|----------|
| 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



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

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

-13 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.

-K13 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".

-US Buy American Compliant

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

-W 4" High Internal Water Dam

For emergency roof overflow drains, restricts drainage on roof surface below 4".

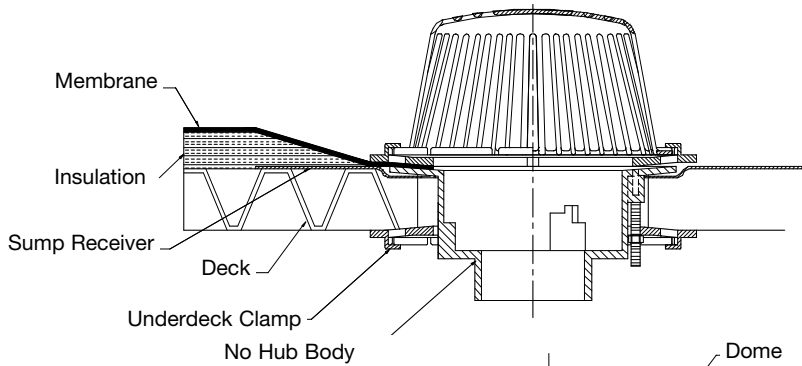
Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



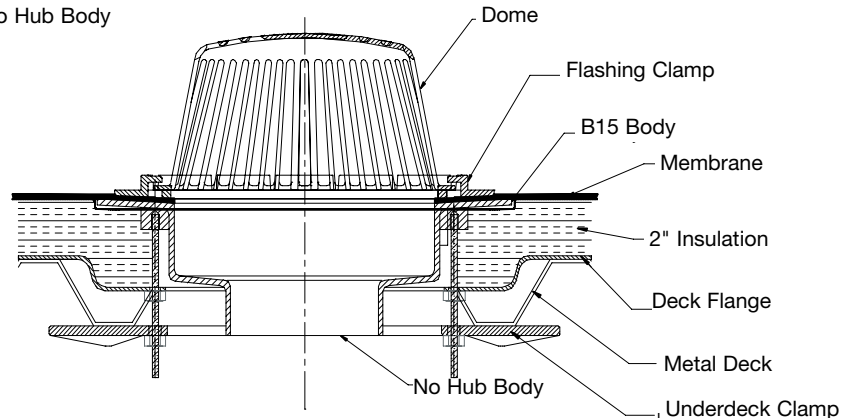
Roof Drains

Typical Installations

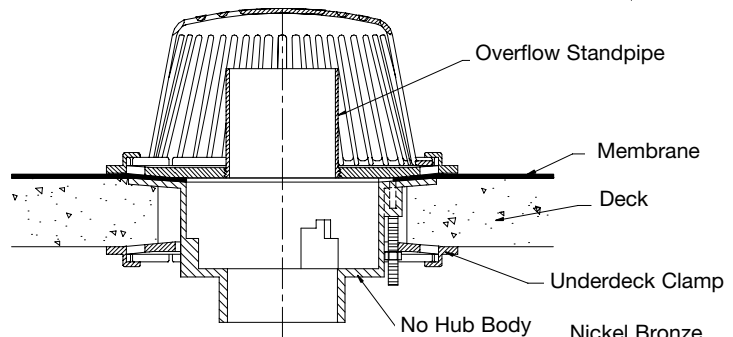


RD-100-B-D
TAPERED INSULATION

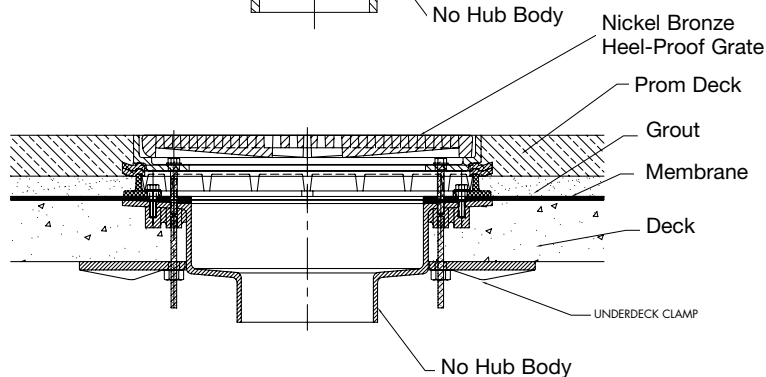
RD-300-D-F
DRAIN ELEVATED TO
INSULATION HEIGHT



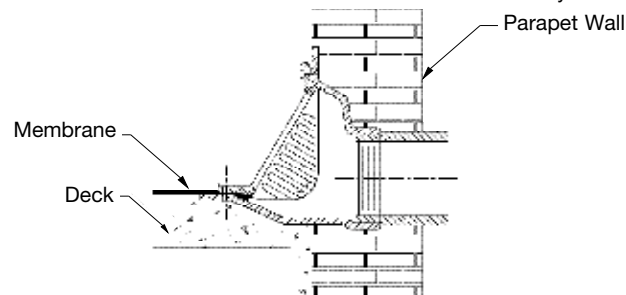
RD-100-D-W
INTERNAL OVERFLOW



RD-300-CP-15
PROMENADE AREA



RD-270
SCUPPER OR PARAPET



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

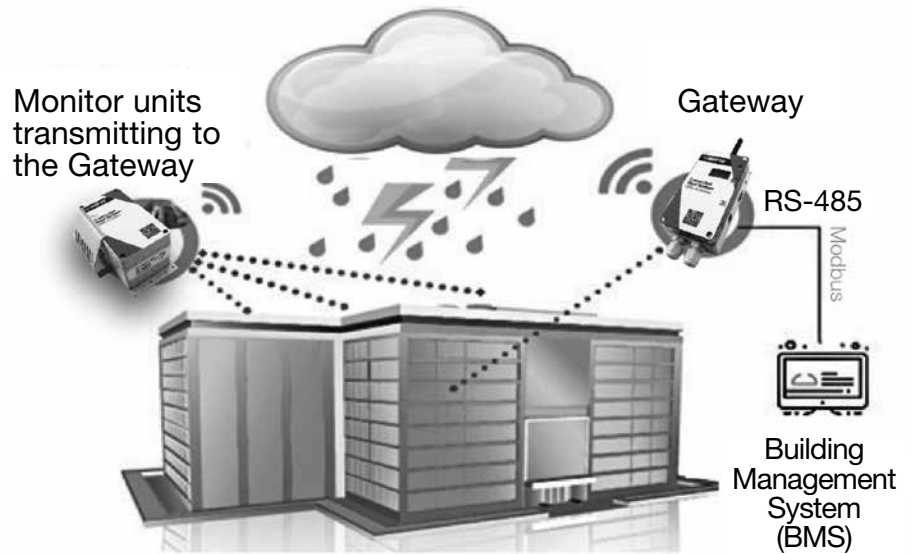
Roof Drains

Connected Roof System

| Model | EDP # | List Price |
|----------------------------------|---------|------------|
| CRS-Gateway | 8200875 | \$2,283.00 |
| CRS-Monitor | 8200874 | 1,137.00 |
| CRS-External Antenna for Gateway | 8200873 | 79.50 |



Gateway



Gateway Specifications

| Power Supply | |
|-----------------------------|--|
| Voltage | 5V DC 1A |
| Nominal power | 0.5W |
| Electrical protection class | Class 3 |
| Wireless | |
| Frequency | 915 MHz |
| Antenna connector | SMA |
| Signal range | Up to 4921ft(1500m) in free line of sight |
| User Input | |
| Push Button | 1 |
| Display | |
| Type | 0.96" OLED |
| Size | 128*64 dot |
| SD Card | |
| Type, Size | MicroSDHC Class 4 or higher, 4GB |
| Relay | |
| Type | 1RT NO/NC |
| Load Limit | 230VAC 5A |
| Connection | 3 pin screw terminals (Max. 1/2"²(1.5mm²)) |
| MODBUS | |
| Physical Layer | RS485 |
| Baud Rate | Up to 115200 Bauds |
| Connection | 3 pin screw terminals (Max 1.5mm²) |
| Termination | Yes, ON/OFF jumper configuration |
| Enclosure | |
| Size | 4 3/4" x 2 1/2" x 1 1/2"(120 x 65 x 40mm) |
| Environmental | |
| Working Temperature | -10°C - 55°C / 14°F - 131°F |
| Storage Temperature | -30°C - 80°C / -22°F - 176°F |
| Humidity | Below 80% non-condensing |



Monitor



Antenna

Monitor Specifications

| Power Supply | |
|---------------------|---|
| Battery | Lithium battery LS 14500 3.6V (internal) AA |
| Battery Life | Up to 10 Years |
| Level Sensor | |
| Sensor Electrodes | Stainless A2 |
| Enclosure | |
| IP Protection | IP68 |
| Material | Anti-UV PC |
| Size | 4 3/4" x 2 1/2" x 2 3/8"(120 x 65 x 60mm) |
| Environmental | |
| Working Temperature | -35°C - 85°C / -31°F - 185°F |
| Storage Temperature | -35°C - 85°C / -31°F - 185°F |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



Roof Drains

RD-100

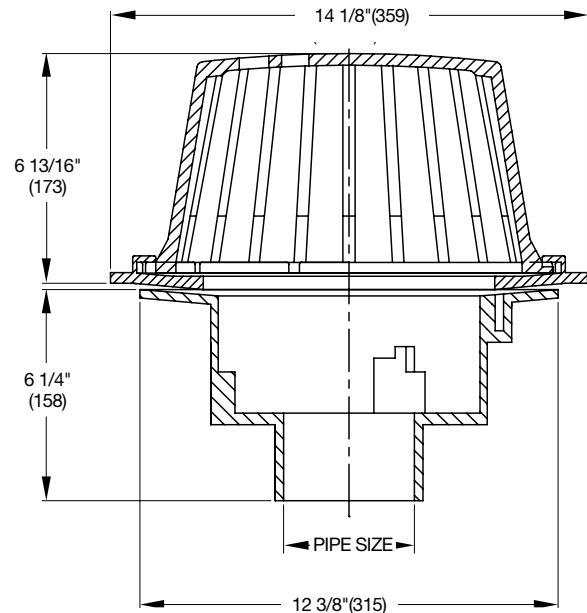
Roof Drain



| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-102, 3, 4 | 2,3,4," | 26 | \$1,318.00 |
| RD-105, 6 | 5, 6 | 26 | 1,881.00 |



Note: Poly Dome Standard



RD-100-F

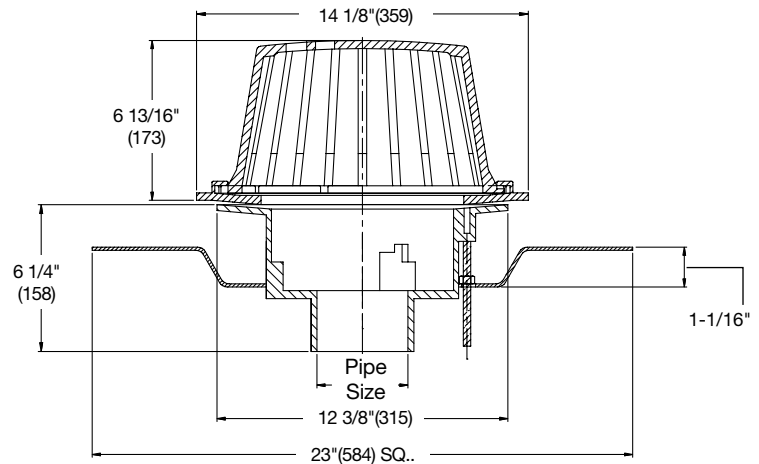
Roof Drain with Adjustable Extension Flange



| Model Number | Outlet Size | WT., lbs. | List Price |
|----------------|-------------|-----------|------------|
| RD-102, 3, 4-F | 2,3,4," | 40 | \$2,546.00 |
| RD-105, 6-F | 5, 6 | 40 | 3,106.00 |



Note: Poly Dome Standard



Options for RD-100 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--|------------|--------|---------------------------------|------------|
| None | No Hub | No Add | -GSS | Stainless Steel Ballast Guard | \$1,165.00 |
| P | Push-On Outlet | No Add | -K | Ductile Iron Dome | 394.00 |
| T | Threaded Outlet | \$151.50 | -K13 | Galvanized Dome | 1059.00 |
| X | Inside Caulk Outlet | No Add | -K40 | Ductile Iron Low Dome (4" high) | 394.00 |
| -60 | PVC Body w/Socket Outlet (2,3,4,6" only) | No Add | -K80 | Aluminum Dome | 457.00 |
| -61 | ABS Body w/Socket Outlet (2,3,4" only) | No Add | -K81 | Rough Bronze Dome | 1,540.00 |
| -13 | Galvanized Body & Flashing Clamp | 1,781.00 | -K83 | SS Mesh Covered Aluminum Dome | 1,389.00 |
| -85 | 4" SS Perforated Extension | 1,165.00 | -L | Vandal Proof Dome | 232.50 |
| -A | Accutrol Flow Restrictor | 2,189.00 | -R | 2" External Water Dam | 431.00 |
| -B | Sump Receiver | 501.50 | -SO | Side Outlet (2,3,4" only) | 627.00 |
| -D | Underdeck Clamp | 450.00 | -V | Fixed Extension | 1,228.00 |
| -F | Deck Flange/Adj. Extension | 1,228.00 | -W | Adjustable Internal Water Dam | 788.50 |



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

Roof Drains

RD-100-R

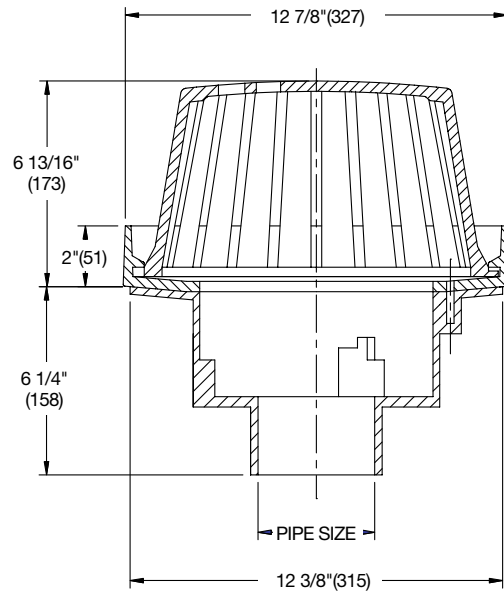
Overflow Roof Drain with 2" External Water Dam



| Model Number | Outlet Size | WT., lbs. | List Price |
|----------------|-------------|-----------|------------|
| RD-102, 3, 4-R | 2, 3, 4," | 27 | \$1,747.00 |
| RD-105, 6-R | 5, 6 | 27 | 2,307.00 |



Note: Poly-Dome Standard



RD-100-W

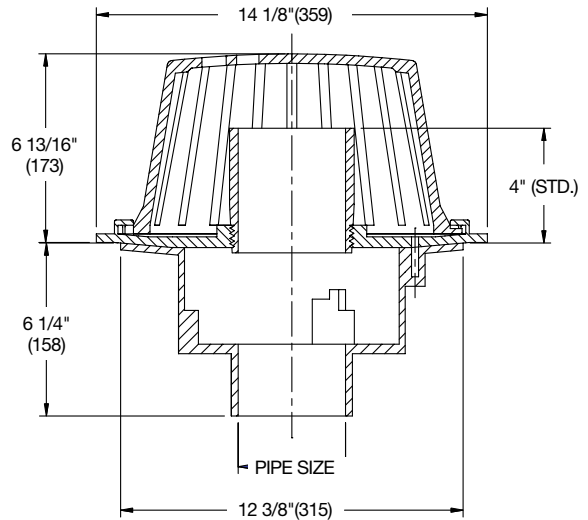
Overflow Roof Drain with Internal Standpipe



| Outlet Size | Outlet Size | WT., lbs. | List Price |
|----------------|-------------|-----------|------------|
| RD-102, 3, 4-W | 2, 3, 4" | 32 | \$2,105.00 |
| RD-105, 6-W | 5, 6" | 32 | 2,665.00 |



Note: Poly Dome Standard



Options for RD-100 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--|------------|--------|---------------------------------|------------|
| None | No Hub | No Add | -GSS | Stainless Steel Ballast Guard | \$1,165.00 |
| P | Push-On Outlet | No Add | -K | Ductile Iron Dome | 394.00 |
| T | Threaded Outlet | \$151.50 | -K13 | Galvanized Dome | 1,059.00 |
| X | Inside Caulk Outlet | No Add | -K40 | Ductile Iron Low Dome (4" high) | 394.00 |
| -60 | PVC Body w/Socket Outlet (2,3,4,6" only) | No Add | -K80 | Aluminum Dome | 457.00 |
| -61 | ABS Body w/Socket Outlet (2,3,4" only) | No Add | -K81 | Rough Bronze Dome | 1,540.00 |
| -13 | Galvanized Body & Flashing Clamp | 1,781.00 | -K83 | SS Mesh Covered Aluminum Dome | 1,389.00 |
| -85 | 4" SS Perforated Extension | 1,165.00 | -L | Vandal Proof Dome | 232.50 |
| -A | Accutrol Flow Restrictor | 1,903.00 | -R | 2" External Water Dam | 431.00 |
| -B | Sump Receiver | 501.50 | -SO | Side Outlet (2,3,4" only) | 627.00 |
| -D | Underdeck Clamp | 450.00 | -V | Fixed Extension | 1,228.00 |
| -F | Deck Flange/Adj. Extension | 1,228.00 | -W | Adjustable Internal Water Dam | 788.50 |

Consult factory for all applications outside of listed parameters.

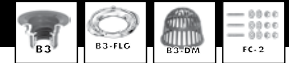
Prices do not include applicable taxes.



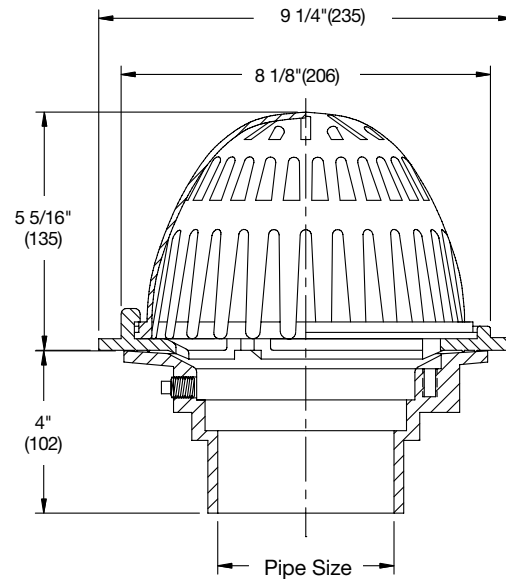
Roof Drains

RD-200

Small Area Roof Drain



| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-202, 3, 4 | 2, 3, 4, " | 15 | \$914.50 |

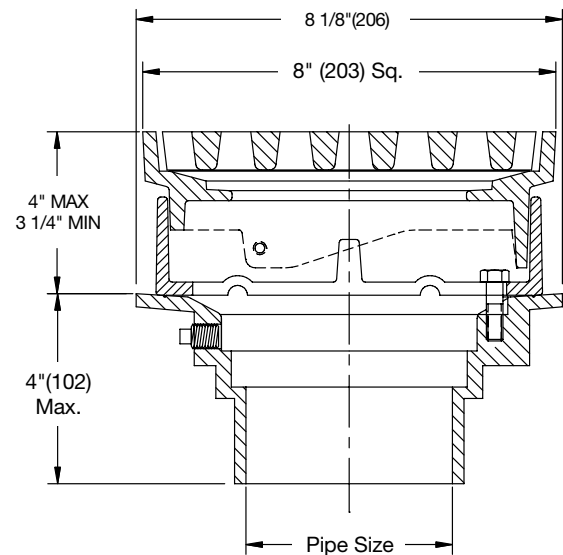


RD-200-CP

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," | 22 | ductile iron | \$1,530.00 |
| RD-202, 3, 4-CP-1 | 2,3,4" | 22 | nickel bronze | 3,290.00 |



Options for RD-200 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--|------------|--------|-------------------------------|------------|
| None | No Hub | No Add | -K | Ductile Iron Dome | \$164.00 |
| -5 | Sediment Bucket | \$202.50 | -K13 | Galvanized Dome | 444.50 |
| -6 | Vandal Proof Top (RD-200-CP) | 274.50 | -K80 | Aluminum Dome | 336.50 |
| -9 | Hinged Grate | 483.00 | -K81 | Rough Bronze Dome | 631.50 |
| -13 | Galvanized | 367.00 | -K83 | SS Mesh Covered Aluminum Dome | 828.00 |
| -60 | PVC Body w/Socket Outlet (2,3,4,6" Only) | No Add | -L | Vandal Proof Dome | 214.50 |
| -61 | ABS Body w/Socket Outlet (2,3,4" Only) | No Add | -P | Push-On Outlet | No Add |
| -85 | 4" SS Perforated Extension | 813.50 | -R | 2" External Water Dam | 358.50 |
| -B | Sump Receiver | 478.50 | -SO | Side Outlet | 409.50 |
| -D | Underdeck Clamp | 278.00 | -T | Threaded Outlet | 151.50 |
| -F | Deck Flange/Adj. Extension | 930.00 | W | Adjustable Internal Water Dam | 691.00 |
| -GSS | Stainless Steel Ballast Guard | 860.00 | -X | Inside Caulik Outlet | No Add |



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

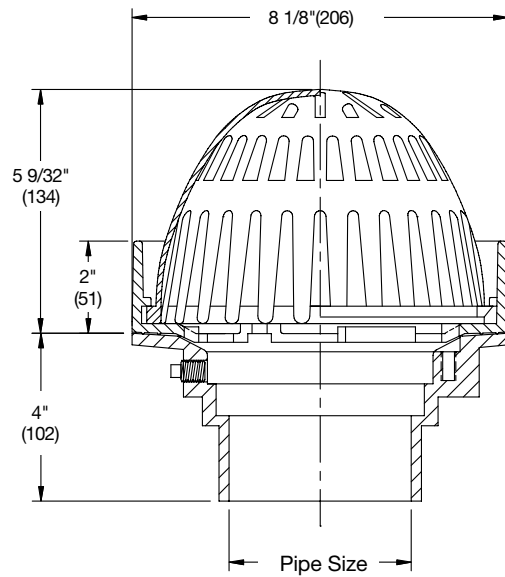
Roof Drains

RD-200-R

Overflow Roof Drain with 2" External Water Dam



| Model Number | Outlet Size | WT., lbs. | List Price |
|----------------|-------------|-----------|------------|
| RD-202, 3, 4-R | 2, 3, 4" | 25 | \$1,268.00 |

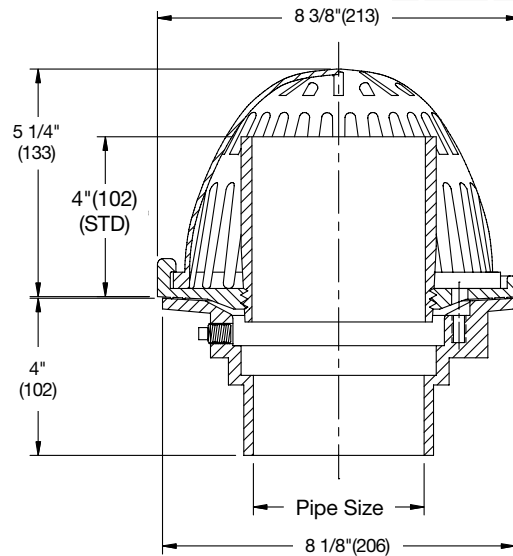


RD-200-W

Overflow Roof Drain with Internal Standpipe



| Model Number | Outlet Size | WT., lbs. | List Price |
|----------------|-------------|-----------|------------|
| RD-202, 3, 4-W | 2, 3, 4" | 25 | \$1,600.00 |



Options for RD-200 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--|------------|--------|-------------------------------|------------|
| None | No Hub | No Add | -K | Ductile Iron Dome | \$164.00 |
| -5 | Sediment Bucket | \$202.50 | -K13 | Galvanized Dome | 444.50 |
| -6 | Vandal Proof Top (RD-200-CP) | 274.50 | -K80 | Aluminum Dome | 336.50 |
| -9 | Hinged Grate | 483.00 | -K81 | Rough Bronze Dome | 631.50 |
| -13 | Galvanized | 367.00 | -K83 | SS Mesh Covered Aluminum Dome | 828.00 |
| -60 | PVC Body w/Socket Outlet (2,3,4,6" Only) | No Add | -L | Vandal Proof Dome | 214.50 |
| -61 | ABS Body w/Socket Outlet (2,3,4" Only) | No Add | -P | Push-On Outlet | No Add |
| -85 | 4" SS Perforated Extension | 813.50 | -R | 2" External Water Dam | 358.50 |
| -B | Sump Receiver | 478.50 | -SO | Side Outlet | 409.50 |
| -D | Underdeck Clamp | 278.00 | -T | Threaded Outlet | 151.50 |
| -F | Deck Flange/Adj. Extension | 930.00 | W | Adjustable Internal Water Dam | 691.00 |
| -GSS | Stainless Steel Ballast Guard | 860.00 | -X | Inside Caulik Outlet | No Add |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

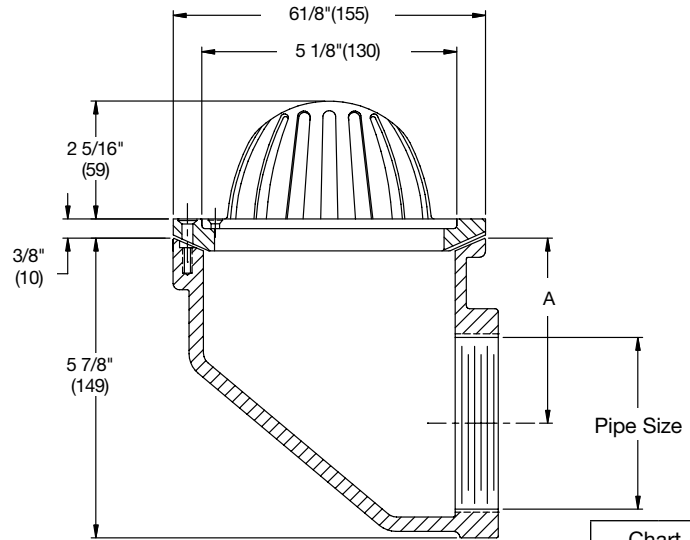


Balcony Drains

RD-230

Side Outlet Balcony Drain

| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-232, 3, 4 | 2, 3, 4" | 10 | \$1,377.00 |

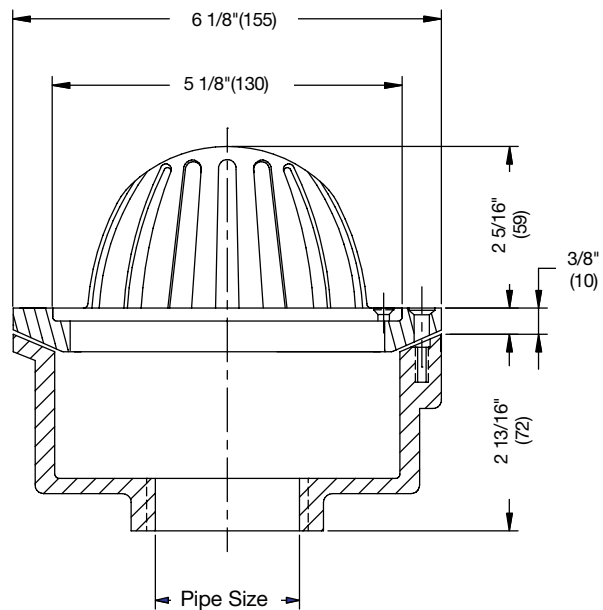


| Chart A | |
|---------|---------|
| Size | A |
| 2" | 4 5/16" |
| 3" | 3 5/8" |
| 4" | 3 1/8" |

RD-240

Bottom Outlet Balcony Drain

| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-242, 3, 4 | 2, 3, 4" | 7 | \$1,152.00 |



Options for RD-230/240 Series:

| Suffix | Description | List Price |
|--------|----------------------------------|------------|
| -6 | Vandal Proof | \$106.00 |
| -13 | Galvanized Body & Flashing Clamp | 295.00 |
| -14 | Flat Grate | No Add |
| -83 | SS Mesh Covered Dome | 438.00 |



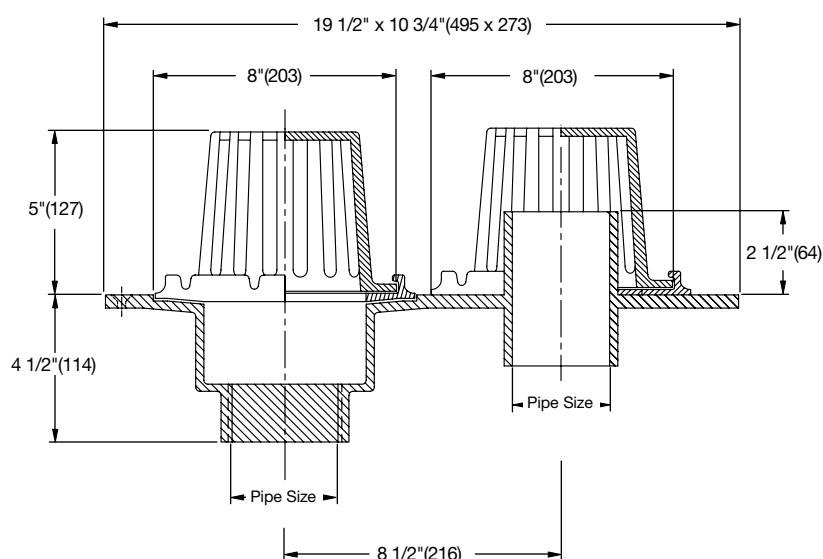
Consult factory for all applications outside of listed parameters.
Prices do not include applicable taxes.

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 | \$1,575.00 |



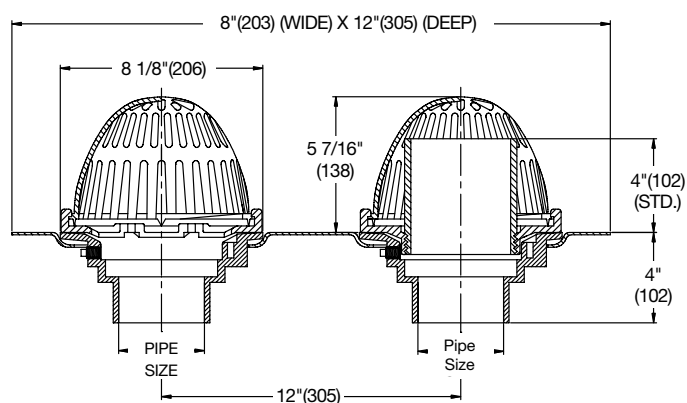
Options for RD-250 Series:

| Suffix | Description | List Price |
|--------|--------------|------------|
| -L | Vandal Proof | No Add |

RD-260

Roof Drain/Overflow System

| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-262, 3, 4 | 2, 3, 4" | 36 | \$2,139.00 |



Options for RD-260 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|----------------------------------|------------|--------|-------------------------------|------------|
| None | No Hub | No Add | -GSS | Stainless Steel Ballast Guard | \$1,550.00 |
| P | Push-On Outlet | No Add | -K | Ductile Iron Dome | 292.50 |
| T | Threaded Outlet | \$300.50 | -K13 | Galvanized Dome | 887.00 |
| X | Inside Caulk Outlet | No Add | -K80 | Aluminum Dome | 670.00 |
| -60 | PVC Body w/Socket Outlet | No Add | -K83 | SS Mesh Covered Dome | 1,656.00 |
| -61 | ABS Body w/Socket Outlet | No Add | -L | Vandal Proof Dome | 429.00 |
| -13 | Galvanized Body & Flashing Clamp | 735.00 | -R | 2" External Water Dam | No Add |
| -D | Underdeck Clamp | 550.50 | | | |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

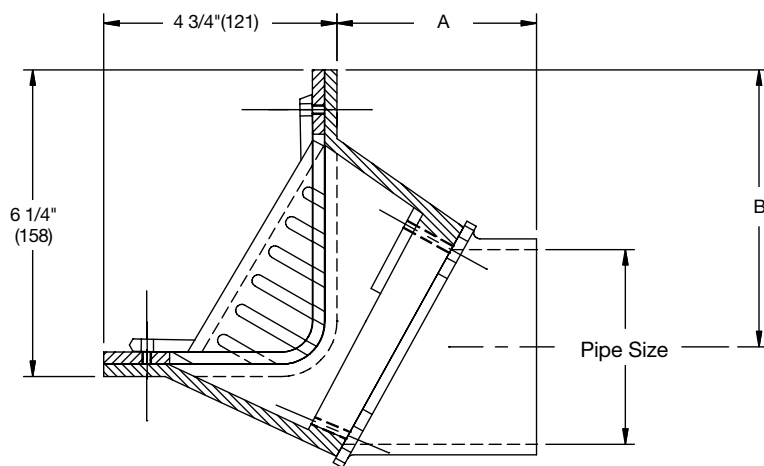


Scupper Drains

RD-270

Scupper Drain with Angle Grate

| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-272, 3, 4 | 2, 3, 4" | 20 | \$1,319.00 |
| RD-276 | 6" | 22 | 2,232.00 |

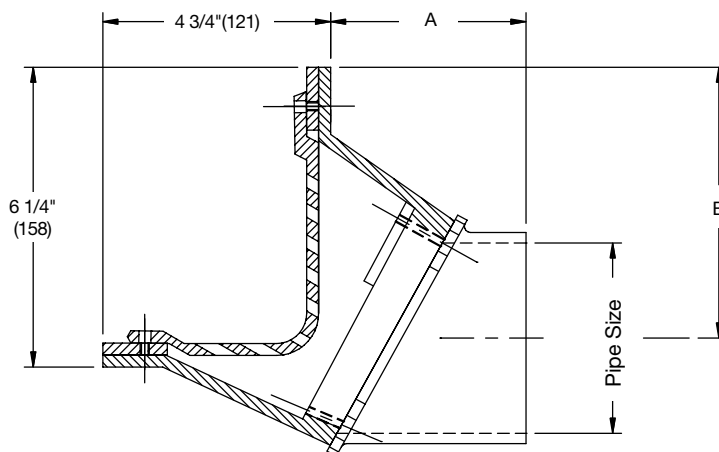


| RD-270 | NH | | THD | |
|--------|--------|--------|--------|--------|
| | A | B | A | B |
| 2" | 5-1/8" | 6-1/2" | 2-3/4" | 6" |
| 3" | 4-1/2" | 5-3/4" | 2-3/4" | 5-3/8" |
| 4" | 4" | 5-1/8" | 2-3/4" | 4-7/8" |

RD-290

Scupper Drain with Flat Grate

| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-292, 3, 4 | 2,3,4," | 24 | \$1,248.00 |
| RD-296 | 6" | 26 | 2,343.00 |



Options for RD-270 /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 | \$1,881.00 |
| -6 | Vandal Proof Grate | 106.00 |
| -13 | Galvanized | 446.50 |

| 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" |



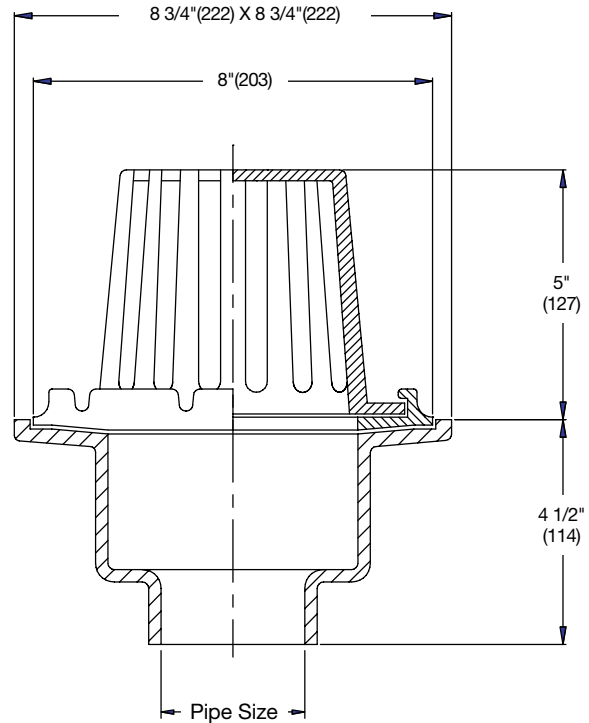
Consult factory for all applications outside of listed parameters.
Prices do not include applicable taxes.

Small Area Roof Drains

RD-280

Flanged Cast Iron Roof Drain

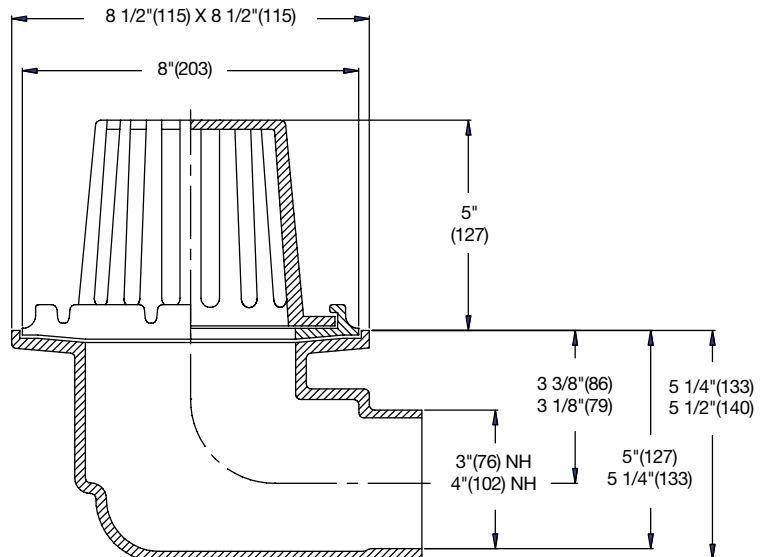
| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-283, 4 | 3, 4" | 16 | \$914.50 |



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 | \$1,081.00 |



Options for RD-280 /280-SO Series:

| Suffix | Description | List Price |
|--------|-----------------------|------------|
| -L | Vandal Proof Dome | No Add |
| -R | 2" External Water Dam | \$325.00 |

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

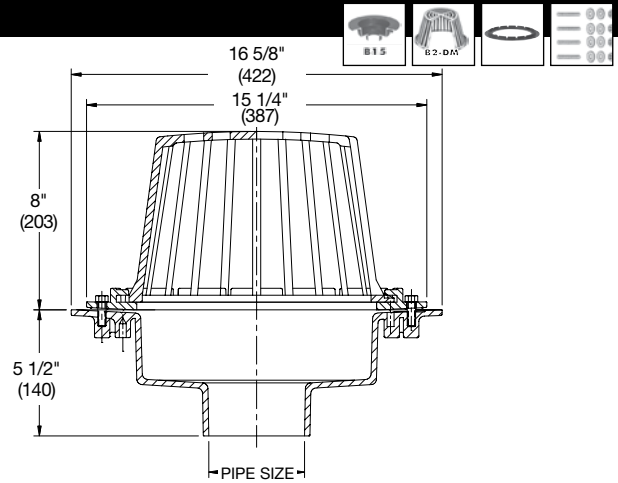


High Volume Roof Drains

RD-300

High Volume Roof Drain

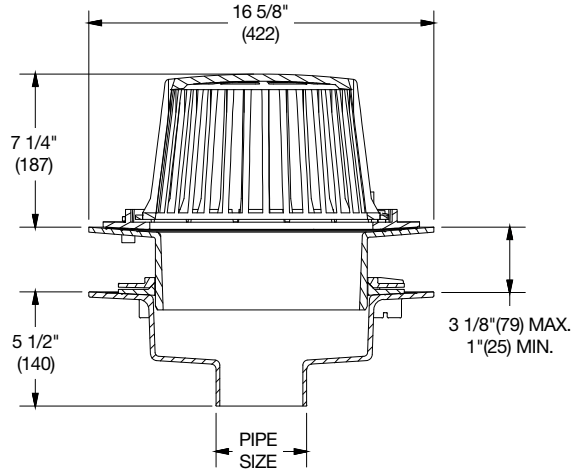
| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-302, 3, 4 | 2, 3, 4" | 30 | \$1,318.00 |
| RD-305, 6 | 5, 6" | 30 | 1,881.00 |
| RD-308, 10 | 8, 10" | 30 | 2,443.00 |



RD-300-AC

Adjustable Extension Compression Seal Roof Drain

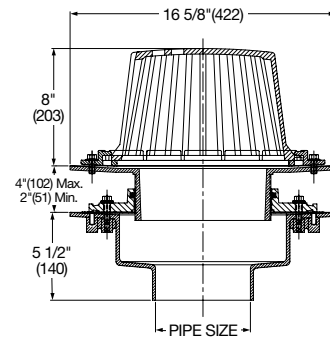
| Model Number | Outlet Size | WT., lbs. | List Price |
|-----------------|-------------|-----------|------------|
| RD-302, 3, 4-AC | 2, 3, 4" | 63 | \$2,543.00 |
| RD-305, 6-AC | 5, 6," | 63 | 3,106.00 |
| RD-308, 10-AC | 8, 10" | 63 | 3,669.00 |



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 | \$3,126.00 |
| RD-305, 6-AE | 5, 6," | 63 | 3,175.00 |
| RD-308, 10-AE | 8, 10" | 63 | 3,669.00 |



Options for RD-300 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|---|------------|--------|---------------------------------|------------|
| -P | Push On Available on 3,4, & 6" Outlets Only | No Add | -K13 | Galvanized Dome | \$1,059.00 |
| -X | Inside Caulk | No Add | -K40 | Ductile Iron Low Dome (4" High) | 394.00 |
| -13 | Galvanized Body & Clamp | 1,781.00 | -K80 | Aluminum Dome | 457.00 |
| -85 | 4" SS Perforated Extension | 1,165.00 | -K81 | Rough Bronze Dome | 1,540.00 |
| -B | Sump Receiver | 501.50 | -K83 | SS Mesh Covered Aluminum Dome | 1,389.00 |
| -D | Underdeck Clamp | 450.00 | -L | Vandal Proof Dome | 232.50 |
| -F | Deck Flange/Adj. Extension | 1,228.00 | -R | 2" External Water Dam | 431.00 |
| -GSS | Stainless Steel Ballast Guard | 1,165.00 | -W | 4" Internal Water Dam | 788.50 |
| -K | Ductile Iron Dome | 394.00 | | | |



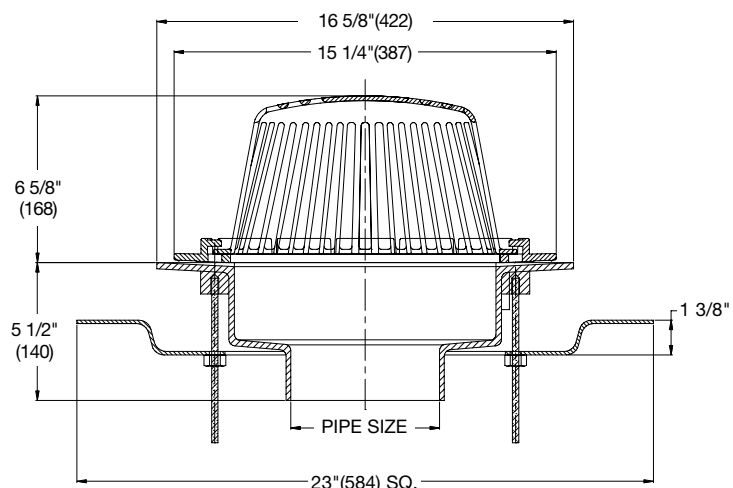
Consult factory for all applications outside of listed parameters.
Prices do not include applicable taxes.

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 | \$2,546.00 |
| RD-305, 6-F | 5, 6" | 45 | 3,106.00 |
| RD-308, 10-F | 8, 10" | 45 | 3,669.00 |

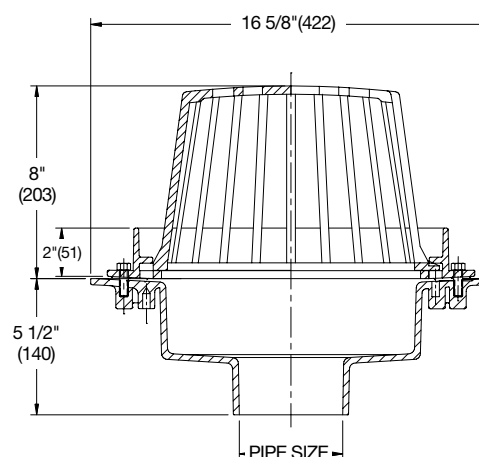


RD-300-R

Overflow Roof Drain with 2" External Water Dam

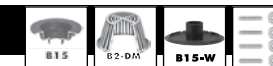


| Model Number | Outlet Size | WT., lbs. | List Price |
|----------------|-------------|-----------|------------|
| RD-302, 3, 4-R | 2, 3, 4" | 32 | \$1,747.00 |
| RD-305, 6-R | 5, 6" | 32 | 2,307.00 |
| RD-308, 10-R | 8, 10" | 32 | 2,872.00 |



RD-300-W

Overflow Roof Drain with 2" Internal Standpipe

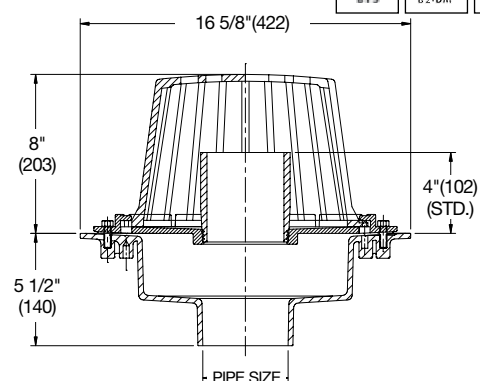


| Model Number | Outlet Size | WT., Lbs. | List Price |
|----------------|-------------|-----------|------------|
| RD-302, 3, 4-W | 2, 3, 4" | 37 | \$2,105.00 |
| RD-305, 6-W | 5, 6" | 37 | 2,665.00 |
| RD-308, 10-W | 8, 10" | 37 | 3,227.00 |



Options for RD-300 Series:

(For Options see page 123.)



Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

WATTS®

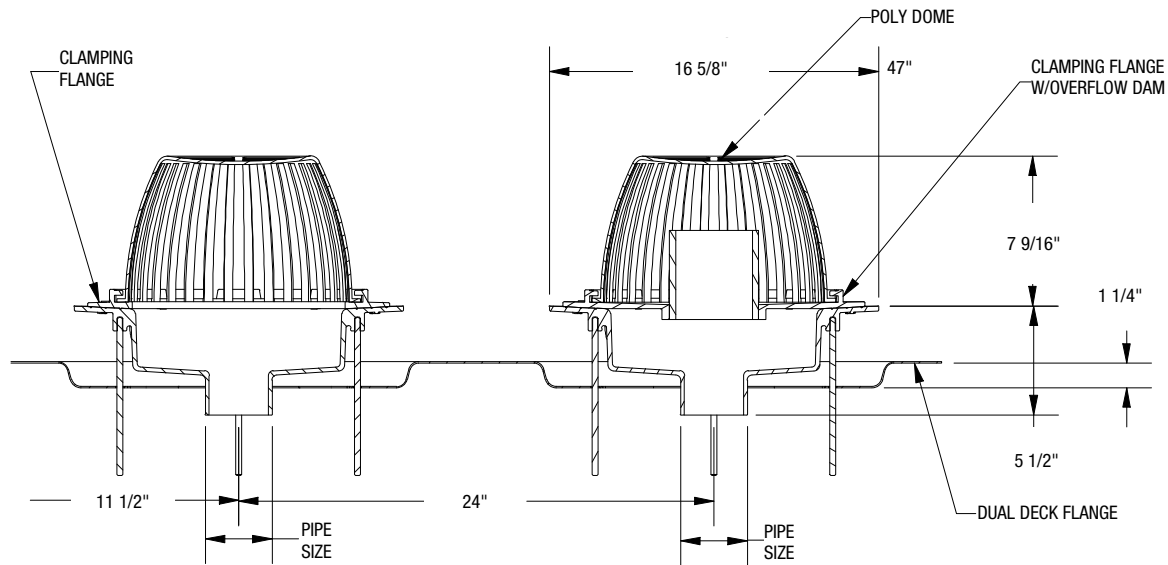
High Volume Roof Drains

RD-350-F2

Combination Primary and Overflow Roof Drain

| Model Number | Outlet Size | Outlet Type | WT., lbs. | List Price |
|-----------------|-------------|--------------------------|-----------|-------------|
| RD-352, 3, 4-F2 | 2, 3, 4" | NH (STD), P (PO), X (IC) | 96 | \$No Match! |
| RD-355, 6-F2 | 5, 6" | NH (STD), P (PO), X (IC) | 96 | No Match! |
| RD-358, 10-F2 | 8, 10" | NH (STD), X (IC) | 96 | No Match! |

Note: Not all outlet types available in all sizes. See Options chart.



Options for RD-350-F2 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--------------------------------------|------------|--------|----------------------------------|------------|
| None | No Hub Outlet | No Add | -K13 | Galvanized Dome | \$2,016.00 |
| P | Push On Outlet (3, 4, 6\" Only) | No Add | -K40 | Ductile Iron Low Dome (4\" High) | 789.00 |
| X | Inside Caulk (34, 4, 5, 6, 8\" Only) | No Add | -K80 | Aluminum Dome | 921.50 |
| -13 | Galvanized Body & Clamp | \$3,656.00 | -K81 | Rough Bronze Dome | 2,931.00 |
| -85 | 4\" SS Perforated Extension | 3,008.00 | -K83 | SS Mesh Covered Aluminum Dome | 1,922.00 |
| -D | Underdeck Clamp | 722.00 | -L | Vandal Proof Dome | 440.50 |
| -GSS | Stainless Steel Ballast Guard | 3,008.00 | -R | 2\" External Water Dam | No Add |
| -K | Ductile Iron Dome | 789.00 | | | |



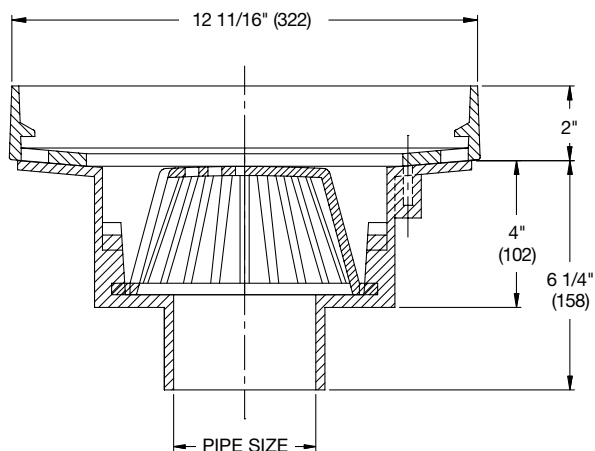
Consult factory for all applications outside of listed parameters.
Prices do not include applicable taxes.

Deck Receptor Drain

RD-400

12" Diameter Deck Receptor Drain

| Model Number | Outlet Size | WT.,Lbs. | List Price |
|--------------------|----------------|----------|------------|
| RD-402, 3, 4, 5, 6 | 2, 3, 4, 5, 6" | 28 | \$1,340.00 |



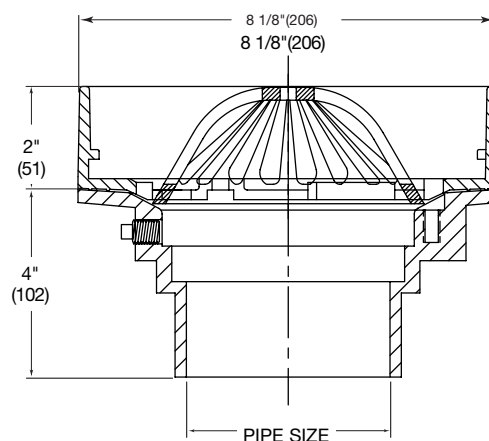
Options for RD-400 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|---------------------|------------|--------|----------------------------|------------|
| None | No Hub | No Add | -B | Sump Receiver | \$501.50 |
| -P | Push-On Outlet | No Add | -D | Underdeck Clamp | 450.00 |
| -T | Threaded Outlet | \$151.50 | -F | Deck Flange/Adj. Extension | 1,228.00 |
| -X | Inside Caulk Outlet | No Add | -L | Vandal Proof Dome | 232.50 |
| -13 | Galvanized | 773.00 | | | |

RD-410

8" Diameter Deck Receptor Drain

| Model Number | Outlet Size | WT., Lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-412,3,4 | 2,3,4" | 15 | \$1,102.00 |



Options for RD-410 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|----------------------------------|------------|--------|----------------------------|------------|
| None | No Hub | No Add | -B | Sump Receiver | \$478.50 |
| P | Push-On Outlet | No Add | -D | Underdeck Clamp | 278.00 |
| T | Threaded Outlet | \$151.50 | -F | Deck Flange/Adj. Extension | 930.00 |
| X | Inside Caulk Outlet | No Add | -L | Vandal Proof | 214.50 |
| -13 | Galvanized Body & Flashing Clamp | 367.00 | -SO | Side Outlet | 408.50 |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

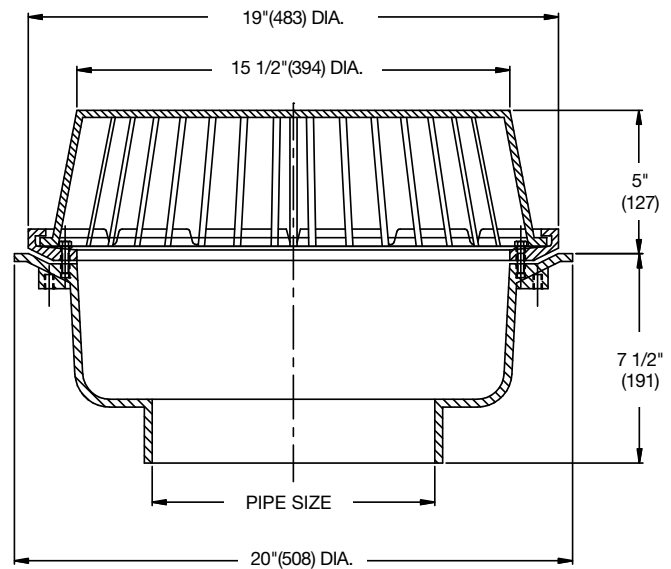


Specialty Roof Drains

RD-500

Super Flow Roof Drain

| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-510, 12 | 10", 12" | 52 | \$3,999.00 |



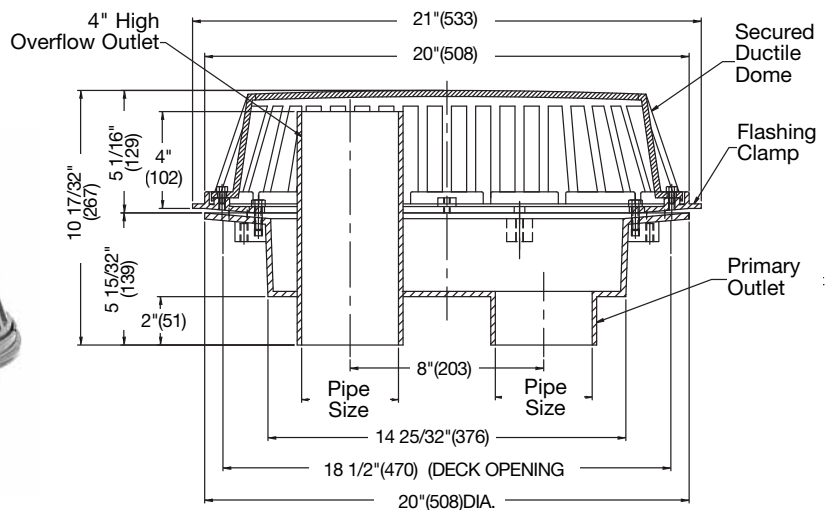
Options for RD-500 Series:

| Suffix | Description | List Price |
|--------|----------------------------|------------|
| -D | Underdeck Clamp | \$450.00 |
| -F | Deck Flange/Adj. Extension | 1,228.00 |
| -L | Vandal Proof Dome | 232.50 |
| -R | 2" External Water Dam | 431.00 |
| -W | 2" Internal Water Dam | 788.50 |

RD-700

Dual Outlet Roof Drain/Overflow

| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-703, 4 | 3,4" | 49 | \$4,037.00 |
| RD-705, 6 | 5,6" | 49 | 4,839.00 |



Options for RD-700 Series:

| Suffix | Description | List Price |
|--------|----------------------------|------------|
| -CT | Overflow Through Dome | No Add |
| -D | Underdeck Clamp | \$461.00 |
| -F | Deck Flange/Adj. Extension | 823.50 |
| -GSS | 4" High SS Gravel Guard | 1,646.00 |
| -K80 | Aluminum Dome | No Add |
| -K83 | SS Mesh Covered Dome | 968.00 |
| -L | Vandal Proof Dome | 220.00 |
| -W2 | 2" High Overflow | No Add |

RD-700-CT



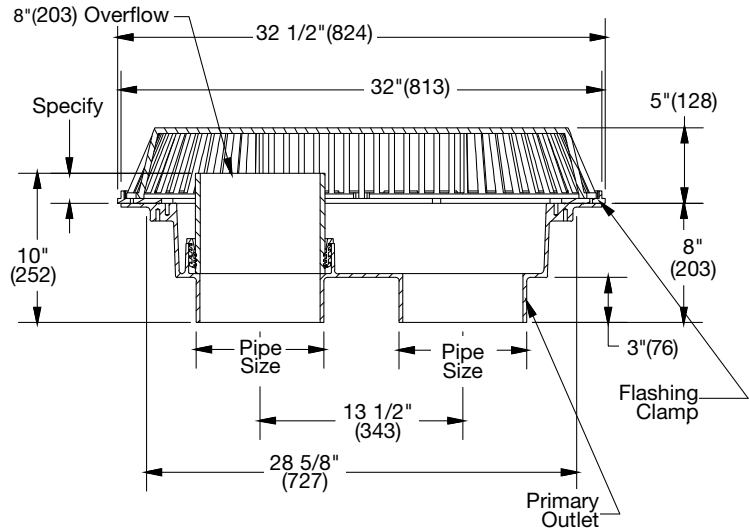
Consult factory for all applications outside of listed parameters.
Prices do not include applicable taxes.

Roof Drains

RD-800

Dual Outlet Large Capacity Roof Drain/Overflow

| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-808 | 8" | 115 | \$5,941.00 |
| RD-810 | 10" | 115 | 6,385.00 |



Options for RD-800 Series:

| Suffix | Description | List Price |
|--------|----------------------------|------------|
| -CT | Overflow Through Dome | No Add |
| -D | Underdeck Clamp | \$485.50 |
| -F | Deck Flange/Adj. Extension | 823.50 |
| -R | 2" External Water Dam | 431.00 |
| -L | Vandal Proof Dome | 220.00 |
| -W2 | 2" High Overflow | No Add |

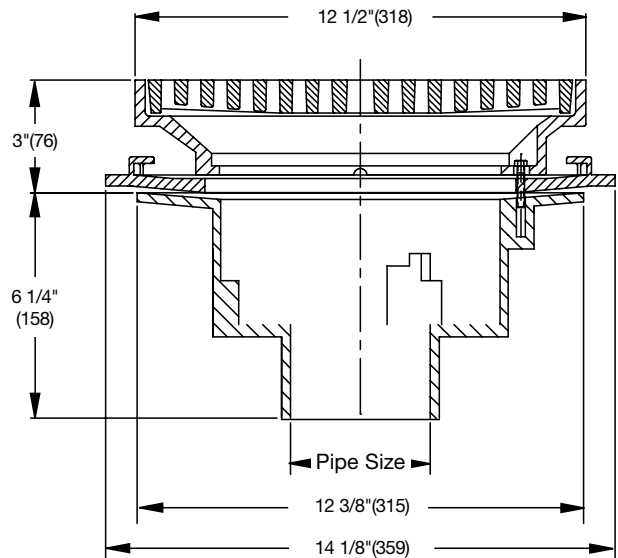
RD-800-CT



RD-100-CP

Roof Drain with 12"x12" Promenade Top

| Model Number | Outlet Size | WT., lbs. | Grate | List Price |
|-------------------|-------------|-----------|---------------|------------|
| RD-102, 3, 4-CP, | 2, 3, 4" | 80 | ductile iron | \$2,278.00 |
| RD-102, 3, 4-CP-1 | 2, 3, 4" | 80 | nickel bronze | 4,071.00 |
| RD-105, 6-CP | 5, 6" | 80 | ductile iron | 2,460.00 |
| RD-105, 6-CP-1 | 5, 6" | 80 | nickel bronze | 4,120.00 |



Options for RD-100-CP/RD-300-CP15 Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|--------------------------------------|------------|--------|---------------------------------------|------------|
| None | No Hub | No Add | -85 | 4" SS Perforated Extension | \$1,165.00 |
| P | Push-On Available on 3, 4 & 6" Only | No Add | -B | Sump Receiver | 500.00 |
| T | Threaded Outlet (RD-100-CP only) | \$151.50 | -D | Underdeck Clamp | 448.50 |
| X | Inside Caulk Outlet (RD-100-CP only) | No Add | -E | 1" Stackable Clamp | 151.50 |
| -6 | Vandal Proof | 275.00 | -F | Deck Flange/Adj. Extension | 1,228.00 |
| -9 | Hinged Grate | 424.00 | -S0 | Side Outlet (RD-100-CP 2, 3, 4" only) | 627.00 |
| -13 | Galvanized | 1,781.00 | | | |

Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.

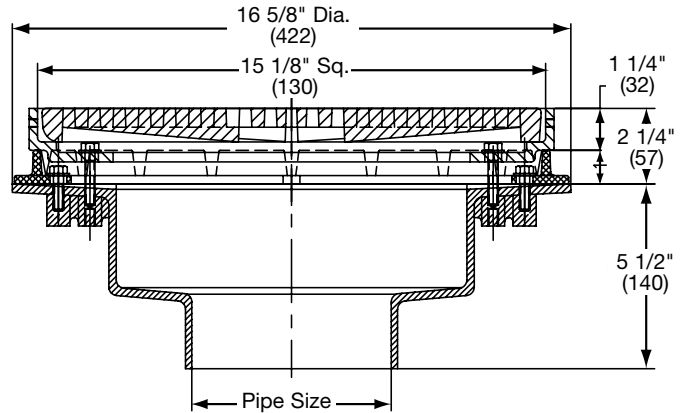


Vent Cap/Expansion Coupling

RD-300-CP15

Roof Drain with 15"x15" Promenade Top

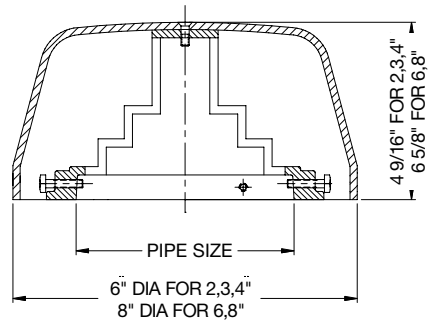
| Model Number | Outlet Size | WT., lbs. | Grate | List Price |
|---------------------|-------------|-----------|---------------|------------|
| RD-302, 3, 4-CP15, | 2, 3, 4" | 110 | ductile iron | \$2,232.00 |
| RD-302, 3, 4-CP15-1 | 2, 3, 4" | 110 | nickel bronze | 5,891.00 |
| RD-305, 6,8-CP15 | 5, 6, 8" | 110 | ductile iron | 2,772.00 |
| RD-305, 6,8-CP15-1 | 5, 6, 8" | 110 | nickel bronze | 6,044.00 |



RD-680-VC

Vent Cap

| Model Number | Outlet Size | WT., lbs. | List Price |
|-----------------|-------------|-----------|------------|
| RD-682, 3, 4-VC | 2, 3, 4" | 7 | \$878.00 |
| RD-686-VC | 6" | 15 | 1,249.00 |
| RD-688-VC | 8" | 15 | 1,433.00 |



Options for RD-680-VC Series:

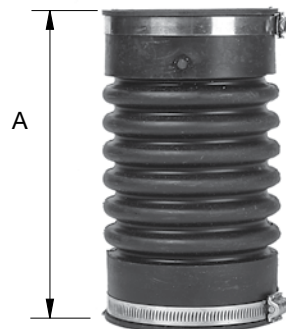
| Suffix | Description | List Price |
|--------|-------------|------------|
| -13 | Galvanized | \$314.00 |

RD-900

Neoprene Expansion Coupling

| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-902 | 2" | 1 | \$556.50 |
| RD-903 | 3" | 1 | 683.00 |
| RD-904 | 4" | 2 | 792.00 |

| 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

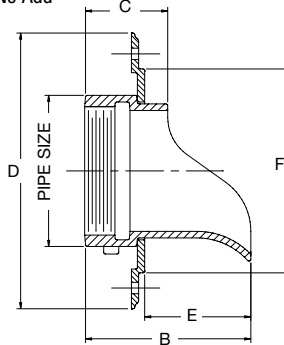
RD-940

Downspout Nozzle

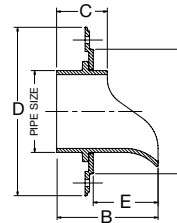
| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-942, 3, 4 | 2, 3, 4" | 12 | \$2,017.00 |
| RD-945, 6 | 5, 6" | 18 | 3,616.00 |
| RD-948 | 8" | 22 | 4,937.00 |
| RD-9410-NH | 10" | 25 | 6,440.00 |
| RD-9412-NH | 12" | 29 | 7,972.00 |

Options for RD-940 Series:

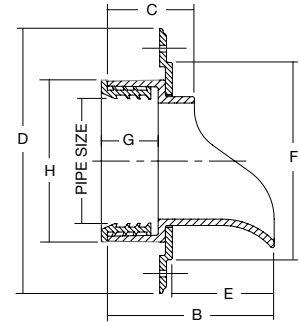
| Suffix | Description | List Price |
|--------|---------------------------------------|------------|
| -83 | SS Bird Screen | \$1,023.00 |
| -NH | No Hub | No Add |
| -P | Push-On Connection (3,4,6,8" Only) | No Add |



IPS



No-Hub



Push-On

| 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.

Prices do not include applicable taxes.



Downspout Nozzles

RDA-940

Wallflower™ Downspout Cover

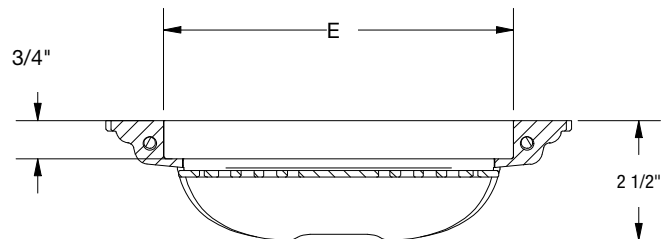
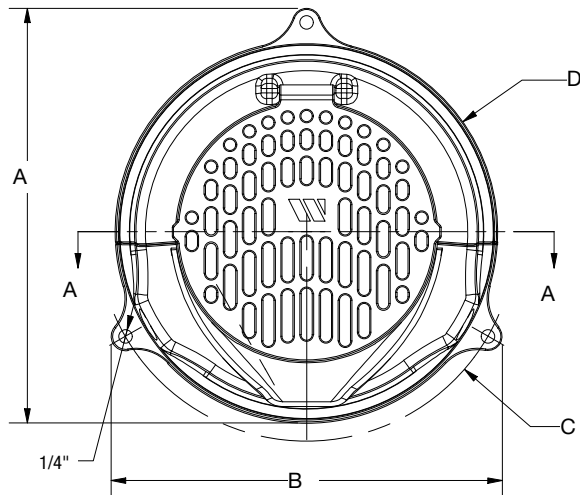
| Model Number | Order No. | Outlet Size | WT., lbs. | List Price |
|--------------|-----------|-------------|-----------|------------|
| RDA-943-NB | 8201015 | 3"(76) | 1.11 | \$2,060.00 |
| RDA-944-NB | 8201016 | 4"(102) | 1.40 | 2,060.00 |
| RDA-946-NB | 8201017 | 6"(152) | 1.96 | 3,699.00 |
| RDA-948-NB | 8201018 | 8"(203) | 2.60 | 5,056.00 |
| RDA-943-SL | 8201383 | 3"(76) | 1.11 | 2,060.00 |
| RDA-944-SL | 8201384 | 4"(102) | 1.40 | 2,060.00 |
| RDA-946-SL | 8201385 | 6"(152) | 1.96 | 3,699.00 |
| RDA-948-SL | 8201386 | 8"(203) | 2.60 | 5,056.00 |
| RDA-943-RD | 8201387 | 3"(76) | 1.11 | 2,060.00 |
| RDA-944-RD | 8201388 | 4"(102) | 1.40 | 2,060.00 |
| RDA-946-RD | 8201389 | 6"(152) | 1.96 | 3,699.00 |
| RDA-948-RD | 8201390 | 8"(203) | 2.60 | 5,056.00 |

Note: Available in Nickel Bronze (-NB), Silver (-SL,) & Red Brick (-RD).
Go to www.watts.com to view color images.



Coming Soon

| NB Multi-Pack | | | | |
|-----------------|-----------|-------------|-----------|------------|
| Model Number | Order No. | Outlet Size | WT., lbs. | List Price |
| RDA-943-NB-5PK | 8201562 | 3"(76) | 5.60 | \$8,236.00 |
| RDA-944-NB-5PK | 8201563 | 4"(102) | 7.00 | 8,236.00 |
| RDA-946-NB-5PK | 8201564 | 6"(152) | 9.80 | 14,785.00 |
| RDA-943-NB-10PK | 8201566 | 3"(76) | 11.20 | 14,411.00 |
| RDA-944-NB-10PK | 8201567 | 4"(102) | 14.00 | 14,411.00 |
| RDA-946-NB-10PK | 8201568 | 6"(152) | 19.60 | 25,873.00 |



| Dimensional Data | | | | | | |
|------------------|-----------|--------------|--------------|--------------|--------------|-------------|
| Model | Pipe Size | A | B | C | D | E |
| RDA-943 | 3"(76) | 6 1/2"(165) | 6 3/8"(162) | 6 1/2"(165) | 5 3/4"(146) | 3 3/4"(95) |
| RDA-944 | 4"(102) | 7 1/2"(191) | 7 1/4"(184) | 7 1/2"(191) | 6 3/4"(171) | 4 3/4"(120) |
| RDA-946 | 6"(152) | 9 1/2"(241) | 9"(229) | 9 1/2"(241) | 8 3/4"(222) | 6 3/4"(171) |
| RDA-948 | 8"(200) | 11 1/2"(292) | 10 3/4"(273) | 11 1/2"(292) | 10 3/4"(273) | 8 3/4"(222) |



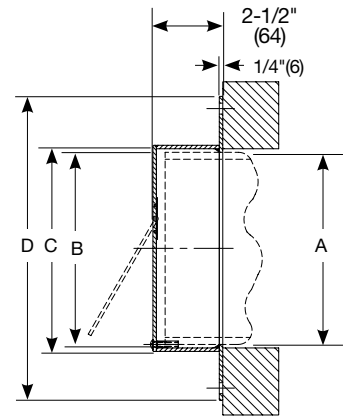
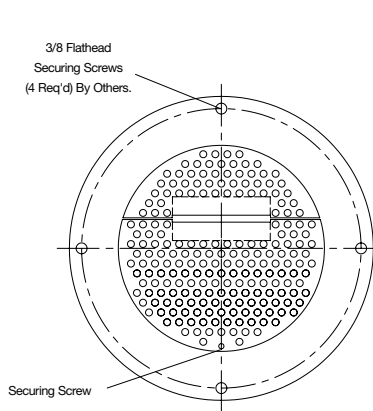
Consult factory for all applications outside of listed parameters.
Prices do not include applicable taxes.

Downspout Nozzles

RD-950

Stainless Steel Downspout Cover

| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-953,4 | 3, 4" | 8 | \$5,410.00 |
| RD-956 | 6" | 9 | 5,716.00 |
| RD-958 | 8" | 10 | 5,986.00 |
| RD-9510 | 10" | 12 | 6,333.00 |
| RD-9512 | 12" | 14 | 6,333.00 |



Options for RD-950 Series:

| Suffix | Description | List Price |
|--------|--------------|------------|
| -6 | Vandal Proof | 286.00 |

RD-970/980

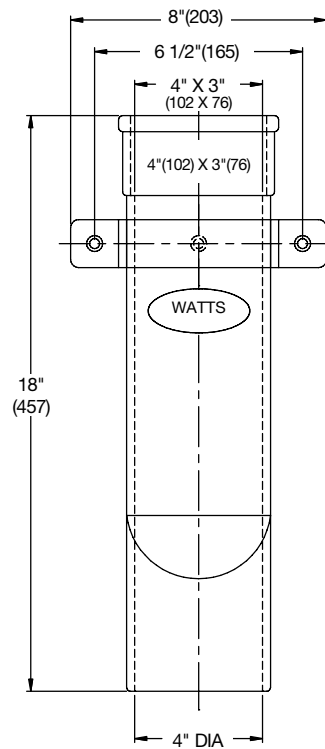
Downspout Boot

| Model Number | Outlet Size | WT., lbs. | List Price |
|--------------|-------------|-----------|------------|
| RD-970 | 4" x 3" | 20 | \$1,534.00 |
| RD-980 | 5" x 4" | 30 | 2,447.00 |

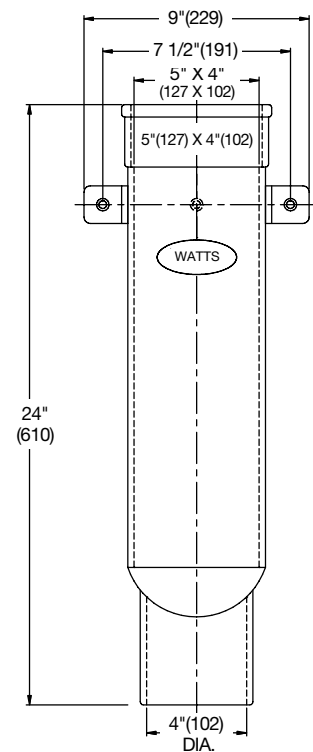


RD-970

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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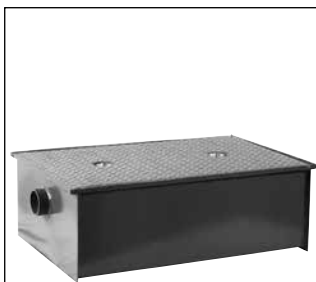


Interceptors

Pictorial Index



WD SERIES
PDI Certified Grease
Interceptor



WD-L SERIES
PDI Certified Low Rough-in
Grease Interceptor



GI-K SERIES
Large Capacity
Grease Interceptor



WD-A SERIES
Semi-Automatic Draw-Off
Grease Interceptor



WD-LA SERIES
Low Rough-in Semi-Auto-
matic 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

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

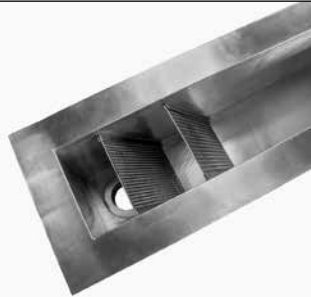


Interceptors

Pictorial Index



LI-800-SERIES
Lint Interceptor



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-T0 |
| 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

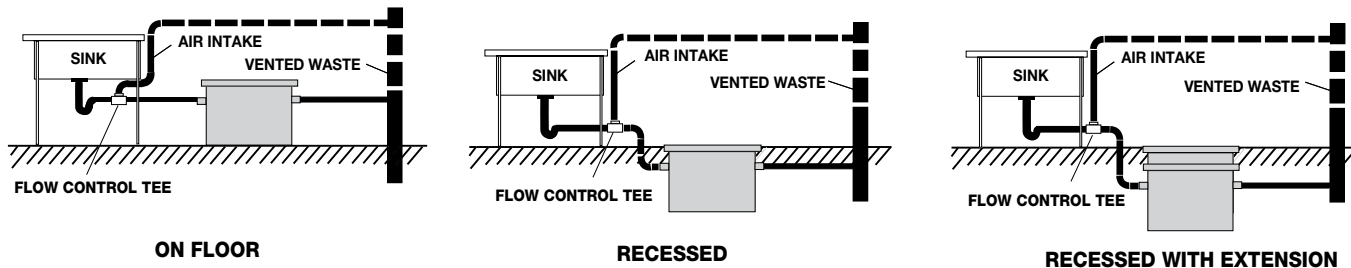
No hub (standard)

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:
 $\text{____ (LENGTH) x ____ (WIDTH) x ____ x (DEPTH) = ____ CU. IN.}$
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.

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 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 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.

-US Buy American Compliant

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

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.

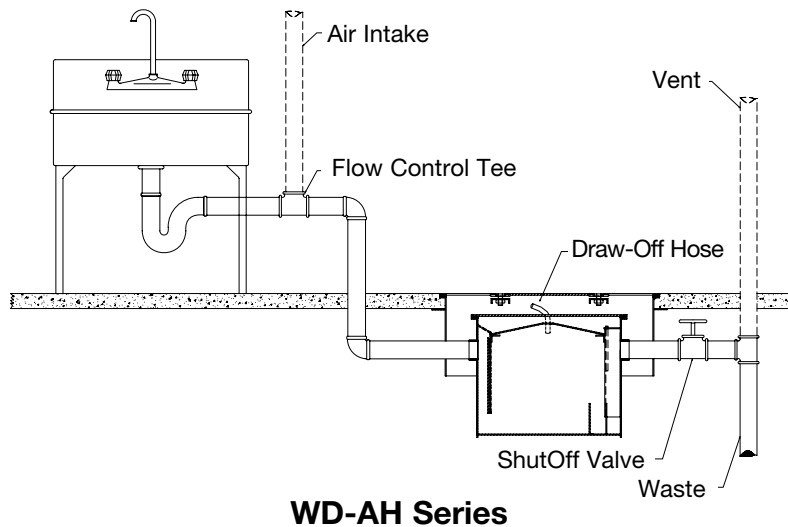
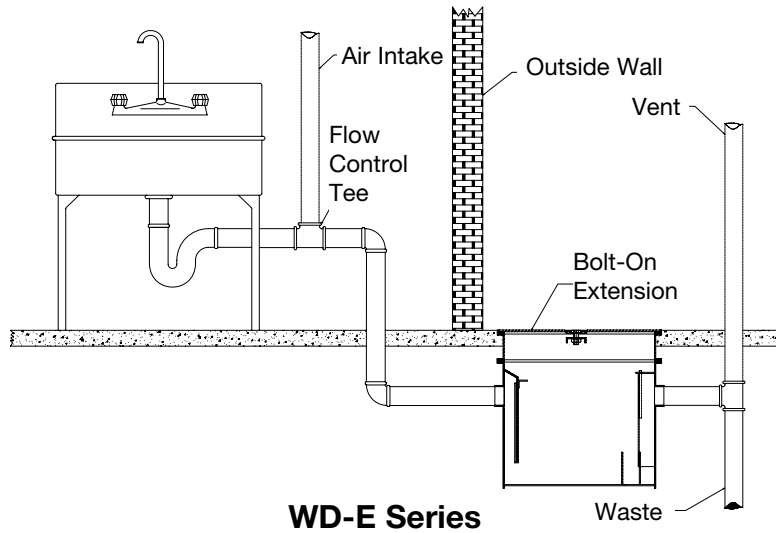
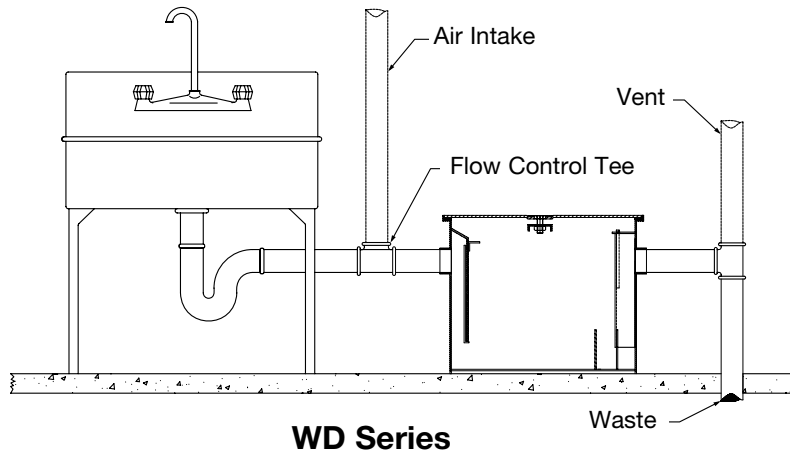
Manual operation grease interceptors are cleaned by removing the cover (secured with hex bolts), and scooping out grease accumulated at the top of the interceptor. Grease can be removed manually, or pumped by outside service. Check local ordinances for proper grease disposal.

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.

Interceptors

Typical Grease Interceptor Installations



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 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.

-US Buy American Compliant

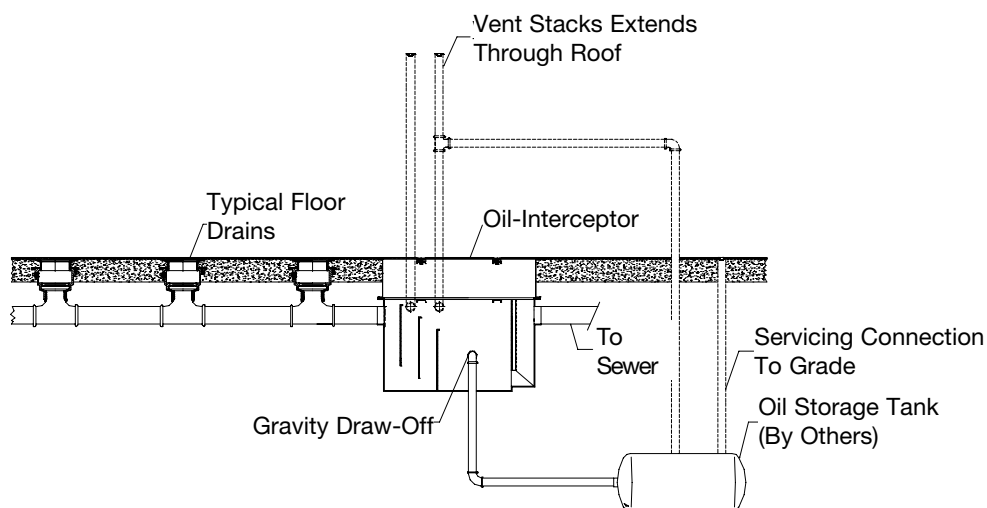
Product will be supplied with minimum 51% domestic content, in compliance with FAR 52.225-9 Buy American Act.

Interceptors

Oil Interceptors

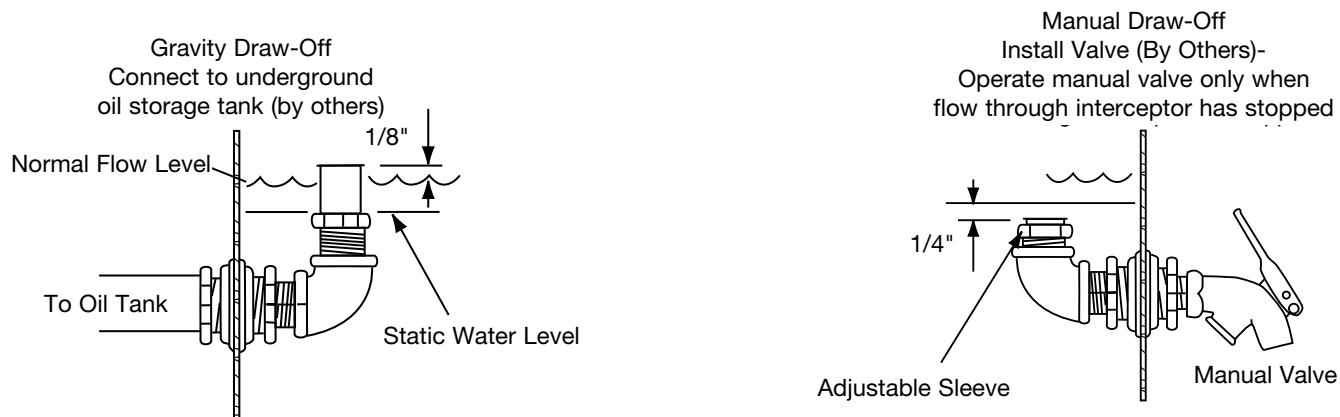
Installation Considerations

- a) Oil interceptors may be floor mounted, but are typically recessed to connect to below grade piping from floor drains or trench drains.
- b) 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.
- c) Oil interceptors may be installed outside, making sure all piping is below the frost line (see Options - Extension).
- d) 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

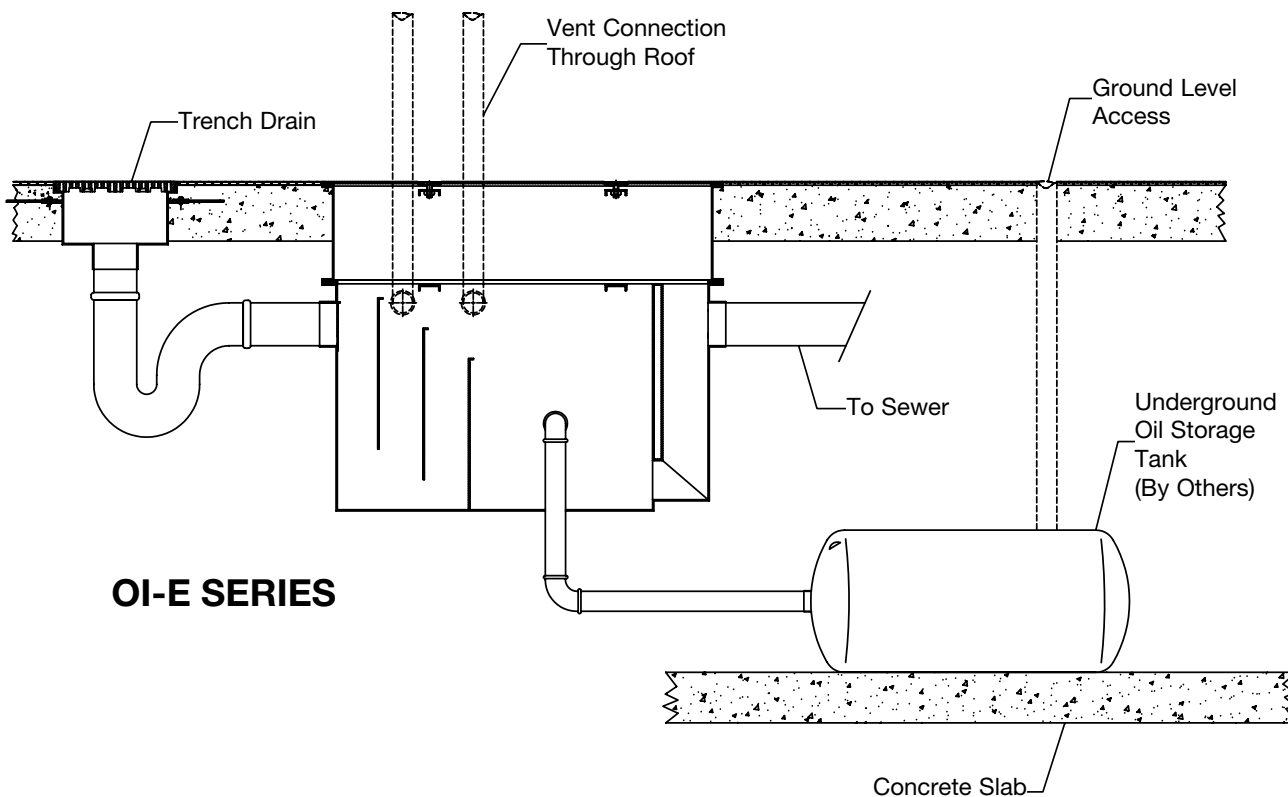
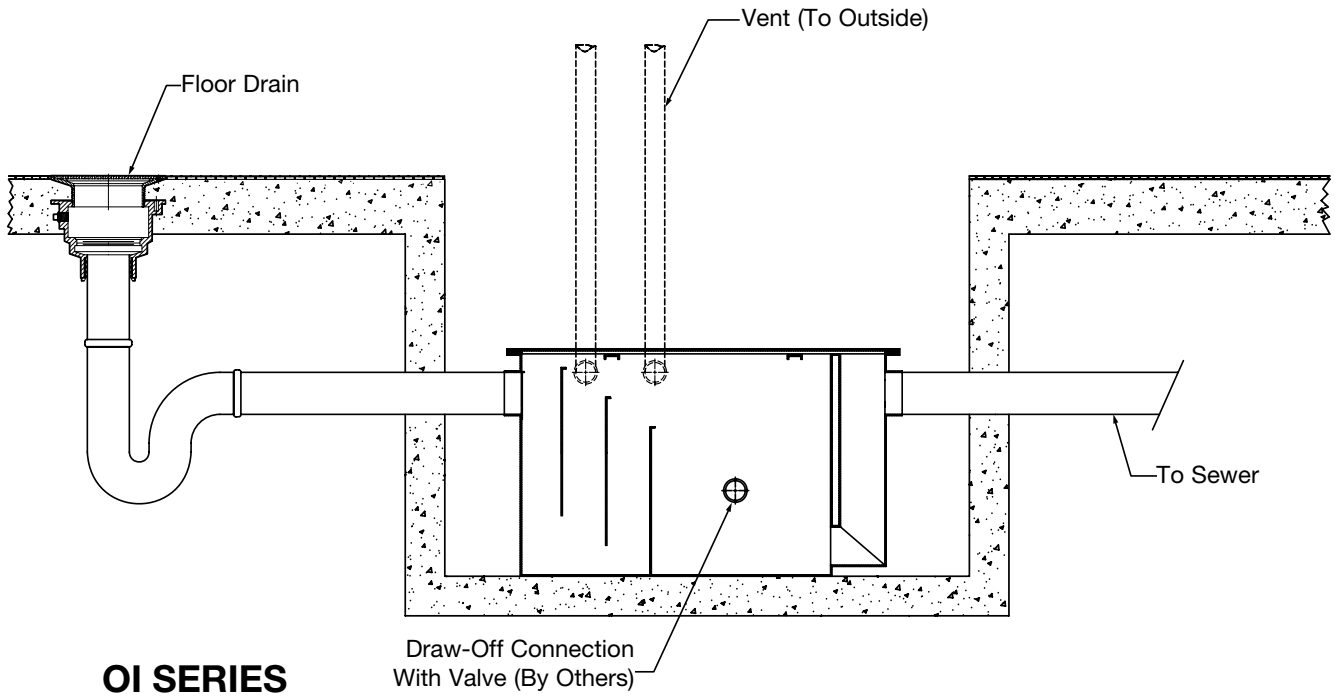
Oil interceptors are not designed to store oil for an extended period of time. Oil should be drawn off or drained into an approved oil storage tank, which would be serviced as required. If a manual valve is used, accumulated oil should be drained on a regular basis, depending upon the amount of incoming 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).

Interceptors

Typical Oil Interceptor Installations



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.

-US Buy American Compliant

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

-X Cover for Recessed Installation

Allows smaller floor mounted interceptors to be recessed in the floor.

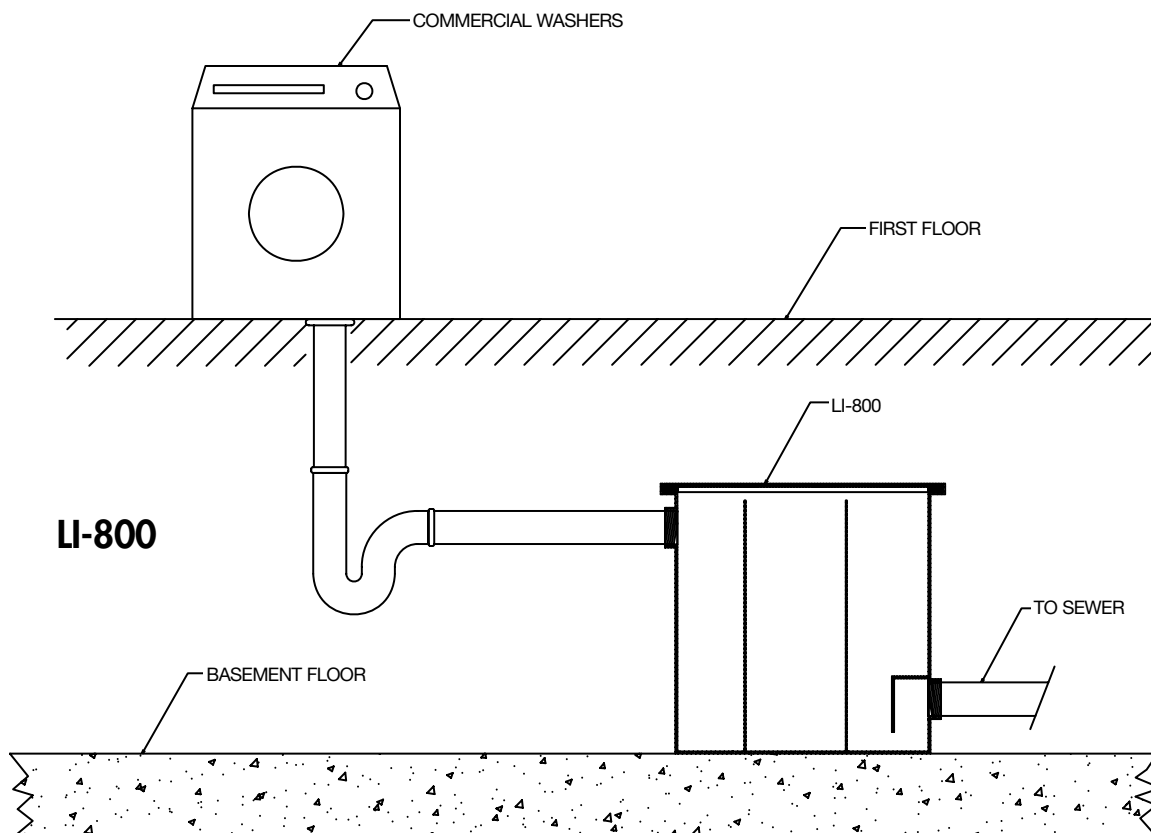
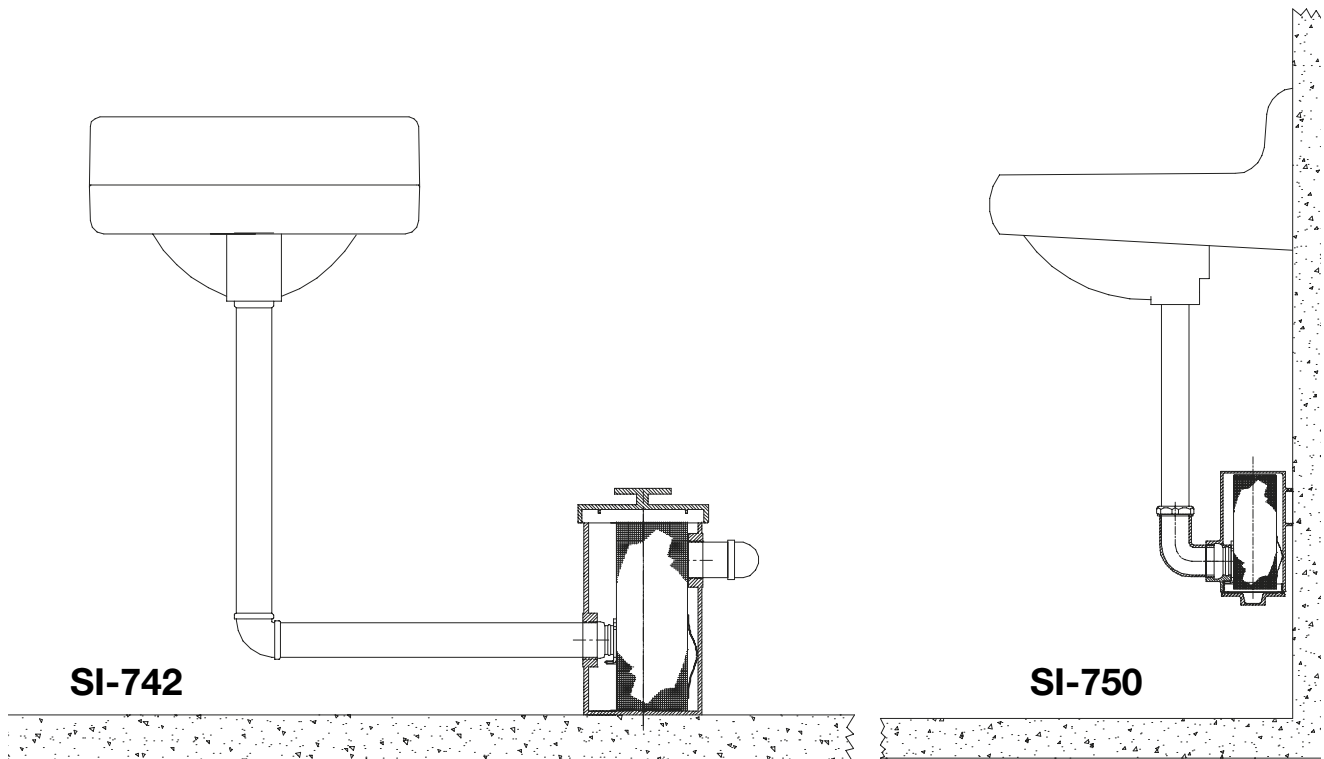
Maintenance & Cleaning

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



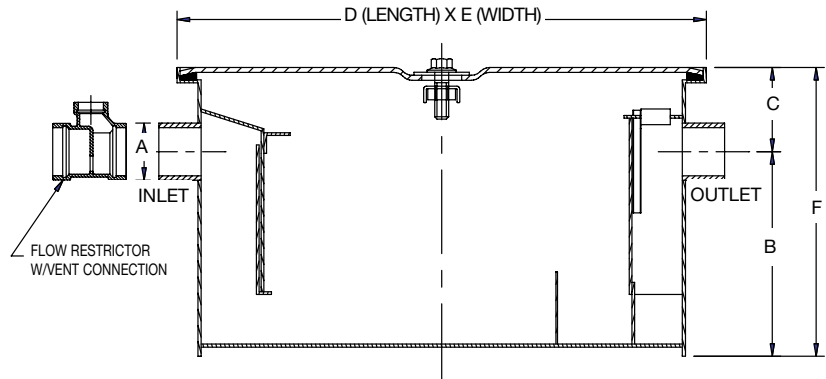
Consult factory for all pricing and applications outside of listed parameters.
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WATTS®

Grease Interceptors

WD Series

PDI Certified Grease Interceptor



ISO 9001-2008
CERTIFIED

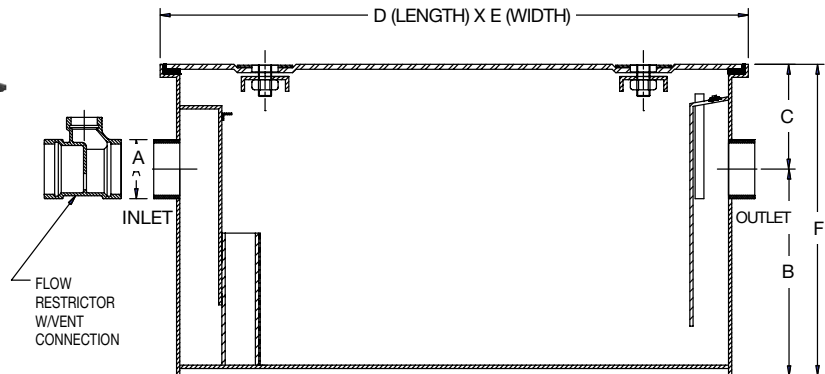


| Interceptor Model Number | EDP# | List Price A.R.E. | -HD 10,000 Lbs. (Traffic Cover) Add | Flow Rate GPM | Grease Capacity Lbs. | A Inlet & Outlet | B Base to Center | C Top to Center | D Length | E Width | F Height | Weight Lbs. |
|--------------------------|---------|-------------------|-------------------------------------|---------------|----------------------|------------------|------------------|-----------------|----------|---------|----------|-------------|
| WD-4 | 8150959 | \$4,069.00 | \$9,838.00 | 04 | 08 | 2" | 7-3/4" | 3-1/4" | 16" | 10" | 11" | 37.48 |
| WD-7 | 8150960 | 5,652.00 | 10,403.00 | 07 | 14 | 2" | 8-1/2" | 3-1/2" | 18" | 13" | 12" | 54.01 |
| WD-10 | 8150961 | 6,637.00 | 11,560.00 | 10 | 20 | 2" | 8-1/2" | 3-1/2" | 21-3/4" | 14" | 12" | 63.93 |
| WD-15 | 8150962 | 9,838.00 | 12,776.00 | 15 | 30 | 2" | 10-1/2" | 3-1/2" | 22" | 15" | 14" | 74.07 |
| WD-20 | 8150963 | 12,032.00 | 13,382.00 | 20 | 40 | 3" | 11-1/2" | 3-1/2" | 24" | 15-3/4" | 15" | 83.77 |
| WD-25 | 8150964 | 13,519.00 | 14,126.00 | 25 | 50 | 3" | 12" | 4-1/2" | 26" | 16-1/2" | 16-1/2" | 95.90 |
| WD-35 | 8150965 | 16,703.00 | 19,440.00 | 35 | 70 | 3" | 14" | 5" | 30" | 18" | 19" | 123.46 |
| WD-50 | 8150966 | 22,115.00 | 21,330.00 | 50 | 100 | 4" | 16" | 5-1/2" | 32" | 22" | 21-1/2" | 160.94 |

*-HD Option Requires Minimum 3" Extension

WD-L Series

PDI Certified Low-Rough-In Grease Interceptor



| Interceptor Model Number | EDP# | 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-20-L | 8151237 | \$16,218.00 | 20 | 40 | 3" | 7-3/4" | 4" | 35" | 23" | 12" | 62.10 |
| WD-35-L | 8151746 | 20,879.00 | 35 | 70 | 4" | 7" | 4-1/2" | 41" | 33" | 12" | 93.70 |
| WD-50-L | 8100892 | 35,368.00 | 50 | 100 | 4" | 8-1/2" | 5-1/2" | 55" | 33" | 14" | 130.70 |

*Note: WD-50-L Not PDI Certified

Options for WD & WD-L Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|---------------------------------|------------|--------|---|------------|
| -AL | Aluminum Cover | \$2,950.00 | -O | Inlet & Outlet other than Standard Size | \$1,135.00 |
| -B | Sediment Bucket | 3,403.00 | -SS | All Stainless Steel | P.O.A. |
| -E | Extension Up to 12" | 7,373.00 | -THD | Threaded Connection | No Add |
| | Extension over 12" add per inch | 521.00 | | | |
| -FC | Flange & Clamp Device | 2,777.00 | | | |

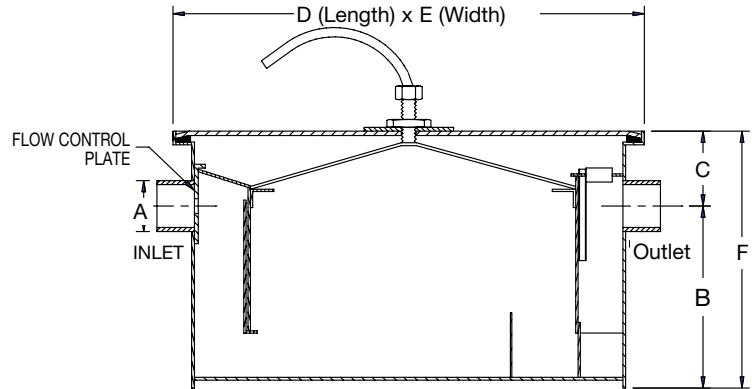


Consult factory for all pricing and applications outside of listed parameters.
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Grease Interceptors

WD-A Series

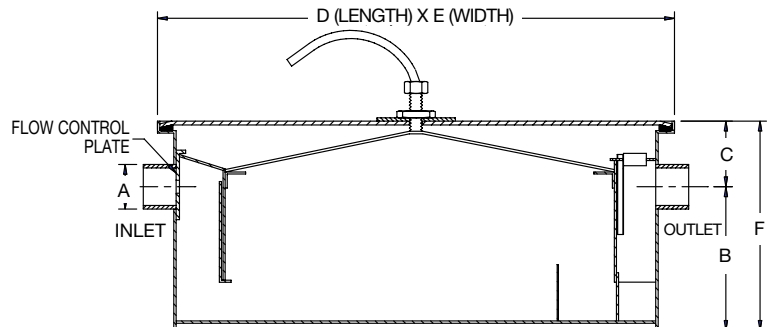
Semi-Automatic Draw-Off Grease Interceptor



| Interceptor Model Number | EDP# | List Price A.R.E. | Flow Rate GPM | Grease Capacity | A Inlet & Outlet | B Base to Center | C Top to Center | D Length | E Width | F Height | Weight Lbs. |
|--------------------------|---------|-------------------|---------------|-----------------|------------------|------------------|-----------------|----------|---------|----------|-------------|
| WD-7-A | 8185874 | \$14,438.00 | 7 | 14 | 2" | 8-1/2" | 3-1/2" | 18" | 13" | 12" | 59.01 |
| WD-10-A | 8186041 | 17,077.00 | 10 | 20 | 2" | 8-1/2" | 3-1/2" | 21-3/4" | 14" | 12" | 68.93 |
| WD-15-A | 8185878 | 18,193.00 | 15 | 30 | 2" | 10-1/2" | 3-1/2" | 22" | 15" | 14" | 79.07 |
| WD-20-A | 8185818 | 23,387.00 | 20 | 40 | 3" | 11-1/2" | 3-1/2" | 24" | 15-3/4" | 15" | 88.77 |
| WD-25-A | 8185821 | 27,130.00 | 25 | 50 | 3" | 12" | 4-1/2" | 26" | 16-1/2" | 16-1/2" | 100.90 |
| WD-35-A | 8185828 | 27,830.00 | 35 | 70 | 3" | 14" | 5" | 30" | 18" | 19" | 128.46 |
| WD-50-A | 8186078 | 31,770.00 | 50 | 100 | 4" | 16" | 5-1/2" | 32" | 22" | 21-1/2" | 165.94 |
| WD-75-A | 8186016 | 37,795.00 | 75 | 150 | 4" | 18-1/2" | 5-1/2" | 36" | 24" | 24" | N/A |

WD-LA Series

Low Rough-In Semi-Automatic Draw-Off Grease Interceptor



| Interceptor Model Number | EDP# | 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-20-LA | 8186042 | \$26,978.00 | 20 | 40 | 3" | 7-3/4" | 4" | 35" | 23" | 12" | 67.10 |
| WD-25-LA | 8188164 | 28,884.00 | 25 | 50 | 3" | 7-1/2" | 4-1/2" | 38" | 28" | 12" | N/A |
| WD-35-LA | 8186006 | 38,026.00 | 35 | 70 | 4" | 7" | 4-1/2" | 41" | 33" | 12" | 98.70 |

Options for WD-A, WD-LA, WD-AH, WD-H Series:

| Suffix | Description | List Price |
|--------|------------------------------------|------------|
| -O | Inlet & Outlet other than Standard | \$1,135.00 |
| -SS | All Stainless Steel | P.O.A. |

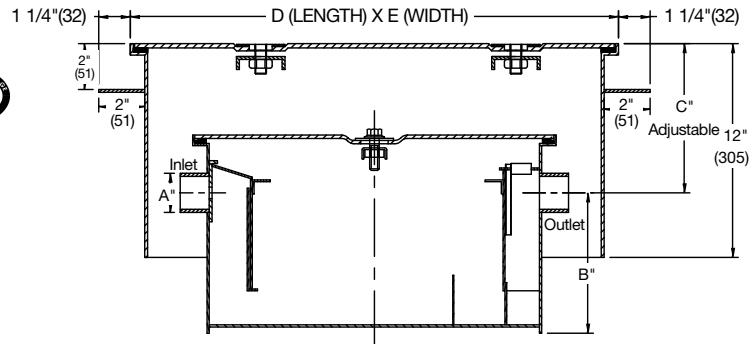
Consult factory for all pricing and applications outside of listed parameters.
Prices do not include applicable taxes.



Grease Interceptors

WD-H

Grease Interceptor with Access Housing

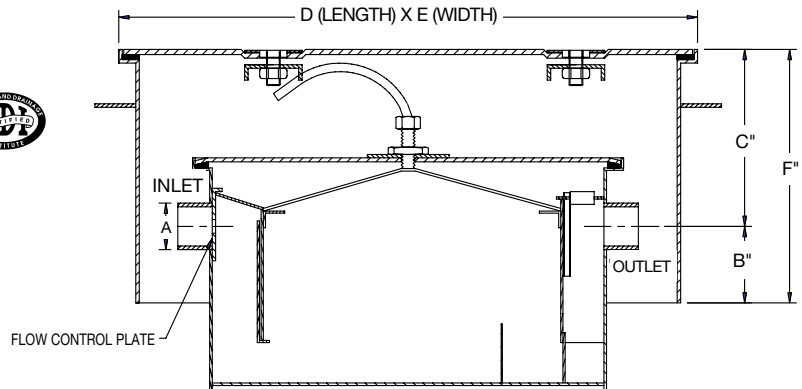


| Interceptor Model Number | EDP# | List Price A.R.E. | Flow Rate GPM | Grease Capacity | A Inlet & Outlet | B Base to Center Min | C Top to Center Min. | D Length | E Width | F Height |
|--------------------------|---------|-------------------|---------------|-----------------|------------------|----------------------|----------------------|----------|---------|----------|
| WD-7-H | 8187953 | \$16,344.00 | 7 | 14 | 2" | V 5-1/2" | 5-1/4" 13-1/4" | 35" | 18-1/2" | 12" |
| WD-10-H | 8188389 | 17,778.00 | 10 | 20 | 2" | A 5-1/2" | 5-1/4" 13-1/4" | 39" | 19-1/2" | 12" |
| WD-15-H | 8187586 | 21,769.00 | 15 | 30 | 2" | R 5-1/2" | 5-1/4" 13-1/4" | 39" | 20-1/2" | 12" |
| WD-20-H | 8185840 | 24,734.00 | 20 | 40 | 3" | I 5-1/2" | 5-1/4" 13-1/4" | 41" | 21-1/2" | 12" |
| WD-25-H | 8185816 | 26,548.00 | 25 | 50 | 3" | A 4-1/2" | 6-1/4" 14-1/4" | 43" | 22" | 12" |
| WD-35-H | 8186158 | 30,309.00 | 35 | 70 | 3" | B 4" | 6-3/4" 14-3/4" | 47" | 23-1/2" | 12" |
| WD-50-H | 8185902 | 41,940.00 | 50 | 100 | 4" | L 3-1/2" | 7-1/4" 15-1/4" | 49" | 27-1/2" | 12" |
| WD-75-H | 8188724 | 54,008.00 | 75 | 150 | 4" | E 3-1/2" | 7-3/4" 15-3/4" | 53" | 29-1/2" | 12" |

(Housing dimensions only; for Interceptor only dimensions, see WD-A Series)

WD-AH Series

Semi-Automatic Draw-Off Grease Interceptor with Access Housing



| Interceptor Model Number | EDP# | List Price A.R.E. | Flow Rate GPM | Grease Capacity Lbs. | A Inlet & Outlet | B Base to Center Min | C Top to Center Min. | D Length | E Width | F Height |
|--------------------------|---------|-------------------|---------------|----------------------|------------------|----------------------|----------------------|----------|---------|----------|
| WD-7-AH | 8186150 | \$26,047.00 | 7 | 14 | 2" | V 5-1/2" | 5-1/4" 13-1/4" | 35" | 18-1/2" | 12" |
| WD-10-AH | 8186167 | 30,555.00 | 10 | 20 | 2" | A 5-1/2" | 5-1/4" 13-1/4" | 39" | 19-1/2" | 12" |
| WD-15-AH | 8186613 | 33,175.00 | 15 | 30 | 2" | R 5-1/2" | 5-1/4" 13-1/4" | 39" | 20-1/2" | 12" |
| WD-20-AH | 8186017 | 38,613.00 | 20 | 40 | 3" | I 5-1/2" | 5-1/4" 13-1/4" | 41" | 21-1/2" | 12" |
| WD-25-AH | 8186040 | 42,632.00 | 25 | 50 | 3" | A 4-1/2" | 6-1/4" 14-1/4" | 43" | 22" | 12" |
| WD-35-AH | 8185887 | 44,407.00 | 35 | 70 | 3" | B 4" | 6-3/4" 14-3/4" | 47" | 23-1/2" | 12" |
| WD-50-AH | 8185851 | 48,502.00 | 50 | 100 | 4" | L 3-1/2" | 7-1/4" 15-1/4" | 49" | 27-1/2" | 12" |
| WD-75-AH | 8186085 | 58,120.00 | 75 | 150 | 4" | E 3-1/2" | 7-3/4" 15-3/4" | 53" | 29-1/2" | 12" |

(Housing dimensions only; for Interceptor only dimensions, see WD-A Series)



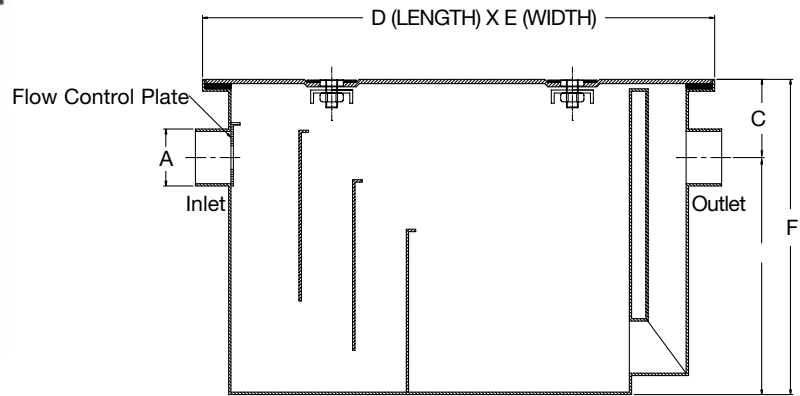
Consult factory for all pricing and applications outside of listed parameters.
Prices do not include applicable taxes.

Grease Interceptors

GI-K SERIES

Large Capacity Grease Interceptor

| Interceptor Model Number | EDP# | List Price | -HD 10,000 lbs. (Traffic Cover)* Add | 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. |
|--------------------------|---------|-------------|--------------------------------------|---------------|----------------------|------------------|------------------|-----------------|----------|---------|----------|-------------|
| GI-75-K | 8142012 | \$44,564.00 | \$14,160.00 | 75 | 150 | 4" | 18-1/2" | 4-1/2" | 39-3/4" | 30-3/4" | 23" | 264.55 |
| GI-100-K | 8141970 | 50,143.00 | 19,486.00 | 100 | 200 | 4" | 28-1/2" | 4-1/2" | 39-3/4" | 30-3/4" | 33" | 317.46 |
| GI-150-K | 8141976 | 55,695.00 | 25,015.00 | 150 | 300 | 4" | 38-1/2" | 4-1/2" | 39-3/4" | 30-3/4" | 43" | 401.24 |
| GI-200-K | 8141981 | 58,970.00 | 28,532.00 | 200 | 400 | 4" | 36-1/2" | 6-1/2" | 52" | 34" | 43" | 493.83 |
| GI-250-K | 8185196 | 94,034.00 | 39,383.00 | 250 | 500 | 4" | 39-1/2" | 6-1/2" | 52" | 34" | 46" | 639.33 |
| GI-300-K | 8185587 | 110,590.00 | 50,448.00 | 300 | 600 | 6" | 38" | 10" | 76" | 48" | 48" | 848.77 |
| GI-400-K | 8186246 | 135,316.00 | 68,506.00 | 400 | 800 | 6" | 42" | 10" | 83" | 55" | 52" | 959.00 |
| GI-500-K | 8185903 | 160,524.00 | 92,256.00 | 500 | 1000 | 6" | 53" | 10" | 91" | 60" | 63" | 1289.69 |



*-HD Option Requires Minimum 3" Extension

Options for GI-K Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|---|-------------|--------|---|------------|
| AL | Aluminum Cover | \$14,593.00 | -O | Inlet & Outlet Other Than Standard Size | \$1,135.00 |
| B | Sediment Bucket | 6,183.00 | -SS | All Stainless Steel | P.O.A. |
| E | Extension Up to 12" | 9,830.00 | -THD | Threaded Connections | No Add |
| | Extension Over 12", add per inch | 841.00 | | | |
| -FC | Flange & Clamp Device (on extension only) | 7,866.00 | | | |

Consult factory for all pricing and applications outside of listed parameters.

Prices do not include applicable taxes.

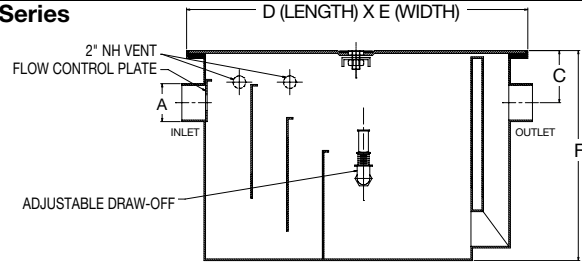


Oil Interceptors

OI & OI-K Series Oil Interceptors

| Interceptor Model Number | EDP# | Flow Rate GPM | List Price | -HD 10,000 (Traffic Cover)* Add |
|--------------------------|---------|---------------|------------|---------------------------------|
| OI-10 | 8143676 | 10 | \$9,052.00 | \$9,612.00 |
| OI-15 | 8143678 | 15 | 12,414.00 | 10,340.00 |
| OI-20 | 8143680 | 20 | 13,162.00 | 10,946.00 |
| OI-25 | 8143681 | 25 | 16,294.00 | 11,557.00 |
| OI-35 | 8141999 | 35 | 19,810.00 | 12,776.00 |
| OI-50 | 8143684 | 50 | 29,511.00 | 13,382.00 |

OI Series



OI Series Dimensional Data

| Interceptor Model Number | Flow Rate GPM | A | C | D Length | E Width | F Height | G | H | J | K |
|--------------------------|---------------|----|----|----------|---------|----------|--------|---------|----|----|
| OI-10 | 10 | 3" | 4" | 22-1/4" | 16-3/4" | 11-1/2" | 3-1/2" | 11-1/2" | 5" | 4" |
| OI-15 | 15 | 3" | 4" | 22-1/4" | 16-3/4" | 14-1/2" | 5-1/2" | 11-1/2" | 5" | 4" |
| OI-20 | 20 | 3" | 4" | 27-1/4" | 19-1/4" | 16-1/2" | 6-1/2" | 14-1/4" | 6" | 5" |
| OI-25 | 25 | 3" | 4" | 27-1/4" | 19-1/4" | 18-1/4" | 9-1/2" | 14-1/4" | 6" | 5" |
| OI-35 | 35 | 4" | 4" | 33-3/4" | 20-3/4" | 18" | 9-1/2" | 18-1/2" | 7" | 6" |
| OI-50 | 50 | 4" | 4" | 33-3/4" | 20-3/4" | 21-1/2" | 13" | 18-1/2" | 7" | 6" |

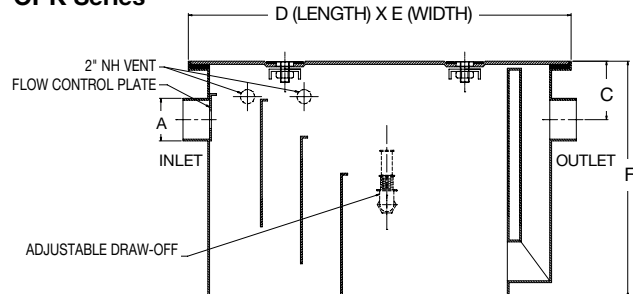
Options for OI Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|----------------------------------|------------|--------|---|------------|
| B | Sediment Bucket | \$3,403.00 | -O | Inlet & Outlet Other Than Standard Size | \$1,135.00 |
| E | Extension Up to 12" | 7,373.00 | -SS | All Stainless Steel | P.O.A. |
| | Extension Over 12", add per inch | 521.00 | -THD | Threaded Connections | No Add |
| -FC | Flange & Clamp Device | 2,602.00 | | | |

OI-K Series Dimensional Data

| Interceptor Model Number | EDP# | Flow Rate GPM | List Price | -HD 10,000 (Traffic Cover)* Add |
|--------------------------|---------|---------------|-------------|---------------------------------|
| OI-75-K | 8143685 | 75 | \$46,142.00 | \$14,126.00 |
| OI-100-K | 8143677 | 100 | 61,908.00 | 19,438.00 |
| OI-150-K | 8185201 | 150 | 72,519.00 | 24,965.00 |
| OI-200-K | 8185203 | 200 | 87,519.00 | 28,470.00 |
| OI-250-K | 8185180 | 250 | 101,358.00 | 39,296.00 |
| OI-300-K | 8186165 | 300 | 114,765.00 | 50,446.00 |
| OI-400-K | 8186735 | 400 | 151,759.00 | 68,505.00 |
| OI-500-K | 8186543 | 500 | 191,418.00 | 83,697.00 |

OI-K Series



| Interceptor Model Number | Flow Rate GPM | A | C | D Length | E Width | F Height | G | H | J | K |
|--------------------------|---------------|----|--------|----------|---------|----------|--------------|---------|-----|-----|
| OI-75-K | 75 | 4" | 4-1/2" | 39-3/4" | 30-3/4" | 23" | 9 1/2"(241) | 21-3/4" | 8" | 7" |
| OI-100-K | 100 | 4" | 4-1/2" | 39-3/4" | 30-3/4" | 33" | 19 1/2"(495) | 21-3/4" | 8" | 7" |
| OI-150-K | 150 | 4" | 4-1/2" | 39-3/4" | 30-3/4" | 43" | 29 1/2"(749) | 21-3/4" | 8" | 7" |
| OI-200-K | 200 | 4" | 6-1/2" | 52" | 34" | 43" | 18 1/2"(470) | 41" | 8" | 7" |
| OI-250-K | 250 | 4" | 6-1/2" | 52" | 34" | 46" | 30 1/2"(775) | 45" | 8" | 7" |
| OI-300-K | 300 | 6" | 10" | 76" | 48" | 48" | 28"(711) | 48" | 12" | 10" |
| OI-400-K | 400 | 6" | 10" | 83" | 55" | 52" | 32"(813) | 52" | 12" | 10" |
| OI-500-K | 500 | 6" | 10" | 91" | 60" | 63" | 43"(1092) | 63" | 12" | 10" |

*-HD Option Requires Minimum 3" Extension

Options for OI-K Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|----------------------------------|------------|--------|---|------------|
| B | Sediment Bucket | \$6,183.00 | -O | Inlet & Outlet Other Than Standard Size | \$1,135.00 |
| E | Extension Up to 12" | 9,830.00 | -SS | All Stainless Steel | P.O.A. |
| | Extension Over 12", add per inch | 841.00 | -THD | Threaded Connections | No Add |
| FC | Flange & Clamp Device | 7,866.00 | | | |

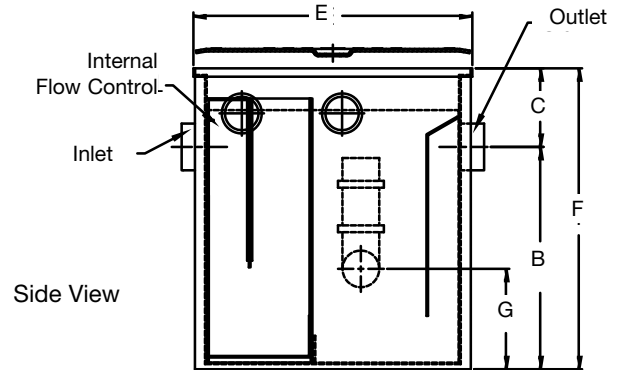
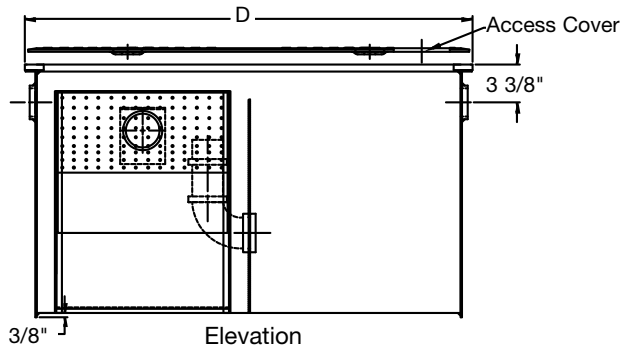
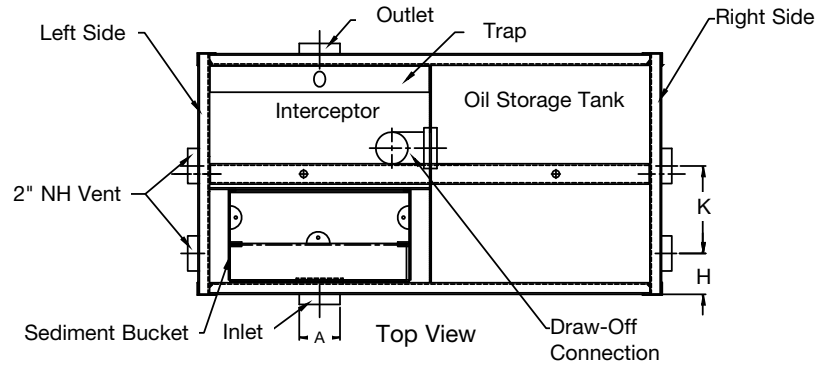


Consult factory for all pricing and applications outside of listed parameters.
Prices do not include applicable taxes.

Oil Interceptors

OI-ST Series

Oil Interceptor w/Integral Storage Tank



| Inter-ceptor Model Number | EDP# | 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 | \$13,561.00 | \$14,597.00 | 10 | 15 | 2" | 8-1/2" | 6" | 24" | 18" | 14-1/2" | 3" | 4-1/2" | 5-1/2" | 6" |
| OI-15-ST | 8189085 | 18,613.00 | 15,505.00 | 15 | 22 | 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 | 22,498.00 | 16,420.00 | 20 | 32 | 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 | 24,428.00 | 16,486.00 | 25 | 35 | 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 | 29,680.00 | 18,244.00 | 35 | 65 | 4" | 14-1/2" | 6" | 49-3/4" | 32-7/8" | 20-1/2" | 6" | 12" | 6" | 13" |
| OI-50-ST | 8188581 | 30,126.00 | 19,173.00 | 50 | 78 | 4" | 18-1/2" | 6" | 49-3/4" | 32-7/8" | 24-1/2" | 8" | 12" | 6" | 13" |
| OI-75-ST | 8188538 | 69,213.00 | 20,158.00 | 75 | 214 | 4" | 26-1/2" | 6" | 49-3/4" | 40-7/8" | 32-1/2" | 16" | 12" | 12" | 13" |
| OI-100-ST | 8188967 | 75,081.00 | 27,784.00 | 100 | 303 | 4" | 26-1/2" | 9-1/2" | 90" | 58" | 36" | 20-1/2" | 15" | 20-1/2" | 22-1/2" |
| OI-150-ST | 8189060 | 92,910.00 | 35,670.00 | 150 | 358 | 4" | 30" | 14" | 76" | 66" | 44" | 24" | 17" | 24" | 19" |
| OI-200-ST | 8188535 | 131,243.00 | 40,738.00 | 200 | 453 | 4" | 30-1/2" | 17-1/2" | 90" | 73-1/4" | 48" | 24-1/2" | 18" | 25" | 22-1/2" |
| OI-250-ST | 8188916 | 152,033.00 | 56,103.00 | 250 | 590 | 4" | 35-1/2" | 15-1/2" | 90" | 73-1/4" | 51" | 29-1/2" | 18" | 25" | 22-1/2" |
| OI-300-ST | 8188812 | 172,259.00 | 72,064.00 | 300 | 816 | 6" | 36-1/2" | 15-1/2" | 86" | 94-7/8" | 52" | 29-1/2" | 23-1/2" | 33" | 21-1/2" |
| OI-350-ST | - | 201,850.00 | 83,010.00 | 350 | 1068 | 6" | 43-1/2" | 16-1/2" | 94" | 100-7/8" | 60" | 36-1/2" | 24" | 35" | 23-1/2" |
| OI-400-ST | 8189086 | 236,468.00 | 100,048.00 | 400 | 1111 | 6" | 43" | 17" | 91" | 107-7/8" | 60" | 36" | 26" | 38" | 22-3/4" |
| OI-500-ST | 8189024 | 254,658.00 | 119,103.00 | 500 | 1242 | 6" | 46" | 20" | 83" | 118-7/8" | 66" | 39" | 30" | 42" | 20-3/4" |

*-HD Option Requires Minimum 3" Extension

Options for OI-ST Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|----------------------------------|-------------|--------|---|------------|
| E | Extension Up to 12" | \$12,233.00 | -O | Inlet & Outlet Other Than Standard Size | \$1,135.00 |
| E | Extension over 12", add per inch | 841.00 | -SS | All Stainless Steel | P.O.A. |
| FC | Flange & Clamp Device | 7,866.00 | -THD | Threaded Connections | No Add |

Consult factory for all pricing and applications outside of listed parameters.

Prices do not include applicable taxes.

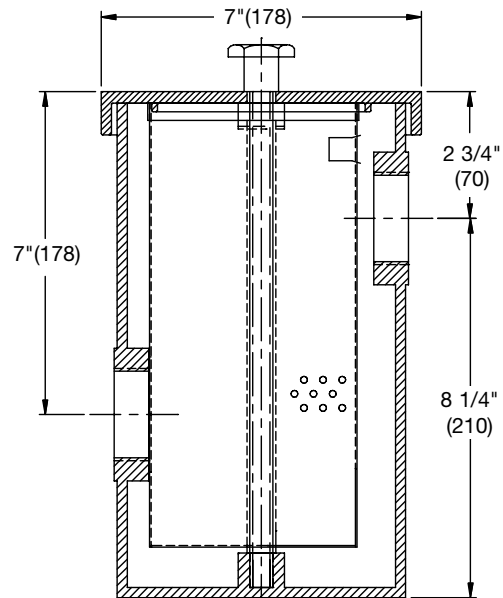


Hair, Sediment & Solids Interceptors

SI-742

Hair, Plaster, & Sediment Interceptor

| Model Number | EDP# | Description | List Price |
|--------------|---------|-----------------|------------|
| SI-742 | 8135382 | cast aluminum | \$2,299.00 |
| SI-742-SS | 8145690 | stainless steel | 11,536.00 |



Options for SI-742 Series:

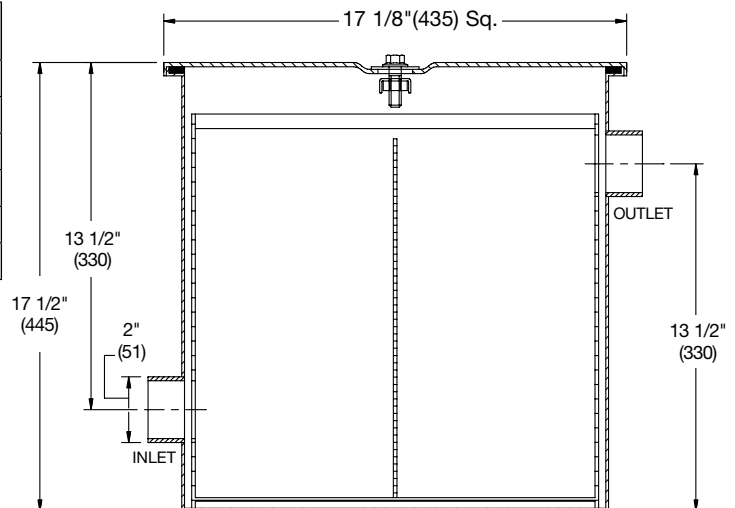
| Suffix | Description | List Price |
|--------|---------------------------------|------------|
| -X | Cover for Recessed Installation | \$887.00 |



SI-740-L

Large Capacity Sediment Interceptor

| Model Number | EDP# | Outlet | Description | List Price |
|--------------|---------|--------|--------------------|------------|
| SI-742-L | 8187634 | 2" | Epoxy Coated Steel | \$8,029.00 |
| SI-743-L | 8145692 | 3" | Epoxy Coated Steel | 9,163.00 |
| SI-744-L | 8185845 | 4" | Epoxy Coated Steel | 9,163.00 |
| SI-742-L-SS | 8151783 | 2" | Stainless Steel | 14,720.00 |
| SI-743-L-SS | 8185458 | 3" | Stainless Steel | 15,850.00 |
| SI-744-L-SS | 8190282 | 4" | Stainless Steel | 15,850.00 |



Options for SI-740-L:

| Suffix | Description | List Price |
|--------|----------------------|------------|
| -E | Extension Up To 12" | \$7,373.00 |
| | Each Additional Inch | 521.00 |



Hair, Sediment & Solids Interceptors

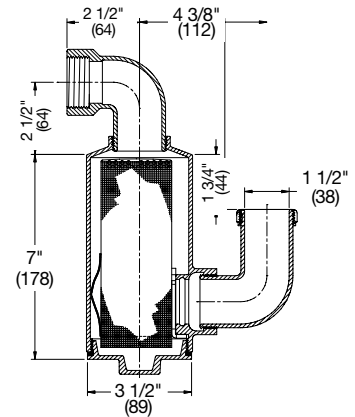
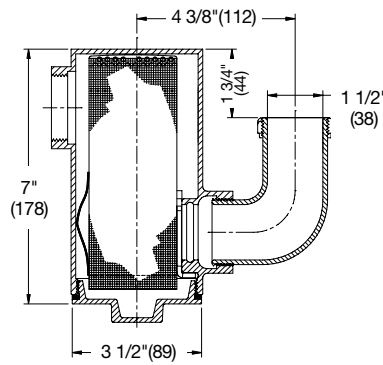
SI-750 & SI-750-TO Hair Interceptor

| Model Number | EDP# | Description | List Price |
|--------------|---------|---------------------------|------------|
| SI-750 | 8135385 | Cast Iron, Side Outlet | \$1,531.00 |
| SI-750-TO | 8145708 | Chrome Plated, Top Outlet | 5,588.00 |



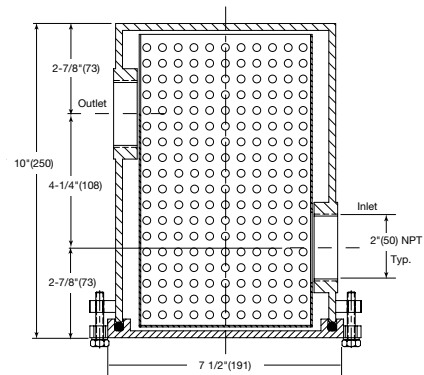
Cast Iron

Chrome Plated



SI-762 Bottom Access Hair, Plaster, & Sediment Interceptor

| Model Number | EDP# | Description | Weight Lbs. | List Price |
|--------------|---------|--------------------|-------------|------------|
| SI-762 | 8186577 | Epoxy Coated Steel | 22 | \$2,299.00 |

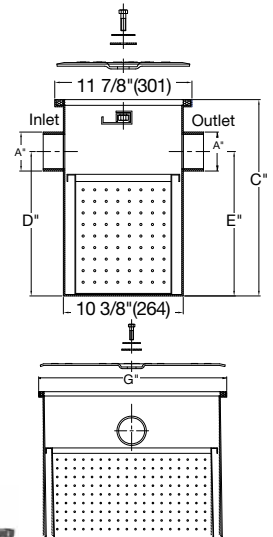


SI-770 Solids Interceptor

| Interceptor Model Number | EDP# | List Price | Inlet/Outlet Size | Flow Rate GPM | Solids Cap. Cubic Ft. | C | D/E | G | Wt. Lbs. |
|--------------------------|---------|------------|-------------------|---------------|-----------------------|---------|---------|---------|----------|
| SI-770-100 | 8188175 | \$4,528.00 | 2 | 4 | 0.20 | 10" | 7-1/4" | 11-3/4" | 13.87 |
| SI-770-200 | 8188611 | 4,606.00 | 2 | 7 | 0.29 | 11-1/8" | 8-1/8" | 13-3/4" | 16.75 |
| SI-770-300 | 8188329 | 4,770.00 | 2 | 10 | 0.33 | 11-3/4" | 8-1/4" | 15-7/8" | 18.98 |
| SI-770-400 | 8157664 | 5,105.00 | 3 | 15 | 0.38 | 13-3/8" | 9-3/8" | 18-5/8" | 23.89 |
| SI-770-500 | 8188612 | 5,405.00 | 3 | 20 | 0.66 | 15" | 11-3/4" | 19-1/8" | 26.34 |
| SI-770-600 | 8188613 | 5,834.00 | 3 | 25 | 0.79 | 17" | 12-1/2" | 21-3/4" | 32.19 |
| SI-770-700 | 8188614 | 6,189.00 | 3 | 35 | 1.17 | 18-3/4" | 14-1/4" | 24-3/8" | 36.59 |
| SI-770-800 | 8188350 | 6,636.00 | 4 | 50 | 1.35 | 21-1/8" | 16" | 24-3/8" | 39.89 |
| SI-770-900 | 8188658 | 7,173.00 | 4 | 75 | 1.61 | 22-3/4" | 18-1/2" | 24-3/8" | 39.00 |
| SI-770-1000 | 8188659 | 22,218.00 | 4 | 100 | 1.80 | 27" | 23" | 24-3/8" | 42.00 |

Options for SI-770

| Suffix | Description | List Price |
|--------|---|------------|
| -E | Extension Up to 12" | \$7,373.00 |
| -O | Extension Over 12", add per inch | 521.00 |
| -SS | Inlet & Outlet Other Than Standard Size | 1,135.00 |
| -THD | All Stainless Steel | P.O.A. |
| | Threaded Connections | No Add |



Consult factory for all pricing and applications outside of listed parameters.

Prices do not include applicable taxes.

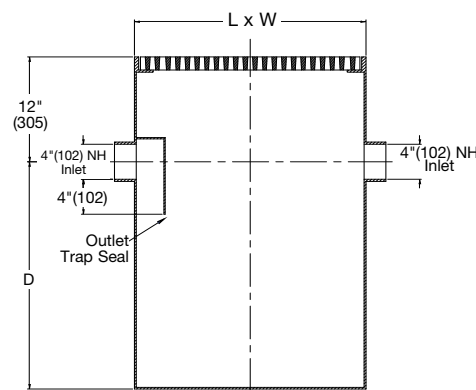
WATTS®

Lint & Sand Interceptors

ST Series

Sand Trap

| Interceptor Model Number | EDP# | List Price | Flow Rate | Inlet & Outlet | L Length | W Width | D | Capacity Gal. | No. of Grates |
|--------------------------|---------|-------------|-----------|----------------|----------|---------|-----|---------------|---------------|
| ST-20 | 8188646 | \$22,313.00 | 20 | 4" | 24" | 24" | 26" | 60 | 1 |
| ST-50 | 8188674 | 37,847.00 | 50 | 4" | 48" | 24" | 26" | 120 | 2 |
| ST-150 | 8189182 | 114,356.00 | 150 | 4" | 48" | 48" | 38" | 360 | 4 |
| ST-250 | 8189183 | 119,008.00 | 250 | 6" | 72" | 48" | 39" | 540 | 6 |
| ST-500 | 8189184 | 146,422.00 | 500 | 6" | 120" | 48" | 51" | 1200 | 10 |



Options for ST Series:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|-----------------------------|-------------|--------|----------------------|------------|
| -E | Extension Up to 12" | \$11,698.00 | -THD | Threaded Connections | No Add |
| | Each Additional Inch | 841.00 | -Q | Special (Describe) | P.O.A. |
| -O | Inlet & Outlet Non-Standard | 1,135.00 | | | |
| -ST | Solid Checker Plate Cover | 2,734.00 | | | |

LI-800

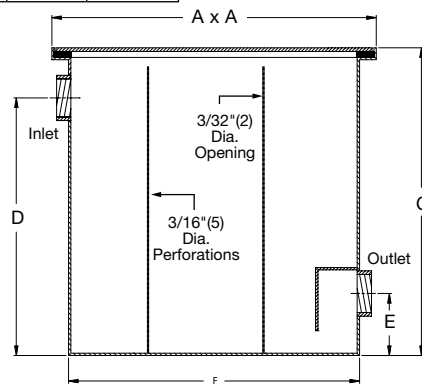
Lint Interceptor

| Model Number | EDP# | List Price | Size/No. of Machines | Inlet / Outlet Size | Flow Rate GPM | Approx. Weight/ Lbs. | A | C | D | E | F |
|--------------|---------|-------------|----------------------|---------------------|---------------|----------------------|-----|---------|---------|--------|---------|
| LI-803 | 8185896 | \$17,852.00 | 3 | 2" | 30 | 93 | 17" | 16-1/2" | 13-1/2" | 3-1/4" | 15-1/4" |
| LI-807 | 8145748 | 20,773.00 | 7 | 3" | 70 | 155 | 25" | 20" | 16-1/2" | 3-1/4" | 23-1/4" |
| LI-810 | 8145747 | 24,438.00 | 10 | 4" | 100 | 271 | 33" | 28" | 20-1/8" | 4" | 31-1/4" |
| LI-820 | 8150855 | 29,673.00 | 20 | 4" | 200 | 404 | 40" | 35" | 27-1/8" | 4" | 38-1/4" |
| LI-830 | 8145749 | 34,371.00 | 30 | 6" | 300 | 654 | 45" | 40" | 28-1/8" | 5" | 43-1/4" |
| LI-840 | 8185181 | 39,198.00 | 40 | 6" | 400 | 723 | 48" | 43" | 31-1/8" | 5" | 46-1/4" |
| LI-850 | 8185210 | 44,001.00 | 50 | 6" | 500 | 911 | 52" | 47" | 35-1/8" | 5" | 50-1/4" |



Options for LI-800

| Suffix | Description | List Price |
|--------|------------------------------------|------------|
| -E | Extension Up to 12" | \$4,191.00 |
| | Each Additional Inch | 521.00 |
| -HD | 10,000 Traffic Cover* | P.O.A. |
| -O | Inlet & Outlet other than Standard | 1,135.00 |
| -SS | All Stainless Steel | P.O.A. |



Consult factory for all pricing and applications outside of listed parameters.
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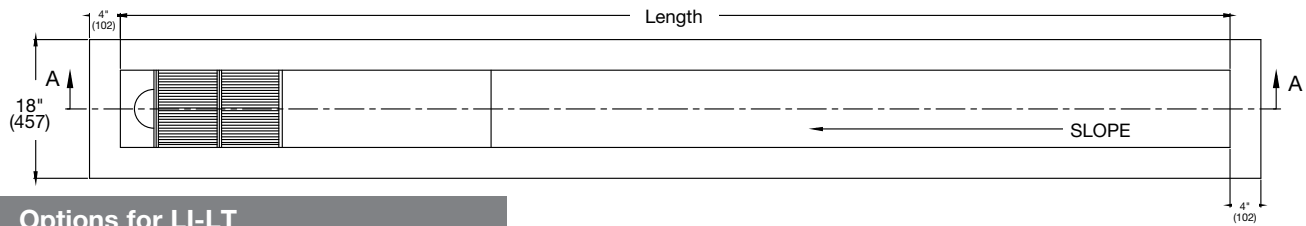
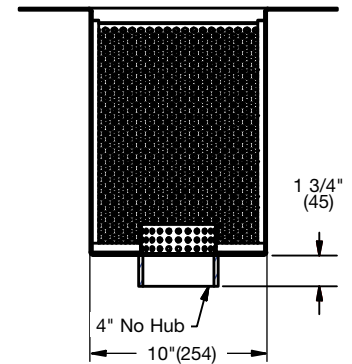
Lint & Sand Interceptors

LI-LT Series

Stainless Steel Lint Trough

| Model Number | EDP # | Length | List Price |
|--------------|---------|--------|-------------|
| LI-12-LT | 8189161 | 12' | \$50,198.00 |
| LI-8-LT | 8189776 | 8' | 40,628.00 |
| LI-4-LT | 8189401 | 4' | 31,057.00 |

Note: Custom lengths available at \$5,836.00 per foot.
(Call for Availability)



Options for LI-LT

| Suffix | Description | List Price |
|--------|----------------|-------------|
| -4 | 4' Base Option | \$31,057.00 |

SA-Series

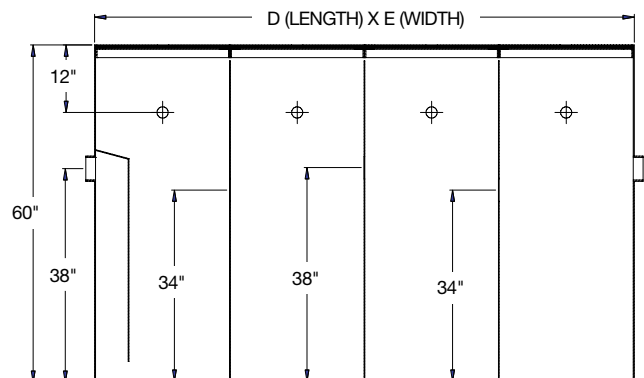
Heavy Duty Sand & Sediment Interceptor

| Model Number | EDP# | 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" | \$66,311.00 | \$12,670.00 |
| SA-410 | 8187188 | 400 | 1750 | 54 | 72" | 36" | 60" | 102,122.00 | 16,654.00 |
| SA-510 | 8154227 | 500 | 2100 | 72 | 96" | 36" | 60" | 143,281.00 | 24,255.00 |
| SA-610 | 8153021 | 600 | 2500 | 81 | 108" | 36" | 60" | 146,631.00 | 27,400.00 |
| SA-710 | 8187789 | 700 | 2700 | 90 | 120" | 36" | 60" | 152,742.00 | 30,219.00 |
| SA-810 | 8190286 | 800 | 3000 | 108 | 144" | 36" | 60" | 157,403.00 | 31,321.00 |
| SA-1010 | - | 1000 | 3640 | 135 | 180" | 36" | 60" | 187,362.00 | 33,508.00 |

*-HD Option Requires Minimum 4" Extension

Options for SA-Series

| Suffix | Description | List Price |
|--------|------------------------------------|-------------|
| -E | Extension Up to 12" | \$12,233.00 |
| | Each Additional Inch | 841.00 |
| -FC | Flange & Clamp Device | 7,866.00 |
| -O | Inlet & Outlet other than Standard | 1,135.00 |



Consult factory for all pricing and applications outside of listed parameters.

Prices do not include applicable taxes.



Cleanouts

Table Of Contents

- Pictorial Index
- Product Recommendations
- Cleanout Selection Factors
 - Materials
 - Pipe Connections
 - Load Ratings
 - Design Considerations
 - Commonly Specified Options
 - Typical Installations



Cleanouts

Pictorial Index



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-200-H
Elastomeric Flange



CO-200-R
Round NB Top



CO-200-RC
Carpet Marker



CO-200-RFC7
Surface Membrane Clamp



CO-200-RX
HD Round NB Top



CO-200-RX-4
HD Round DI Top



CO-200-S
Square NB Top



CO-200-SX
HD Square NB Top



CO-200-SX-4
HD Square DI Top



CO-200-T
Round w/Tile Recess



CO-200-TS
Square w/Tile Recess



CO-200-U
Round w/Terrazzo Recess



CO-200-US
Square w/Terrazzo Recess



CO-260
8" dia. HD Top

Consult factory for all pricing and applications outside of listed parameters.
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Cleanouts

Pictorial Index



CO-270
7" Dia.
Non-Adjustable Top



CO-300-MF
HD Access Housing



CO-300-R
Round Access Cover



CO-300-S
Square Access Cover



CO-380
Cleanout Ferrule



CO-380-RD
Wall Cleanout Ferrule with
Stainless Steel Cover



CO-390-E
General Purpose



CO-410
Floor Access Housing



CO-440-RD
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



Consult factory for all pricing and applications outside of listed parameters.
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Cleanouts

Pictorial Index



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



CO-1200-S
HD Square SS Top



CO-1200-SX
XHD Square SS Top

Recommendations

| Application | Product |
|----------------------------------|--|
| Basement areas | CO-200-RX-4, CO-390-E |
| Clinical & surgical areas | CO-1200-R-28, CO-1200-S-28 |
| Floor access covers | CO-300-R, CO-300-S, CO-410 |
| Food preparation areas | CO-1200-R, CO-1200-S |
| Garage and service bays | CO-260, CO-270 |
| Industrial and warehouse areas | CO-200-RX, CO-200-RX-4, CO-200-SX, CO-200-SX-4 |
| Interior carpeted areas | CO-200-RC, CO-200-CF |
| Interior finished areas | CO-200-R, CO-200-S |
| Maintenance & boiler rooms | CO-200-RX-4, CO-380 |
| Outdoor parking areas | CO-300-MF |
| Outdoor walkways | CO-200-RX, CO-200-SX |
| Rubberized poured flooring | CO-200-H |
| Rubberized sheet flooring | CO-200-RFC7 |
| Sanitary manufacturing areas | CO-1200-RX-28, CO-1200-SX-28 |
| Stack bases | CO-460, CO-460-RD |
| Stairwells | CO-200-RX-4, CO-390-E |
| Terrazzo floors (recessed cover) | CO-200-U, CO-200-US |
| Tile floors (recessed cover) | CO-200-T, CO-200-TS |
| Wall access covers | CO-480-RD |
| Wall stubouts | CO-440-RD, CO-450-RD, CO-590-RD |

Consult factory for all pricing and applications outside of listed parameters.

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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 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 (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

-13 Galvanized

-C Membrane Clamp

-CF Carpet Clamping Flange

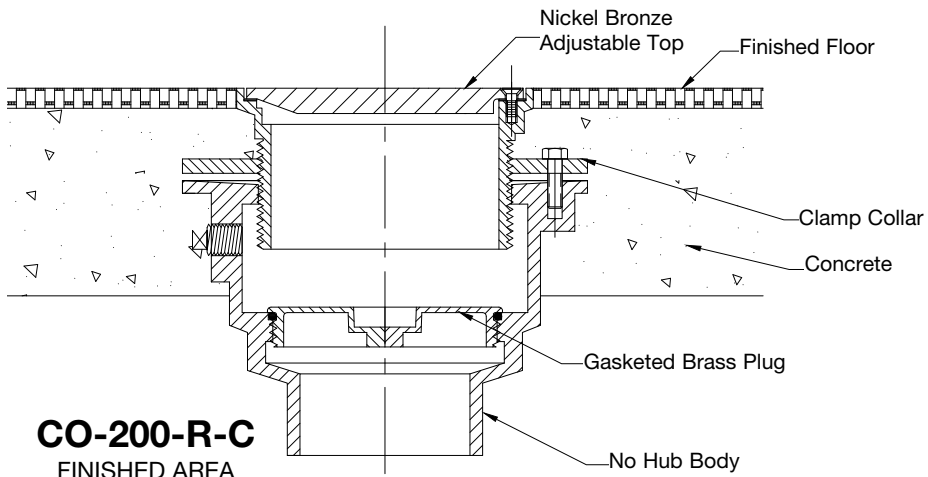
-US Buy American Compliant



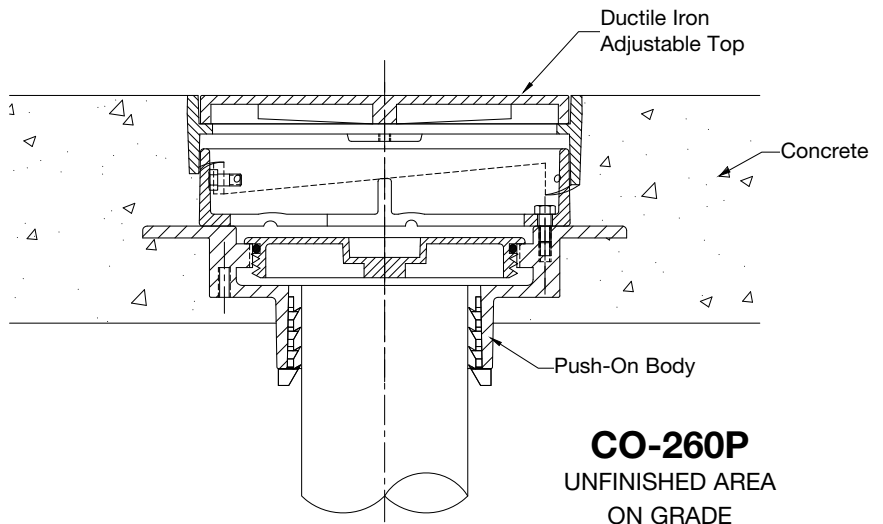
Consult factory for all pricing and applications outside of listed parameters.
Prices do not include applicable taxes.

Cleanouts

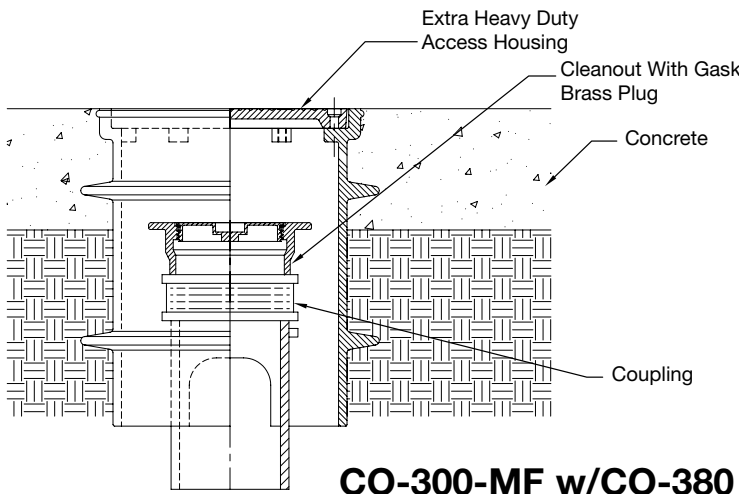
Typical Installations



CO-200-R-C
FINISHED AREA
ABOVE GRADE



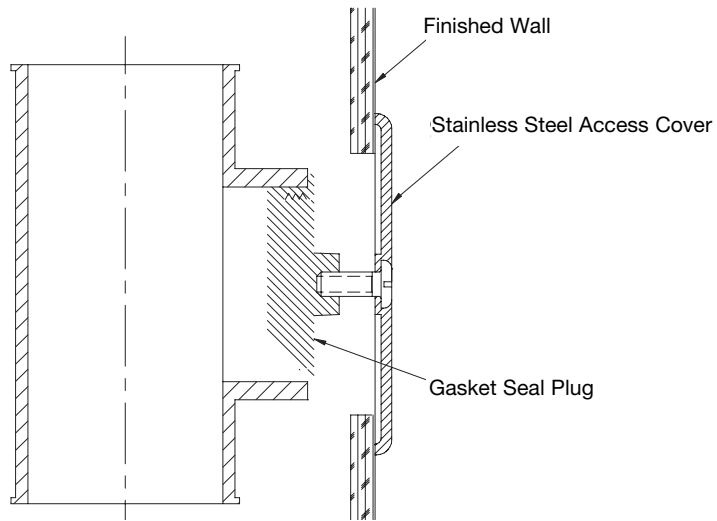
CO-260P
UNFINISHED AREA
ON GRADE



CO-300-MF w/CO-380
EXTERIOR YARD AREA

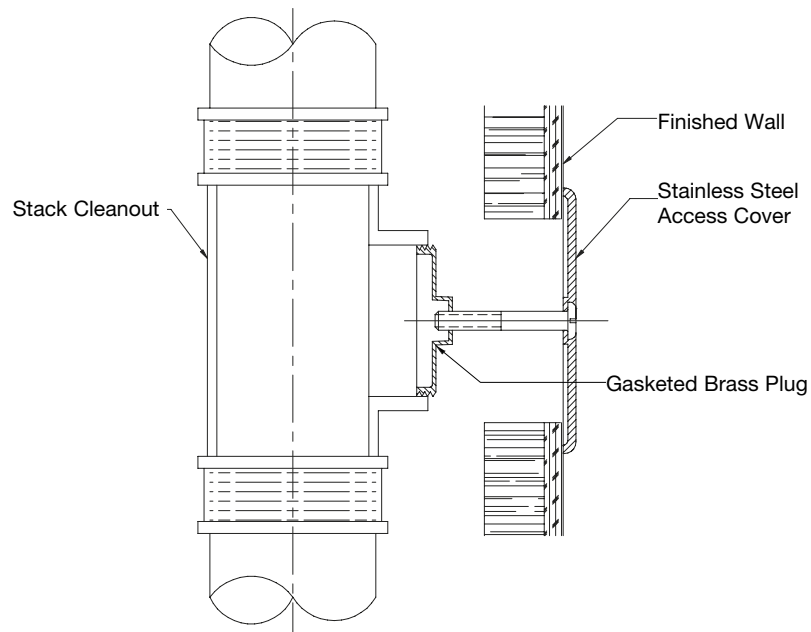
Cleanouts

Typical Installations



CO-440-RD

WALL STUB-OUT



CO-460-RD

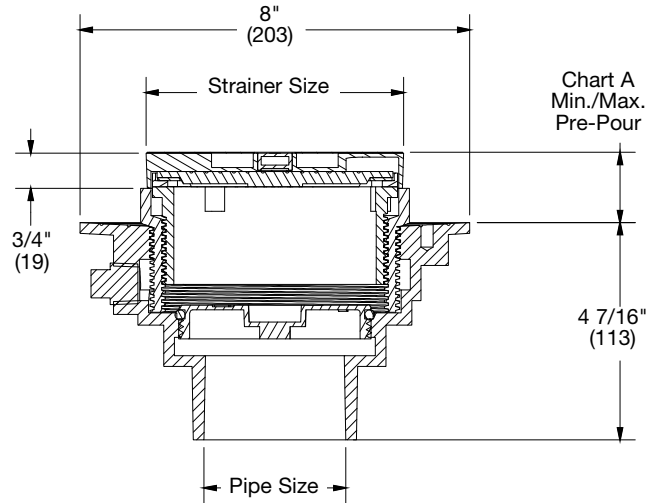
VERTICAL STACK

Adjustable Floor Cleanouts

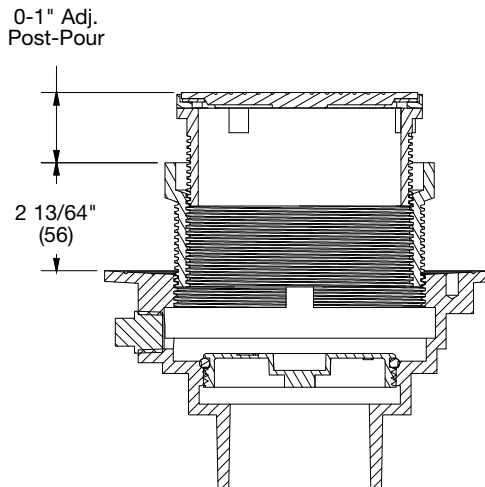
CO-190-PR

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 | \$1,723.00 |
| CO-192-PR6 | 16 | 2"(51) | 6"(152) | nickel bronze | 1,771.00 |
| CO-193-PR5 | 14 | 3"(76) | 5"(127) | nickel bronze | 1,771.00 |
| CO-193-PR6 | 16 | 3"(76) | 6"(152) | nickel bronze | 1,860.00 |
| CO-194-PR5 | 14 | 4"(102) | 5"(127) | nickel bronze | 1,959.00 |
| CO-194-PR6 | 16 | 4"(102) | 6"(152) | nickel bronze | 2,049.00 |
| CO-192P-PR5 | 13 | 2"(51) | 5"(127) | nickel bronze | 1,723.00 |
| CO-192P-PR6 | 15 | 2"(51) | 6"(152) | nickel bronze | 1,771.00 |
| CO-193P-PR5 | 13 | 3"(76) | 5"(127) | nickel bronze | 1,771.00 |
| CO-193P-PR6 | 15 | 3"(76) | 6"(152) | nickel bronze | 1,860.00 |
| CO-194P-PR5 | 13 | 4"(102) | 5"(127) | nickel bronze | 1,959.00 |
| CO-194P-PR6 | 15 | 4"(102) | 6"(152) | nickel bronze | 2,049.00 |



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:

| Suffix | Description | List Price |
|--------|-------------------|------------|
| -C | SS Membrane Clamp | \$389.50 |

Consult factory for all pricing and applications outside of listed parameters.

Prices do not include applicable taxes.

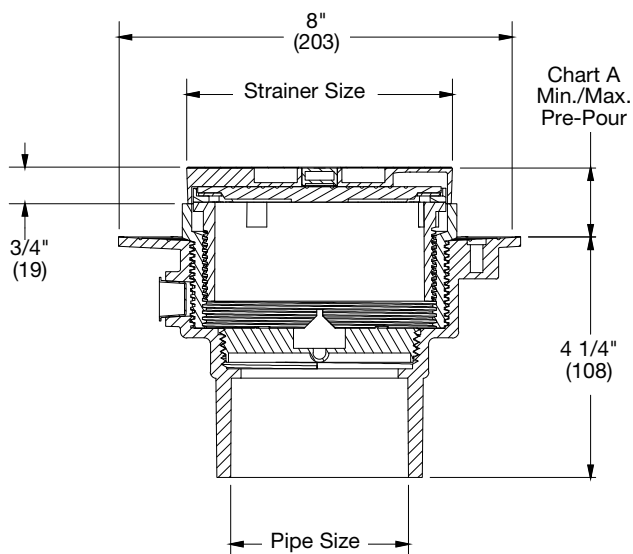


Adjustable Floor Cleanouts

CO-190-PR-60

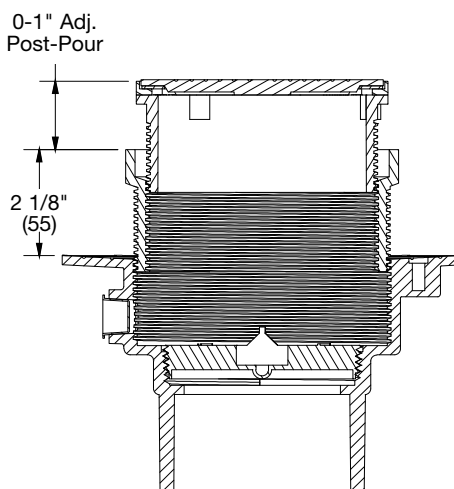
Pronto!® PVC Floor Cleanout with Integrated Level

| Model Number | Wt., Lbs. | Pipe Size | Cover Size | Cover | List Price |
|----------------|-----------|-----------|------------|---------------|------------|
| CO-192-PR5-60 | 5 | 2"(51) | 5"(127) | nickel bronze | \$1,165.00 |
| CO-192-PR6-60 | 6 | 2"(51) | 6"(152) | nickel bronze | 1,210.00 |
| CO-193-PR5-60 | 5 | 3"(76) | 5"(127) | nickel bronze | 1,210.00 |
| CO-193-PR6-60 | 6 | 3"(76) | 6"(152) | nickel bronze | 1,303.00 |
| CO-194-PR5-60 | 5 | 4"(102) | 5"(127) | nickel bronze | 1,395.00 |
| CO-194-PR6-60 | 6 | 4"(102) | 6"(152) | nickel bronze | 1,491.00 |
| CO-192N-PR5-60 | 4 | 2"(51) | 5"(127) | nickel bronze | 1,165.00 |
| CO-192N-PR6-60 | 5 | 2"(51) | 6"(152) | nickel bronze | 1,209.00 |
| CO-193N-PR5-60 | 4 | 3"(76) | 5"(127) | nickel bronze | 1,209.00 |
| CO-193N-PR6-60 | 5 | 3"(76) | 6"(152) | nickel bronze | 1,303.00 |
| CO-194N-PR5-60 | 4 | 4"(102) | 5"(127) | nickel bronze | 1,395.00 |
| CO-194N-PR6-60 | 5 | 4"(102) | 6"(152) | nickel bronze | 1,491.00 |



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-60:

| Suffix | Description | List Price |
|--------|-------------------|------------|
| -C | SS Membrane Clamp | \$389.50 |



Consult factory for all pricing and applications outside of listed parameters.
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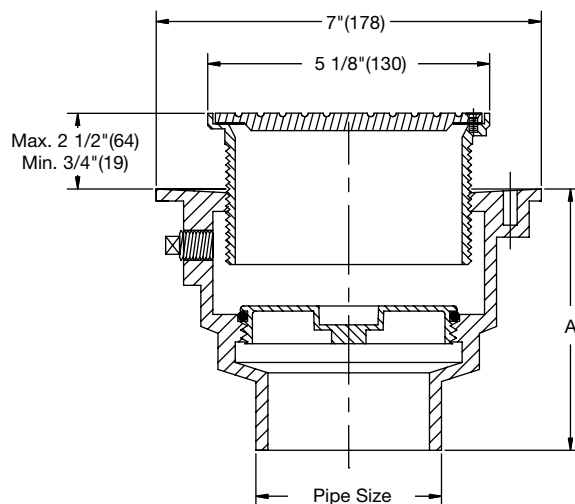
Adjustable Floor Cleanouts

CO-200-R

Floor Cleanout with Round Top



| Model Number | Wt., Lbs. | Pipe Size | Cover | List Price |
|--------------|-----------|-----------|---------------|------------|
| CO-202-R | 11 | 2" | nickel bronze | \$1,165.00 |
| CO-203-R | 11 | 3" | nickel bronze | 1,231.00 |
| CO-204-R | 11 | 4" | nickel bronze | 1,642.00 |



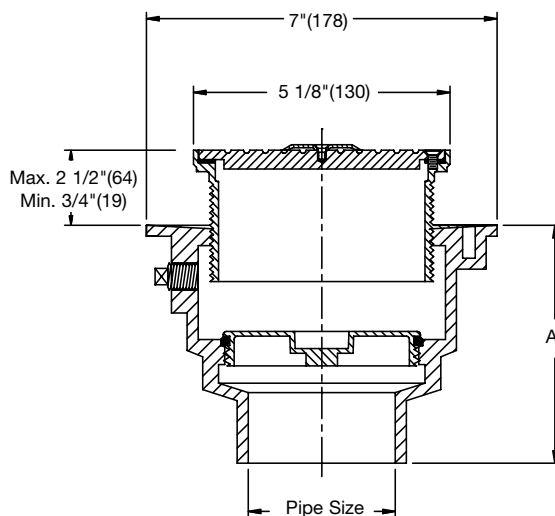
| Chart A | | | |
|-----------|--------|---------|---------|
| Pipe Size | NH | Push-On | PVC/ABS |
| 2" | 4-3/4" | 5-1/2" | 4" |
| 3" | 4-3/4" | 5-1/2" | 4" |
| 4" | 4-3/4" | 5-1/2" | 4" |

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 | \$1,307.00 |
| CO-203-RC | 11 | 3" | nickel bronze | 1,375.00 |
| CO-204-RC | 11 | 4" | nickel bronze | 1,786.00 |



| 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" |

Options for CO-200:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|------------------------|------------|--------|----------------------|------------|
| None | No Hub Outlet | No Add | -6 | Vandal Proof | \$181.00 |
| P | Push-On Outlet | No Add | -13 | Galvanized Body | 409.50 |
| -X | Inside Caulk | No Add | -60 | PVC Body w/Poly Plug | No Add |
| -C | Membrane Clamp | \$201.50 | -61 | ABS Body w/Poly Plug | No Add |
| -CF | Carpet Clamping Flange | 531.50 | | | |

Consult factory for all pricing and applications outside of listed parameters.

Prices do not include applicable taxes.



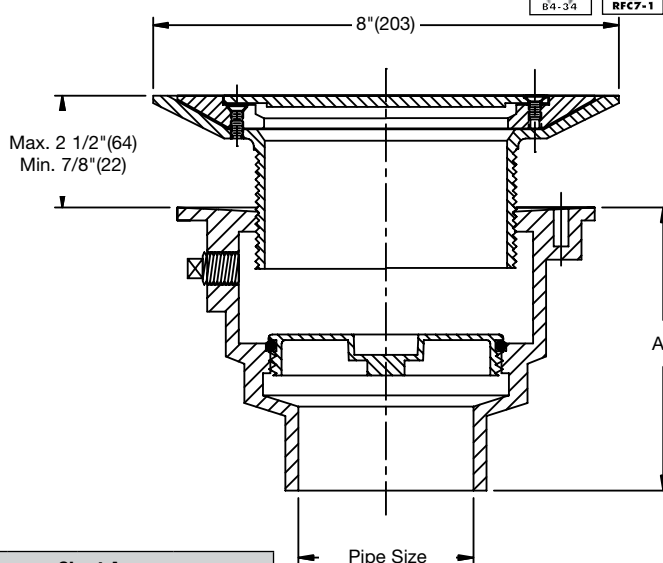
Adjustable Floor Cleanouts

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 | \$3,135.00 |
| CO-203-RFC7 | 13 | 3" | nickel bronze | 3,202.00 |
| CO-204-RFC7 | 13 | 4" | nickel bronze | 3,616.00 |



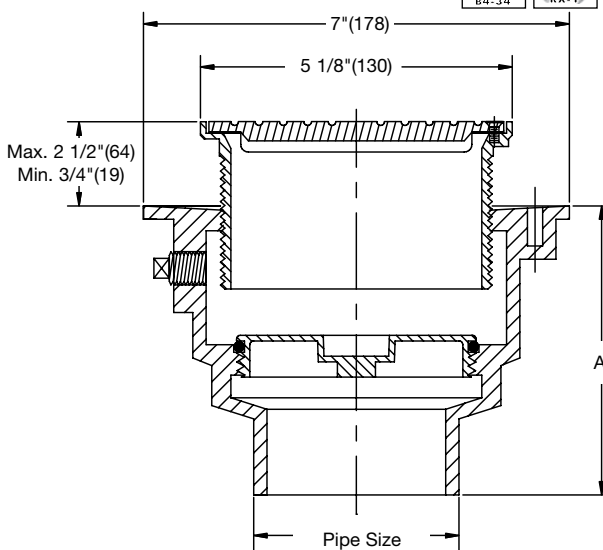
| Chart A | | | |
|-----------|--------|---------|---------|
| Pipe Size | NH | Push-On | PVC/ABS |
| 2" | 4-3/4" | 5-1/2" | 4" |
| 3" | 4-3/4" | 5-1/2" | 4" |
| 4" | 4-3/4" | 5-1/2" | 4" |

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 | \$1,448.00 |
| CO-203-RX | 12 | 3" | nickel bronze | 1,521.00 |
| CO-204-RX | 12 | 4" | nickel bronze | 1,929.00 |



| 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" |

Options for CO-200-RFC7/RX:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|----------------|------------|--------|----------------------|------------|
| None | No Hub Outlet | No Add | -6 | Vandal Proof | \$199.00 |
| P | Push-On Outlet | No Add | -13 | Galvanized Body | 409.50 |
| -X | Inside Caulk | No Add | -60 | PVC Body w/Poly Plug | No Add |
| -C | Membrane Clamp | \$220.00 | -61 | ABS Body w/Poly Plug | No Add |



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

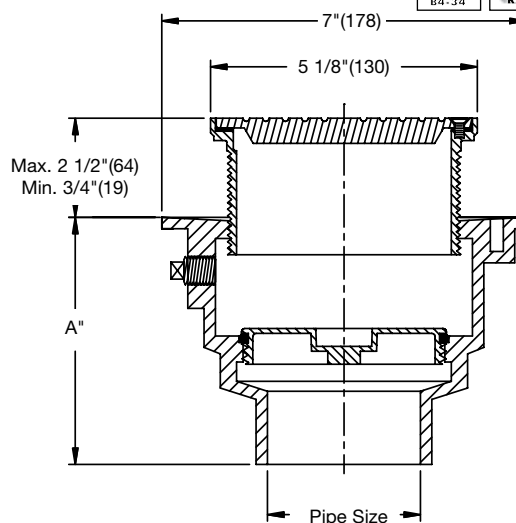
Adjustable Floor Cleanouts

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" | ductile iron | \$785.00 |
| CO-203-RX-4 | 12 | 3" | ductile iron | 908.50 |
| CO-204-RX-4 | 12 | 4" | ductile iron | 1,111.00 |



Options for CO-200-RX-4:

| Suffix | Description | List Price |
|--------|----------------|------------|
| -13 | All Galvanized | \$455.00 |

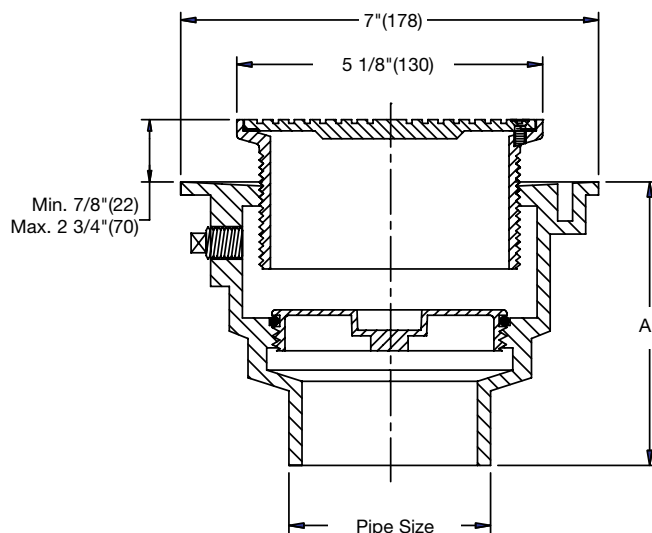
| Chart A | | | |
|-----------|--------|---------|---------|
| Pipe Size | NH | Push-On | PVC/ABS |
| 2" | 4-3/4" | 5-1/2" | 4" |
| 3" | 4-3/4" | 5-1/2" | 4" |
| 4" | 4-3/4" | 5-1/2" | 4" |

CO-200-S

Floor Cleanout with Square Top



| Model Number | Wt., Lbs. | Pipe Size | Cover | List Price |
|--------------|-----------|-----------|---------------|------------|
| CO-202-S | 11 | 2" | nickel bronze | \$1,165.00 |
| CO-203-S | 11 | 3" | nickel bronze | 1,231.00 |
| CO-204-S | 11 | 4" | nickel bronze | 1,642.00 |



| 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" |

Options for CO-200-RX-4/S:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|----------------|------------|--------|----------------------|------------|
| None | No Hub Outlet | No Add | -6 | Vandal Proof | \$181.00 |
| P | Push-On Outlet | No Add | -13 | Galvanized Body | 409.50 |
| -X | Inside Caulk | No Add | -60 | PVC Body w/Poly Plug | No Add |
| -C | Membrane Clamp | \$201.50 | -61 | ABS Body w/Poly Plug | No Add |

Consult factory for all pricing and applications outside of listed parameters.

Prices do not include applicable taxes.



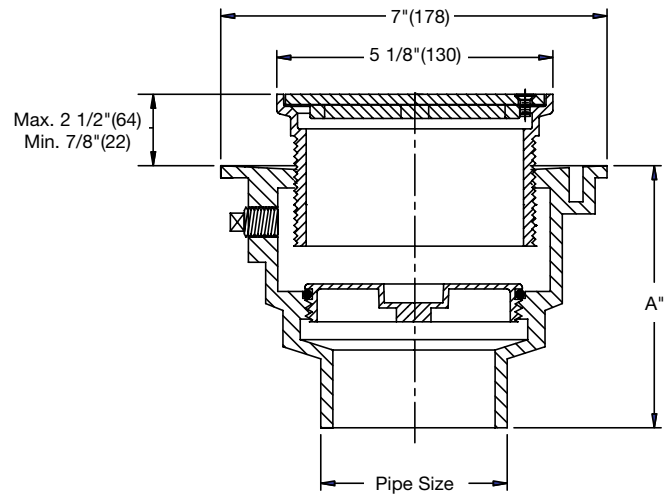
Adjustable Floor Cleanouts

CO-200-SX

Floor Cleanout with Heavy Duty Square Top



| Model Number | Wt., Lbs. | Pipe Size | Cover | List Price |
|--------------|-----------|-----------|---------------|------------|
| CO-202-SX | 12 | 2" | nickel bronze | \$1,448.00 |
| CO-203-SX | 12 | 3" | nickel bronze | 1,521.00 |
| CO-204-SX | 12 | 4" | nickel bronze | 1,929.00 |



Options for CO-200-SX

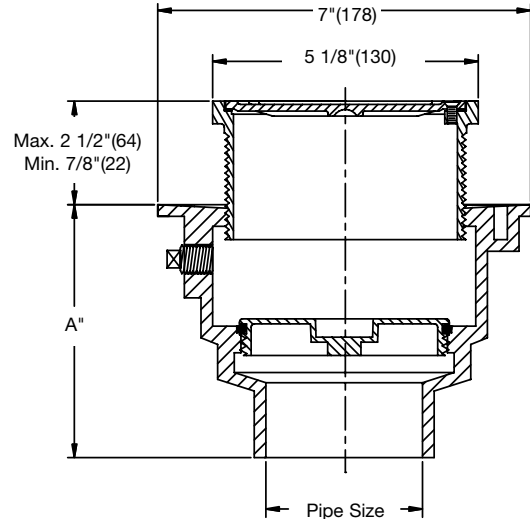
| Suffix | Description | List Price |
|--------|------------------|------------|
| -4 | Ductile Iron Top | \$-451.50 |

CO-200-T

Floor Cleanout with Round Top, Tile Recess



| Model Number | Wt., Lbs. | Pipe Size | Cover | List Price |
|--------------|-----------|-----------|---------------|------------|
| CO-202-T | 11 | 2" | nickel bronze | \$1,165.00 |
| CO-203-T | 11 | 3" | nickel bronze | 1,231.00 |
| CO-204-T | 11 | 4" | nickel bronze | 1,642.00 |



Options for CO-200-SX/T:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|----------------|------------|--------|----------------------|------------|
| None | No Hub Outlet | No Add | -6 | Vandal Proof | \$181.00 |
| P | Push-On Outlet | No Add | -13 | Galvanized Body | 409.50 |
| -X | Inside Caulk | No Add | -60 | PVC Body w/Poly Plug | No Add |
| -C | Membrane Clamp | \$201.50 | -61 | ABS Body w/Poly Plug | No Add |

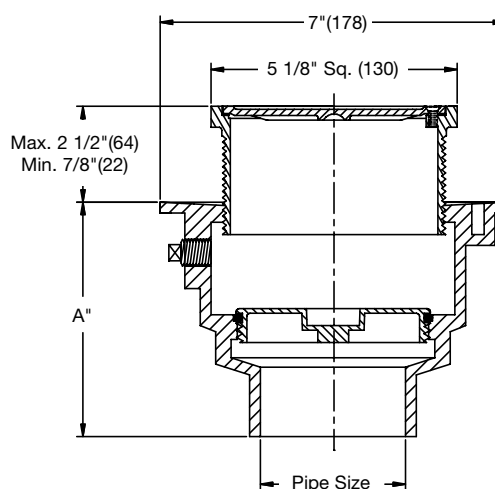
Adjustable Floor Cleanouts

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 | \$1,165.00 |
| CO-203-TS | 11 | 3" | nickel bronze | 1,231.00 |
| CO-204-TS | 11 | 4" | nickel bronze | 1,642.00 |



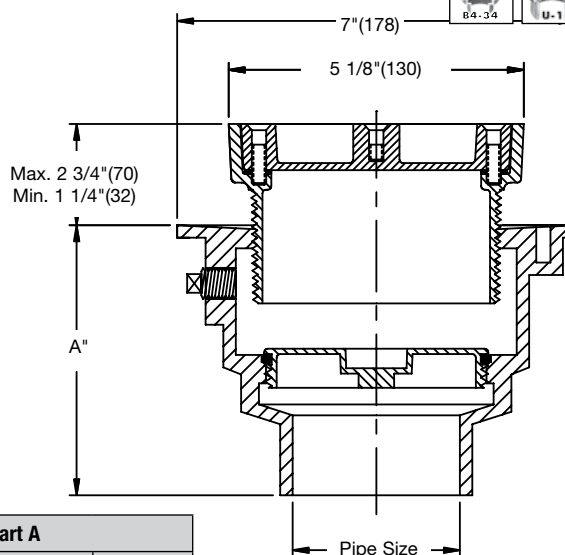
| Chart A | | | |
|-----------|--------|---------|---------|
| Pipe Size | NH | Push-On | PVC/ABS |
| 2" | 4-3/4" | 5-1/2" | 4" |
| 3" | 4-3/4" | 5-1/2" | 4" |
| 4" | 4-3/4" | 5-1/2" | 4" |

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 | \$1,823.00 |
| CO-203-U | 12 | 3" | nickel bronze | 1,890.00 |
| CO-204-U | 12 | 4" | nickel bronze | 2,299.00 |



| 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" |

Options for CO-200-TS/U:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|----------------|------------|--------|----------------------|------------|
| None | No Hub Outlet | No Add | -6 | Vandal Proof | \$18100 |
| P | Push-On Outlet | No Add | -13 | Galvanized Body | 409.50 |
| -X | Inside Caulk | No Add | -60 | PVC Body w/Poly Plug | No Add |
| -C | Membrane Clamp | \$201.50 | -61 | ABS Body w/Poly Plug | No Add |

Consult factory for all pricing and applications outside of listed parameters.

Prices do not include applicable taxes.



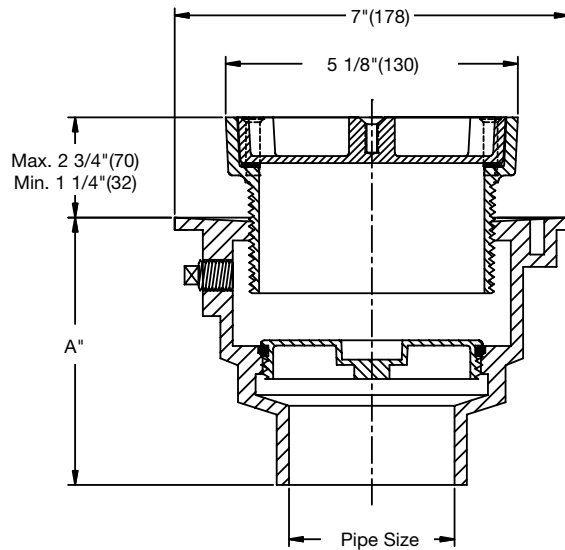
Adjustable Floor Cleanouts

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 | \$1,823.00 |
| CO-203-US | 12 | 3" | nickel bronze | 1,890.00 |
| CO-204-US | 12 | 4" | nickel bronze | 2,299.00 |

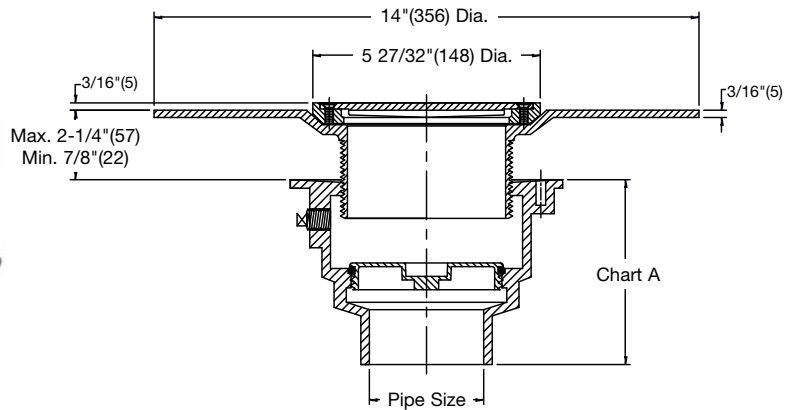


| Chart A | | | |
|-----------|--------|---------|---------|
| Pipe Size | NH | Push-On | PVC/ABS |
| 2" | 4-3/4" | 5-1/2" | 4" |
| 3" | 4-3/4" | 5-1/2" | 4" |
| 4" | 4-3/4" | 5-1/2" | 4" |

CO-200-H

Floor Cleanout with Elastomeric Flange

| Model Number | Wt., Lbs. | Pipe Size | Cover | List Price |
|--------------|-----------|-----------|---------------|------------|
| CO-202-H | 11 | 2" | nickel bronze | \$2,564.00 |
| CO-203-H | 11 | 3" | nickel bronze | 2,631.00 |
| CO-204-H | 11 | 4" | nickel bronze | 3,039.00 |



| 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" |

Options for CO-200-US/H:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|----------------|------------|--------|----------------------|------------|
| None | No Hub Outlet | No Add | -6 | Vandal Proof | \$181.00 |
| P | Push-On Outlet | No Add | -13 | Galvanized Body | 409.50 |
| -X | Inside Caulk | No Add | -60 | PVC Body w/Poly Plug | No Add |
| -C | Membrane Clamp | \$201.50 | -61 | ABS Body w/Poly Plug | No Add |



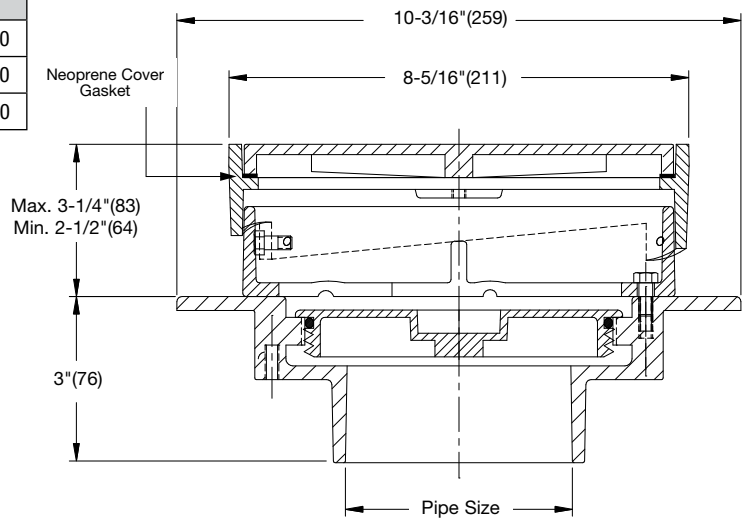
Consult factory for all pricing and applications outside of listed parameters.
Prices do not include applicable taxes.

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 | 2,252.00 |
| CO-263, 4, 6, 8-1 | 20 | 3, 4, 6, 8" | nickel bronze | 2,674.00 |
| CO-263, 4, 6, 8-S-1 | 20 | 3, 4, 6, 8" | sq. nickel bronze | 2,674.00 |



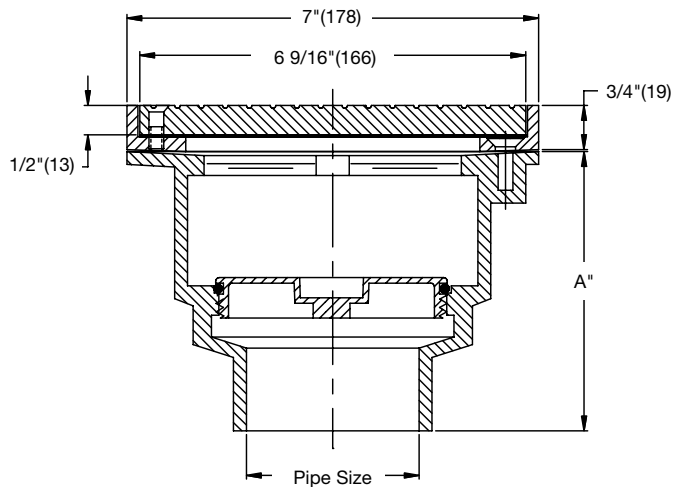
Options for CO-260

| Suffix | Description | List Price |
|--------|-------------------------|------------|
| -None | No Hub Outlet | No Add |
| P | Push-On Outlet | No Add |
| -X | Inside Caulik (6" only) | No Add |
| -3 | Round Stainless Steel | \$1,099.00 |
| -6 | Vandal Proof | 181.00 |
| -13 | All Galvanized | 916.00 |

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 | 845.00 |
| CO-272, 3, 4-1 | 12 | 2, 3, 4" | nickel bronze | 1,197.00 |



Options for CO-270

| Suffix | Description | List Price |
|--------|-------------------------|------------|
| -None | No Hub Outlet | No Add |
| P | Push-On Outlet | No Add |
| -X | Inside Caulik (6" only) | No Add |
| -6 | Vandal Proof | \$181.00 |
| -13 | All Galvanized | 501.50 |

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 pricing and applications outside of listed parameters.

Prices do not include applicable taxes.



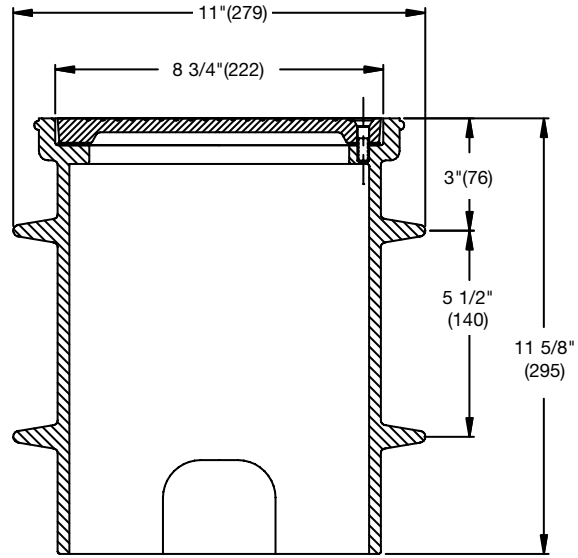
Access Housings

CO-300-MF

Extra Heavy Duty Access Housing

| Model Number | EDP# | Wt., Lbs. | Cover | List Price |
|--------------|---------|-----------|--------------|------------|
| CO-302-MF | 8134049 | 35 | ductile iron | \$2,590.00 |

Note: Use CO-380 cleanout if required.



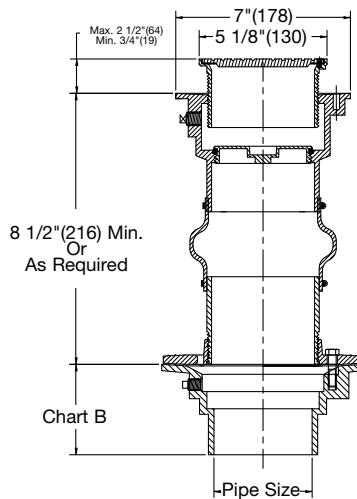
Options for CO-300-MF

| Suffix | Description | List Price |
|--------|----------------|------------|
| -6 | Vandal Proof | \$181.00 |
| -13 | All Galvanized | 1,443.00 |

CO-600-R

Isolation Cleanout

| Model Number | Wt., Lbs. | Pipe Size | Cover | List Price |
|--------------|-----------|-----------|---------------|------------|
| CO-602-R | 25 | 2" (51) | nickel bronze | \$3,257.00 |
| CO-603-R | 25 | 3" (76) | nickel bronze | 3,257.00 |
| CO-604-R | 26 | 4" (102) | nickel bronze | 3,257.00 |
| CO-606-R | 28 | 6" (152) | nickel bronze | 3,487.00 |



| 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" |

Options for CO-600

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|------------------------|------------|--------|----------------------|------------|
| None | No Hub Outlet | No Add | -6 | Vandal Proof | \$164.00 |
| P | Push-On Outlet | No Add | -13 | Galvanized Body | 743.00 |
| -X | Inside Caulk | No Add | -60 | PVC Body w/Poly Plug | No Add |
| -C | Membrane Clamp | \$201.50 | -61 | ABS Body w/Poly Plug | No Add |
| -CF | Carpet Clamping Flange | 531.50 | | | |



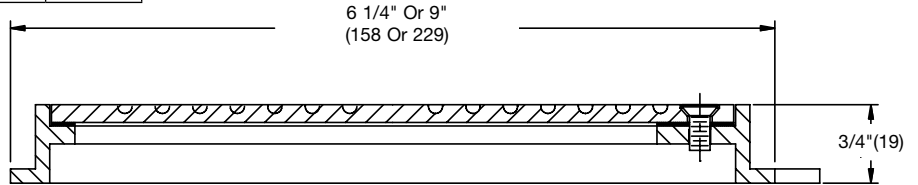
Consult factory for all pricing and applications outside of listed parameters.
Prices do not include applicable taxes.

Access Covers

CO-300-R

Round Serrated Access Cover

| Model Number | EDP# | Wt., Lbs. | Pipe Size | Cover | List Price |
|--------------|---------|-----------|-----------|---------------|------------|
| CO-300-R6 | 8134055 | 5 | 6-1/4" | nickel bronze | \$652.50 |
| CO-300-R9 | 8100586 | 10 | 9" | nickel bronze | 1,647.00 |



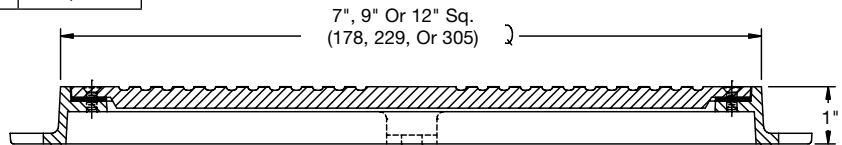
Options for CO-300-R Series:

| Suffix | Description | List Price |
|--------|--------------|------------|
| -6 | Vandal Proof | \$181.00 |

CO-300-S

Square Serrated Access Cover

| Model Number | EDP# | Wt., Lbs. | Pipe Size | Cover | List Price |
|--------------|---------|-----------|-----------|---------------|------------|
| CO-300-S7 | 8134075 | 5 | 7"x7" | nickel bronze | \$1,126.00 |
| CO-300-S8-9 | 8188398 | 9 | 8"x8" | nickel bronze | 1,546.00 |
| CO-300-S9 | 8134081 | 10 | 9"x9" | nickel bronze | 1,654.00 |
| CO-300-S12 | 8134067 | 13 | 12"x12" | nickel bronze | 1,783.00 |



Options for CO-300-S Series:

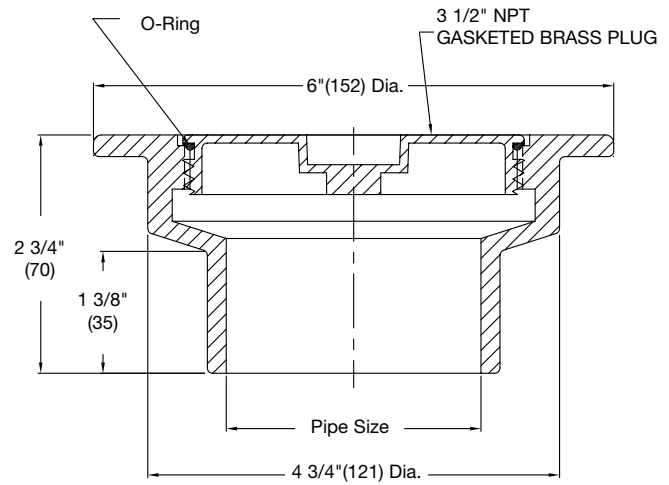
| Suffix | Description | List Price |
|--------|--------------|------------|
| -6 | Vandal Proof | \$181.00 |

General Purpose Floor Cleanouts

CO-380

Cleanout Ferrule with Brass Plug

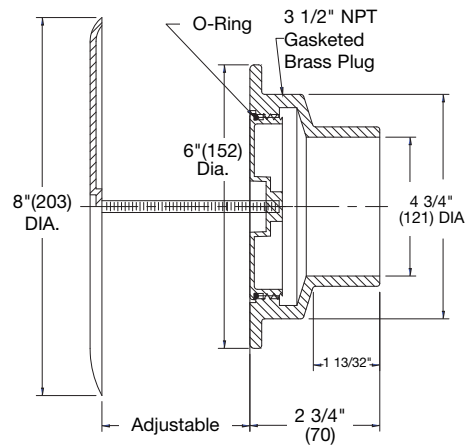
| Model Number | EDP# | Wt., Lbs. | Pipe Size | List Price |
|--------------|---------|-----------|-----------|------------|
| CO-382 | 8185255 | 2 | 2" | \$183.50 |
| CO-383 | 8185014 | 4 | 3" | 278.00 |
| CO-384 | 8185015 | 5 | 4" | 385.00 |
| CO-386 | 8185016 | 8 | 6" | 785.00 |



CO-380-RD

Wall Cleanout Ferrule with Stainless Steel Cover

| Model Number | EDP# | Wt., Lbs. | Pipe Size | Cover Size | List Price |
|--------------|---------|-----------|-----------|------------|------------|
| CO-382-RD | 8186182 | 3 | 2" | 8" | \$434.50 |
| CO-383-RD | 8186180 | 5 | 3" | 8" | 534.00 |
| CO-384-RD | 8186181 | 6 | 4" | 8" | 641.50 |
| CO-386-RD | 8186183 | 9 | 6" | 8" | 1,421.00 |



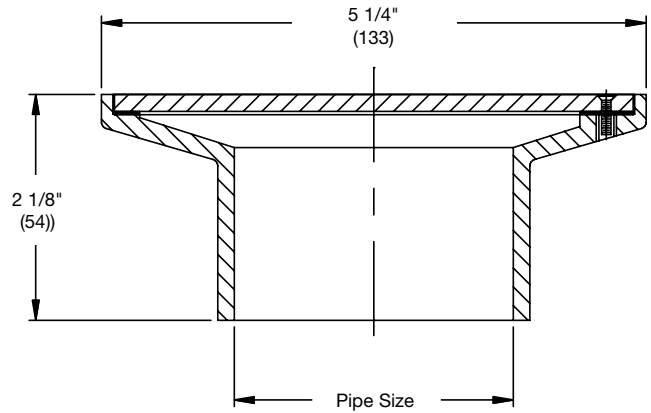
Consult factory for all pricing and applications outside of listed parameters.
Prices do not include applicable taxes.

General Purpose Floor Cleanouts

CO-390-E

General Purpose Floor Cleanout

| Model Number | EDP# | Wt., Lbs. | Pipe Size | Cover | List Price |
|------------------|---------|-----------|-----------|---------------|------------|
| CO-392, 3, 4-E | 8133715 | 4 | 2, 3, 4" | ductile iron | \$398.50 |
| CO-392, 3, 4-E-1 | 8133713 | 4 | 2, 3, 4" | nickel bronze | 528.00 |



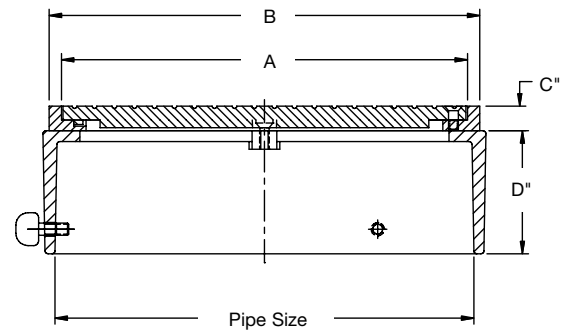
Options for CO-390-E:

| Suffix | Description | List Price |
|--------|--------------------------|------------|
| -6 | Vandal Proof | \$181.00 |
| -60 | PVC Body w/Socket Outlet | No Add |
| -61 | ABS Body w/Socket Outlet | No Add |

CO-410

Floor Access Housing

| Model Number | EDP# | Wt., Lbs. | Pipe Size | Cover | List Price |
|--------------|---------|-----------|-----------|---------------|------------|
| CO-413, 4 | 8152171 | 5 | 3, 4" | ductile iron | \$789.50 |
| CO-413, 4-1 | 8152170 | 5 | 3, 4" | nickel bronze | 1,041.00 |
| CO-416 | 8152175 | 9 | 6" | ductile iron | 1,083.00 |
| CO-416-1 | 8152174 | 9 | 6" | nickel bronze | 1,389.00 |



Options for CO-410:

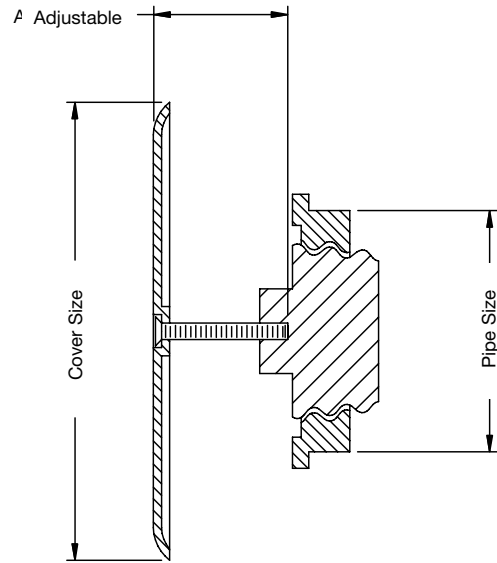
| Suffix | Description | List Price |
|--------|--------------|------------|
| -6 | Vandal Proof | \$181.00 |

| 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 |

Wall Cleanouts

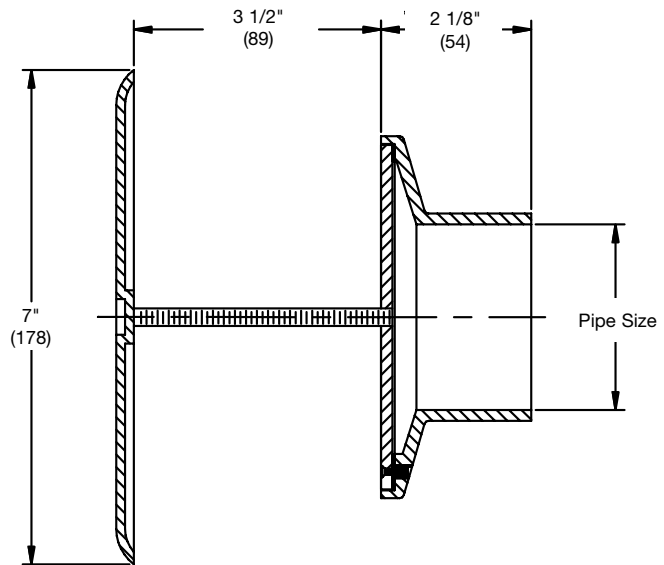
CO-440-RD Series Poly Wall Cleanout with Stainless Steel Cover

| Model Number | EDP# | Wt., Lbs. | Pipe Size | Cover Size | List Price |
|--------------|---------|-----------|-----------|------------|------------|
| CO-441.5-RD | 8185247 | 2 | 1-1/2" | 5" | \$345.00 |
| CO-442-RD | 8185248 | 2 | 2" | 5" | 363.50 |
| CO-443-RD | 8185249 | 2 | 3" | 7" | 444.00 |
| CO-444-RD | 8185262 | 2 | 4" | 7" | 586.50 |



CO-450-RD Line Cleanout with Stainless Steel Cover

| Model Number | EDP# | Wt., Lbs. | Pipe Size | List Price |
|--------------|---------|-----------|-----------|------------|
| CO-452-RD | 8185219 | 5 | 2" | \$444.00 |
| CO-453-RD | 8185220 | 5 | 3" | 547.50 |
| CO-454-RD | 8185221 | 5 | 4" | 646.00 |



Options for CO-450-RD

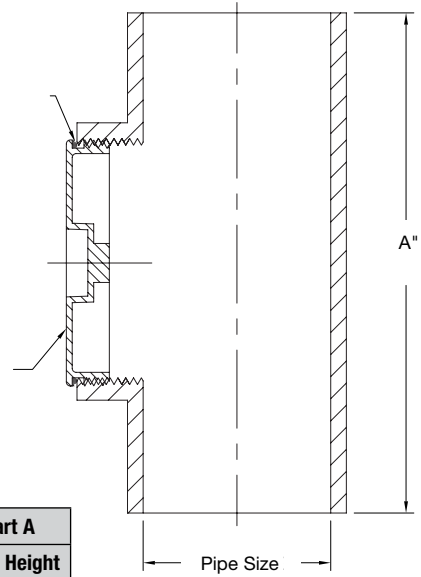
| Suffix | Description | List Price |
|--------|--------------------------|------------|
| -60 | PVC Body w/Socket Outlet | No Add |
| -61 | ABS Body w/Socket Outlet | No Add |

Wall Cleanouts

CO-460

Stack Cleanout with Brass Plug

| Model Number | EDP# | Wt., Lbs. | Pipe Size | List Price |
|--------------|---------|-----------|-----------|------------|
| CO-462 | 8134183 | 8 | 2" | \$427.00 |
| CO-463 | 8134190 | 15 | 3" | 530.50 |
| CO-464 | 8134196 | 17 | 4" | 823.00 |

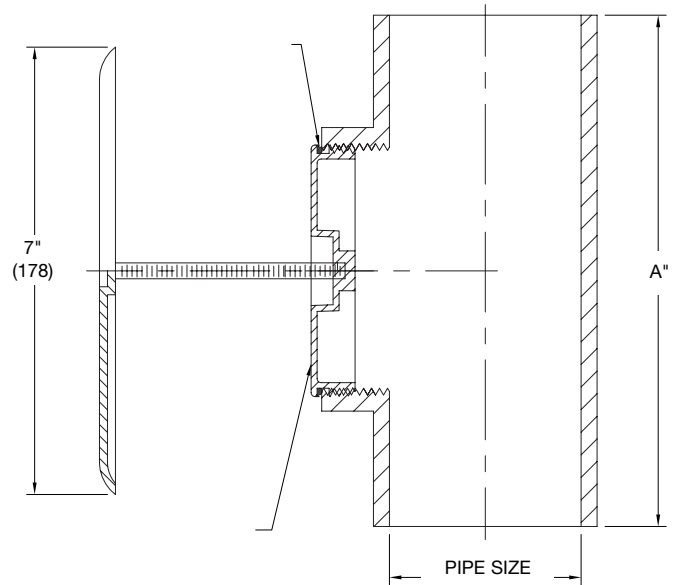


| Chart A | |
|---------|--------|
| Size | Height |
| 2" | 6-1/4" |
| 3" | 7-3/4" |
| 4" | 9" |

CO-460-RD

Stack Cleanout with Brass Plug & Stainless Steel Cover

| Model Number | EDP# | Wt., Lbs. | Pipe Size | Cover | List Price |
|--------------|---------|-----------|-----------|-----------------|------------|
| CO-462-RD | 8185222 | 9 | 2" | stainless steel | \$680.00 |
| CO-463-RD | 8134193 | 16 | 3" | stainless steel | 779.00 |
| CO-464-RD | 8134199 | 18 | 4" | stainless steel | 1,140.00 |



| Chart A | |
|---------|--------|
| Size | Height |
| 2" | 6-1/4" |
| 3" | 7-3/4" |
| 4" | 9" |

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

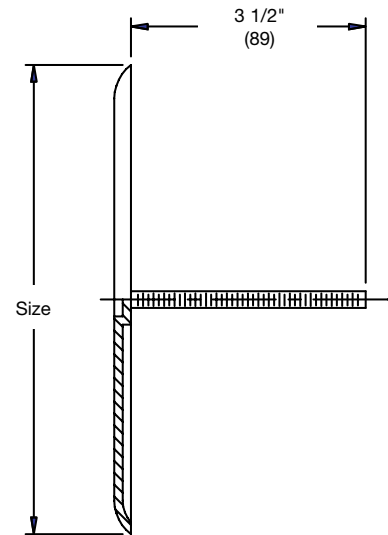
WATTS®

Wall Cleanouts

CO-480-RD

Stainless Steel Access Cover with Screw

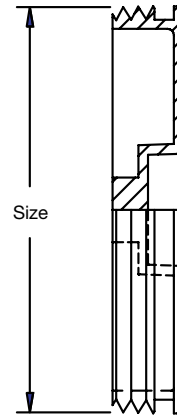
| Model Number | EDP# | Wt., Lbs. | Pipe Size | List Price |
|--------------|---------|-----------|-----------|------------|
| CO-480-RD5 | 8134232 | 1 | 5" | \$251.50 |
| CO-480-RD6 | 8134234 | 1 | 6" | 251.50 |
| CO-480-RD7 | 8134236 | 1 | 7" | 318.00 |
| CO-480-RD8 | 8134238 | 1 | 8" | 561.00 |
| CO-480-RD10 | 8134228 | 1 | 10" | 885.50 |



CO-590

Brass Cleanout Plug

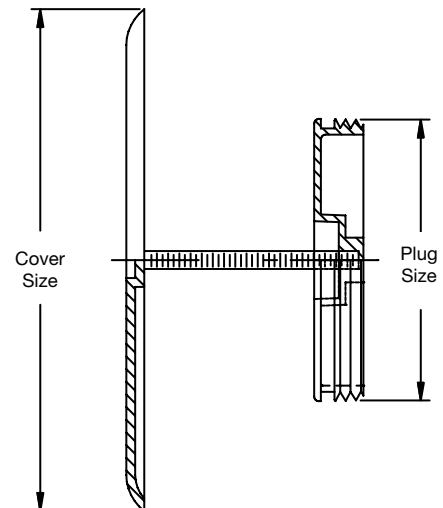
| Model Number | EDP# | Wt., Lbs. | Size | List Price |
|--------------|---------|-----------|--------|------------|
| CO-591.5 | 8185019 | 1/2 | 1-1/2" | \$87.25 |
| CO-592 | 8134262 | 3/4 | 2" | 102.50 |
| CO-593 | 8134269 | 1 | 3" | 183.50 |
| CO-594 | 8134279 | 1-1/2 | 4" | 314.00 |
| CO-595 | 8134284 | 1-1/2 | 5" | 485.50 |
| CO-596 | 8185020 | 3 | 6" | 652.50 |



CO-590-RD

Wall Cleanout with Brass Plug, Stainless Steel Cover

| Model Number | EDP# | Wt., Lbs. | Pipe Size | Cover Size | List Price |
|--------------|---------|-----------|-----------|------------|------------|
| CO-591.5-RD | 8185225 | 1 | 1-1/2" | 5" | \$345.00 |
| CO-592-RD | 8134264 | 1-1/4 | 2" | 5" | 352.50 |
| CO-593-RD | 8134270 | 1-1/2 | 3" | 7" | 434.50 |
| CO-594-RD | 8134280 | 2 | 4" | 7" | 574.00 |
| CO-595-RD | 8185229 | 2 | 5" | 8" | 800.00 |
| CO-596-Rd | 8185230 | 3-1/2 | 6" | 8" | 1,231.00 |



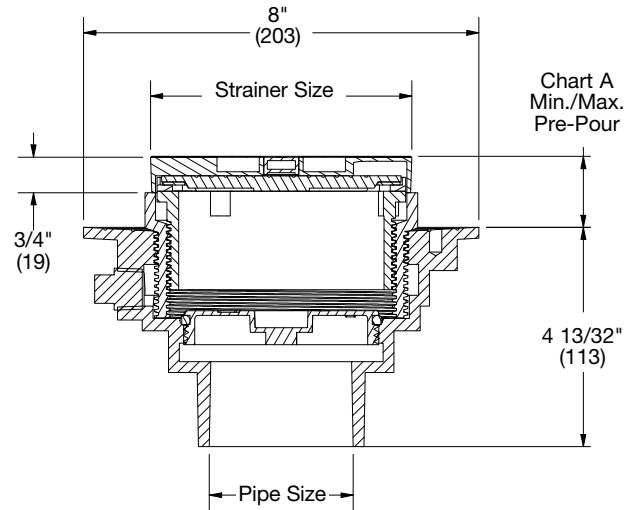
Consult factory for all pricing and applications outside of listed parameters.
Prices do not include applicable taxes.

Stainless Steel Top Floor Cleanouts

CO-1190-PR

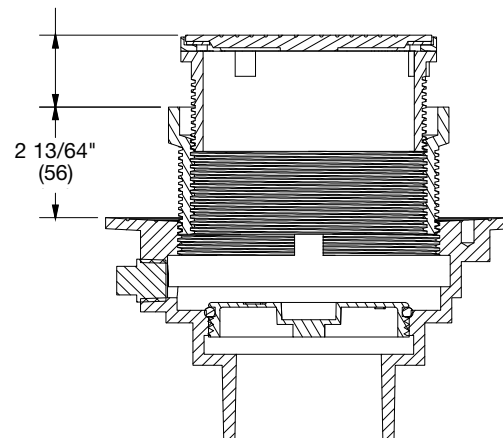
Pronto!® Cast Iron Adjustable Cleanout with Integrated Level

| Model Number | Wt., Lbs. | Pipe Size | Cover Size | Cover | List Price |
|--------------|-----------|-----------|------------|-----------------|------------|
| CO-1192-PR5 | 14 | 2"(51) | 5"(127) | stainless steel | \$2,097.00 |
| CO-1192-PR6 | 16 | 2"(51) | 6"(152) | stainless steel | 2,141.00 |
| CO-1193-PR5 | 14 | 3"(76) | 5"(127) | stainless steel | 2,142.00 |
| CO-1193-PR6 | 16 | 3"(76) | 6"(152) | stainless steel | 2,236.00 |
| CO-1194-PR5 | 14 | 4"(102) | 5"(127) | stainless steel | 2,329.00 |
| CO-1194-PR6 | 16 | 4"(102) | 6"(152) | stainless steel | 2,236.00 |
| CO-1192P-PR5 | 13 | 2"(51) | 5"(127) | stainless steel | 2,097.00 |
| CO-1192P-PR6 | 15 | 2"(51) | 6"(152) | stainless steel | 2,141.00 |
| CO-1193P-PR5 | 13 | 3"(76) | 5"(127) | stainless steel | 2,141.00 |
| CO-1193P-PR6 | 15 | 3"(76) | 6"(152) | stainless steel | 2,142.00 |
| CO-1194P-PR5 | 13 | 4"(102) | 5"(127) | stainless steel | 2,329.00 |
| CO-1194P-PR6 | 15 | 4"(102) | 6"(152) | stainless steel | 2,418.00 |



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:

| Suffix | Description | List Price |
|--------|-------------------|------------|
| -C | SS Membrane Clamp | \$436.00 |

Consult factory for all pricing and applications outside of listed parameters.

Prices do not include applicable taxes.

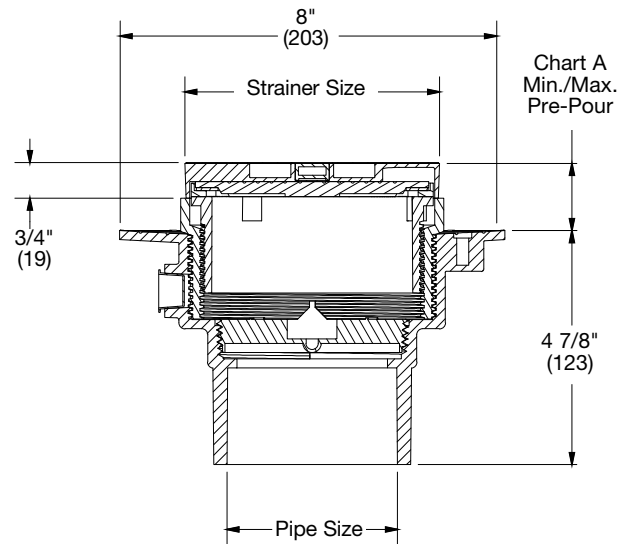
WATTS®

Stainless Steel Top Floor Cleanouts

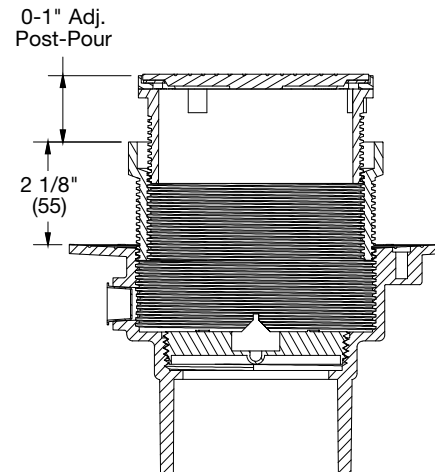
CO-1190-PR-60

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 | \$1,538.00 |
| CO-1192-PR6-60 | 6 | 2"(51) | 6"(152) | stainless steel | 1,584.00 |
| CO-1193-PR5-60 | 5 | 3"(76) | 5"(127) | stainless steel | 1,584.00 |
| CO-1193-PR6-60 | 6 | 3"(76) | 6"(152) | stainless steel | 1,678.00 |
| CO-1194-PR5-60 | 5 | 4"(102) | 5"(127) | stainless steel | 1,860.00 |
| CO-1194-PR6-60 | 6 | 4"(102) | 6"(152) | stainless steel | 1,860.00 |
| CO-1192N-PR5-60 | 4 | 2"(51) | 5"(127) | stainless steel | 1,538.00 |
| CO-1192N-PR6-60 | 5 | 2"(51) | 6"(152) | stainless steel | 1,584.00 |
| CO-1193N-PR5-60 | 4 | 3"(76) | 5"(127) | stainless steel | 1,584.00 |
| CO-1193N-PR6-60 | 5 | 3"(76) | 6"(152) | stainless steel | 1,678.00 |
| CO-1194N-PR5-60 | 4 | 4"(102) | 5"(127) | stainless steel | 1,860.00 |
| CO-1194N-PR6-60 | 5 | 4"(102) | 6"(152) | stainless steel | 1,948.00 |



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-1190-PR-60:

| Suffix | Description | List Price |
|--------|-------------------|------------|
| -C | SS Membrane Clamp | \$436.00 |

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

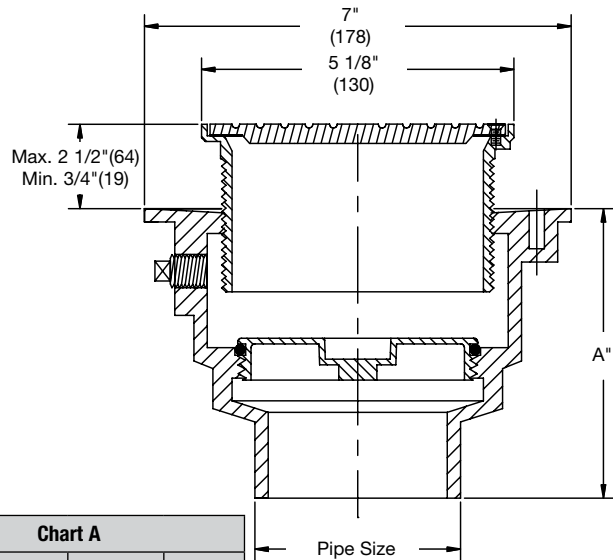
Stainless Steel Top Floor Cleanouts

CO-1200-R

Floor Cleanout with Round Stainless Steel Top



| Model Number | Wt., Lbs. | Pipe Size | Cover | List Price |
|--------------|-----------|-----------|-----------------|------------|
| CO-1202-R | 11 | 2" | stainless steel | \$1,560.00 |
| CO-1203-R | 11 | 3" | stainless steel | 1,628.00 |
| CO-1204-R | 11 | 4" | stainless steel | 2,037.00 |



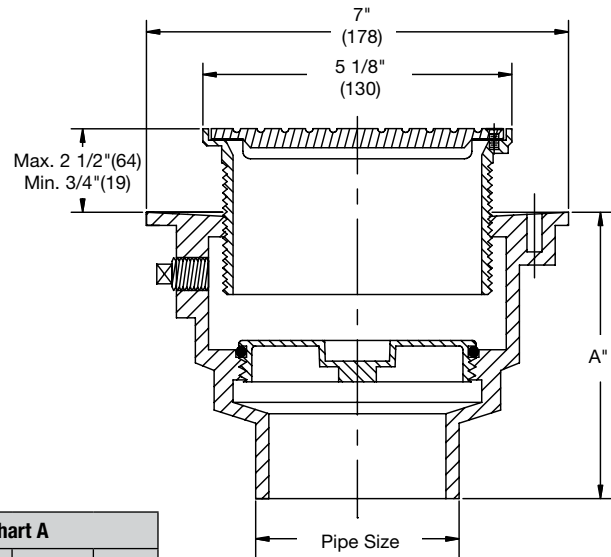
| Chart A | | | |
|-----------|--------|---------|---------|
| Pipe Size | NH | Push-On | PVC/ABS |
| 2" | 4-3/4" | 5-1/2" | 4" |
| 3" | 4-3/4" | 5-1/2" | 4" |
| 4" | 4-3/4" | 5-1/2" | 4" |

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 | \$1,847.00 |
| CO-1203-RX | 12 | 3" | stainless steel | 1,916.00 |
| CO-1204-RX | 12 | 4" | stainless steel | 2,325.00 |



| 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" |

Options for CO-1200:

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|----------------|------------|--------|----------------------|------------|
| None | No Hub Outlet | No Add | -6 | Vandal Proof | \$181.00 |
| P | Push-On Outlet | No Add | -13 | Galvanized Body | 409.50 |
| -X | Inside Caulk | No Add | -28 | 304 SS Body & Plug | 1,704.00 |
| -C | Membrane Clamp | \$201.50 | -60 | PVC Body w/Poly Plug | No Add |
| | | | -61 | ABS Body & Poly Plug | No Add |

Consult factory for all pricing and applications outside of listed parameters.

Prices do not include applicable taxes.

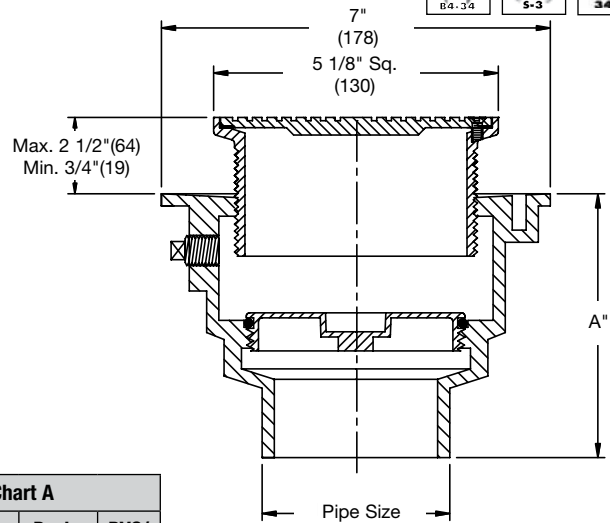


Stainless Steel Top Floor Cleanouts

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 | \$1,559.00 |
| CO-1203-S | 11 | 3" | stainless steel | 1,628.00 |
| CO-1204-S | 11 | 4" | stainless steel | 2,037.00 |

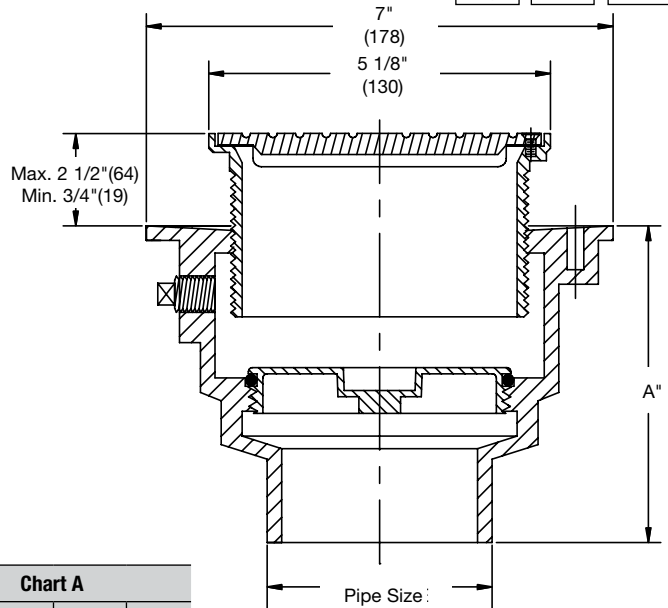


| Chart A | | | |
|-----------|--------|---------|---------|
| Pipe Size | NH | Push-On | PVC/ABS |
| 2" | 4-3/4" | 5-1/2" | 4" |
| 3" | 4-3/4" | 5-1/2" | 4" |
| 4" | 4-3/4" | 5-1/2" | 4" |

CO-1200-SX

Floor Cleanout with Heavy Duty Square Stainless Steel Top

| Model Number | Wt., Lbs. | Pipe Size | Cover | List Price |
|--------------|-----------|-----------|-----------------|------------|
| CO-1202-SX | 12 | 2" | stainless steel | \$1,847.00 |
| CO-1203-SX | 12 | 3" | stainless steel | 1,916.00 |
| CO-1204-SX | 12 | 4" | stainless steel | 2,325.00 |



| 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" |

Options for CO-1200

| Suffix | Description | List Price | Suffix | Description | List Price |
|--------|----------------|------------|--------|----------------------|------------|
| None | No Hub Outlet | No Add | -6 | Vandal Proof | \$181.00 |
| P | Push-On Outlet | No Add | -13 | Galvanized Body | 409.50 |
| -X | Inside Caulk | No Add | -28 | 304 SS Body & Plug | 1,704.00 |
| -C | Membrane Clamp | \$201.50 | -60 | PVC Body w/Poly Plug | No Add |
| | | | -61 | ABS Body & Poly Plug | No Add |

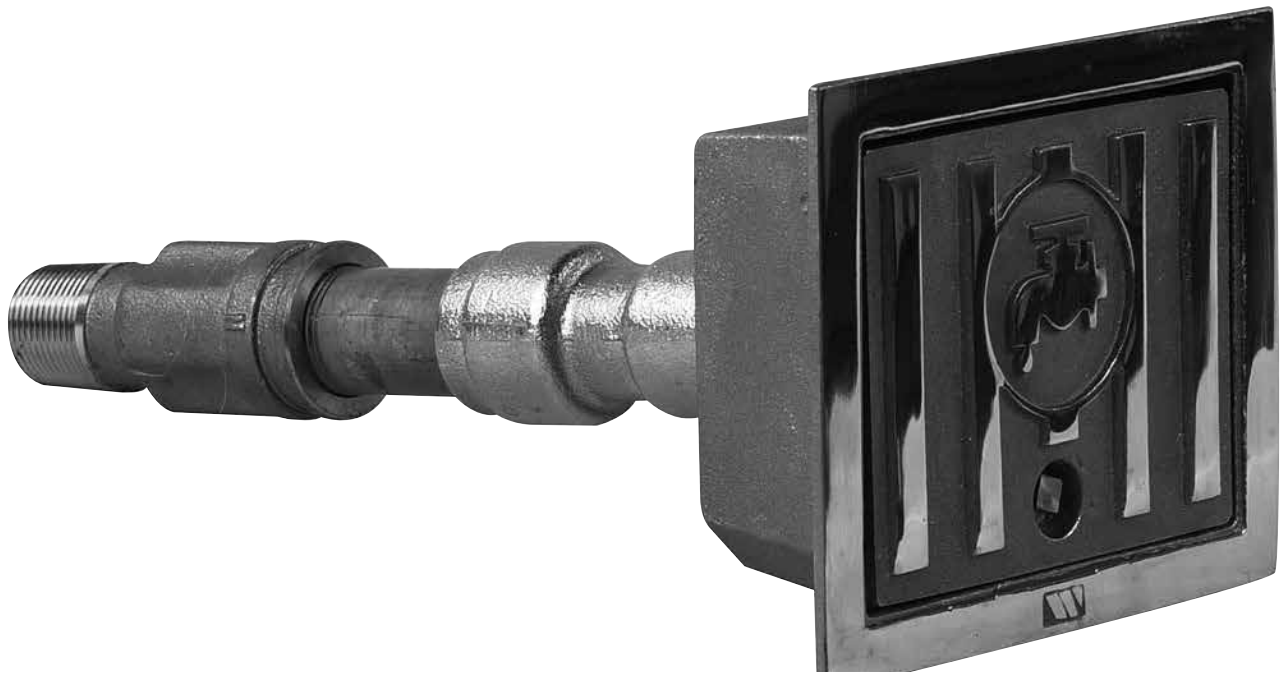


Consult factory for all pricing and applications outside of listed parameters.
Prices do not include applicable taxes.

Hydrants

Table Of Contents

- Pictorial Index
- Product Recommendations
- Standard Specifications
- Hydrant Selection Factors
- Typical Installations

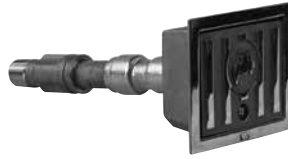


Hydrants

Pictorial Index



HY-420
Non-Freeze Wall Hydrant w/
Integral Vacuum Breaker



HY-725
Non-Freeze Wall Hydrant w/NB
Box, Integral Vacuum Breaker



HY-430
Moderate 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



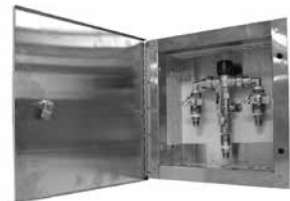
HY-700
Dual-Temp



HY-800
Non-Freeze Yard Hydrant



HY-900
Non-Freeze Roof Hydrant



FS-890
Water Supply Control Box

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.

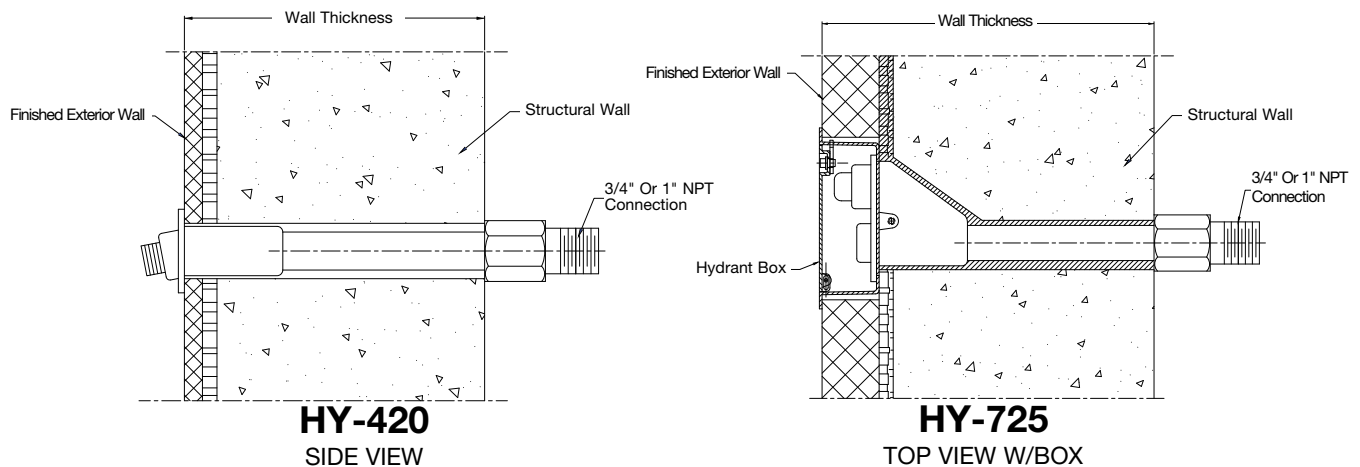
Non-freeze (frost-proof)

Non-freeze hydrants drain automatically when the water is turned off, preventing freezing, and potential damage to the hydrant or piping system.

Operating range

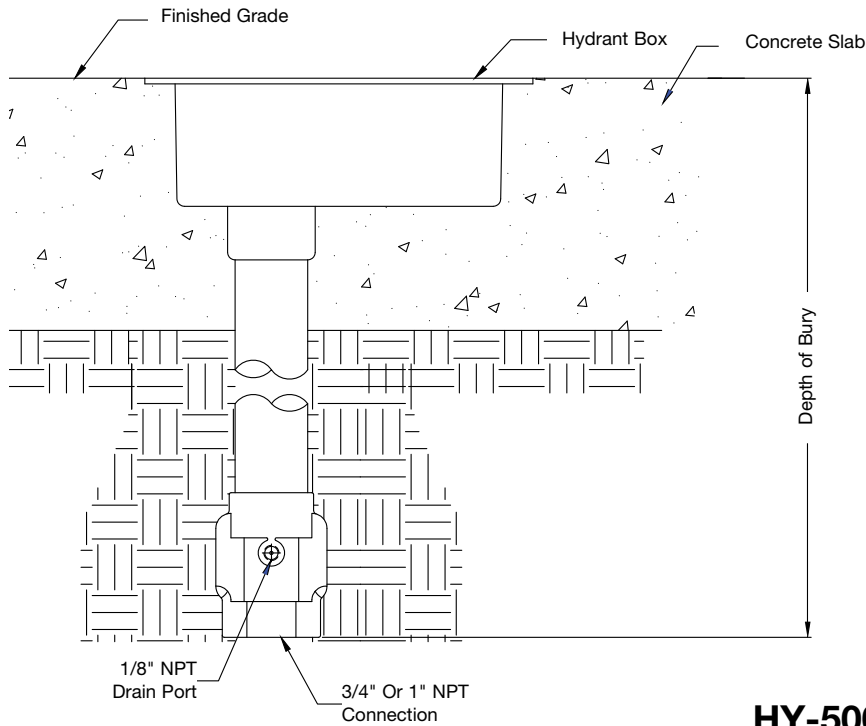
Watts hydrants are designed to operate within a pressure range of 8 PSI to 125 PSI, and a temperature range of 33 F to 140 F.

Typical Installations



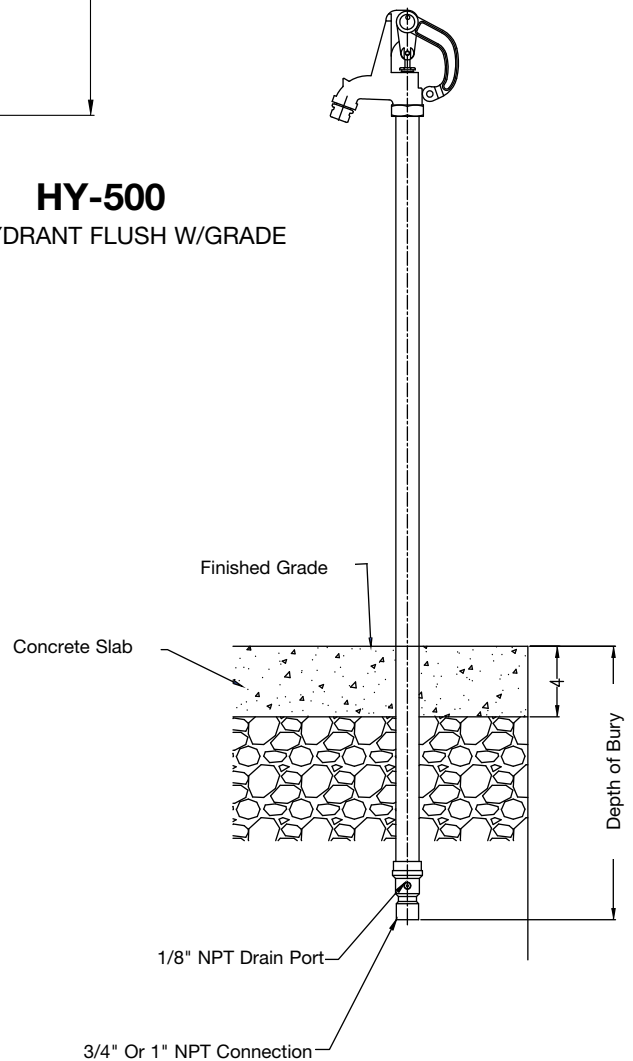
Hydrants

Typical Installations



HY-500

BOX HYDRANT FLUSH W/GRADE



HY-800

POST HYDRANT



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

Wall Hydrants

HY-330

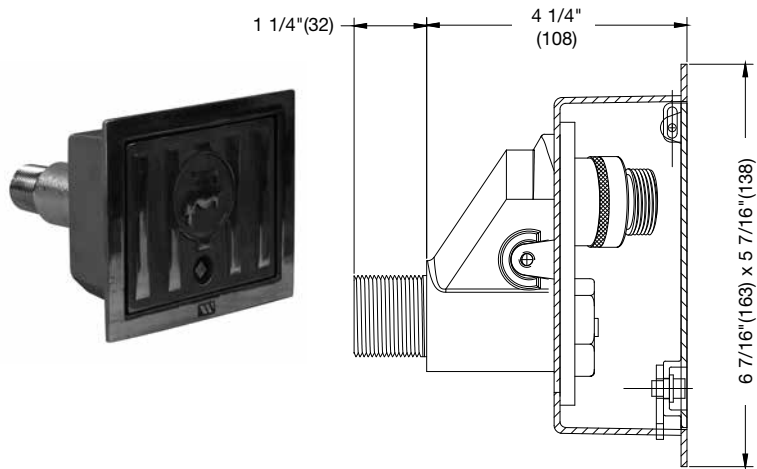
Moderate Climate Wall Hydrant with NB Box, Integral Vacuum Breaker

| Model Number | Hose Conn. | List Price |
|--------------|------------|------------|
| HY-330 | 3/4" | \$2,510.00 |

| EDP # | Description | List Price |
|---------|---------------------------|------------|
| 8142413 | HY-400-PVB Vacuum Breaker | \$509.00 |
| 8142272 | HY-430-CIA Repair Kit | \$908.50 |

Options for HY-330

| Suffix | Description | List Price |
|--------|---------------------|------------|
| -K | Cylinder Lock | \$352.00 |
| -3 | Stainless Steel Box | No Add |



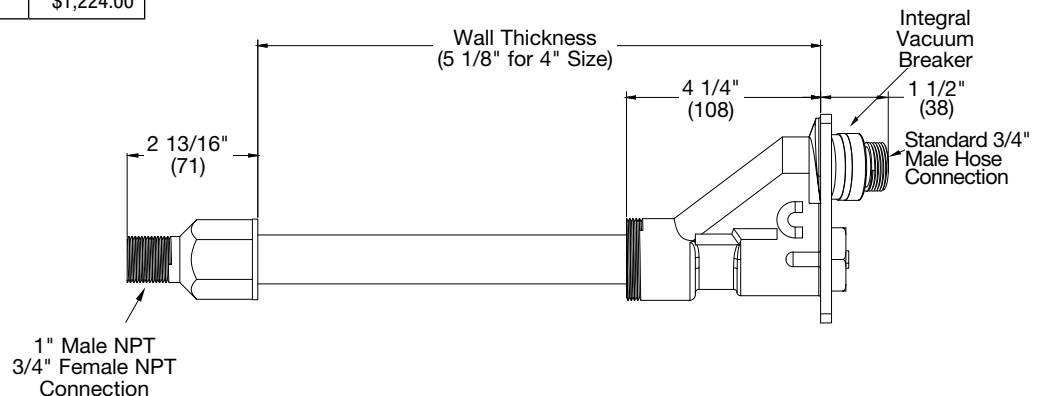
HY-420

Non-Freeze Wall Hydrant with Chrome Face, Integral Vacuum Breaker

| Model No. | Order Code | Wt. Lbs. | Wall Thickness | List Price |
|-----------|------------|----------|----------------|------------|
| HY-420-4 | 8151590 | 4.41 | 4" | \$1,682.00 |
| HY-420-6 | 8151591 | 4.65 | 6" | 1,682.00 |
| HY-420-8 | 8151592 | 4.81 | 8" | 1,682.00 |
| HY-420-10 | 8151593 | 5.03 | 10" | 1,784.00 |
| HY-420-12 | 8151594 | 5.29 | 12" | 1,784.00 |
| HY-420-14 | 8151595 | 5.56 | 14" | 1,784.00 |
| HY-420-16 | 8151596 | 5.82 | 16" | 1,953.00 |
| HY-420-18 | 8151597 | 6.09 | 18" | 1,953.00 |
| HY-420-20 | 8142383 | 7.03 | 20" | 2,115.00 |
| HY-420-22 | 8142385 | 7.42 | 22" | 2,115.00 |
| HY-420-24 | 8142388 | 7.69 | 24" | 2,115.00 |



| EDP # | Description | List Price |
|---------|---------------------------|------------|
| 8142413 | HY-400-PVB Vacuum Breaker | \$509.00 |
| 8142406 | HY-420-CIA Repair Kit | \$1,224.00 |



Consult factory for all pricing and applications outside of listed parameters.

Prices do not include applicable taxes.

WATTS®

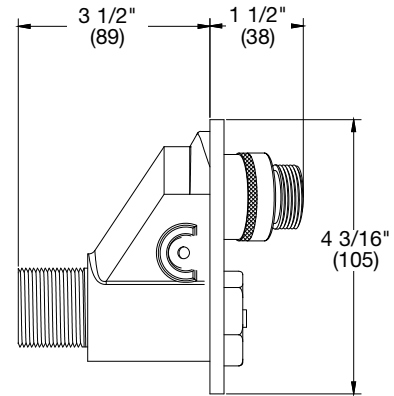
Wall Hydrants

HY-430

Moderate Climate Wall Hydrant with Chrome Face, Integral Vacuum Breaker

| Model Number | Hose Conn. | List Price |
|--------------|------------|------------|
| HY-430 | 3/4" | \$1,239.00 |

| EDP # | Description | List Price |
|---------|---------------------------|------------|
| 8142413 | HY-400-PVB Vacuum Breaker | \$509.00 |
| 8142272 | HY-430-CIA Repair Kit | \$908.50 |

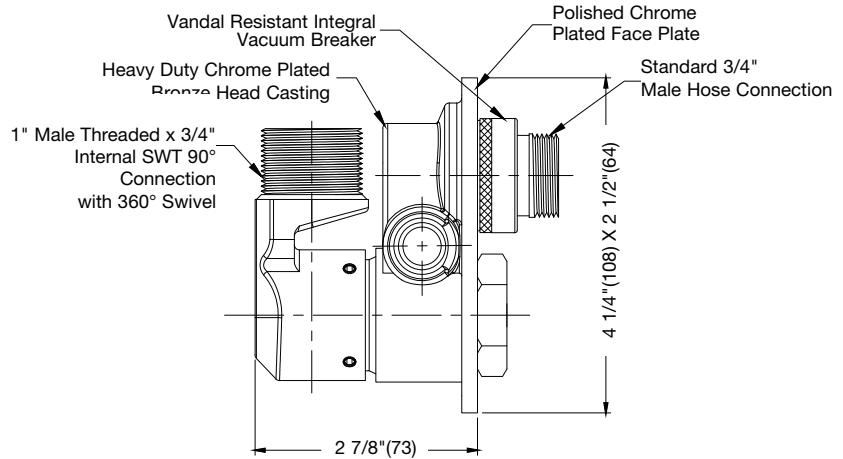


HY-440

Moderate Climate Narrow Wall Hydrant

| Model Number | EDP# | Hose Conn. | List Price |
|--------------|---------|------------|------------|
| HY-440 | 8187868 | 3/4" | \$1,240.00 |

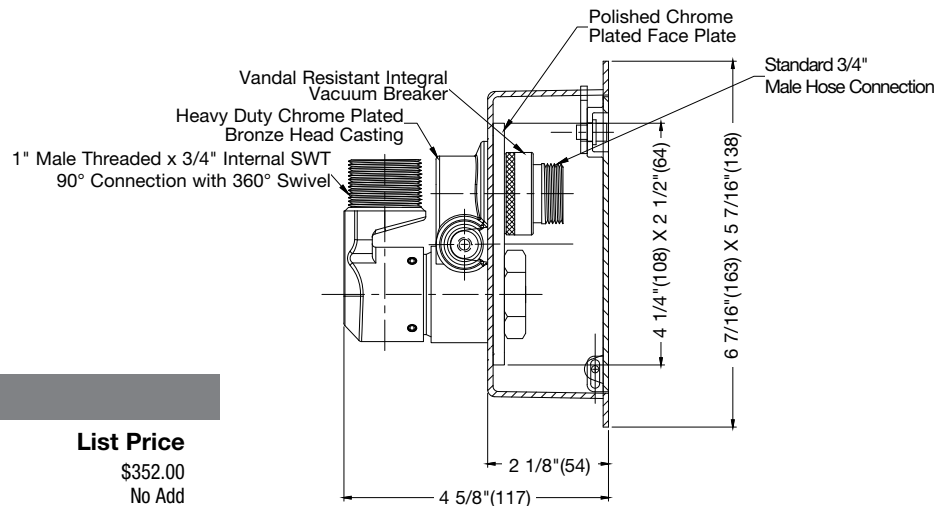
| EDP # | Description | List Price |
|---------|---------------------------|------------|
| 8142413 | HY-400-PVB Vacuum Breaker | \$509.00 |
| 8188776 | HY-440-CIA Repair Kit | \$908.50 |



HY-450

Moderate Climate Narrow Wall Hydrant w/NB Box

| Model Number | Hose Conn. | List Price |
|--------------|------------|------------|
| HY-450 | 3/4" | \$2,510.00 |



Options for HY-450

| Suffix | Description | List Price |
|--------|---|------------|
| -K | Cylinder Lock | \$352.00 |
| -R | Round Box For Tilt-Up Construction (Stainless Steel Only) | No Add |
| -3 | Stainless Steel Box | No Add |



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

Ground Hydrants

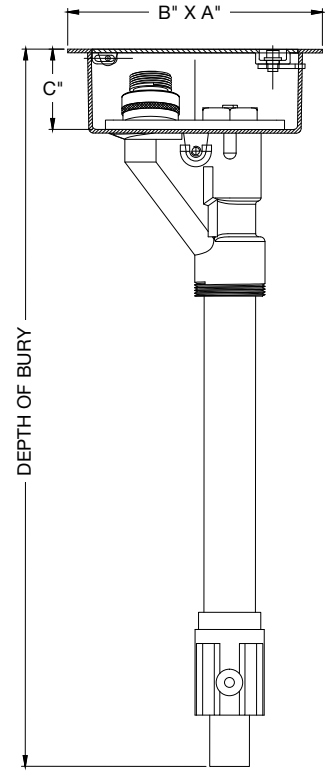
HY-500

Non-Freeze Deck Hydrant with NB Box

| Model Number | Depth | Wt. Lbs. | 3/4" Conn. | 1" Conn. | 1-1/4" Conn. | 1-1/2" Conn. | 2" Conn. |
|--------------|-------|----------|------------|------------|--------------|--------------|-------------|
| HY-502 | 2' | 10 | \$3,751.00 | \$4,514.00 | \$15,913.00 | \$17,472.00 | \$20,392.00 |
| HY-503 | 3' | 14 | 4,043.00 | 4,812.00 | 16,442.00 | 18,135.00 | 21,259.00 |
| HY-504 | 4' | 18 | 4,337.00 | 5,105.00 | 16,973.00 | 18,798.00 | 22,132.00 |
| HY-505 | 5' | 22 | 4,632.00 | 5,400.00 | 17,505.00 | 19,458.00 | 23,004.00 |
| HY-506 | 6' | 26 | 4,924.00 | 5,688.00 | 18,032.00 | 20,130.00 | 23,878.00 |
| HY-508 | 8' | 30 | 5,511.00 | 6,279.00 | 19,093.00 | 21,458.00 | 25,620.00 |

| EDP # | Description | List Price |
|---------|---------------------------|------------|
| 8142413 | HY-400-PVB Vacuum Breaker | \$509.00 |
| 8188774 | HY-500-RK (Repair Kit) | \$1,152.00 |

| Conn. Size | A | B | C |
|--------------|---------|---------|--------|
| 3/4" & 1" | 5-5/8" | 6-7/8" | 2-1/4" |
| 1-1/4" to 2" | 10-1/2" | 10-1/2" | 3-1/2" |



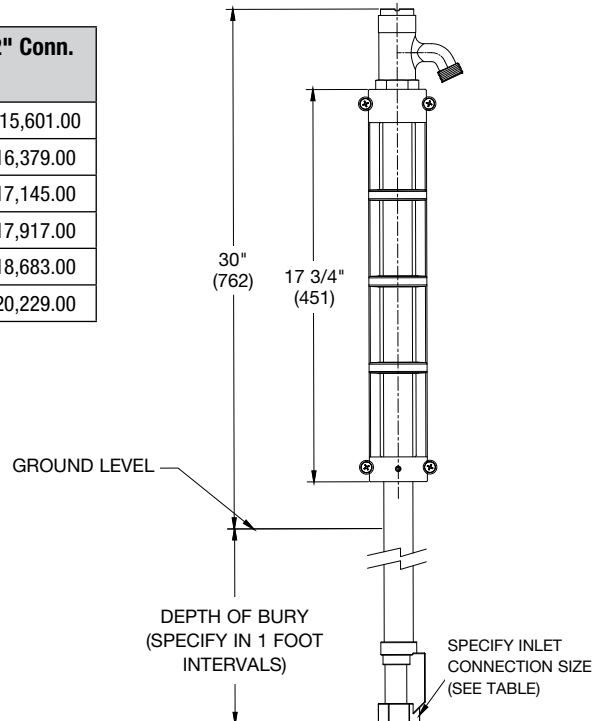
Note: Vacuum Breaker STD on 3/4" – 1"

HY-600

Non-Freeze Post Hydrant

| Model Number | EDP# | Depth | 3/4" Conn. | 1" Conn. | 1-1/4" Conn. | 1-1/2" Conn. | 2" Conn. |
|--------------|---------|-------|------------|------------|--------------|--------------|-------------|
| HY-600-2 | 8142543 | 2' | \$3,754.00 | \$5,079.00 | \$9,011.00 | \$12,553.00 | \$15,601.00 |
| HY-600-3 | 8142550 | 3' | 4,068.00 | 5,400.00 | 9,934.00 | 13,313.00 | 16,379.00 |
| HY-600-4 | 8142558 | 4' | 4,384.00 | 5,717.00 | 10,860.00 | 14,070.00 | 17,145.00 |
| HY-600-5 | 8142565 | 5' | 4,705.00 | 6,035.00 | 11,791.00 | 14,829.00 | 17,917.00 |
| HY-600-6 | 8142574 | 6' | 5,026.00 | 6,354.00 | 12,717.00 | 15,582.00 | 18,683.00 |
| HY-600-8 | 8142588 | 8' | 5,655.00 | 6,984.00 | 14,577.00 | 17,089.00 | 20,229.00 |

| EDP # | Description | List Price |
|---------|-----------------------|------------|
| 8154686 | HY-600-CIA Repair Kit | \$1,831.00 |



Consult factory for all pricing and applications outside of listed parameters.

Prices do not include applicable taxes.

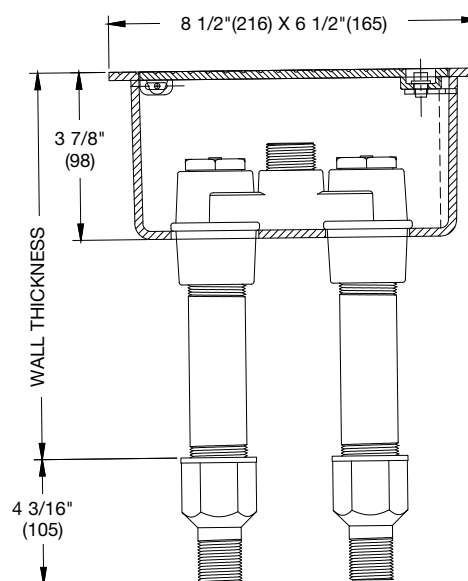
WATTS®

Wall Hydrants

HY-700

Non-Freeze Dual-Temp Wall Hydrant with SS Box

| Model Number | EDP# | Wt. Lbs. | Wall Thickness | 1" Conn. | List Price |
|---------------|---------|----------|----------------|----------|------------|
| HY-700-6, 8 | 8142651 | 15 | 6", 8" | 3/4" | \$7,189.00 |
| HY-700-16, 18 | 8185525 | 19 | 16, 18" | 3/4" | 8,034.00 |



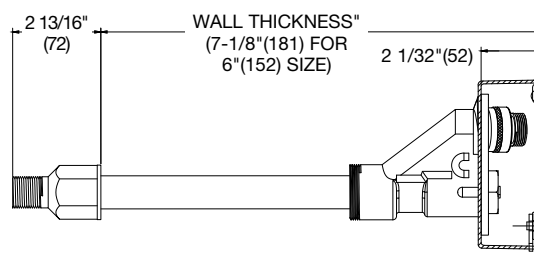
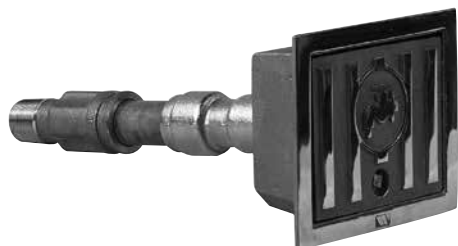
Options for HY-700

| Suffix | Description | List Price |
|--------|----------------|------------|
| -K | Cylinder Lock | \$352.00 |
| -LB | Less Box | -1,699.00 |
| VB | Vacuum Breaker | 259.00 |

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" | \$2,879.00 |
| HY-725-10, 12, 14 | 8 | 10, 12, 14" | 3/4" | 3,144.00 |
| HY-725-16, 18 | 9 | 16, 18" | 3/4" | 3,403.00 |
| HY-725-20, 22, 24 | 10 | 20, 22, 24" | 3/4" | 3,491.00 |



STANDARD FINISH IS POLISHED NICKEL BRONZE

Options for HY-725

| Suffix | Description | List Price |
|--------|---|------------|
| -K | Cylinder Lock | \$352.00 |
| -R | Round Box For Tilt-Up Construction (Stainless Steel Only) | No Add |
| -3 | Stainless Steel Box | No Add |
| -88 | Wall Clamp | No Add |



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

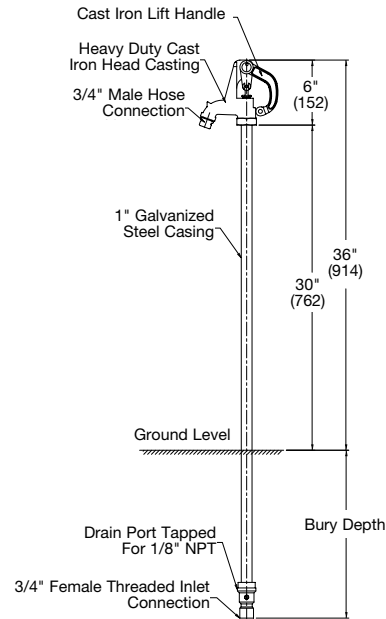
Yard Hydrants

HY-800

Non-Freeze Yard Hydrant

| Model Number | EDP# | Wt. Lbs. | Bury Depth | Hose Conn. | List Price |
|--------------|---------|----------|------------|------------|------------|
| HY-800-1 | 8187807 | 13 | 1' | 3/4" | \$2,049.00 |
| HY-800-2 | 8187658 | 15 | 2' | 3/4" | 2,164.00 |
| HY-800-3 | 8187659 | 19 | 3' | 3/4" | 2,279.00 |
| HY-800-4 | 8187660 | 23 | 4' | 3/4" | 2,403.00 |
| HY-800-5 | 8187661 | 27 | 5' | 3/4" | 2,510.00 |
| HY-800-6 | 8187662 | 31 | 6' | 3/4" | 2,626.00 |

| EDP # | Description | List Price |
|---------|-----------------------|------------|
| 8188777 | HY-800/900 Repair Kit | \$908.50 |

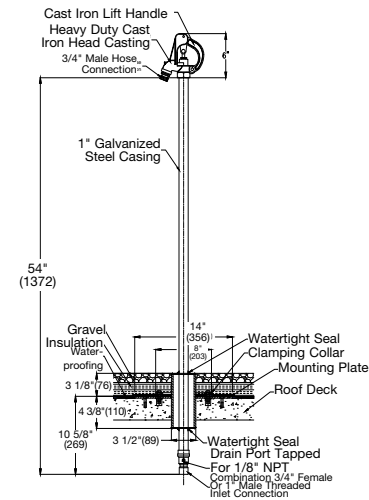


HY-900

Non-Freeze Roof Hydrant

| Model Number | EDP# | Wt. Lbs. | Hose Conn. | List Price |
|--------------|---------|----------|------------|------------|
| HY-900 | 8188208 | 28 | 3/4" | \$5,876.00 |

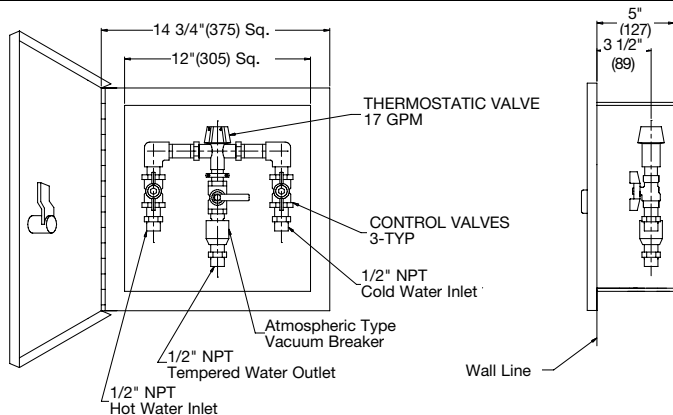
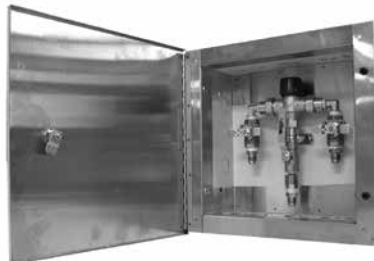
| EDP# | Description | List Price |
|---------|-----------------------|------------|
| 8188777 | HY-800/900 Repair Kit | \$908.50 |



FS-890

Water Supply Control Box

| Model Number | EDP# | Weight (lbs.) | Material | List Price |
|--------------|---------|---------------|-----------------|------------|
| FS-890 | 8100741 | 15 | stainless steel | \$9,918.00 |



Consult factory for all pricing and applications outside of listed parameters.

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WATTS®

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



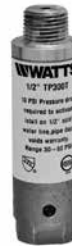
BV-240
In-Line Backwater Valve
With Access Housing



BV-300
Ball Float Backwater
Valve



BV-600
Pit Drain With Backwater
Valve



LF15M2-DR
Trap Primer & Distribution
Unit



MS-930
Trap Primer Adaptor



MS-940-SS
Stainless Steel Trap
Primer Adaptor



MS-950
Funnel Trap Adaptor



MS-8000
Fresh Air Inlet



PS-Series
Plastic Pipe Sleeves

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

Table 1

| 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 pricing and applications outside of listed parameters.
Prices do not include applicable taxes.

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 |

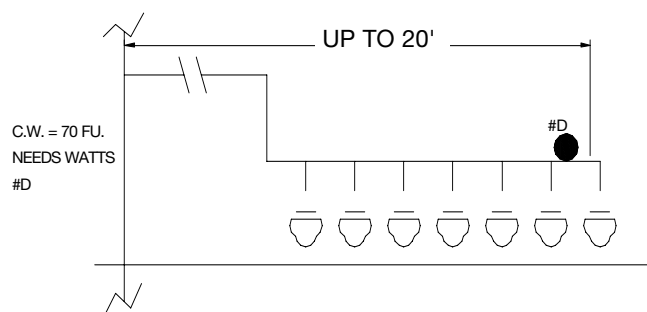


Figure A

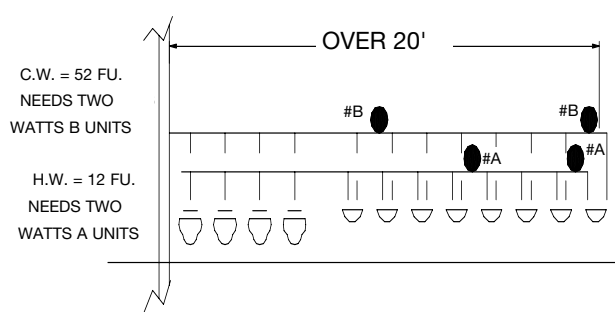


Figure B

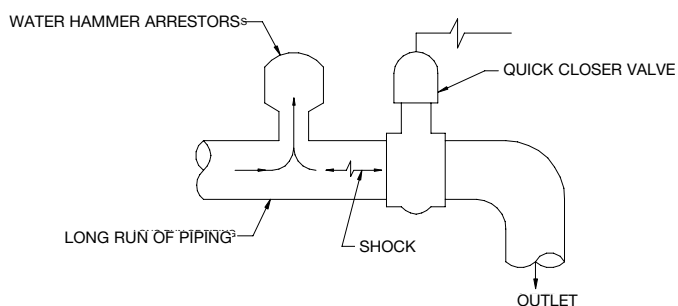


Figure C

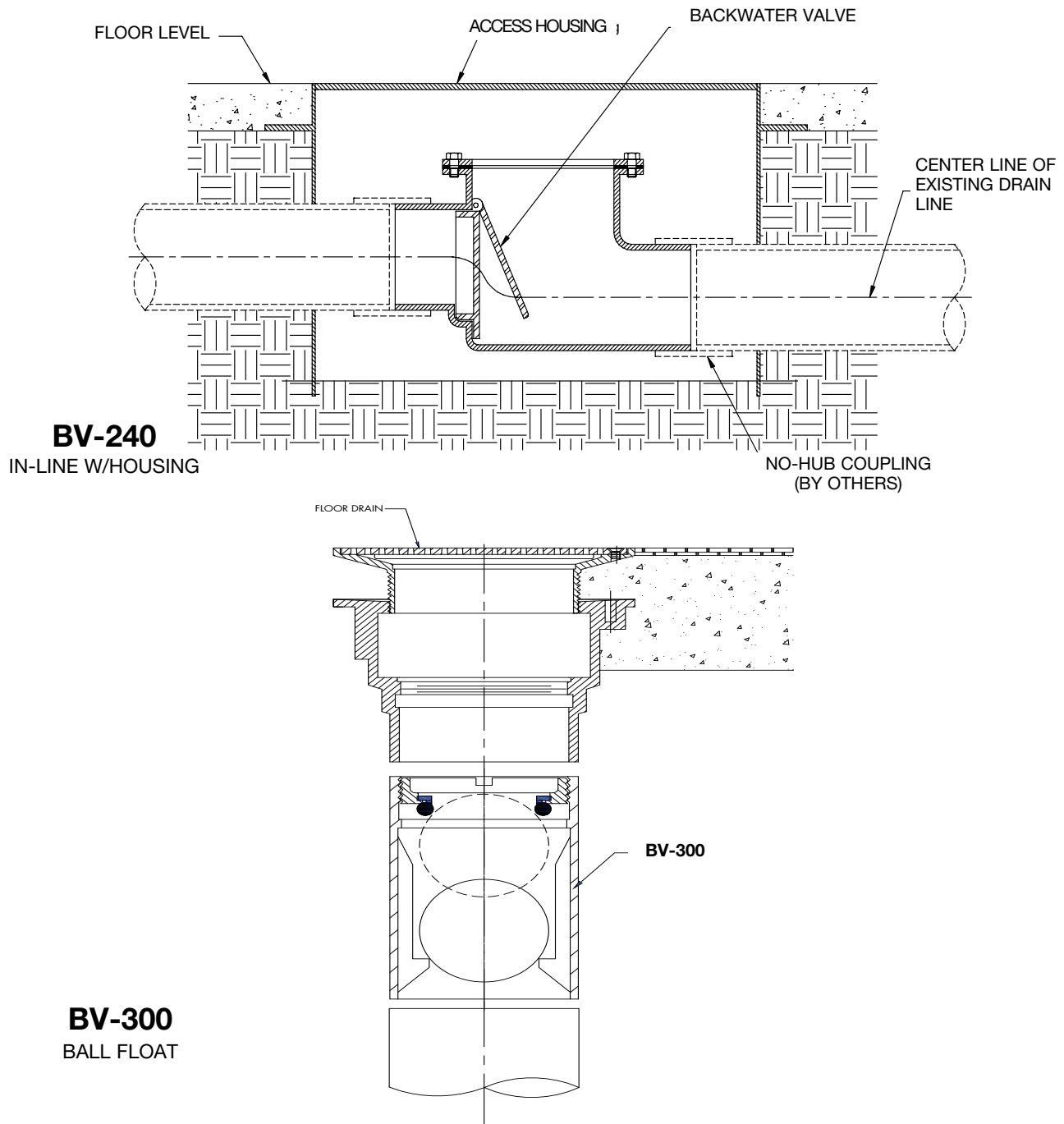
Specialties

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



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 |

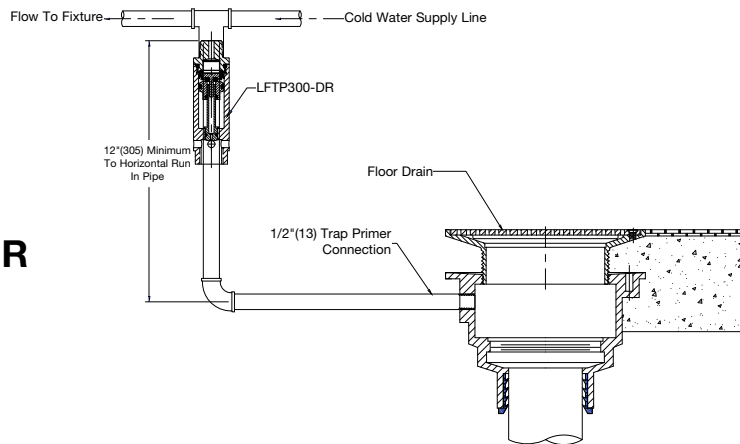
* Minimum cold flow required for proper trap priming.

Distribution Unit

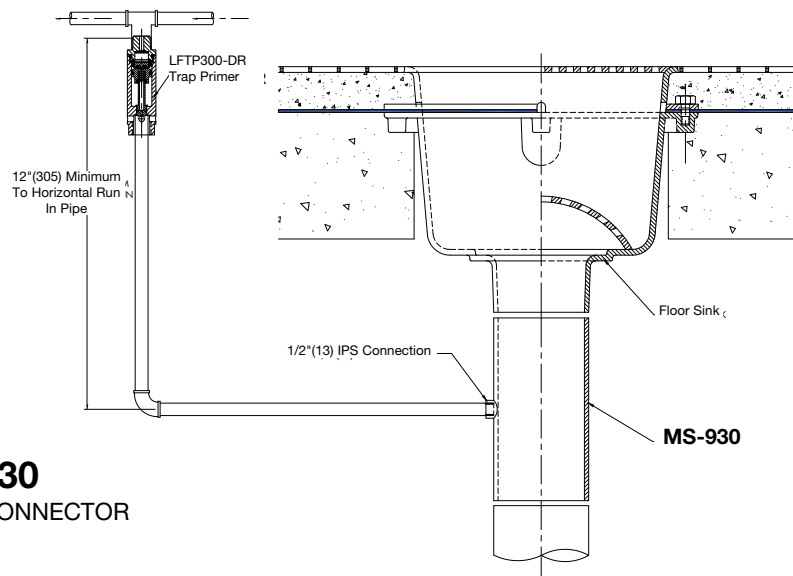
Watts model LFTP300-DU-DR Distribution Unit enables connection to up to four traps with a single trap primer.

Typical Installations

LFTP300-DR
TRAP PRIMER



MS-930
TRAP PRIMER CONNECTOR



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

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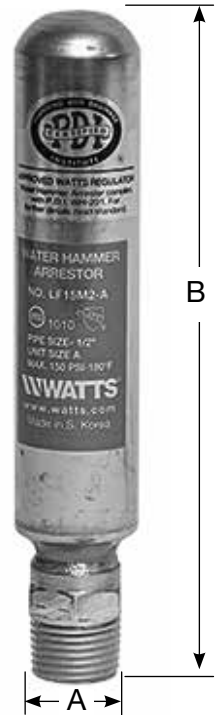
Water Hammer Arrestors

LF15M2-DR Series Copper Water Hammer Arrestors

| Model Number | EDP# | PDI Size | List Price |
|--------------|---------|----------|------------|
| LF15M2-A-DR | 8188366 | A | \$328.50 |
| LF15M2-B-DR | 8188367 | B | 626.50 |
| LF15M2-C-DR | 8188368 | C | 986.00 |
| LF15M2-D-DR | 8188369 | D | 2,083.00 |
| LF15M2-E-DR | 8188370 | E | 2,590.00 |
| LF15M2-F-DR | 8188371 | F | 3,081.00 |



| Technical Data | | | | | | | |
|----------------|---------------------|------------|------|-----------|-------|----------|---------------|
| Model No. | Connection Threaded | Dimensions | | | | PDI Size | Fixture Units |
| | | A | | B | | | |
| | | In. | MM | In. | MM | | |
| LF15M2-A-DR | 1/2" | 1 1/8" | 28.5 | 5 15/16" | 150.9 | A | 1-11 |
| LF15M2-B-DR | 3/4" | 1 3/8" | 34.9 | 8 9/16" | 218.0 | B | 12-32 |
| LF15M2-C-DR | 1" | 1 5/8" | 41.3 | 8 13/16" | 223.5 | C | 33-60 |
| LF15M2-D-DR | 1" | 2 1/8" | 54.0 | 9 15/16" | 252.5 | D | 61-113 |
| LF15M2-E-DR | 1" | 2 1/8" | 54.0 | 12 11/16" | 322.5 | E | 114-154 |
| LF15M2-F-DR | 1" | 2 5/8" | 66.7 | 11 5/32" | 283.5 | F | 155-330 |



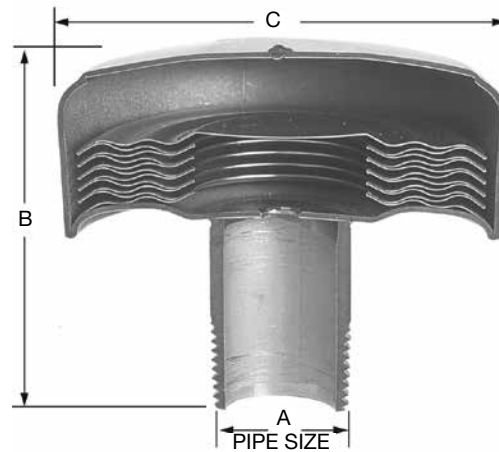
SS Series

Stainless Steel Shock Arrestors

| Model Number | EDP# | PDI SIZE | Conn. Size | Height | List Price |
|--------------|---------|----------|------------|--------|------------|
| SS-AA | 8201139 | A | 3/4" | 3 1/4" | \$1,023.00 |
| SS-BB | 8201140 | B | 1" | 4 1/4" | 2,084.00 |
| SS-CC | 8201141 | C | 1" | 5 3/4" | 3,112.00 |
| SS-DD | 8201142 | D | 1" | 6 1/2" | 7,789.00 |
| SS-EE | 8201143 | E | 1" | 6 3/4" | 8,795.00 |



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 |



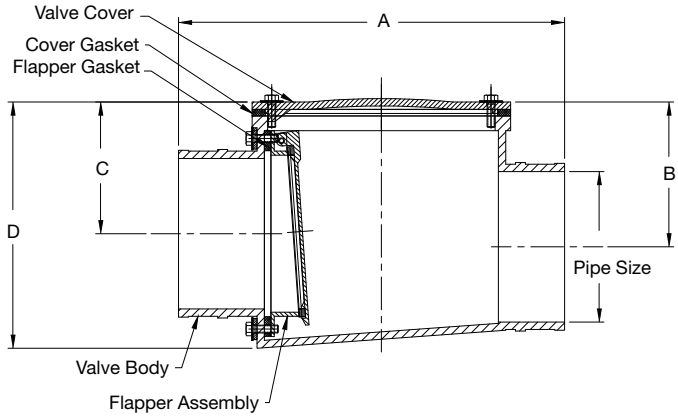
Consult factory for all pricing and applications outside of listed parameters.
Prices do not include applicable taxes.

Backwater Valves

BV-200

Cast Iron In-Line Backwater Valve

| Model Number | EDP# | Wt. Lbs. | Size | List Price |
|--------------|---------|----------|------|------------|
| BV-203 | 8132724 | 16 | 3" | \$3,789.00 |
| BV-204 | 8132727 | 22 | 4" | 4,658.00 |
| BV-206 | 8132731 | 30 | 6" | 6,685.00 |



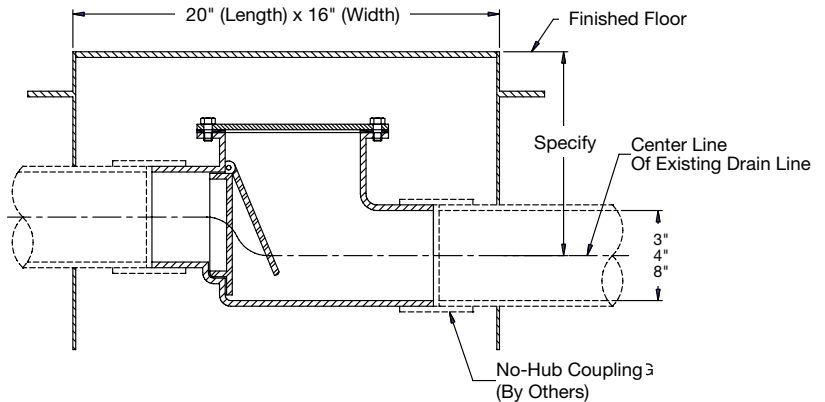
| Pipe Size | A | B | C | D |
|-----------|---------------|---------------|-------------|--------------|
| 3" (76) | 11-5/8" (294) | 4-3/16" (107) | 3-3/4" (94) | 6-1/2" (165) |
| 4" (102) | 12" (305) | 4-3/8" (110) | 3-7/8" | 7-1/4" (184) |
| 6" (152) | 14-3/4" (375) | 5-1/2" (140) | 5" (127) | 9-3/8" (238) |

BV-240

In-Line Backwater Valve with Access Housing

| Model Number | Wt. Lbs. | Size | List Price |
|--------------|----------|------|------------|
| BV-243 | 16 | 3" | \$8,149.00 |
| BV-244 | 22 | 4" | 9,023.00 |
| BV-246 | 30 | 6" | 11,047.00 |

Note: Epoxy-coated Steel Access Housing



Options for BV-240

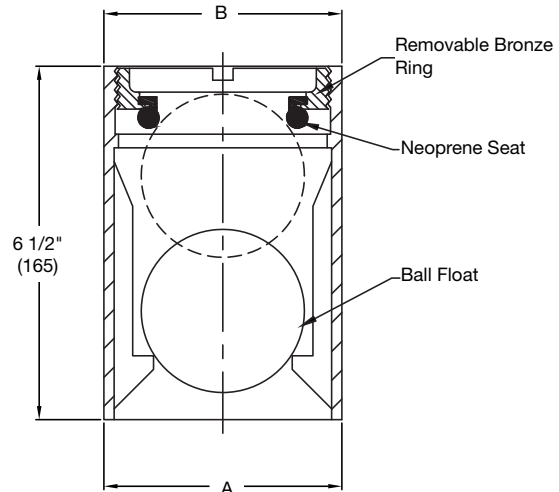
| Suffix | Description | List Price |
|--------|--------------------------|------------|
| -HD | Heavy Duty Traffic Cover | \$9,609.00 |

BV-300

Ball Float Backwater Valve

| Model Number | EDP# | Wt. Lbs. | Size | List Price |
|--------------|---------|----------|-------|------------|
| BV-302 | 8187804 | 5 | 3"x2" | \$704.00 |
| BV-303 | 8187805 | 5 | 3" | 704.00 |
| BV-304 | 8187806 | 5 | 4" | 704.00 |

| 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) |



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

WATTS®

Backwater Valves/Trap Primers

BV-600

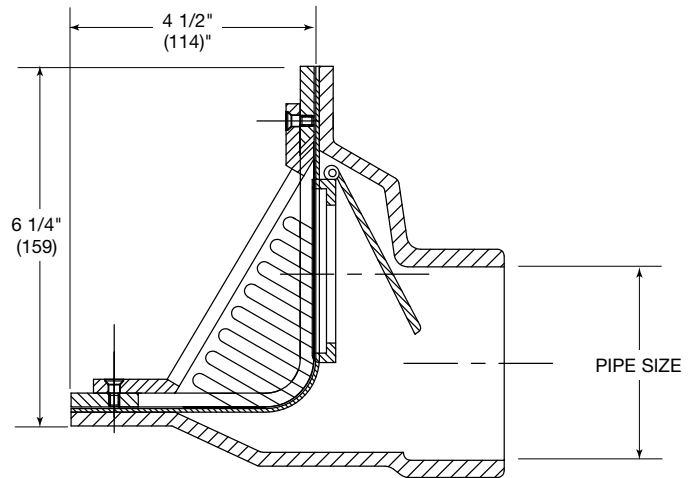
Pit Drain with Backwater Valve

| Model Number | Wt. Lbs. | Size | List Price |
|--------------|----------|--------|------------|
| BV-602,3,4 | 40 | 2,3,4" | \$3,410.00 |



Options for BV-600

| Suffix | Description | List Price |
|--------|-----------------------------|------------|
| -1 | Nickel Bronze Grate & Frame | \$1,610.00 |
| -6 | Vandal Proof Grate | 275.00 |



LFTP300-DR

Trap Primer & Distribution Unit

| Model Number | EDP# | Wt. Lbs. | Size | List Price |
|---------------|---------|----------|------|------------|
| LFTP300T-DR | 8188354 | 1 | 1/2" | \$503.00 |
| LFTP300S-DR | 8188353 | 1 | 1/2" | 503.00 |
| LFTP300-DU-DR | 8188355 | 1 | 1/2" | 354.00 |



Model LFTP300S-DR



Model LFTP300T-DR



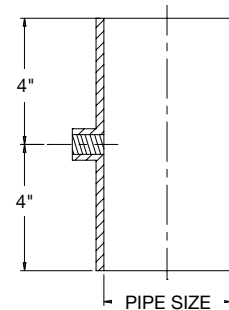
Model LFTP300-DU-DR

Miscellaneous Specialties

MS-930

Trap Primer Adaptor

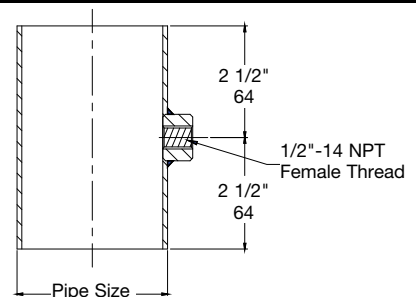
| Model Number | EDP# | Size | Material | List Price |
|--------------|---------|----------|-----------|------------|
| MS-932, 3, 4 | 8143303 | 2, 3, 4" | cast iron | \$358.50 |



MS-940-SS

Stainless Steel Trap Primer Adaptor

| Model Number | EDP# | Size | Material | List Price |
|--------------|---------|----------|-----------------|------------|
| MS-942, 3, 4 | 8189052 | 2, 3, 4" | stainless steel | \$676.00 |



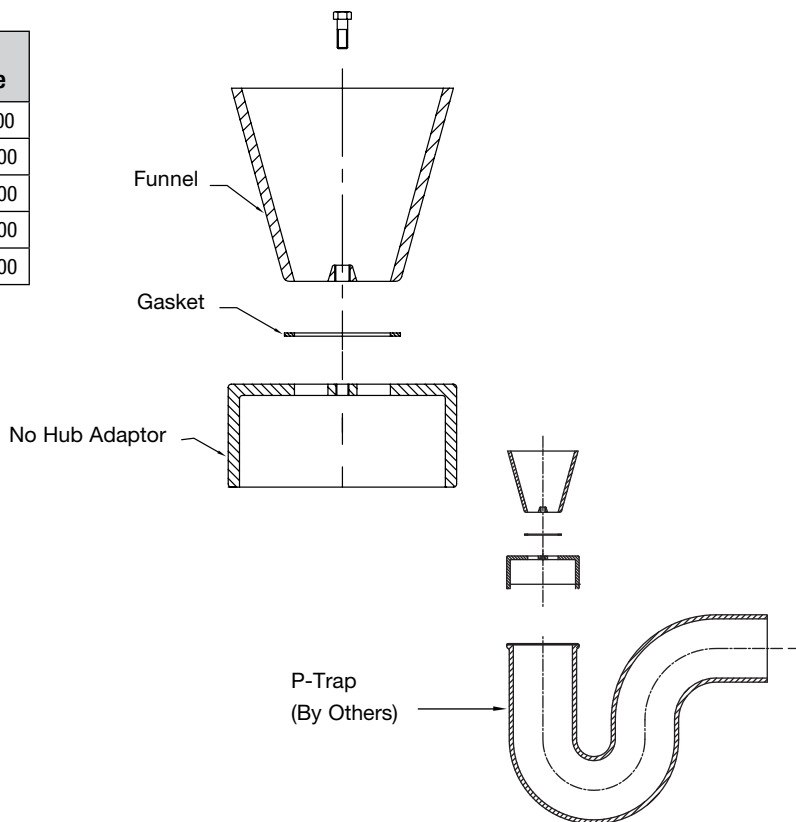
Consult factory for all pricing and applications outside of listed parameters.
Prices do not include applicable taxes.

Miscellaneous Specialties

MS-950

Funnel/Trap Adaptor

| Model Number | Size | Funnel | List Price |
|----------------|--------|--------------------|------------|
| MS-952,3-F4-50 | 2, 3," | 4" Cast Iron | \$547.00 |
| MS-952,3-F4-1 | 2, 3," | 4" Nickel Bronze | 1,009.00 |
| MS-952,3-F6-1 | 2, 3," | 6" Nickel Bronze | 1,377.00 |
| MS-952,3-G-50 | 2, 3," | 4x9" Cast Iron | 1,000.00 |
| MS-952,3-G-1 | 2, 3," | 4x9" Nickel Bronze | 1,000.00 |



Typical Installation

Options for MS-950:

| Suffix | Description | List Price |
|--------|---------------------------|------------|
| -8 | Ball Flat Backwater Valve | \$703.50 |

MS-8000

Fresh Air Inlet

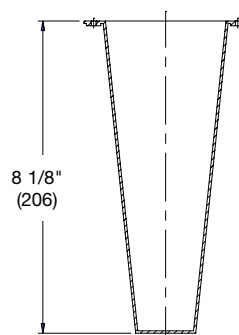
| Model Number | EDP# | Size | Material | Wt., Lbs. | List Price |
|--------------|---------|----------|---------------|-----------|------------|
| MS-8034 | 8186273 | 3" to 4" | Nickel Bronze | 3 | \$1,126.00 |
| MS-8056 | 8186274 | 5" to 6" | Nickel Bronze | 4 | 1,935.00 |



PS Series

Plastic Pipe Sleeves

| Model Number | EDP# | Size | Taper Degree | Carton Qty. | List Price |
|--------------|---------|--------|--------------|-------------|------------|
| PS-0151 | 8143770 | 1-1/2" | 3 | 336 | \$19.00 |
| PS-021 | 8143771 | 2" | 3 | 280 | 23.00 |
| PS-033 | 8143773 | 3" | 3 | 168 | 25.75 |
| PS-043 | 8143775 | 4" | 3 | 96 | 37.00 |
| PS-053 | 8143777 | 5" | 3 | 72 | 39.75 |
| PS-063 | 8143779 | 6" | 3 | 40 | 46.75 |
| PS-083 | 8143780 | 8" | 3 | n/a | 77.75 |
| PS-101 | 8143781 | 10" | 3 | n/a | 101.00 |
| PS-121 | 8143782 | 12" | 3 | n/a | 163.50 |



Consult factory for all pricing and applications outside of listed parameters.

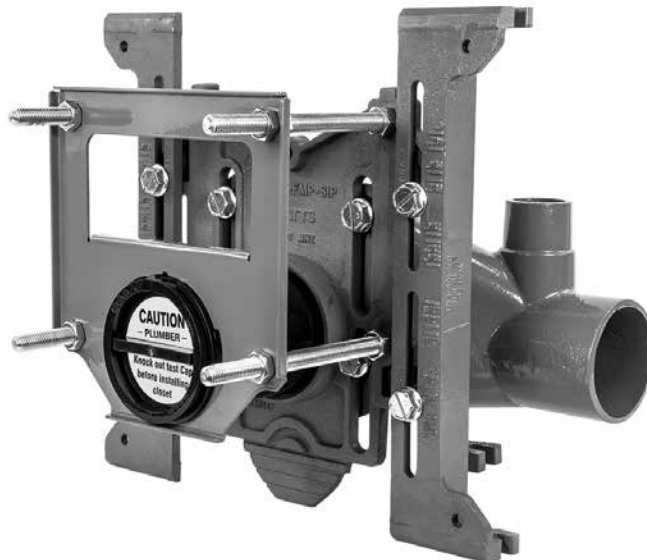
Prices do not include applicable taxes.

WATTS®

Fixture Carriers

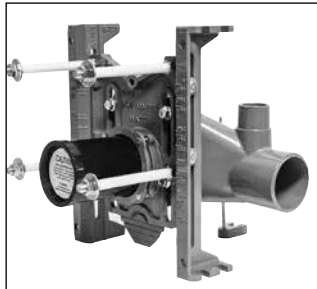
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Fixture Carriers

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



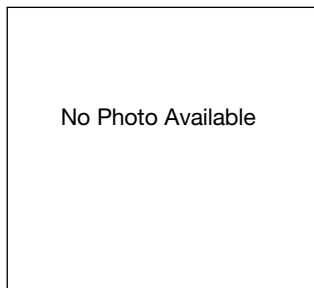
QT-101-L/R-AUX
Single Horizontal w/Aux. Inlet
QuickTurn™



ISCA-101-L/R-BF
Single Horizontal Floor Mounted
Back Outlet - Compression Seal



QT-101-L/R-BF
Single Horiz. Floor Mounted Back
Outlet - QuickTurn™



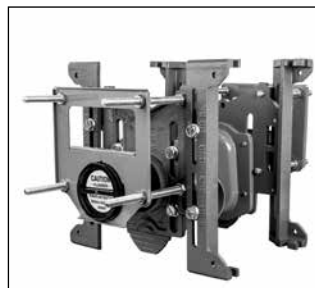
ISCA-101-L/R-TAS
Single Horiz. for 4" Rough-In
Compression Seal



QT-101-L/R-TAS
Single Horiz. for 4" Rough-In
QuickTurn™



ISCA-101-D
Back-to-Back Horizontal
Compression Seal



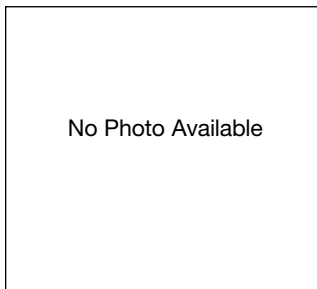
QT-101-D
Back-to-Back Horizontal
QuickTurn™



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™



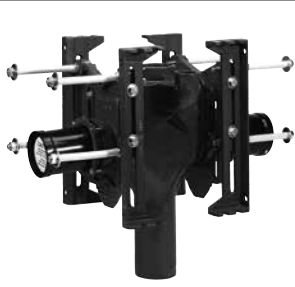
ISCA-121
Single Vertical
Compression Seal



QT-121
Single Vertical
QuickTurn™

Fixture Carriers

Pictorial Index



ISCA-121-D
Back-to-Back Vertical
Compression Seal



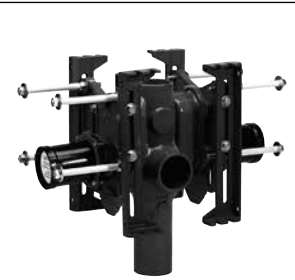
QT-121-D
QT QuickTurn™ Back-to-Back
Vertical Adj. Closet Carrier



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



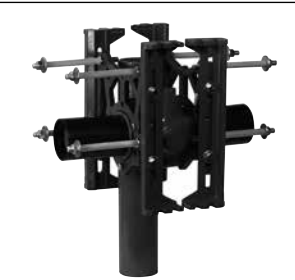
QT-141-4-D
Back-to-Back Thin Wall Vertical
- QuickTurn™



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

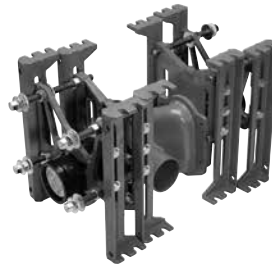
Pictorial Index



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



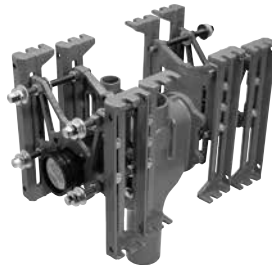
QT-102-D
1000 lb. Back-to-Back
Horizontal - QuickTurn™



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
750 lb. Back-to-Back Horizontal -
QuickTurn™

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

WATTS®

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
Concealed Arm Lavatory Carrier



TCA-411-D/TCA-411-D-WC
Back-to-Back Concealed Arm
"Track" Lavatory Carrier



WCA-411-D
Back-to-Back Concealed Arm
Lavatory Carrier



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



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

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



Fixture Carriers

Pictorial Index



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

Fixture Carriers

Recommendations

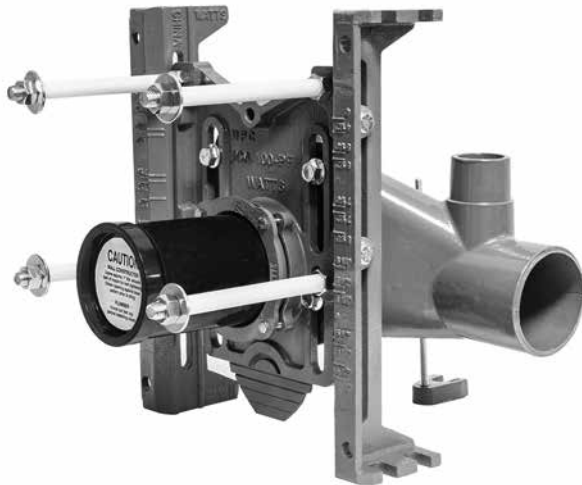
| Application | Product |
|--|--|
| Water closet standard 500 lb..... | ISCA/QT-101, ISCA/QT-121, ISCA/QT-131 Series |
| Water closet 750 lb..... | ISCA/QT-103, ISCA/QT-123, ISCA/QT-133 Series |
| Water closet bariatric 1000 lb..... | ISCA/QT-102, ISCA/QT-122, ISCA/QT-132 Series |
| Water closet/urinal 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

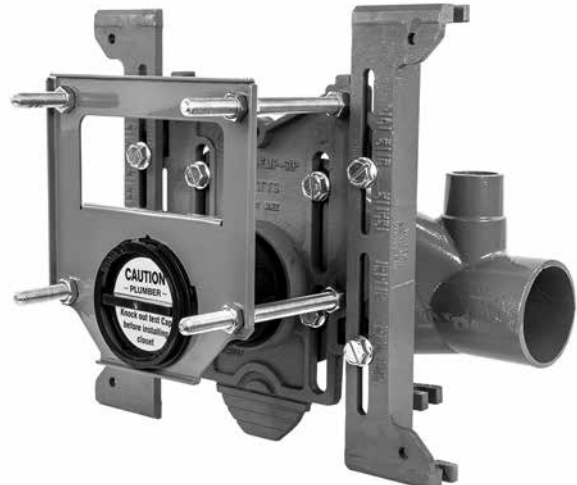
Water Closet Carriers support wall hung "off the floor" water closets. Carriers anchor to the structural floor behind the finished wall, supporting the fixture independent of the wall structure. Watts unique *Industry Standard* and QT QuickTurn™ closet carriers provide exceptional benefits for both pre-fabrication 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

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

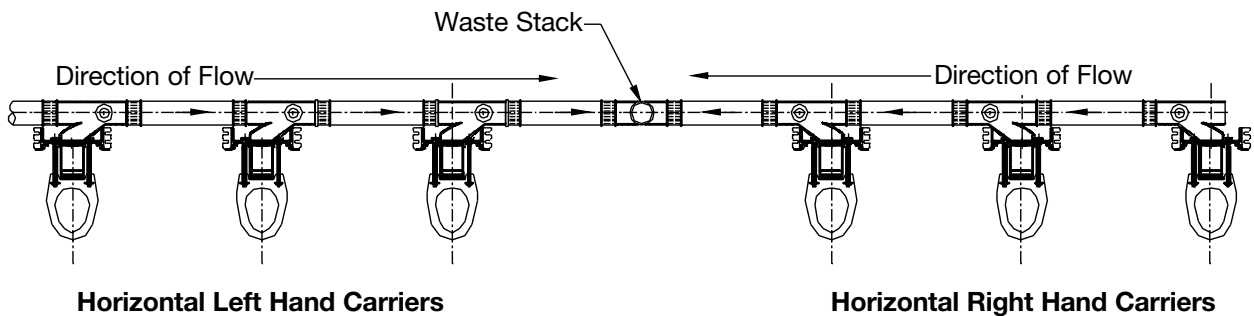
Closet carriers are often installed in groups (batteries) to accommodate multiple fixture and back-to-back bathroom groups. These factors should be considered in the specification of carrier batteries:

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.

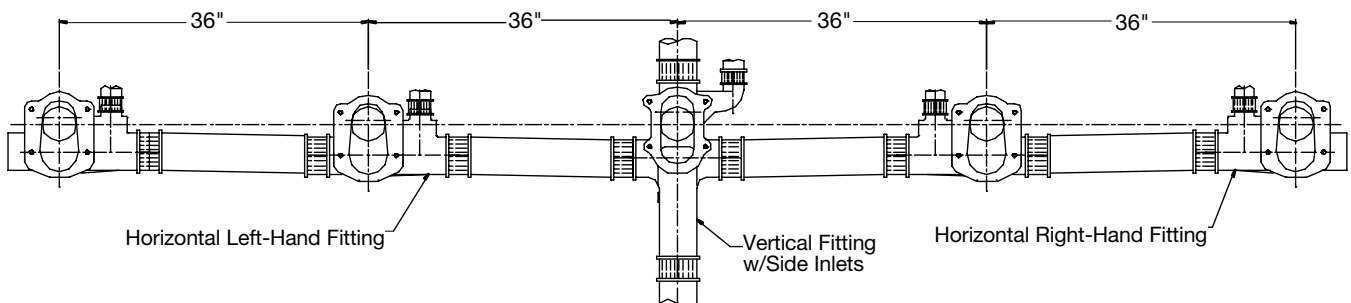
2. Horizontal carrier direction

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

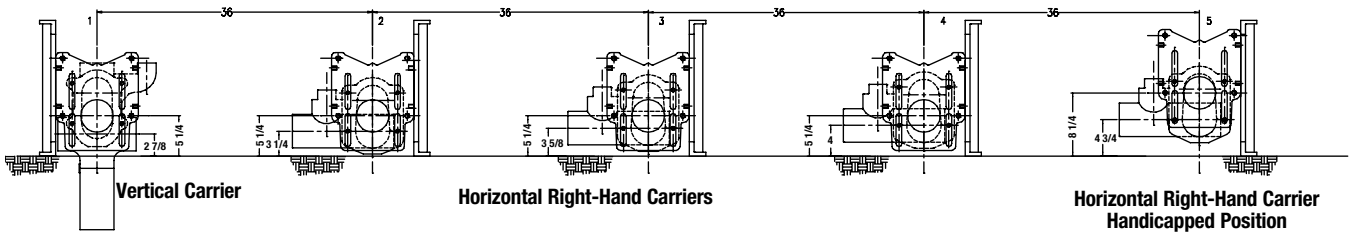
Recommendations

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 1/2" (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: Where:

$A = B - 7/16"$ A = distance nipple should extend beyond finished wall
 B = depth of closet horn

Stud Position: Where:

$X = Y + 5/8"$ x = distance stud should extend beyond finished wall
 Y = thickness of fixture flange

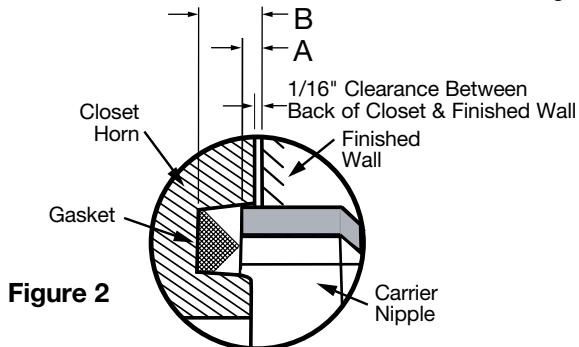


Figure 2

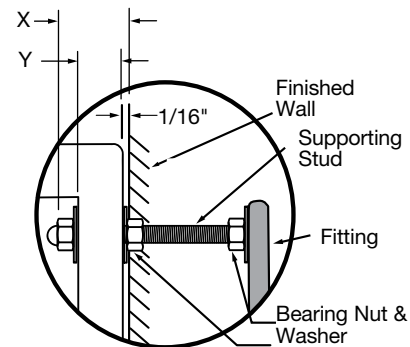


Figure 3

Consult factory for all pricing and applications outside of listed parameters.

Prices do not include applicable taxes.

WATTS®

Fixture Carriers

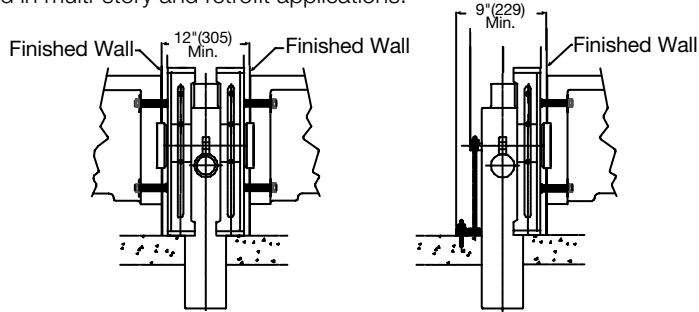
Recommendations

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)

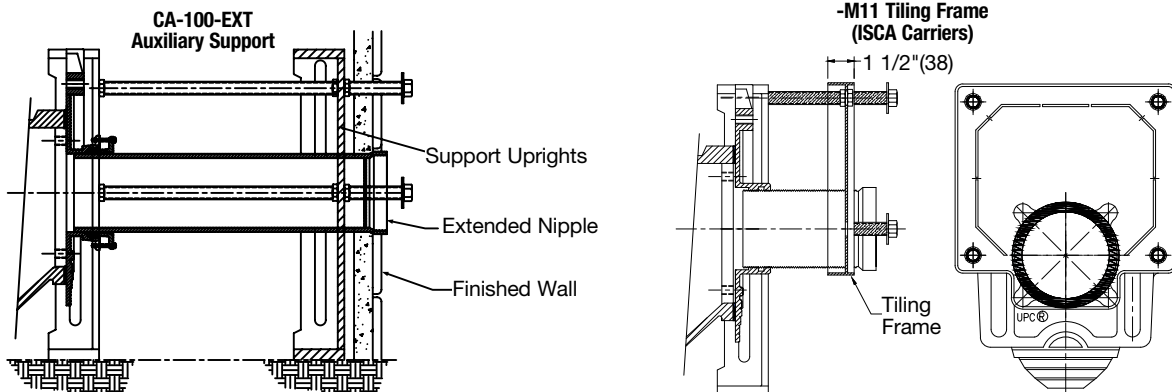
Additional support at the finished wall for wide pipe chases, recommended when the 'X' dimension exceeds 16". Supplied standard with a 24" nipple (cut to size). Extended 5/8" support rods are supplied by others.

-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.



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 | \$3,007.00 |
| ISCA-101-R | 77 | Single Horizontal - Right Hand | 3,007.00 |
| ISCA-101-L-AUX | 77 | Single Horizontal - LH - 2" Aux Conn. | 3,741.00 |
| ISCA-101-R-AUX | 77 | Single Horizontal - RH - 2" Aux Conn. | 3,741.00 |
| ISCA-101-D | 135 | Back-to-Back Horizontal | 5,617.00 |



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 | \$3,414.00 |
| ISCA-121-D | 160 | Back-to-Back Vertical | 6,024.00 |



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) | \$3,989.00 |
| ISCA-131-D | 160 | Back to Back Vertical - w/Side Inlet(s) | 6,468.00 |



ISCA-131



ISCA-131-D

See Pg. 213 for options
& parts for all ISCA & QT
models.

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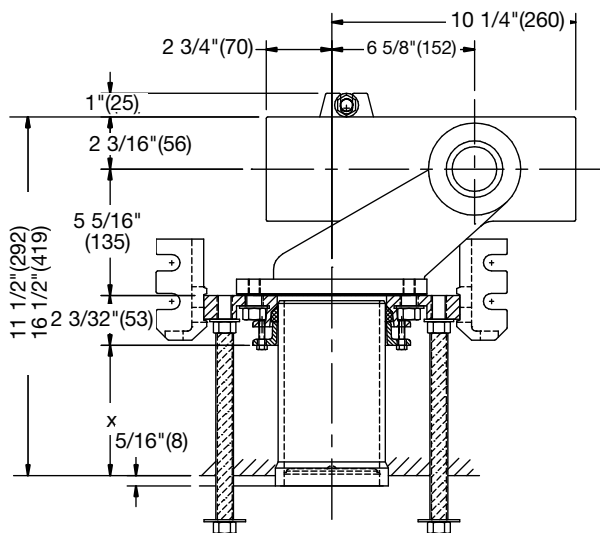
WATTS®

Industry Standard Water Closet Carriers

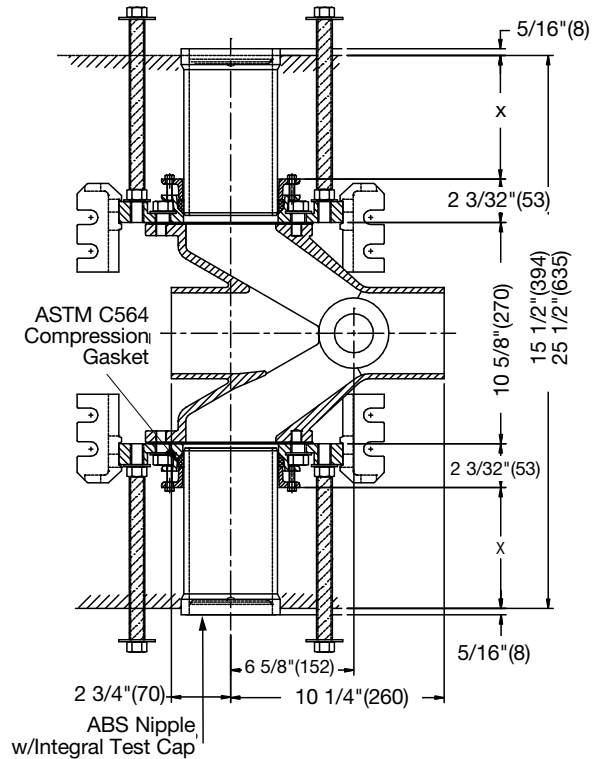
Water Closet Carrier Options & Parts

| Suffix | Description | List Price |
|---------------|------------------------------|------------|
| -3 | 3" Horizontal Fitting | -\$279.50 |
| -36 | Horizontal Long Barrel (36") | 873.50 |
| -BF | Assy. For Back Outlet Bowl | No Add |
| CA/QT-100-EXT | Auxiliary Support - Single | 999.50 |
| | Auxiliary Support - Double | 1,998.00 |
| -CI | 8" Cast Iron Nipple | No Add |
| -HS | Hub & Spigot Connections | No Add |
| -CA-N8-50-QT | 8" Cast Iron Nipple (QT) | 302.00 |
| -CA-N24-50-QT | 24" Cast Iron Nipple (QT) | 845.00 |
| -M1 | 24" Nipple - Single | 403.50 |
| | 24" Nipple - Double | 804.00 |

| Suffix | Description | List Price |
|--------|--------------------------------|------------|
| -M11 | Tiling Frame - Single (ISCA) | \$138.00 |
| | Tiling Frame - Double (ISCA) | 273.00 |
| -M16 | Vandal Proof Cap Nuts - Single | 218.50 |
| | Vandal Proof Cap Nuts - Double | 435.00 |
| -M20 | Flush Valve Support - Single | 148.00 |
| | Flush Valve Support - Double | 295.00 |
| -M23 | RH Side Inlet (141/151) | 743.50 |
| -M24 | LH Side Inlet (141/151) | 743.50 |
| -TAS | Faceplate for 4" Rough-In | No Add |



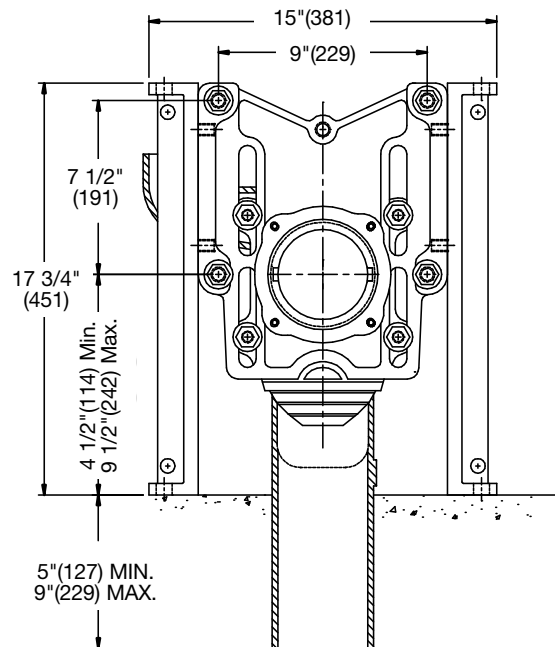
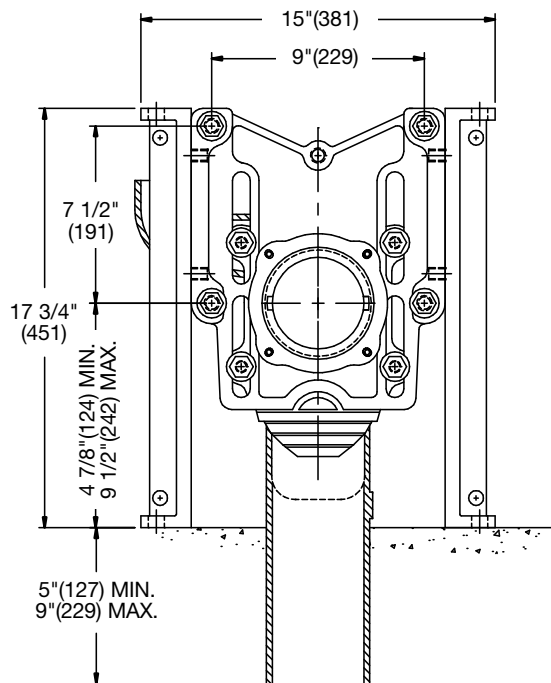
ISCA-101-L/R

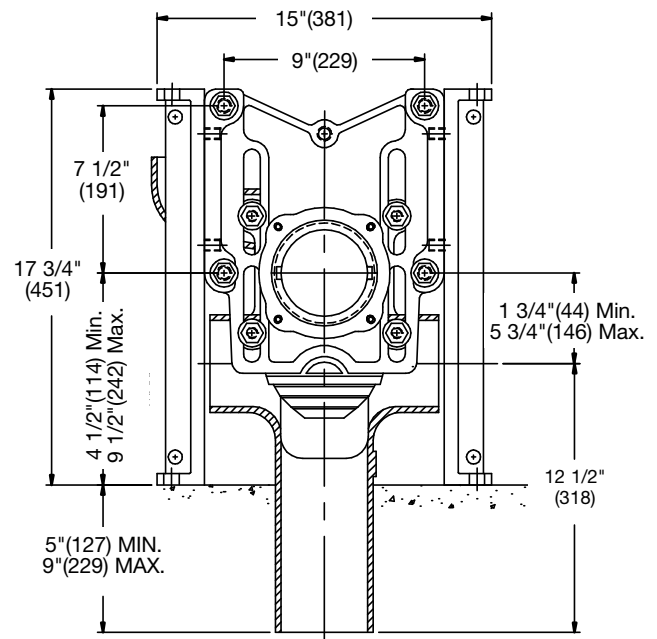


ISCA-101-D



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

ISCA-121

ISCA-131

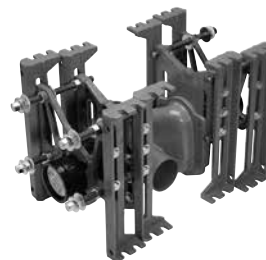
Industry Standard Water Closet Carriers

ISCA-102 Horizontal 1000 lb. Bariatric Closet Carrier

| Model Number | Wt. Lbs. | Description | List Price |
|--------------|----------|--------------------------------|------------|
| ISCA-102-L | 108 | Single Horizontal - Left Hand | \$8,628.00 |
| ISCA-102-R | 108 | Single Horizontal - Right Hand | 8,628.00 |
| ISCA-102-D | 186 | Back-to-Back Horizontal | 16,626.00 |



ISCA-102-L/R



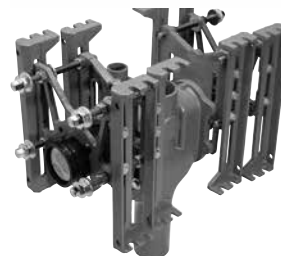
ISCA-102-D

ISCA-122 Vertical 1000 lb. Bariatric Closet Carrier

| Model Number | Wt. Lbs. | Description | List Price |
|--------------|----------|-----------------------|------------|
| ISCA-122 | 117 | Single Vertical | \$9,491.00 |
| ISCA-122-D | 195 | Back to Back Vertical | 18,291.00 |



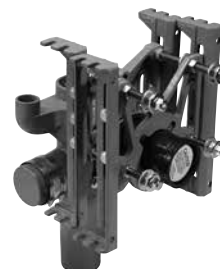
ISCA-122



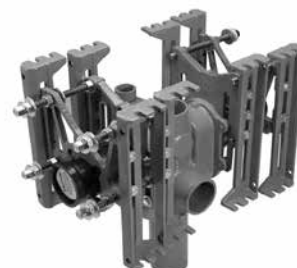
ISCA-122-D

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) | \$10,062.00 |
| ISCA-132-D | 199 | Back to Back Vertical w/Side Inlet(s) | 18,848.00 |



ISCA-132



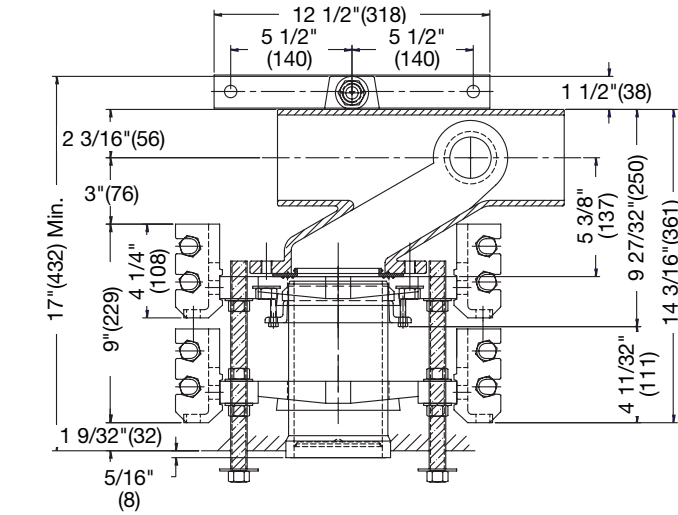
ISCA-132-D

See Pg. 213 for
options & parts for all
ISCA & QT models.

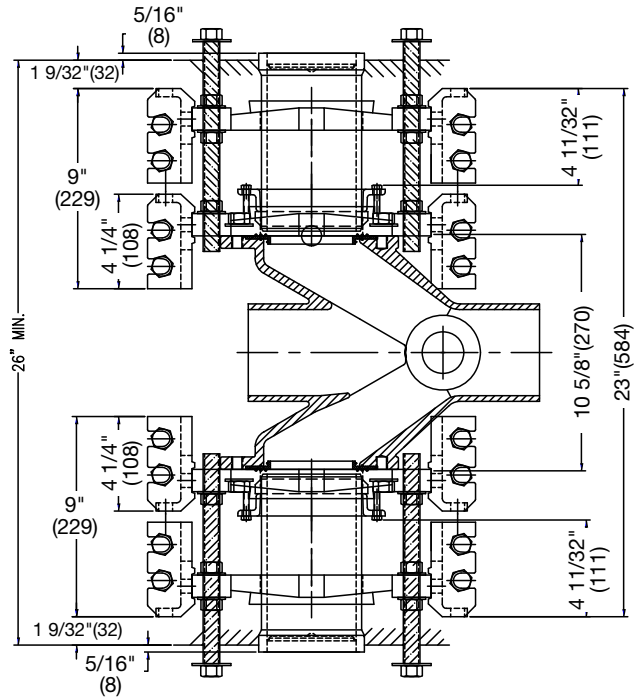
Consult factory for all pricing and applications outside of listed parameters.
Prices do not include applicable taxes.

WATTS®

Industry Standard Water Closet Carriers



ISCA-102-L/R

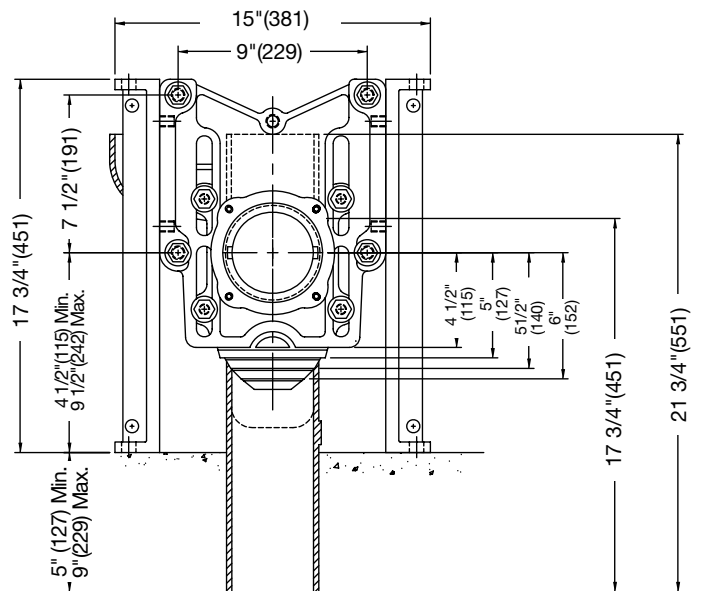
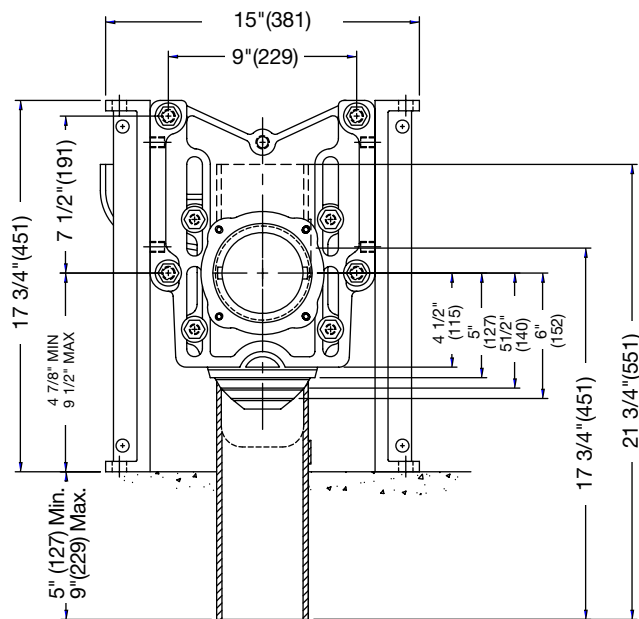
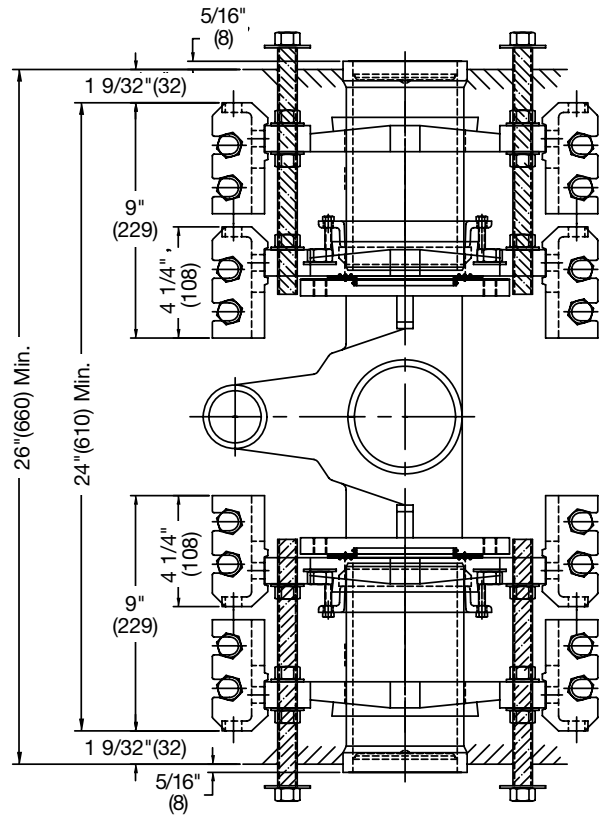
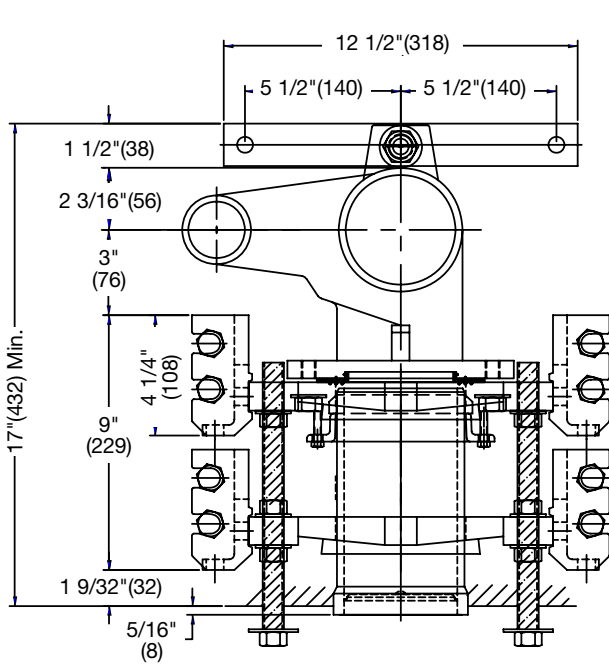


ISCA-102-D



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

Industry Standard Water Closet Carriers



ISCA-122

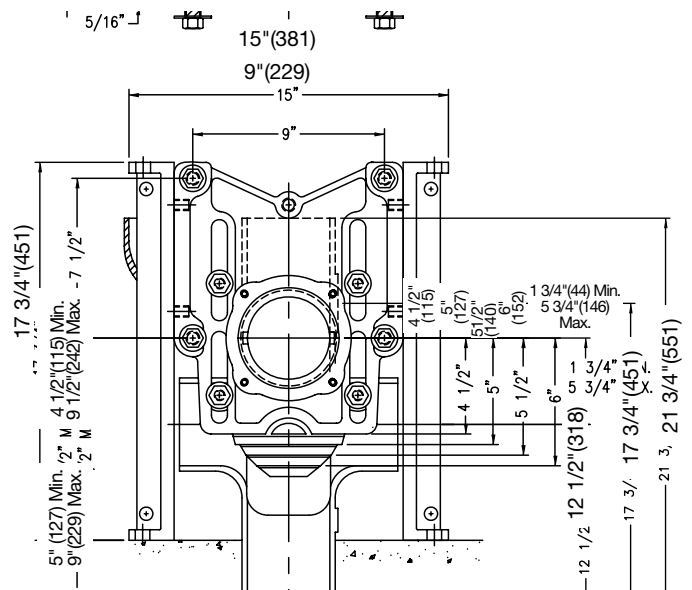
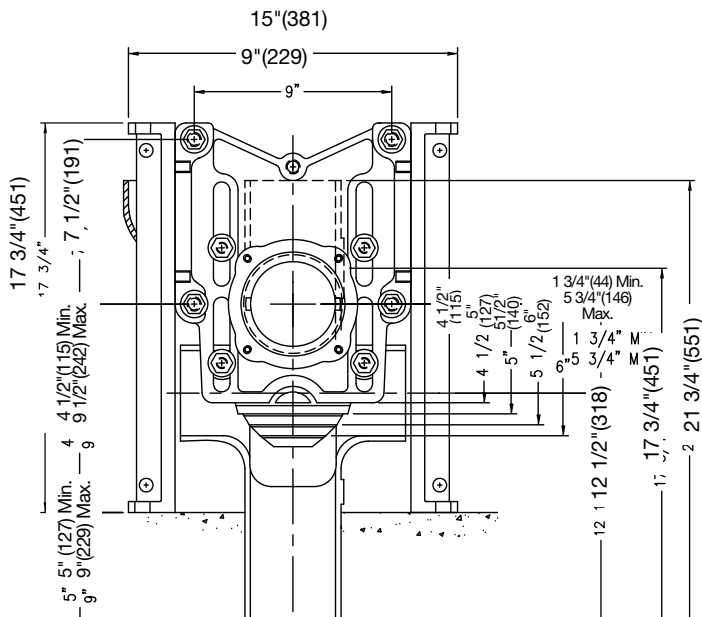
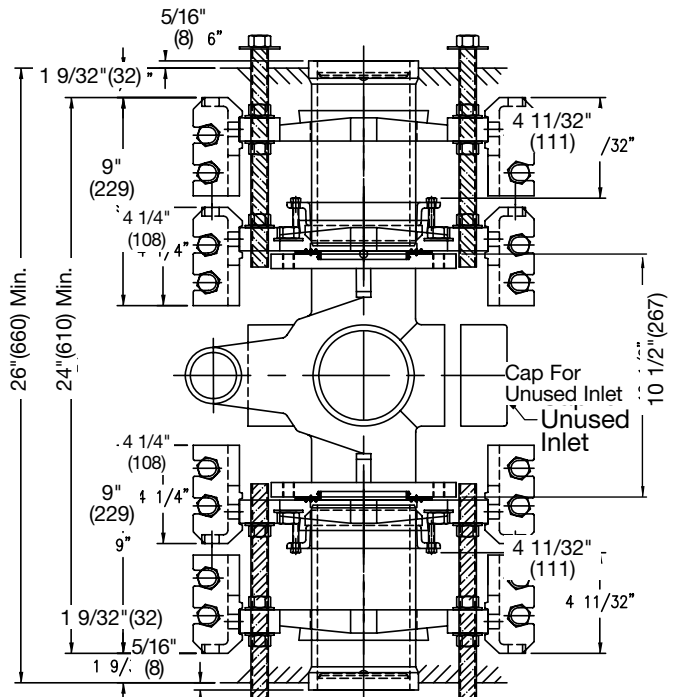
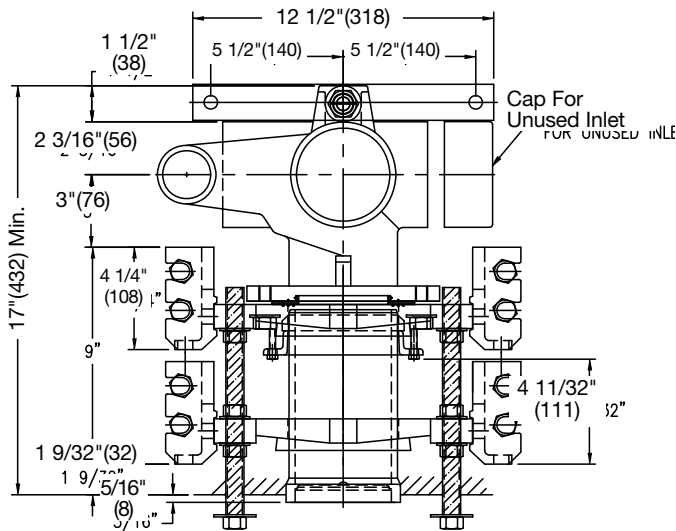
ISCA-122-D

Consult factory for all pricing and applications outside of listed parameters.

Prices do not include applicable taxes.



Industry Standard Water Closet Carriers



ISCA-132

ISCA-132-D

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 | \$6,215.00 |
| ISCA-103-R | 77 | Single Horizontal - Right Hand | 6,215.00 |
| ISCA-103-D | 135 | Back-to-Back Horizontal | 11,758.00 |



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 | \$6,902.00 |
| ISCA-123-D | 160 | Back-to-Back Vertical | 13,292.00 |



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) | \$7,469.00 |
| ISCA-133-D | 160 | Back-to-Back Vertical w/Side Inlet(s) | 13,849.00 |



ISCA-133



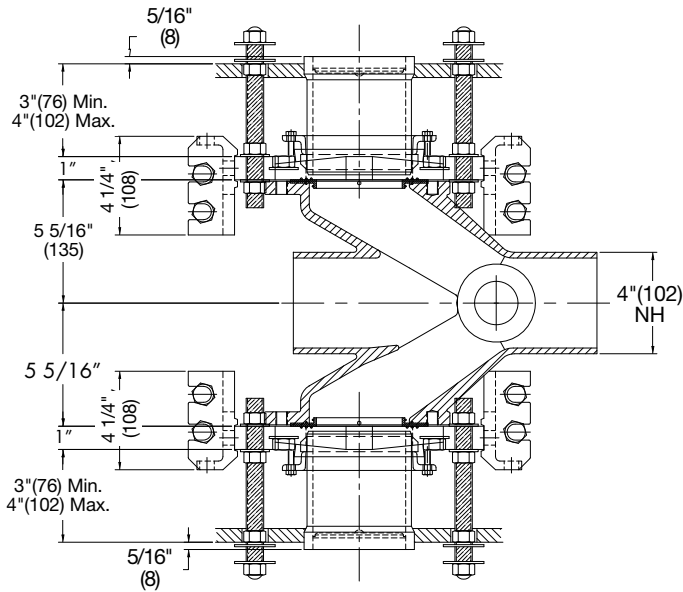
ISCA-133-D

See Pg. 213 for
options & parts for all
ISCA & QT models.

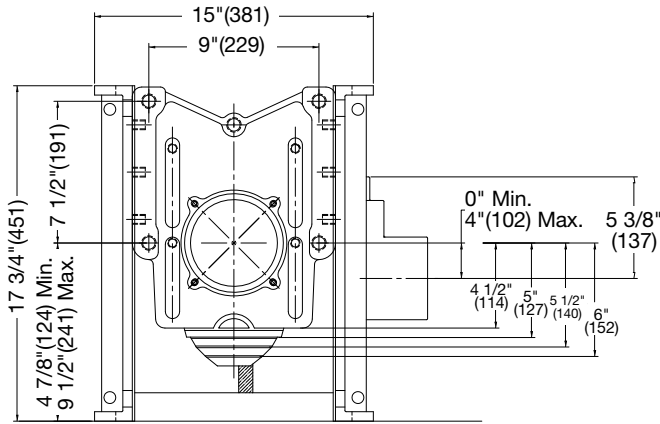
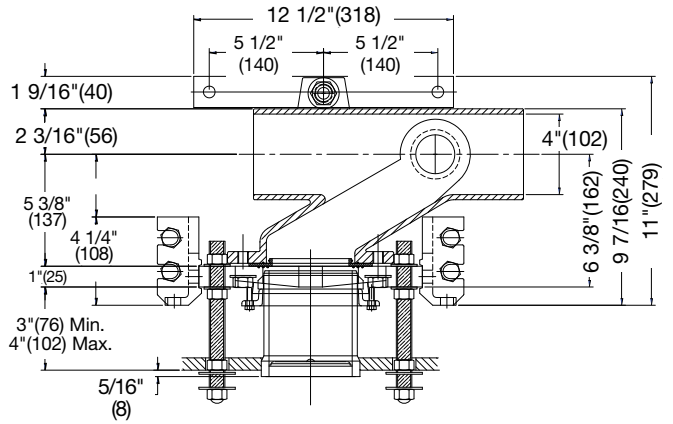
Consult factory for all pricing and applications outside of listed parameters.
Prices do not include applicable taxes.

WATTS®

Industry Standard Water Closet Carriers

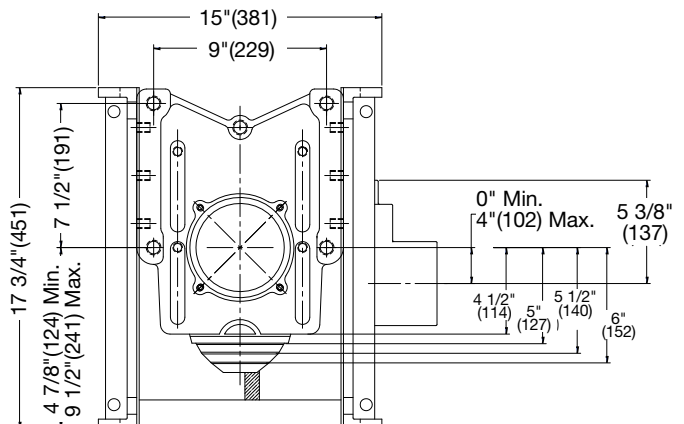


Top View



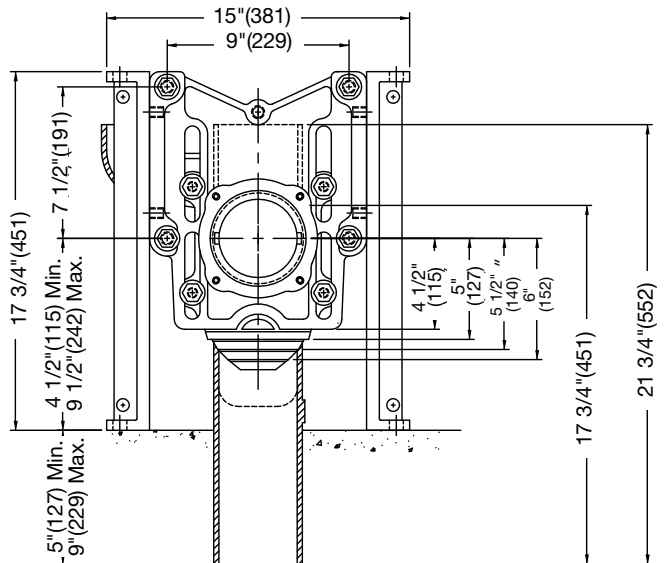
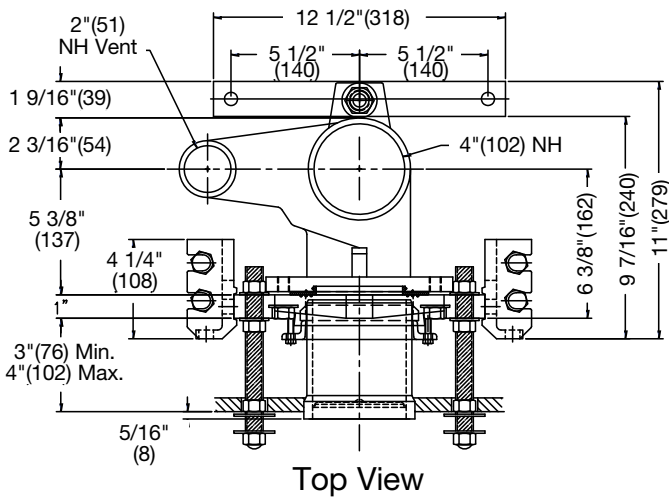
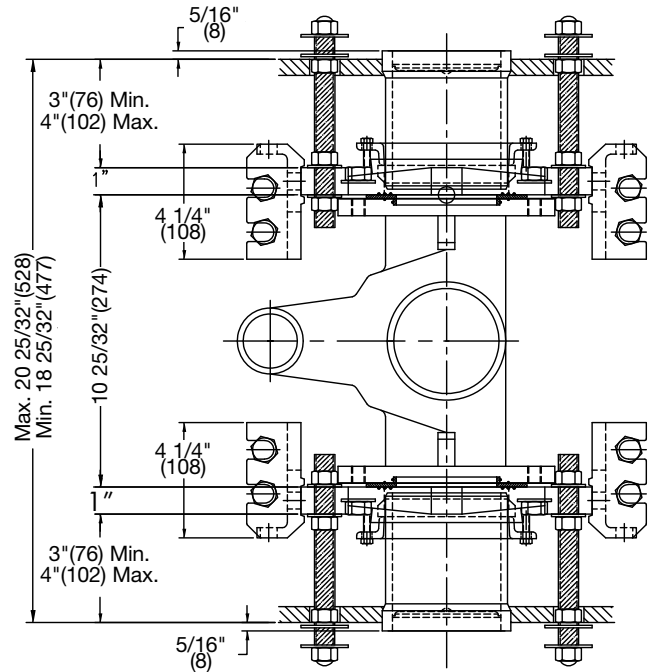
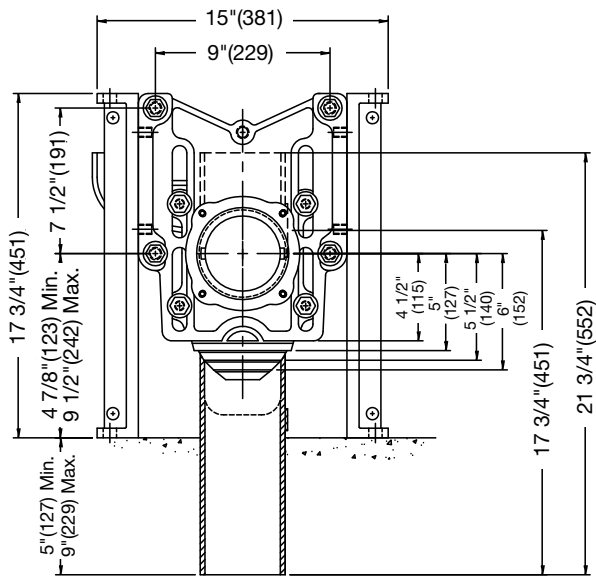
Front View

ISCA-103-D



ISCA-103-L/R

Industry Standard Water Closet Carriers



ISCA-123

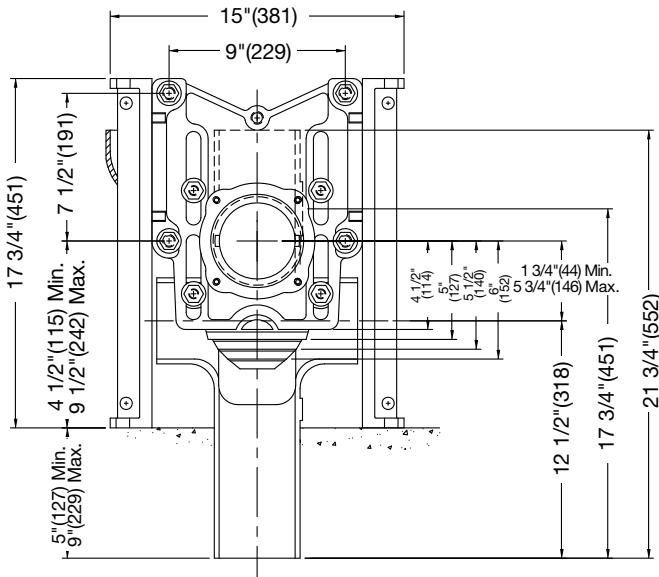
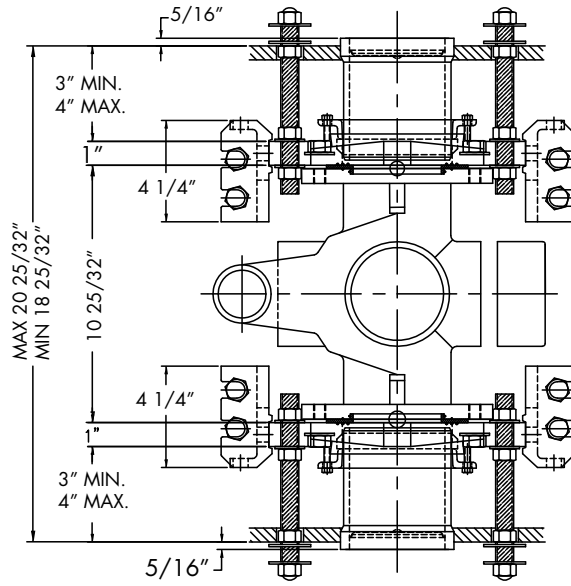
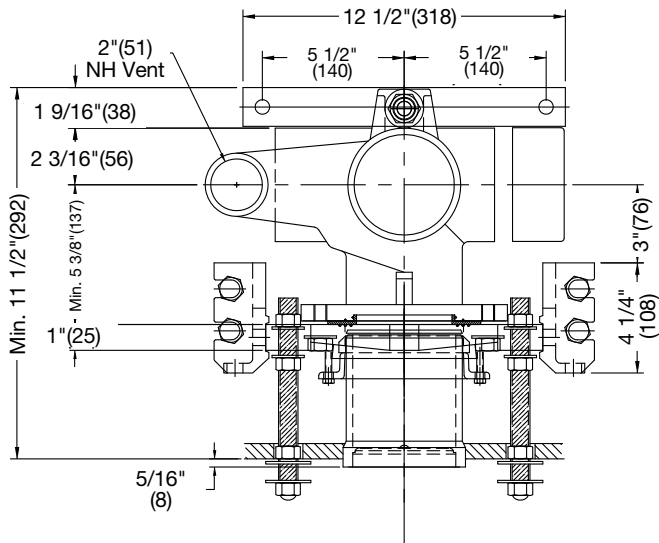
ISCA-123-D

Consult factory for all pricing and applications outside of listed parameters.

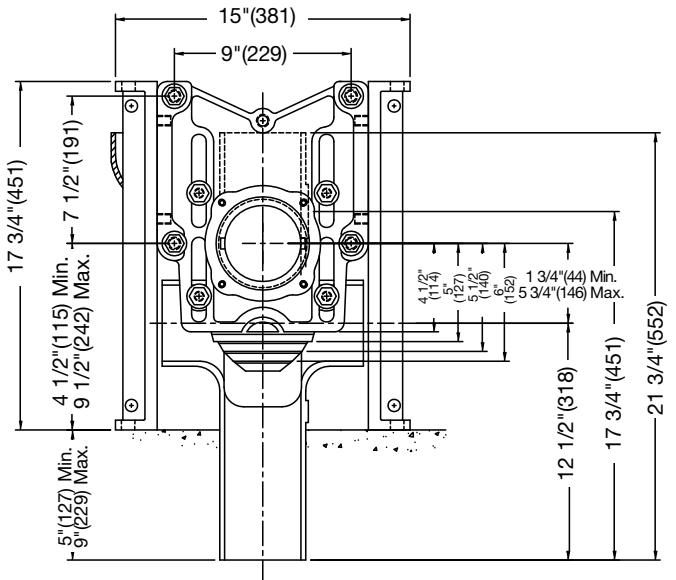
Prices do not include applicable taxes.



Industry Standard Water Closet Carriers



ISCA-133-L/R



ISCA-133-D



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

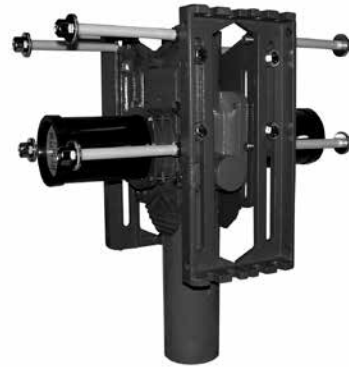
Industry Standard Thin Wall Water Closet Carriers

ISCA-141 Thin Wall 500 lb. Closet Carrier

| Model Number | Wt. Lbs. | Description | List Price |
|-----------------|----------|---------------------------------|------------|
| ISCA-141-3 | 52 | 3" Waste, 2" Vent | \$2,705.00 |
| ISCA-141-4-V2 | 62 | 4" Waste, 2" Vent | 2,705.00 |
| ISCA-141-4-V4 | 62 | 4" Waste, 4" Vent | 2,705.00 |
| ISCA-141-4-D-V2 | 94 | Back-to-Back, 4" Waste, 2" Vent | 4,629.00 |
| ISCA-141-4-D-V4 | 94 | Back-to-Back, 4" Waste, 4" Vent | 4,629.00 |



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 | \$2,705.00 |
| ISCA-151-R | 72 | Single - Right Hand | 2,705.00 |
| ISCA-151-D | 107 | Back-to-Back | 4,629.00 |



ISCA-151

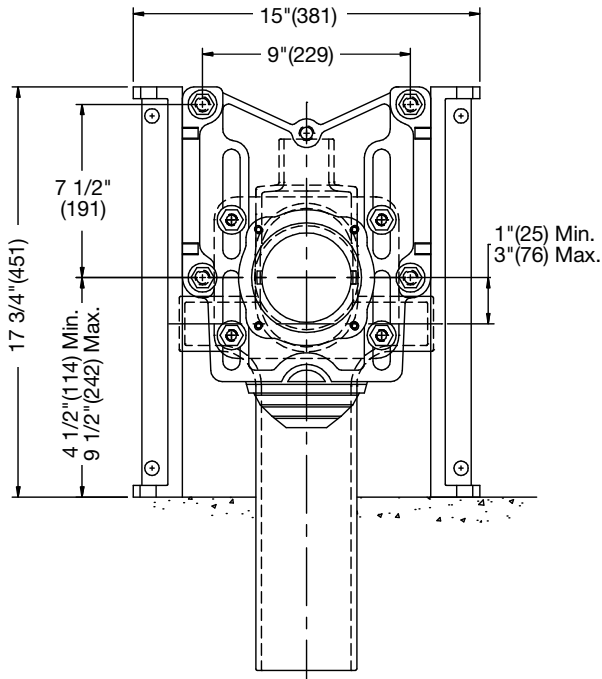
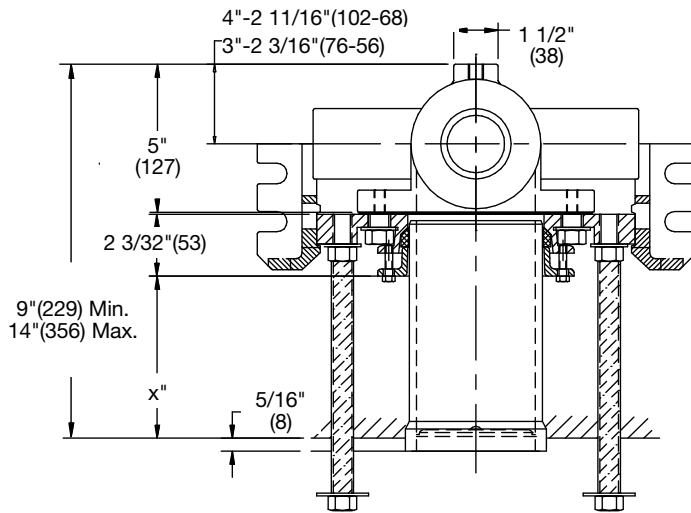


ISCA-151-D

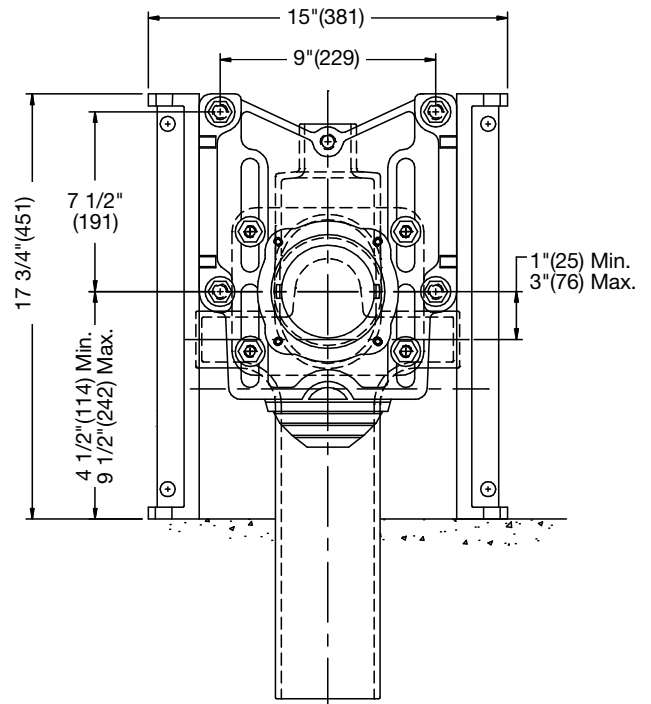
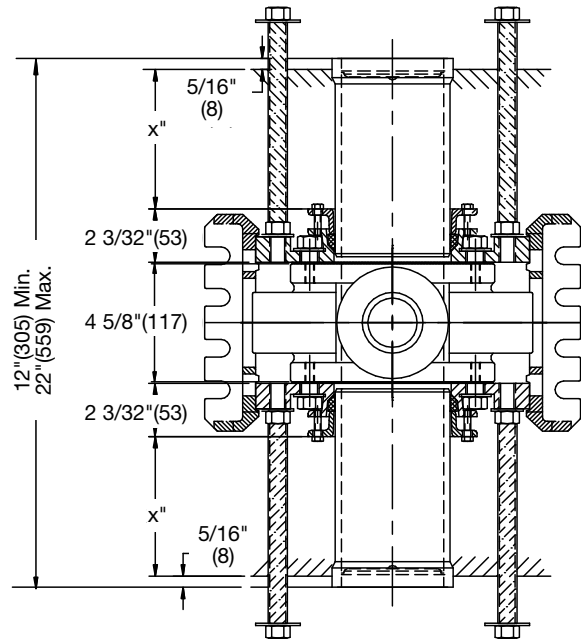
Consult factory for all pricing and applications outside of listed parameters.
Prices do not include applicable taxes.

WATTS®

Industry Standard Thin Wall Water Closet Carriers



ISCA-141

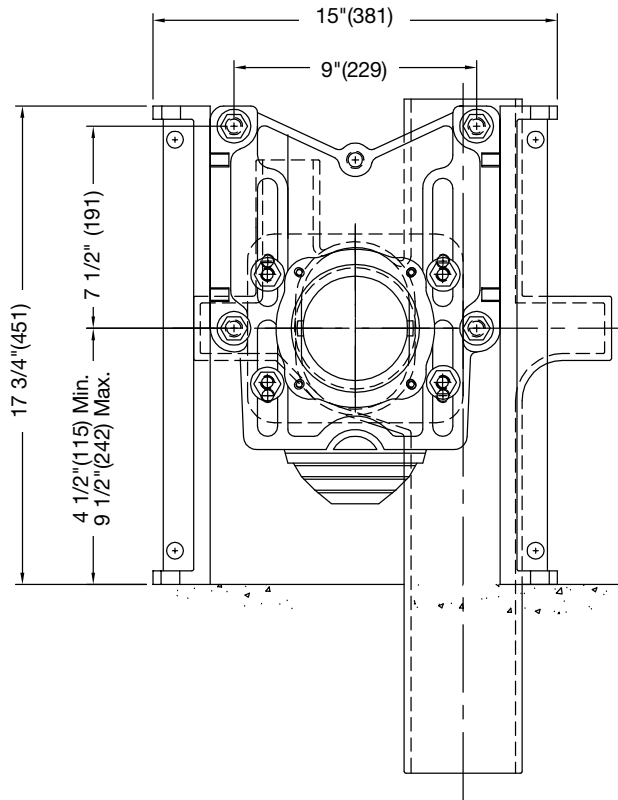
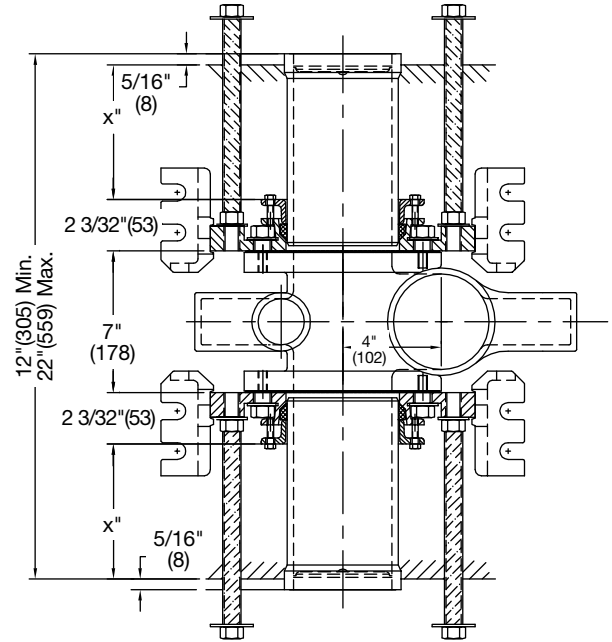
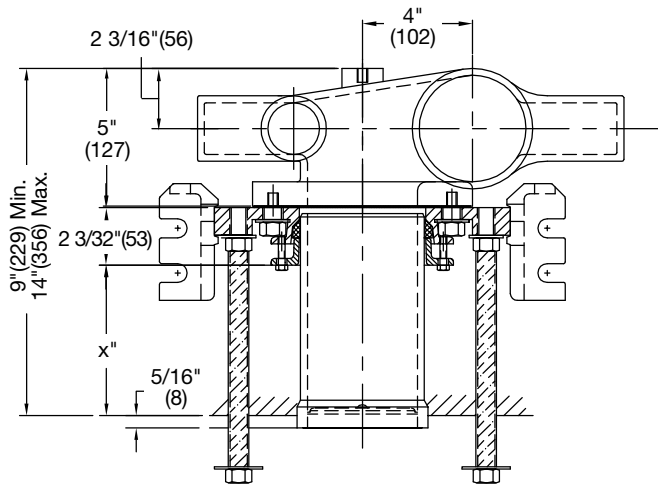


ISCA-141-D

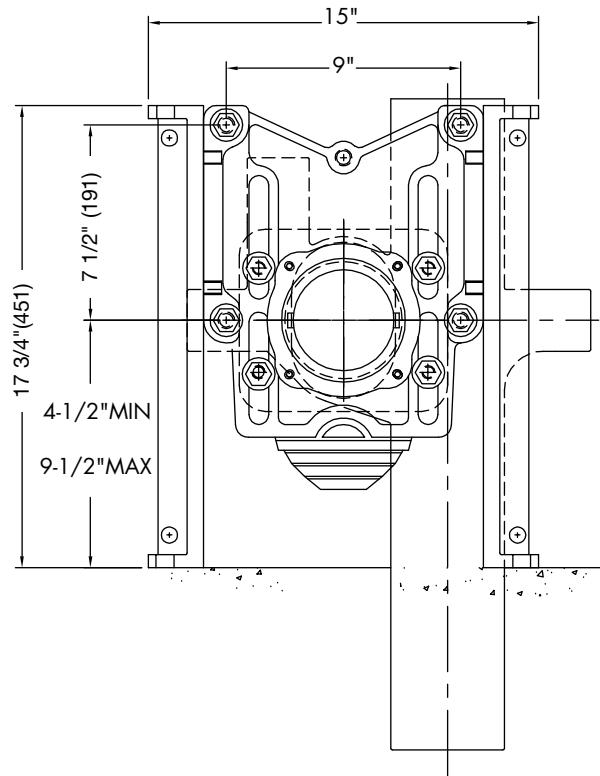


Consult factory for all pricing and applications outside of listed parameters.
Prices do not include applicable taxes.

Industry Standard Thin Wall Water Closet Carriers



ISCA-151



ISCA-151-D

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 | \$3,231.00 |
| QT-101-R | 66 | Single Horizontal - Right Hand | 3,231.00 |
| QT-101-L-AUX | 67 | Single Horizontal - LH - 2" Aux Conn. | 4,096.00 |
| QT-101-R-AUX | 67 | Single Horizontal - RH - 2" Aux Conn. | 4,096.00 |
| QT-101-D | 122 | Back-to-Back Horizontal | 6,040.00 |



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 | \$3,667.00 |
| QT-121-D | 132 | Back-to-Back Vertical | 6,476.00 |



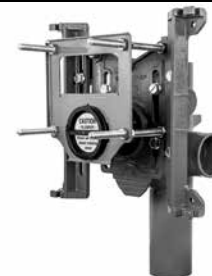
QT-121



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) | \$4,287.00 |
| QT-131-D | 138 | Back to Back Vertical - w/Side Inlet(s) | 7,081.00 |



QT-131



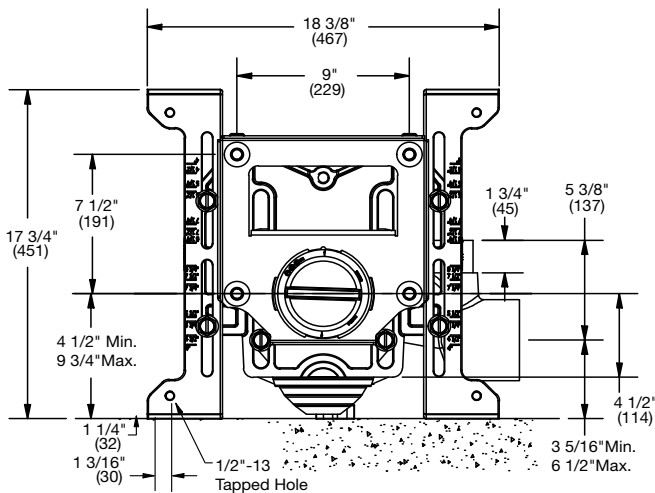
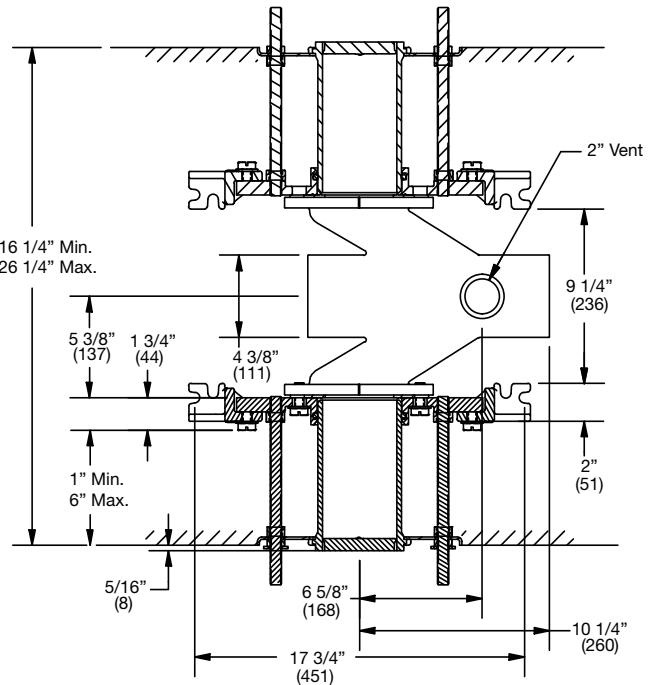
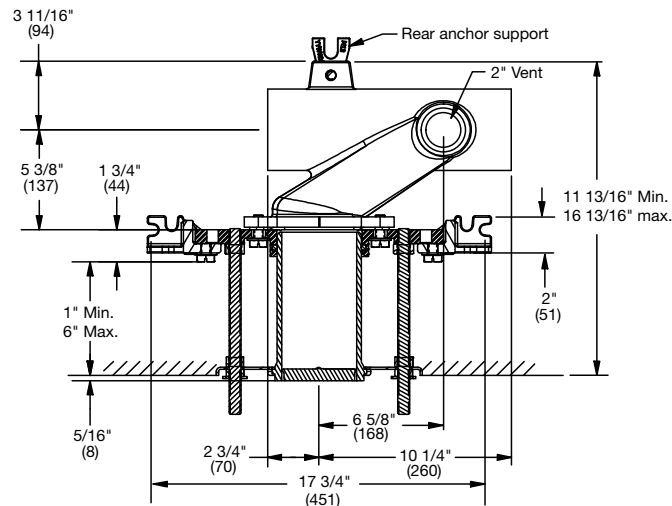
QT-131-D

See Pg. 213 for options
& parts for all ISCA & QT
models.

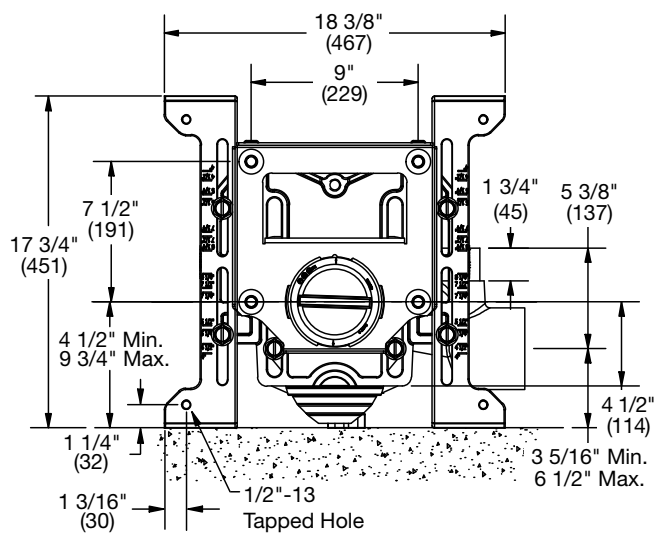
QT QuickTurn™ Water Closet Carriers

QT-CFP-5.5T-KIT QT Carrier Trim Kits

| Model Number | EDP | Wt. Lbs. | Description | List Price |
|-----------------|---------|----------|-----------------------------|------------|
| QT-CFP-5.5T-KIT | 8201721 | 44 | QT Carrier FP Pack 5.5T-KIT | \$2,953.00 |

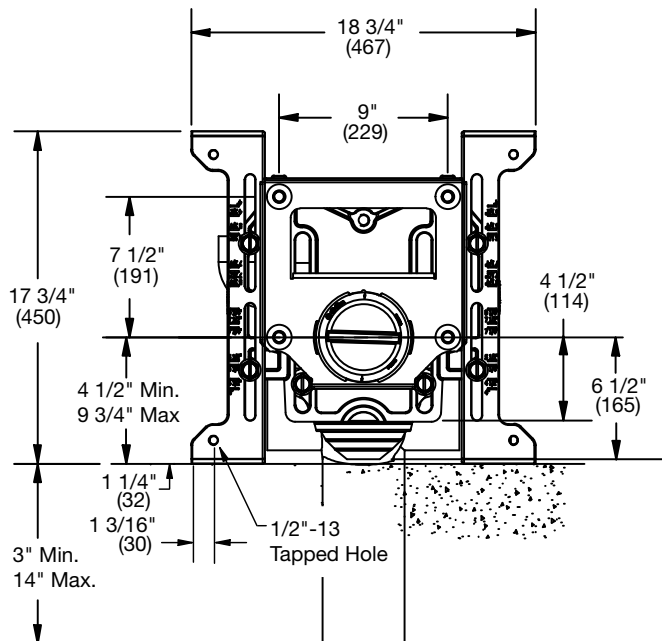
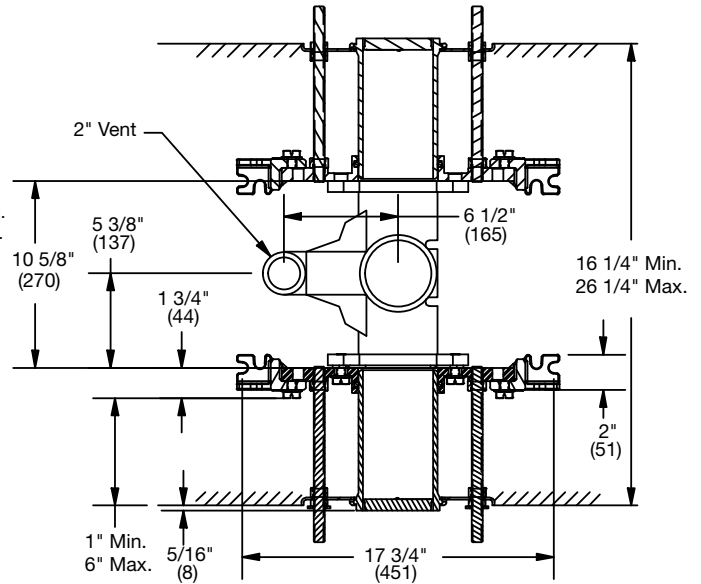
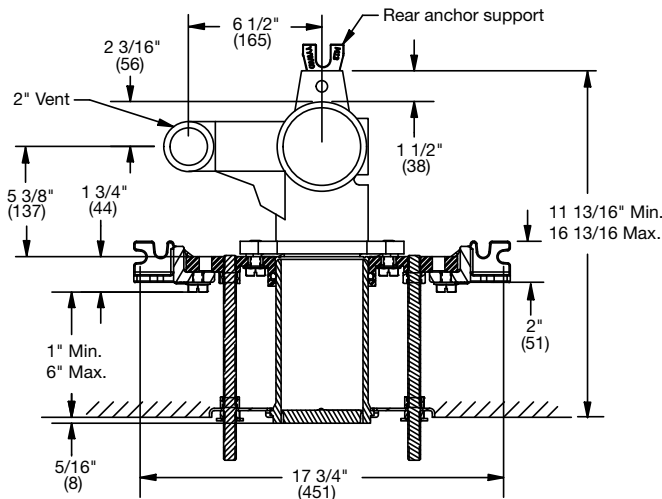


QT-101-L/R

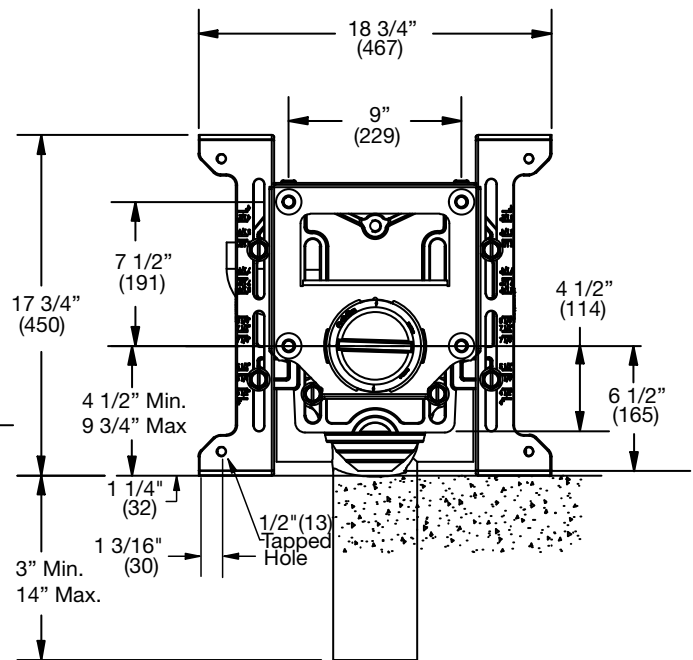


QT-101-D

QT QuickTurn™ Water Closet Carriers



QT-121

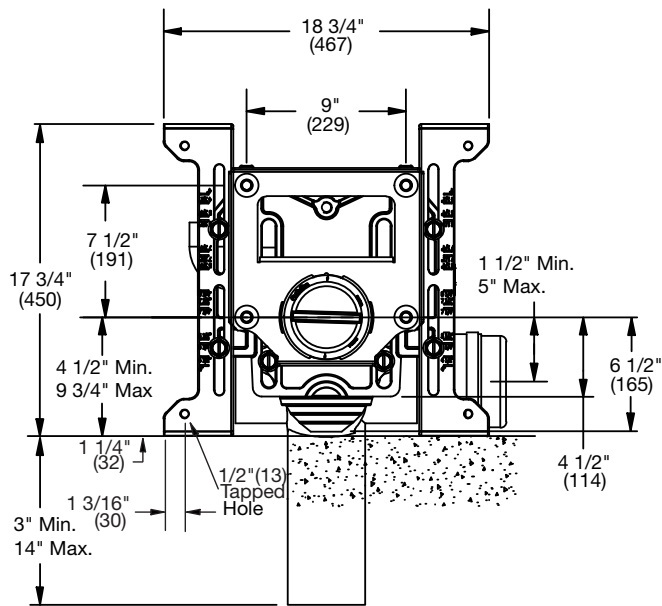
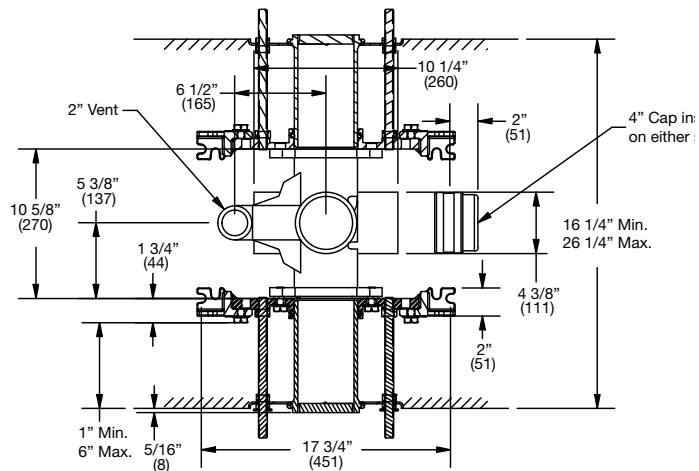
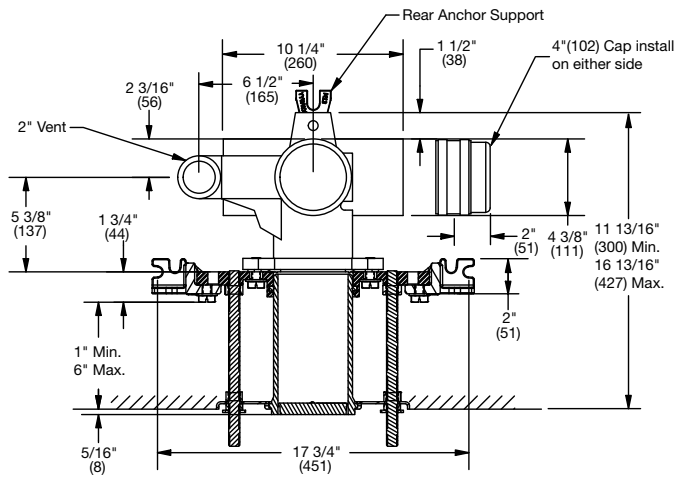


QT-121-D

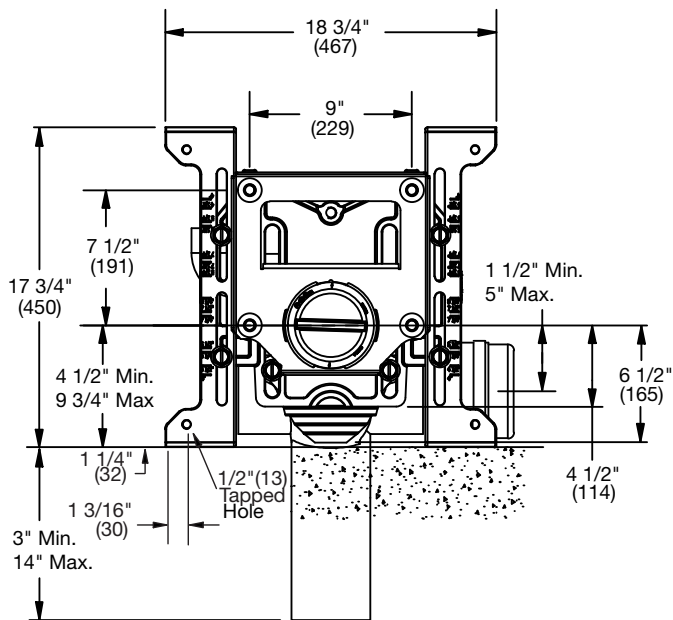


Consult factory for all pricing and applications outside of listed parameters.
Prices do not include applicable taxes.

QT QuickTurn™ Water Closet Carriers



QT-131



QT-131-D

Consult factory for all pricing and 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 | \$8,106.00 |
| QT-102-R | 104 | Single Horizontal - Right Hand | 8,106.00 |
| QT-102-D | 198 | Back-to-Back Horizontal | 15,626.00 |



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 | \$8,920.00 |
| QT-122-D | 208 | Back-to-Back Vertical | 17,191.00 |



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) | \$9,453.00 |
| QT-132-D | 214 | Back-to-Back Vertical w/Side Inlet(s) | 17,712.00 |



QT-132



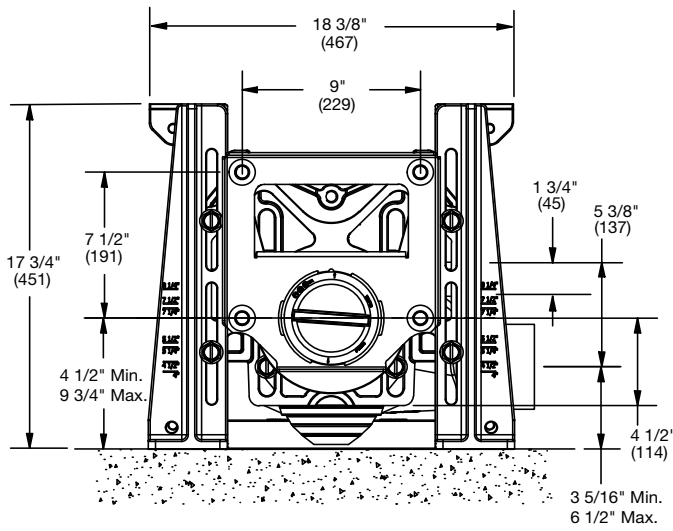
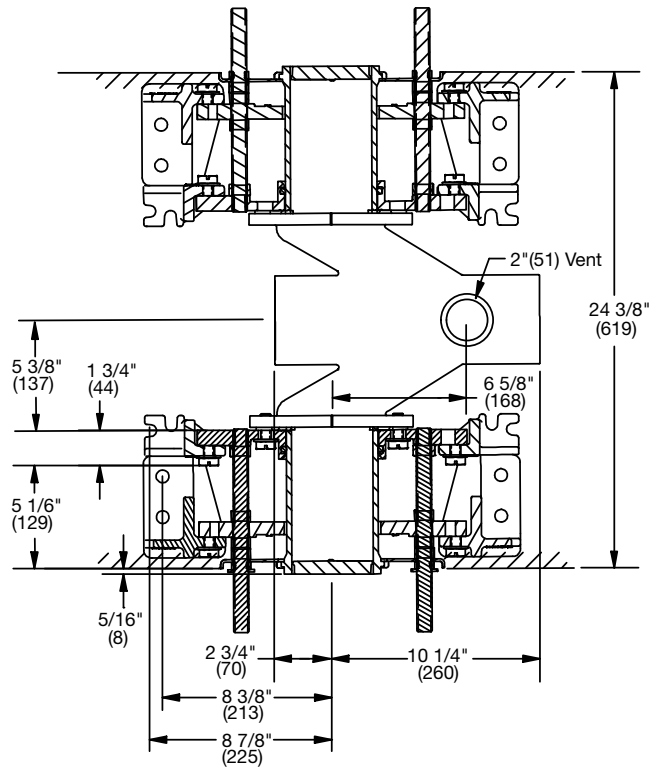
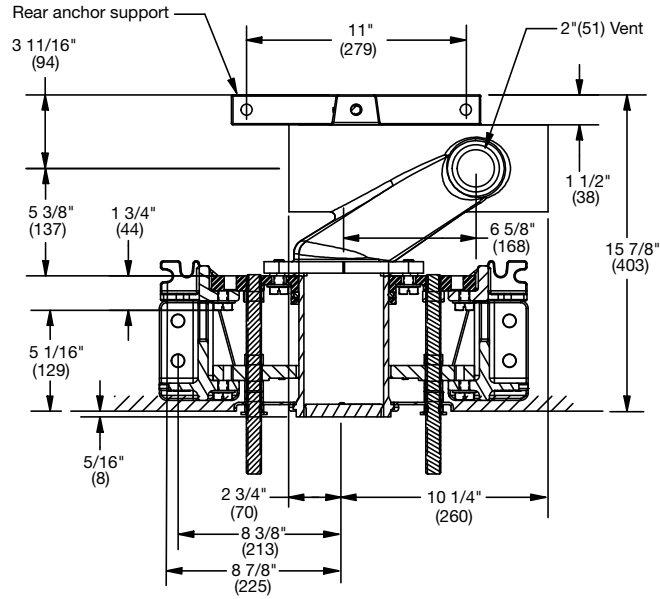
QT-132-D

See Pg. 213 for options
& parts for all ISCA & QT
models.

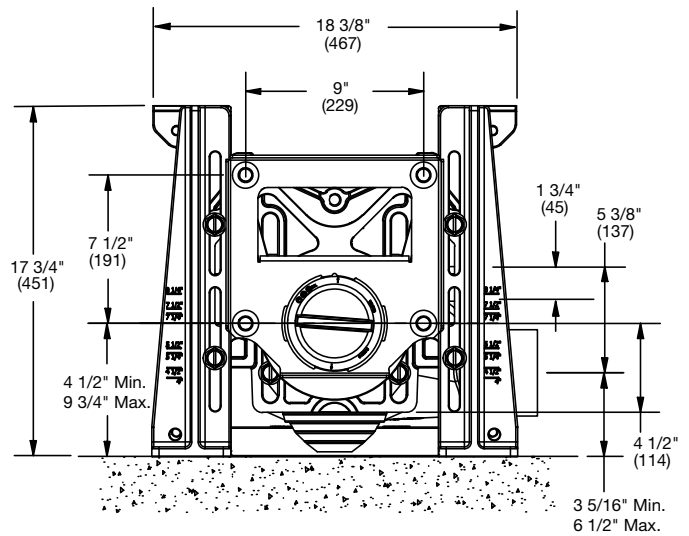


Consult factory for all pricing and applications outside of listed parameters.
Prices do not include applicable taxes.

QT QuickTurn™ Water Closet Carriers



QT-102-LR



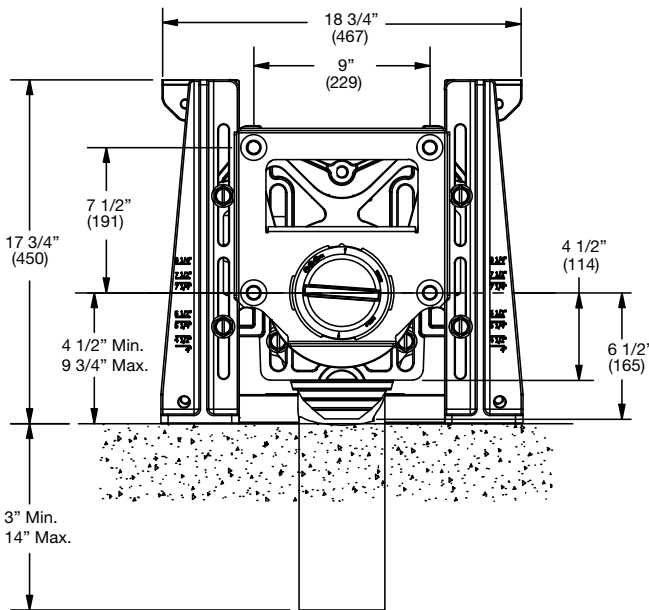
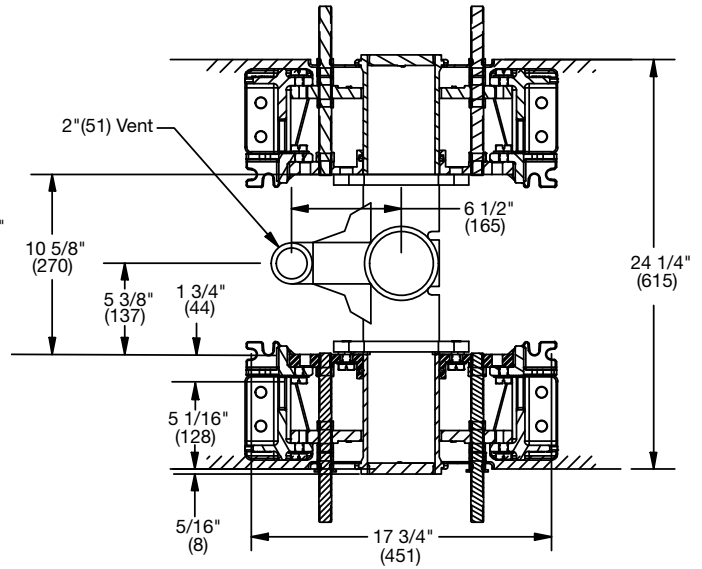
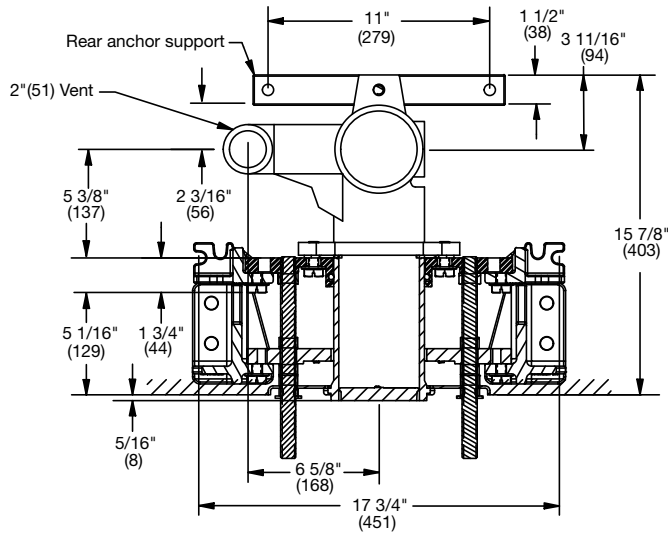
QT-102-D

Consult factory for all pricing and applications outside of listed parameters.

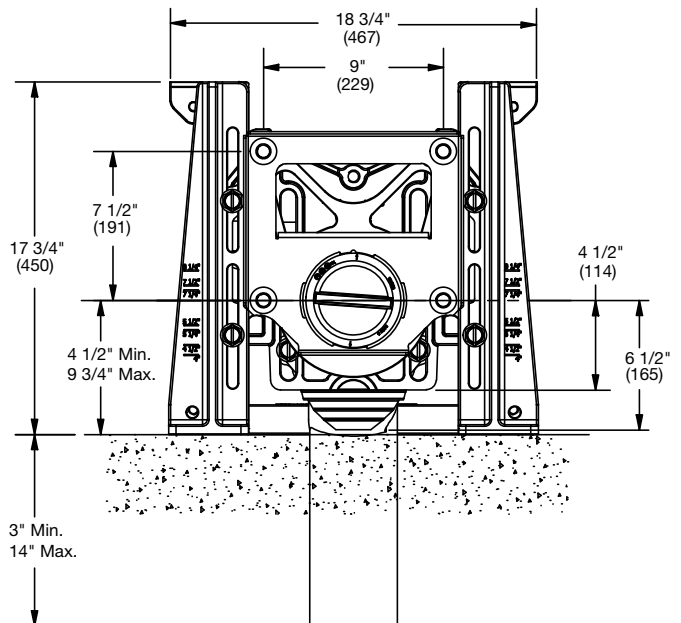
Prices do not include applicable taxes.



QT QuickTurn™ Water Closet Carriers

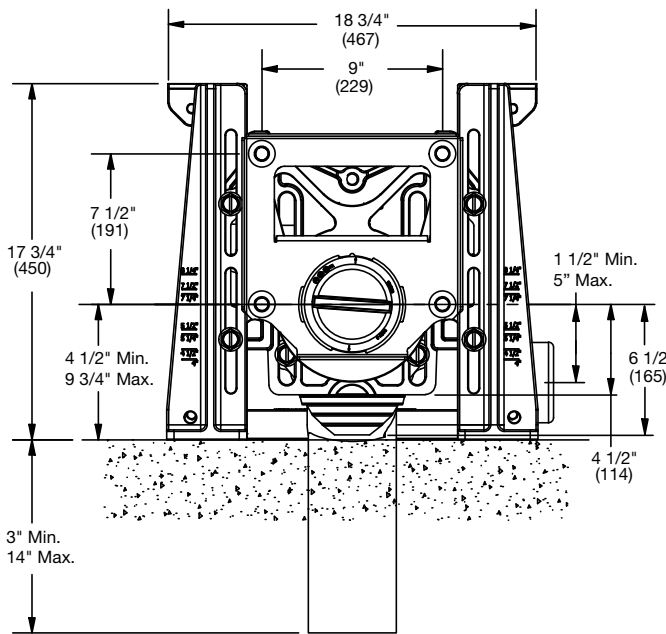
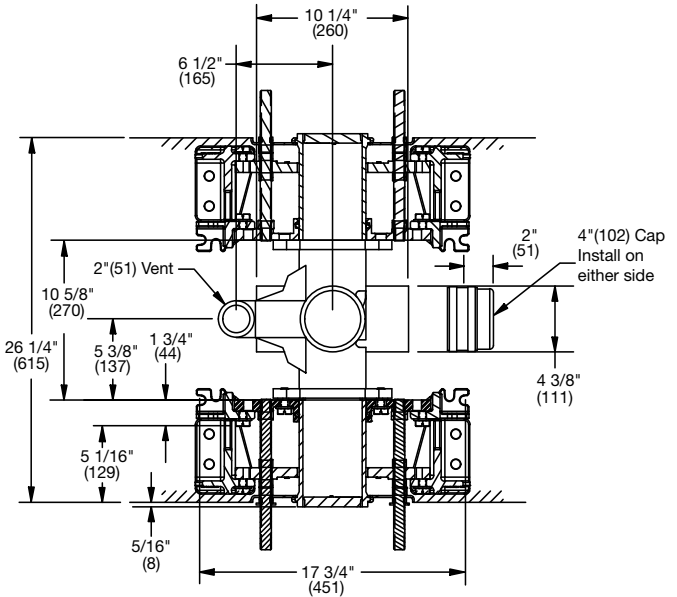
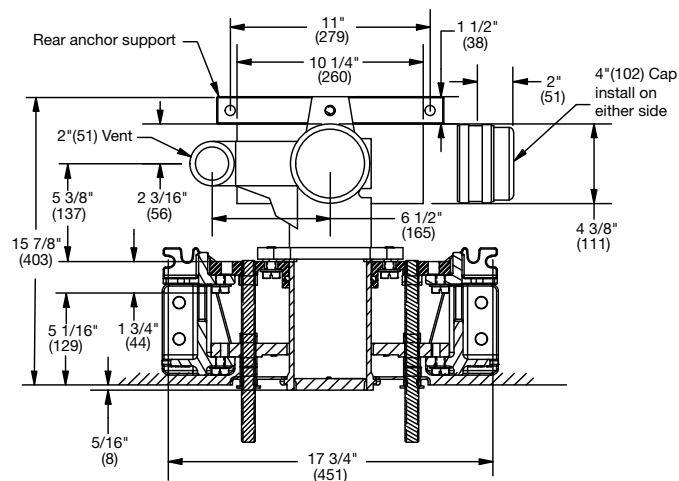


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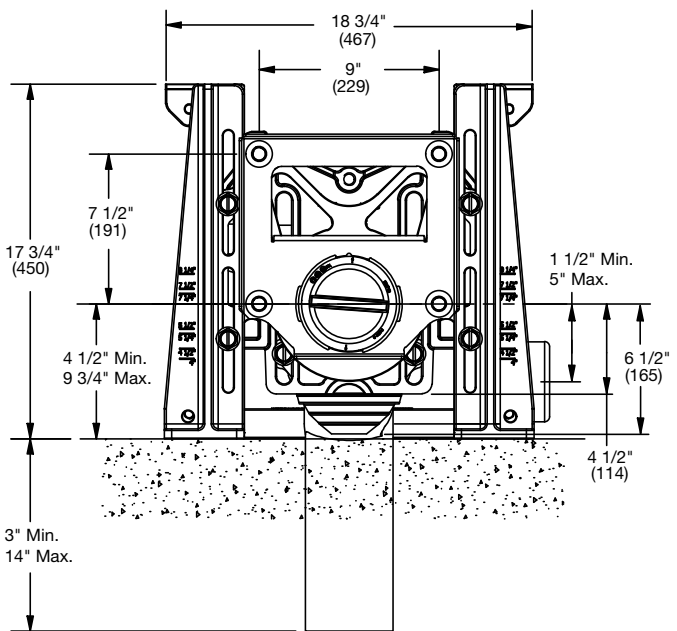


QT-122-D

QT QuickTurn™ Water Closet Carriers



QT-132



QT-132-D

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 | \$5,738.00 |
| QT-103-R | 81 | Single Horizontal - Left Hand | 5,738.00 |
| QT-103-D | 152 | Back-to-Back Horizontal. | 11,047.00 |



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 | \$7,103.00 |
| QT-123-D | 162 | Back-to-Back Vertical | 13,677.00 |



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) | \$7,018.00 |
| QT-133-D | 168 | Back to Back Vertical - w/Side Inlet(s) | 13,015.00 |



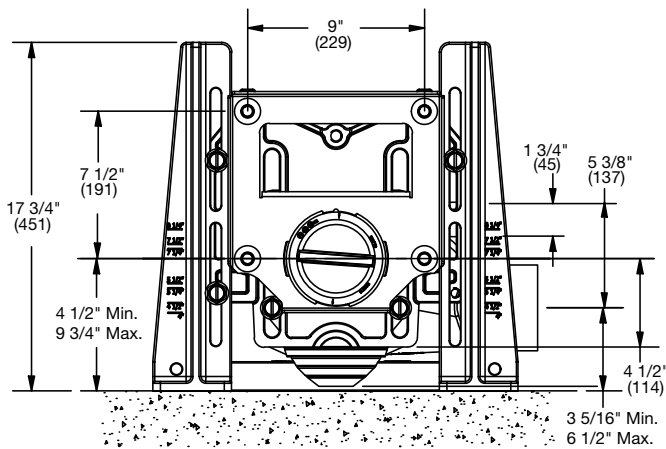
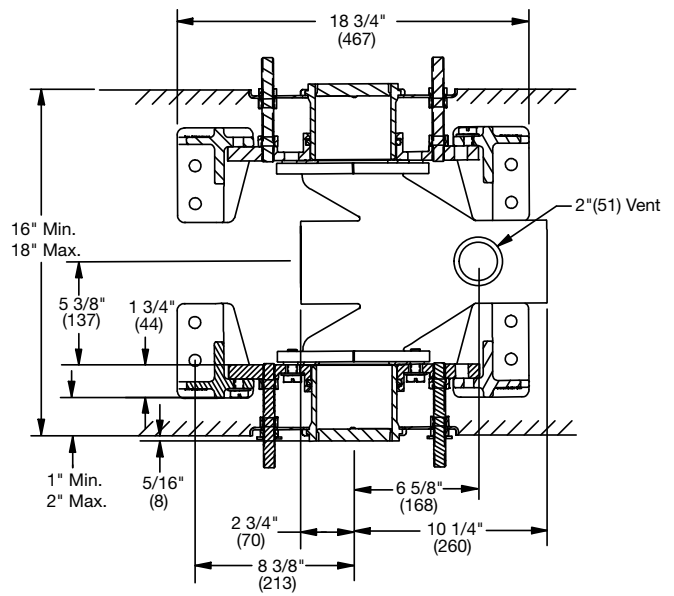
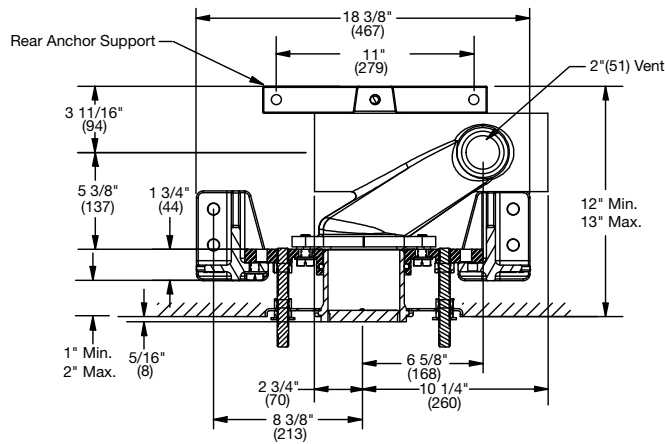
QT-133



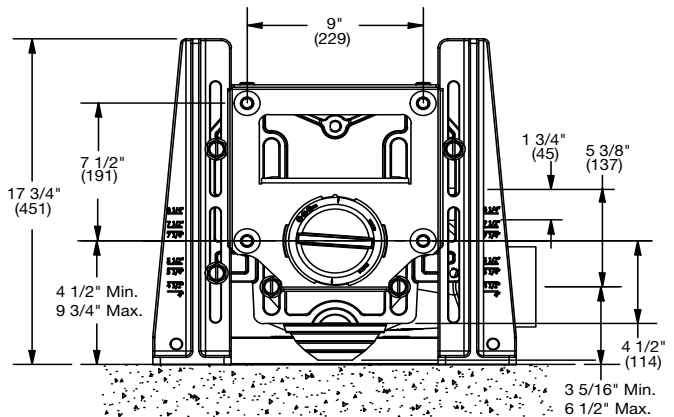
QT-133-D

See Pg. 213 for options
& parts for all ISCA & QT
models.

QT QuickTurn™ Water Closet Carriers



QT-103-L/R



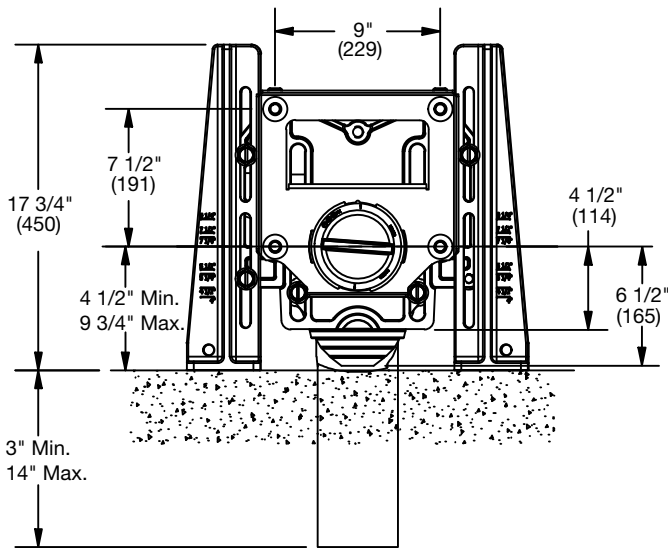
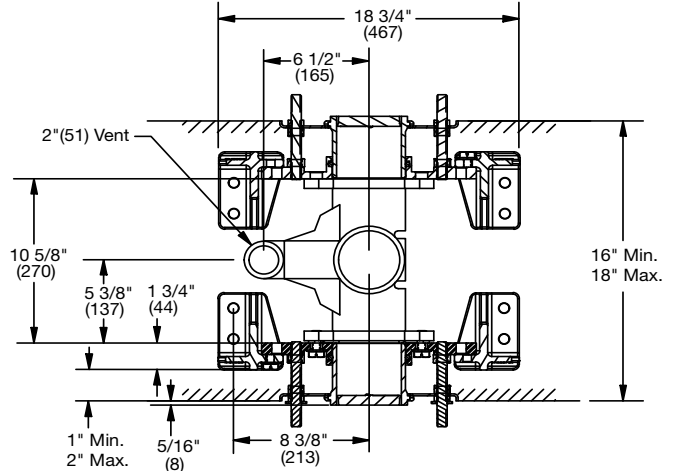
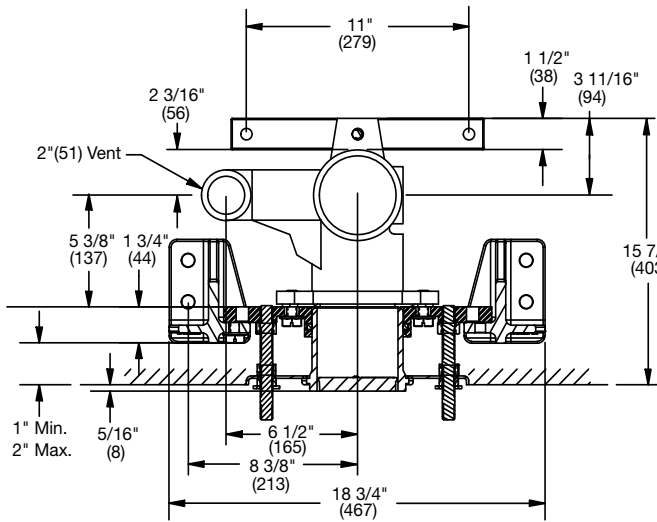
QT-103-D

Consult factory for all pricing and applications outside of listed parameters.

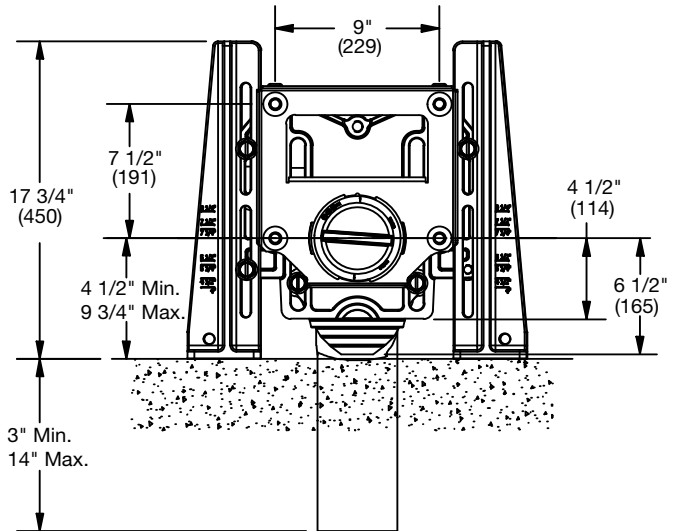
Prices do not include applicable taxes.



QT QuickTurn™ Water Closet Carriers



QT-123

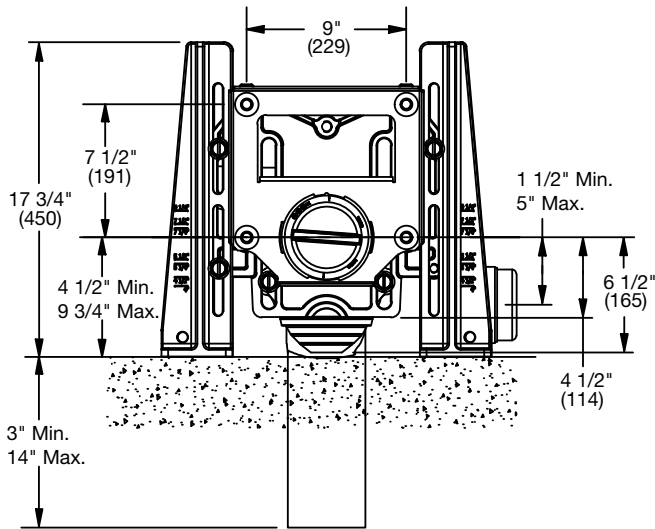
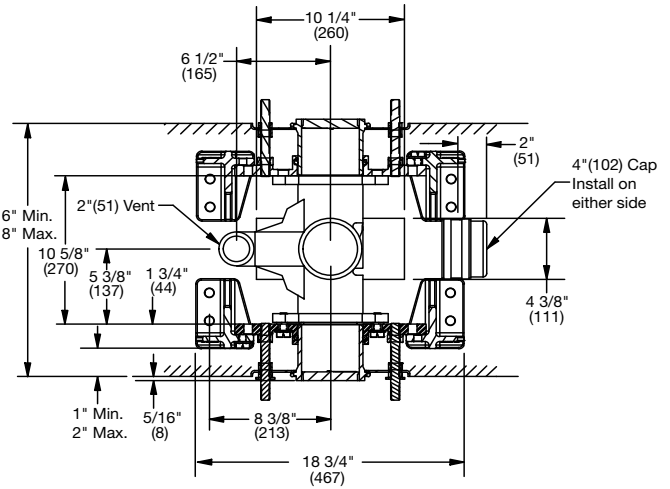
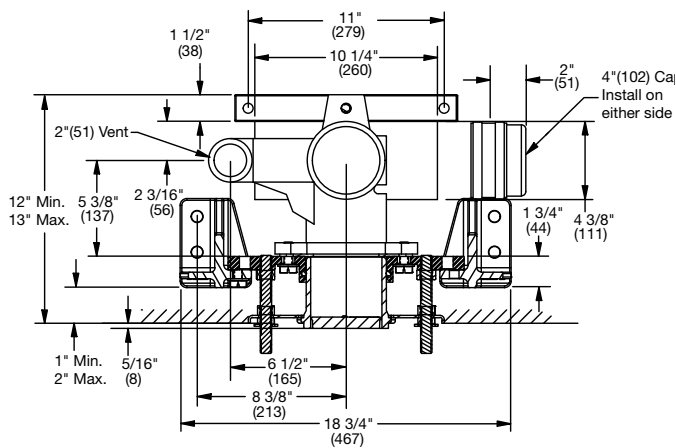


QT-123-D

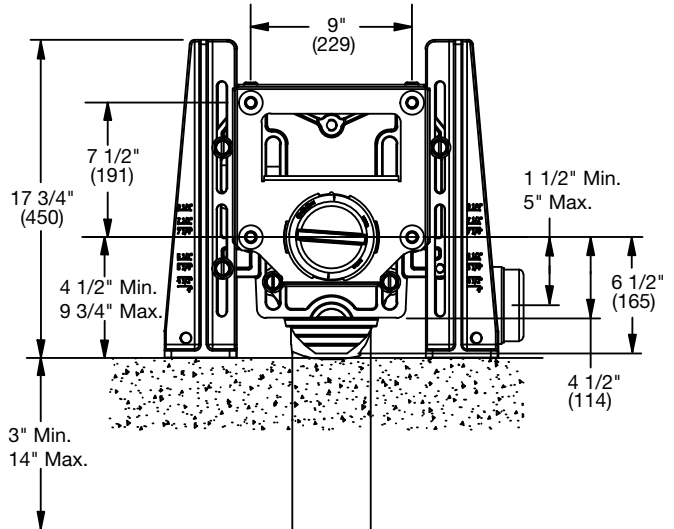


Consult factory for all pricing and applications outside of listed parameters.
Prices do not include applicable taxes.

QT QuickTurn™ Water Closet Carriers



QT-133



QT-133-D

Consult factory for all pricing and applications outside of listed parameters.

Prices do not include applicable taxes.



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 | \$2,616.00 |
| QT-141-4-V2 | 76 | 4" Waste, 2" Vent | 2,616.00 |
| QT-141-4-V4 | 76 | 4" Waste, 4" Vent | 2,616.00 |
| QT-141-4-D-V2 | 120 | Back-to-Back, 4" Waste, 2" Vent | 4,475.00 |
| QT-141-4-D-V4 | 127 | Back-to-Back, 4" Waste, 4" Vent | 4,475.00 |



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 | \$3,153.00 |
| QT-151-R | 77 | Single - Right Hand | 3,153.00 |
| QT-151-D | 128 | Back to Back | 5,392.00 |



QT-151-L



QT-151-D

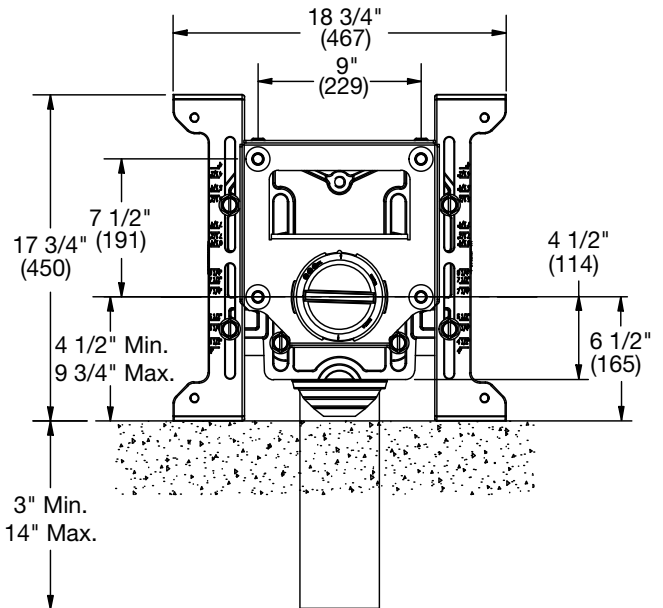
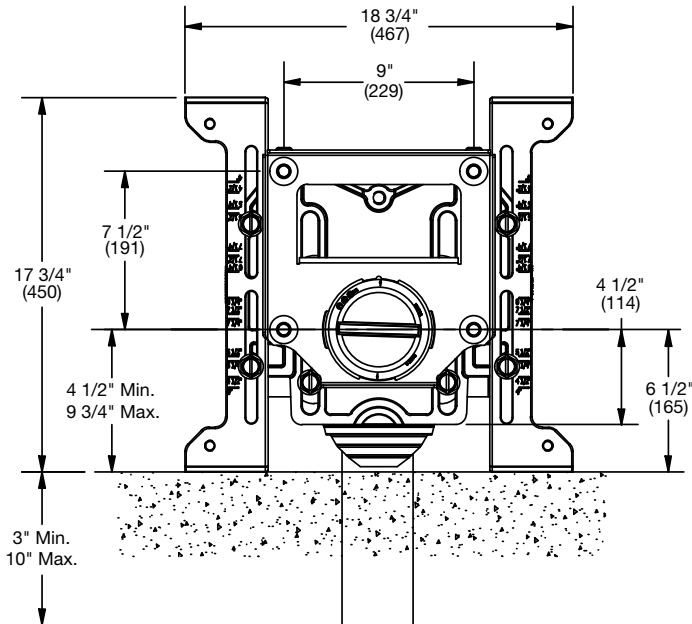
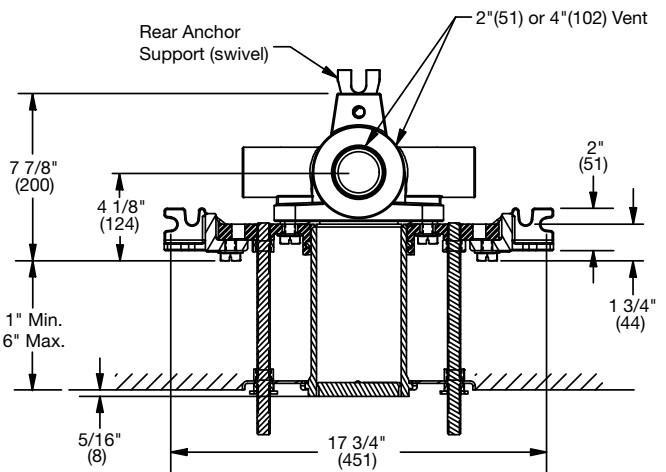
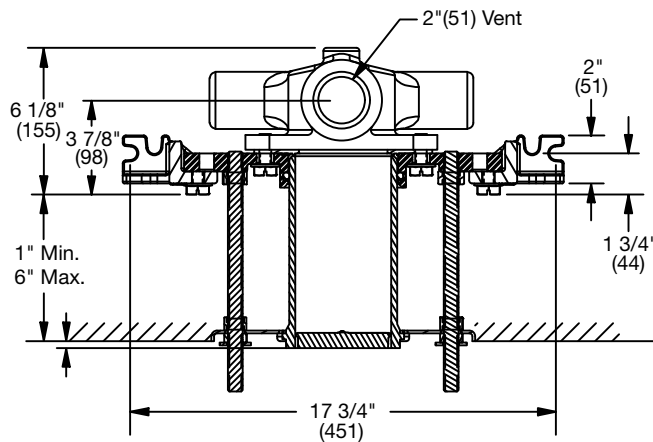
QT-161-L/R Thin Wall 500 lb. Horizontal Closet Carrier

| Model Number | Wt. Lbs. | Description | List Price |
|--------------|----------|---------------------|------------|
| QT-161-L | 78 | Single - Left Hand | \$3,587.00 |
| QT-161-R | 78 | Single - Right Hand | 3,587.00 |



QT-161-L

QT QuickTurn™ Water Closet Carriers



QT-141-3

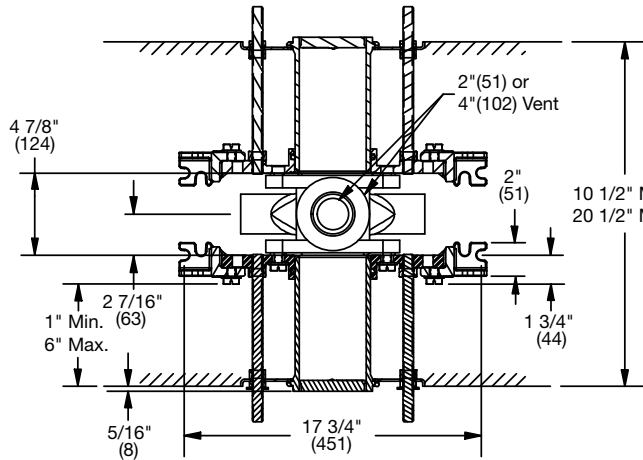
QT-141-4

Consult factory for all pricing and applications outside of listed parameters.

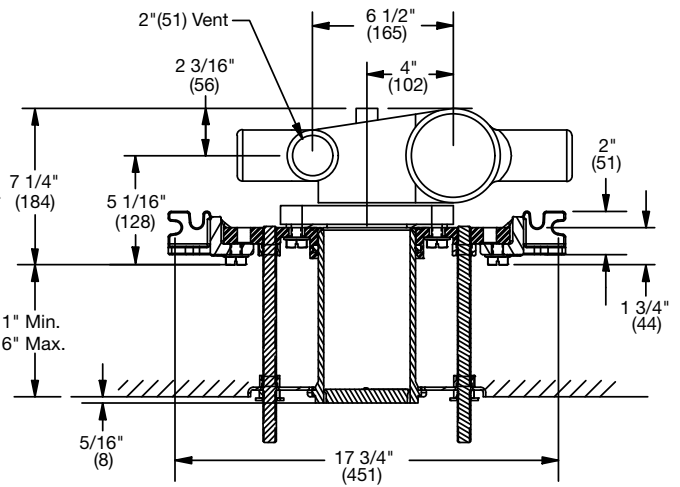
Prices do not include applicable taxes.



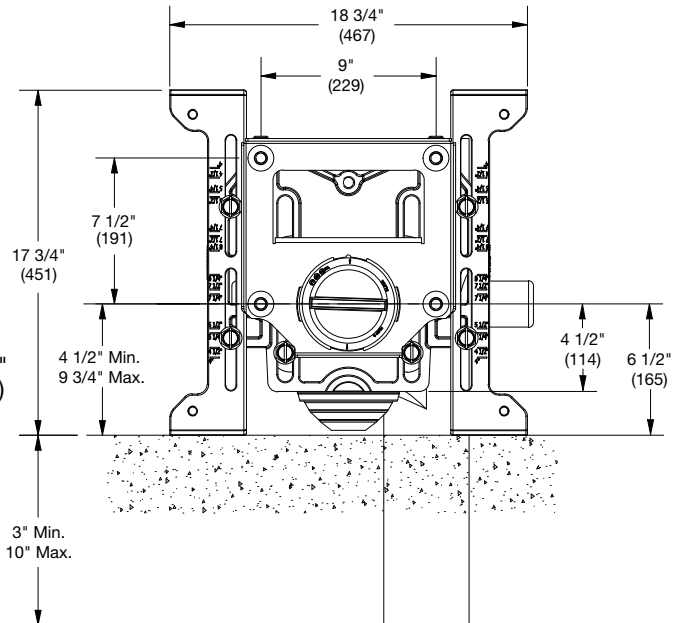
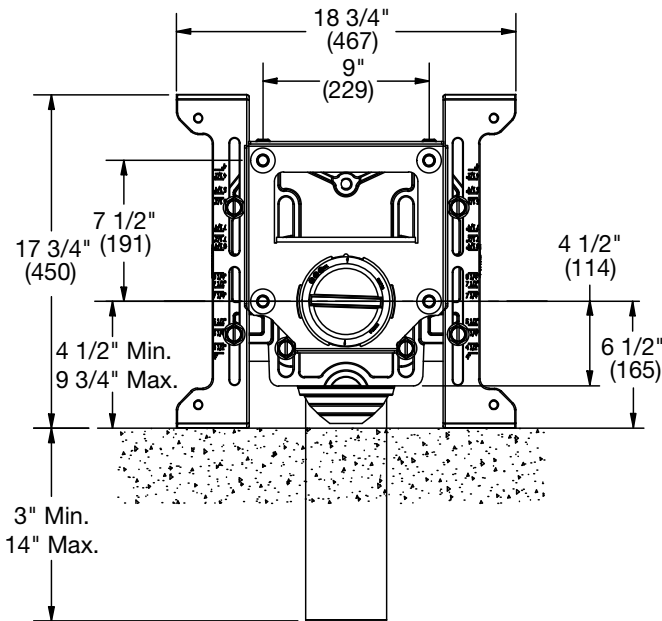
QT QuickTurn™ Water Closet Carriers



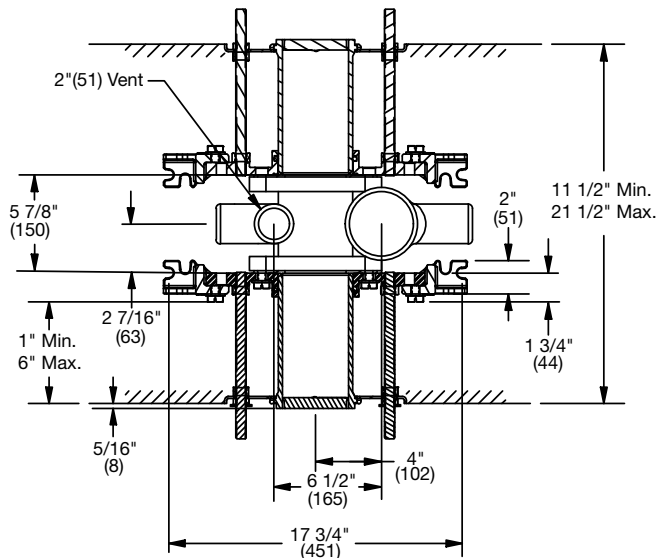
QT-141-4-D



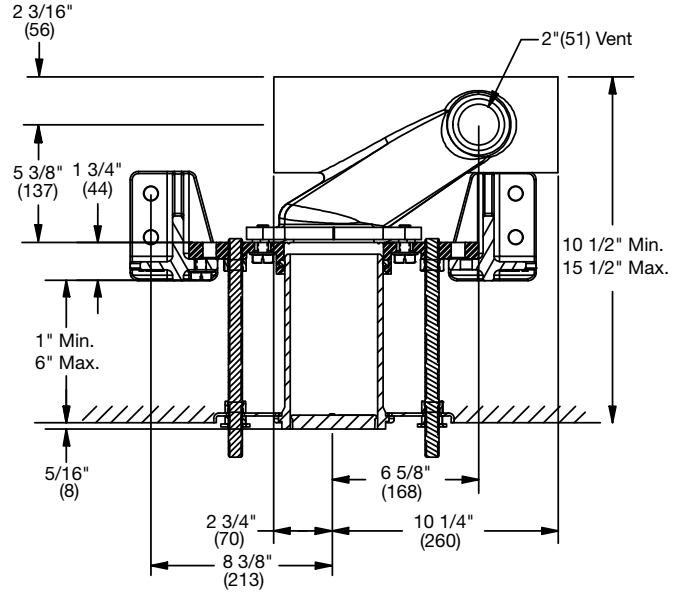
QT-151-L/R



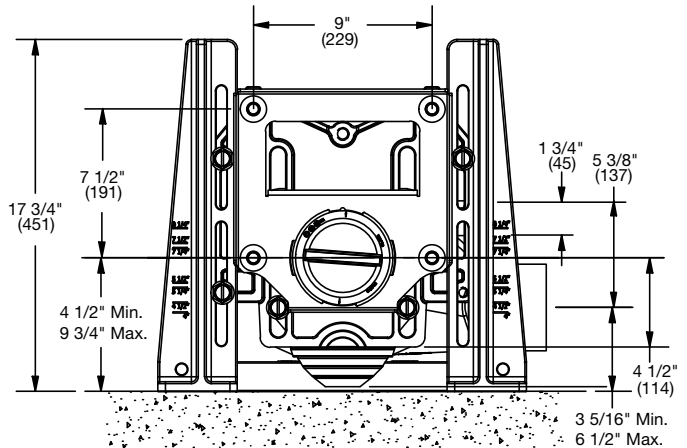
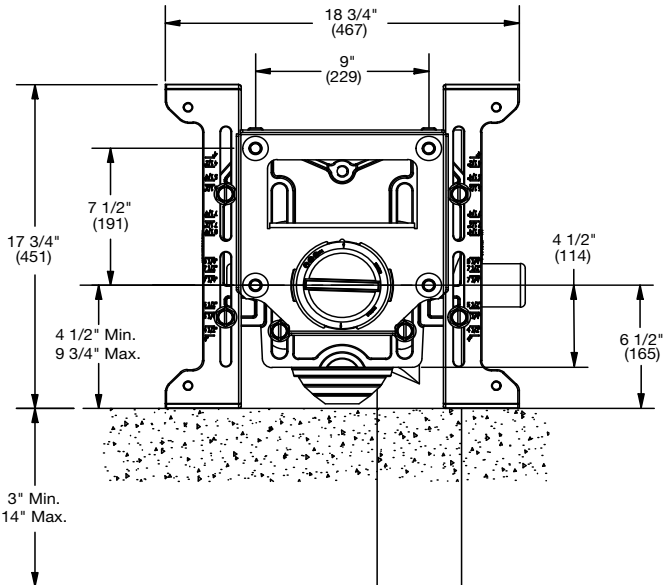
QT QuickTurn™ Water Closet Carriers



QT-151-D



QT-161-L/R



Consult factory for all pricing and applications outside of listed parameters.

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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.

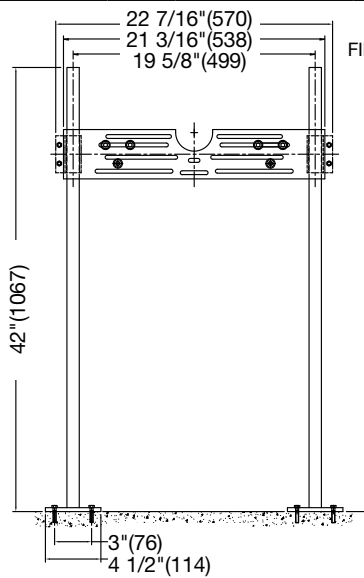


Lavatory/Urinal Carriers

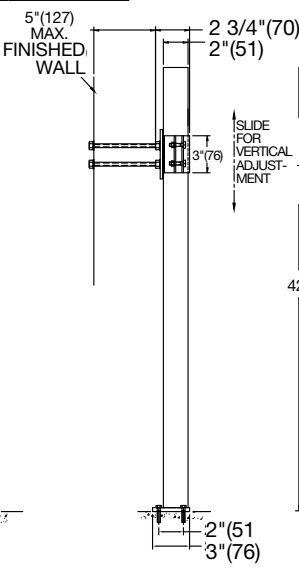
CA-311, 321

Urinal Carriers

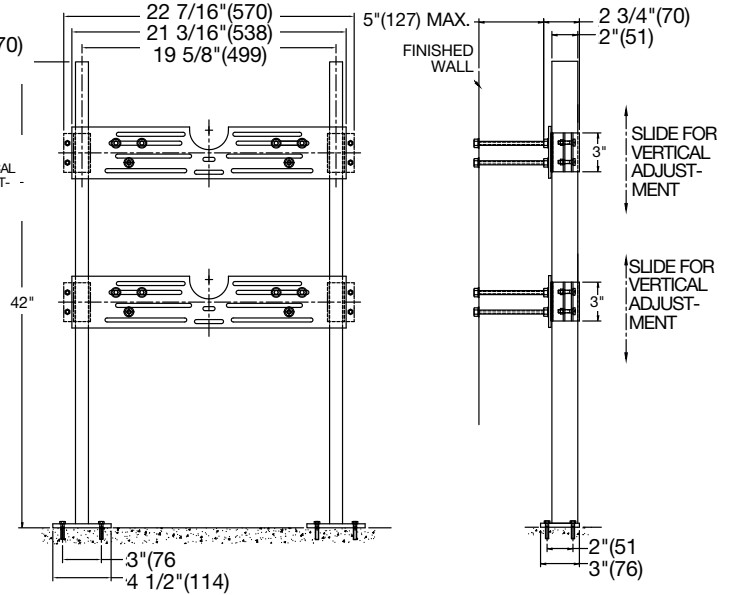
| Model Number | Wt. Lbs. | Description | List Price |
|--------------|----------|--------------------|------------|
| CA-311 | 26 | Single Plate | \$1,402.00 |
| CA-321 | 26 | with Bearing Plate | 1,562.00 |



CA-311



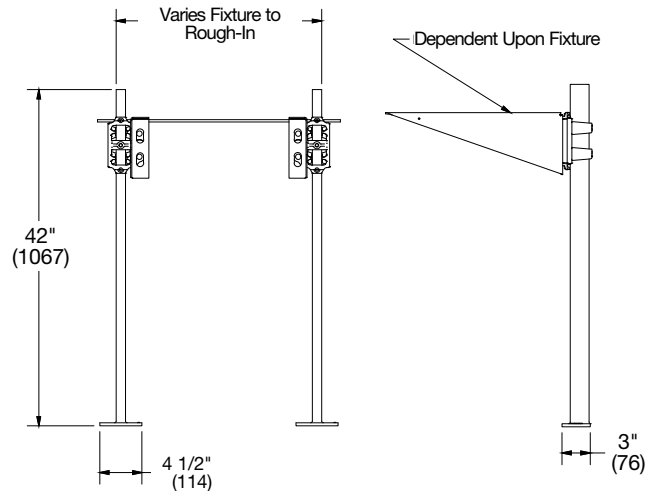
CA-321



CA-401

Floor Mounted Lavatory Carrier with Exposed Arms

| Model Number | Description | List Price |
|--------------|----------------------|------------|
| CA-401 | Single, Exposed Arms | CF** |



Options for CA-401

| Suffix | Description | List Price |
|--------|-------------------|------------|
| -WLA | Waste Line Access | 781.00 |

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

WATTS®

Lavatory Carriers

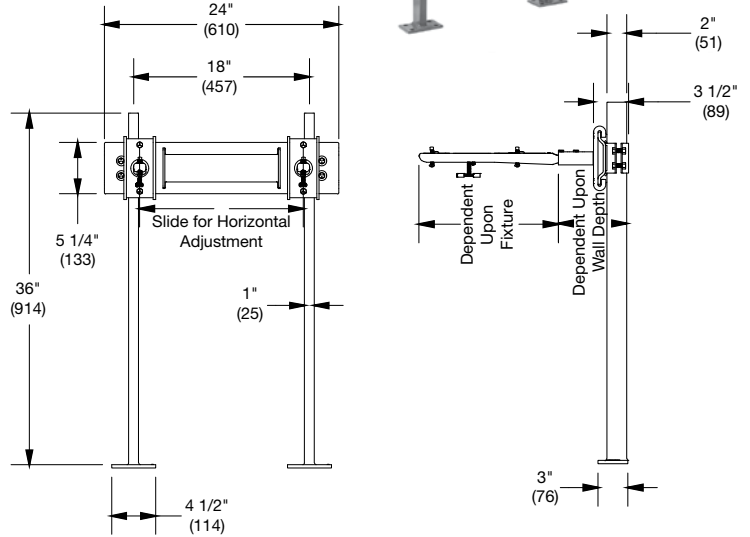
TCA-411

Floor Mounted "Track" Lavatory Carrier w/Concealed Arms

| Model Number | EDP# | Wt., Lbs. | Description | List Price |
|--------------|---------|-----------|--|------------|
| TCA-411 | 8201149 | 35 | Single, Concealed Arms | \$2,304.00 |
| TCA-411-D | 8201150 | 60 | Back to Back, Concealed Arms | 3,364.00 |
| TCA-411-WC | 8201560 | 37 | Single, Concealed Arms, 27 x 20 Lavatory | 2,422.00 |
| TCA-411-D-WC | 8201303 | 64 | Double, Concealed Arms, 27x20 Lavatory | 3,598.00 |

Options for TCA-411

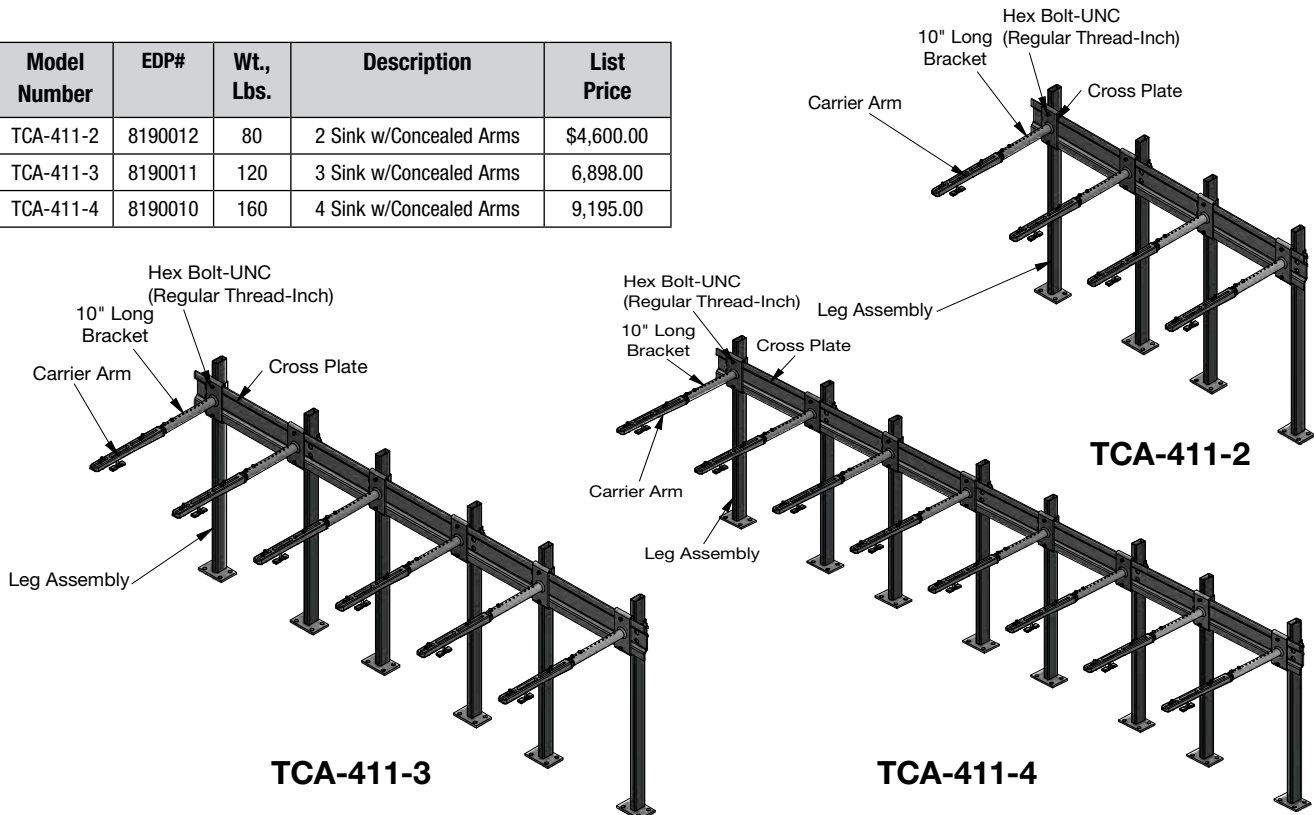
| Suffix | Description | List Price |
|--------|--------------------------------------|------------|
| -CI | Arms for Cast Iron Lavatory | No Add |
| -M54 | 2" Chrome Plated Escutcheons, Single | \$308.00 |
| | 2" Chrome Plated Escutcheons, Double | 613.00 |
| -M55 | 4" Chrome Plated Escutcheons, Single | 558.00 |
| | 4" Chrome Plated Escutcheons, Double | 1,114.00 |
| -M60 | Valve Support Plate, Single | 282.00 |
| | Valve Support Plate Double | 557.00 |



TCA-411-2/3/4

Floor Mounted "Track" Extended Lavatory Carrier with Concealed Arms

| Model Number | EDP# | Wt., Lbs. | Description | List Price |
|--------------|---------|-----------|-------------------------|------------|
| TCA-411-2 | 8190012 | 80 | 2 Sink w/Concealed Arms | \$4,600.00 |
| TCA-411-3 | 8190011 | 120 | 3 Sink w/Concealed Arms | 6,898.00 |
| TCA-411-4 | 8190010 | 160 | 4 Sink w/Concealed Arms | 9,195.00 |



Lavatory Carriers

TCA-411-WLA/WCA-411-WLA

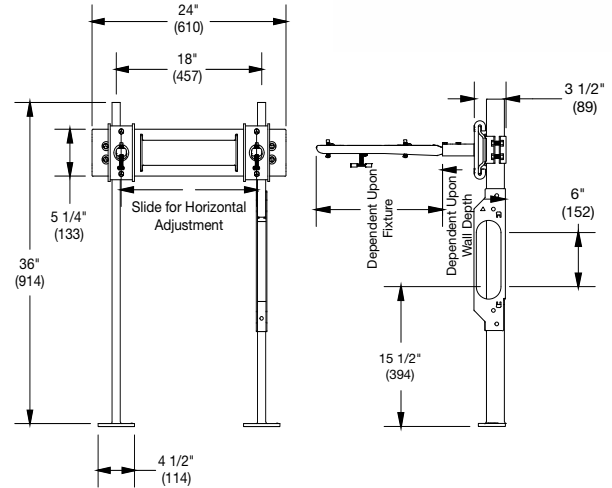
Lavatory Carrier with Waste Line Access

| Model Number | EDP# | Wt., Lbs. | Description | List Price |
|---------------|---------|-----------|--|------------|
| TCA-411-WLA | 8201171 | 35 | Single, Concealed Arms w/Waste Line Access | \$3,085.00 |
| TCA-411-D-WLA | 8201172 | 60 | Back to Back, Concealed Arms w/Waste Line Access | 3,994.00 |
| WCA-411-WLA | 8201200 | 37 | Single, Concealed Arms, 27 x 20 Lavatory w/Waste Line Access | 2,949.00 |
| WCA-411-D-WLA | 8201201 | 64 | Double, Concealed Arms, 27x20 Lavatory w/Waste Line Access | 3,730.00 |



Options for TCA-411-WLA

| Suffix | Description | List Price |
|--------|--------------------------------------|------------|
| -CI | Arms for Cast Iron Lavatory | No Add |
| -M54 | 2" Chrome Plated Escutcheons, Single | \$308.00 |
| | 2" Chrome Plated Escutcheons, Double | 613.00 |
| -M55 | 4" Chrome Plated Escutcheons, Single | 558.00 |
| | 4" Chrome Plated Escutcheons, Double | 1,114.00 |
| -M60 | Valve Support Plate, Single | 282.00 |
| | Valve Support Plate Double | 557.00 |



WCA-411

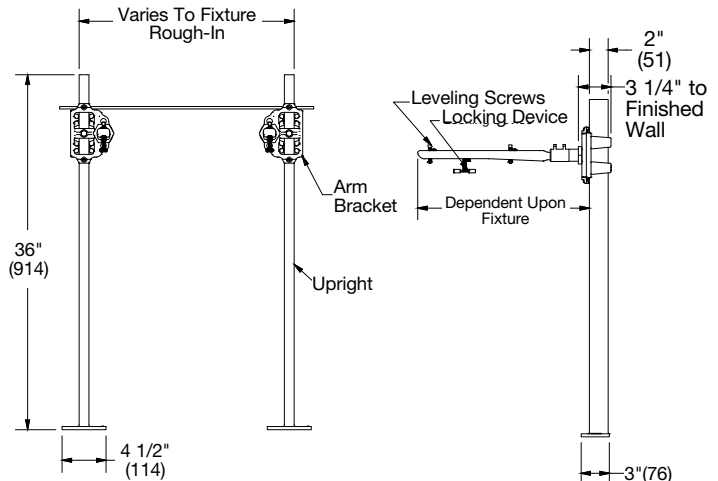
Floor Mounted Lavatory Carrier w/Concealed Arms

| Model Number | EDP# | Wt., Lbs. | Description | List Price |
|--------------|---------|-----------|------------------------------|------------|
| WCA-411 | 8133205 | 35 | Single, Concealed Arms | \$1,845.00 |
| WCA-411-D | 8133213 | 60 | Back to Back, Concealed Arms | 2,626.00 |



Options for WCA-411

| Suffix | Description | List Price |
|--------|--------------------------------------|------------|
| -CI | Arms for Cast Iron Lavatory | No Add |
| -M54 | 2" Chrome Plated Escutcheons, Single | \$308.00 |
| | 2" Chrome Plated Escutcheons, Double | 613.00 |
| -M55 | 4" Chrome Plated Escutcheons, Single | 558.00 |
| | 4" Chrome Plated Escutcheons, Double | 1,114.00 |
| -M60 | Valve Support Plate, Single | 282.00 |
| | Valve Support Plate Double | 557.00 |
| -WC | Extended Arm (27" x 20" ADA) | 118.50 |
| -WLA | Waste Line Access | 781.00 |



Consult factory for all pricing and applications outside of listed parameters.

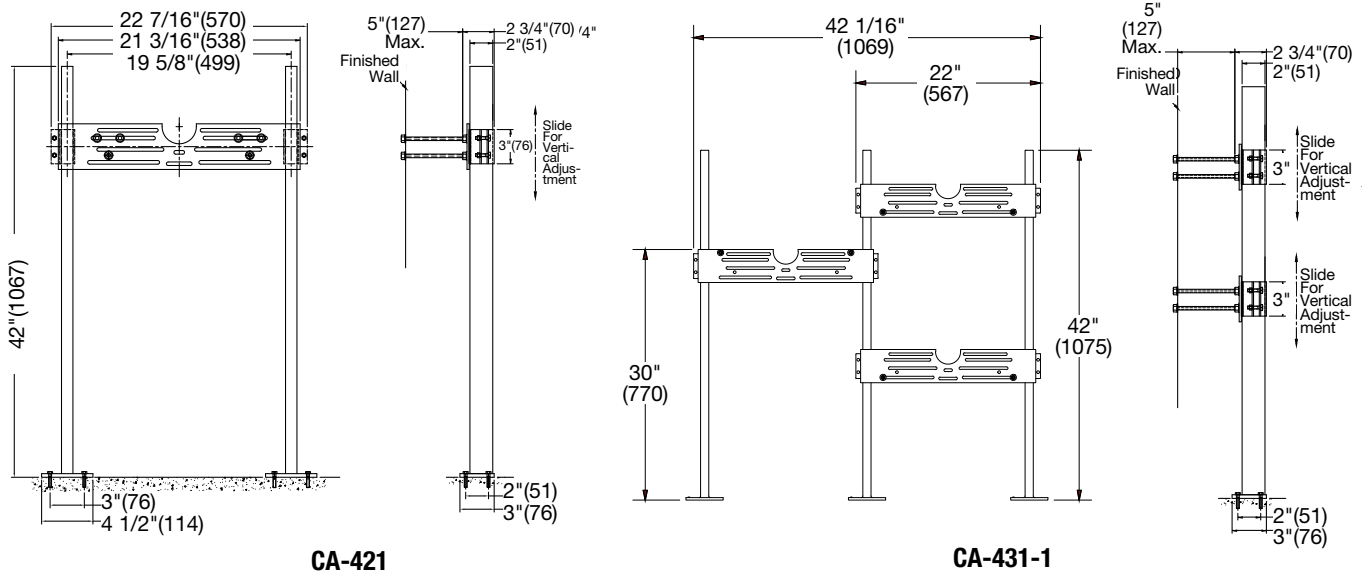
Prices do not include applicable taxes.

WATTS®

Lavatory/Water Cooler Carriers

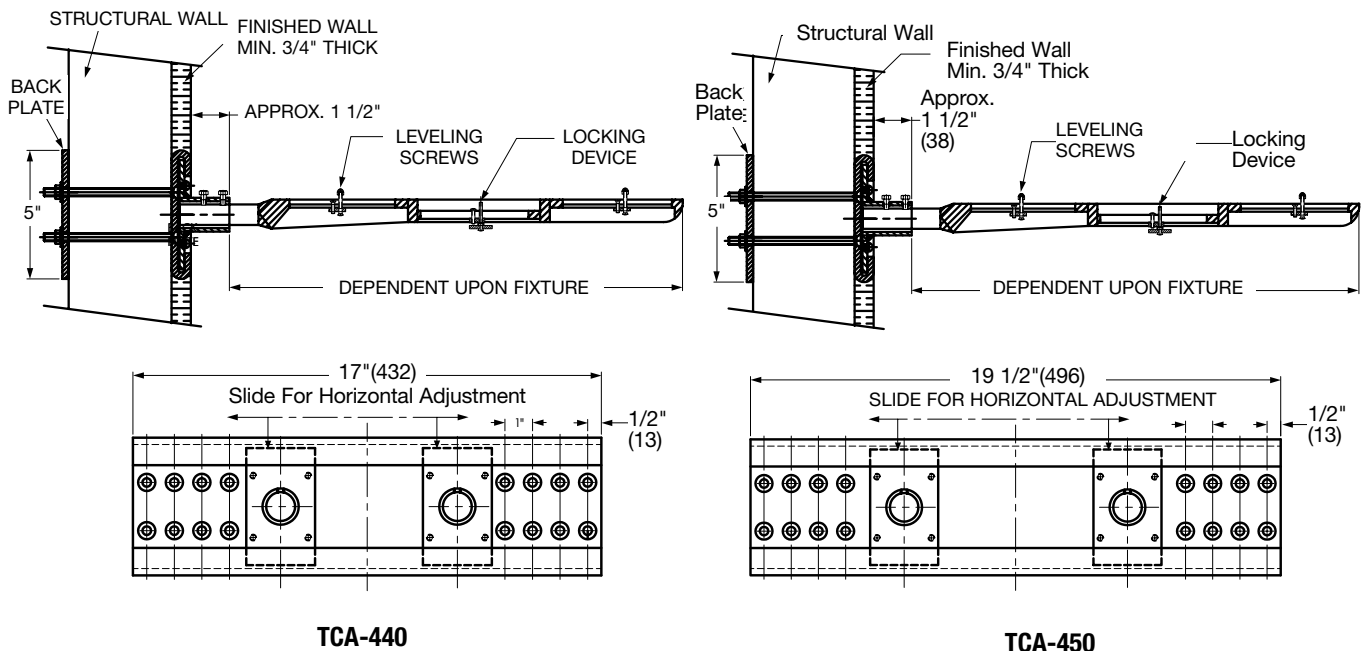
CA-421 Floor Mounted Plate Type Lavatory/ CA-431-1 Water Cooler Carrier

| Model Number | Wt., Lbs. | Description | List Price |
|--------------|-----------|--------------------------------------|------------|
| CA-421 | 28 | Plate Type for Lavatory/Water Cooler | \$1,403.00 |
| CA-431-1 | 50 | Plate Type for Hi-Low Water Cooler | 2,261.00 |



TCA-440 Wall Mounted "Track" Lavatory Carrier TCA-450 with Concealed Arms

| Model Number | EDP# | Wt., Lbs. | Description | List Price |
|--------------|---------|-----------|-----------------------------------|------------|
| TCA-440 | 8187152 | 28 | Concealed Arms, Standard Lavatory | \$1,424.00 |
| TCA-450 | 8187153 | 30 | Concealed Arms, 27x20 Lavatory | 1,501.00 |

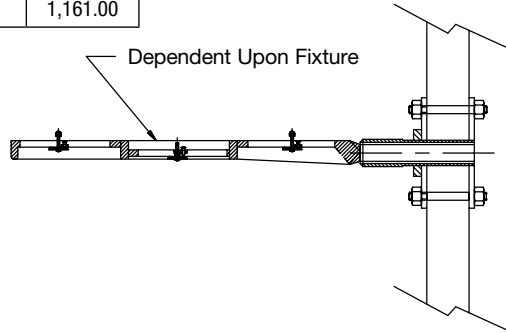
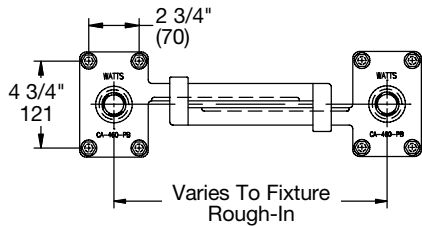


Lavatory/Service Sink Carriers

CA-461
CA-462

Wall Mounted Concealed Arm Lavatory Carriers

| Model Number | EDP# | Wt., Lbs. | Description | List Price |
|--------------|---------|-----------|--------------------------------|------------|
| CA-461 | 8133254 | 30 | Concealed Arms with Back Plate | \$1,393.00 |
| CA-462 | 8133260 | 24 | Concealed Arms | 1,161.00 |

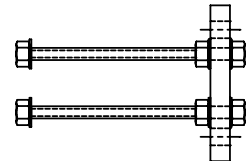
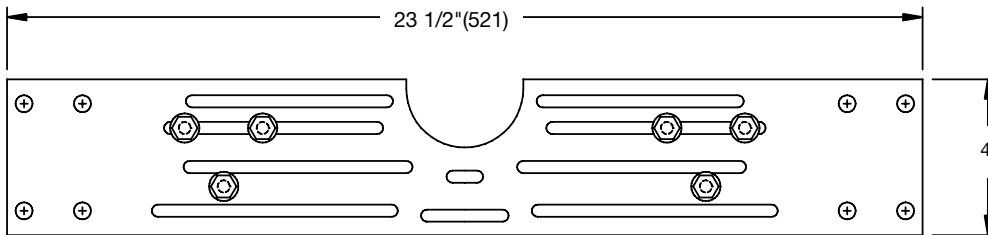


Note: See CA-411 Options page 208.

CA-481

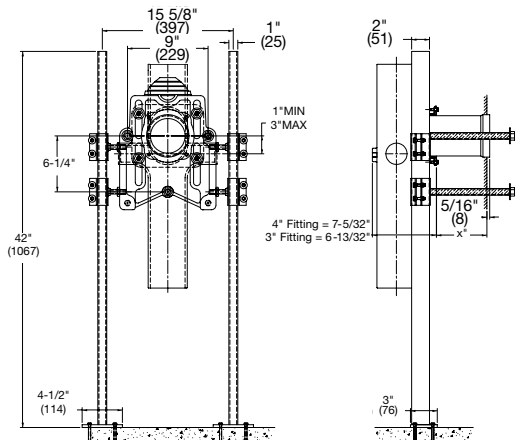
Wall Plate

| Model Number | EDP# | Description | List Price |
|--------------|---------|-----------------------|------------|
| CA-481 | 8133262 | Wall Plate with Studs | \$389.50 |

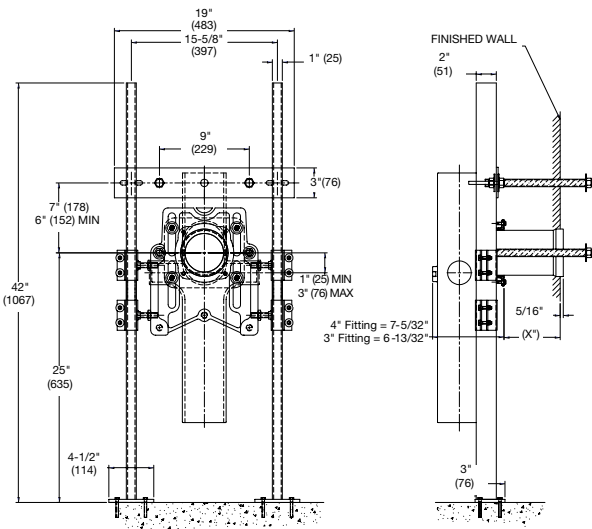


ISCA-550, ISCA-560 Service Sink Carriers

| Model Number | EDP# | Wt., Lbs. | Description | List Price |
|---------------|---------|-----------|-------------------|------------|
| ISCA-550-3 | 8187116 | 60 | 3" Waste, 2" Vent | \$2,663.00 |
| ISCA-550-4-V2 | 8187117 | 60 | 4" Waste, 2" Vent | 2,663.00 |
| ISCA-550-4-V4 | 8187118 | 60 | 4" Waste, 4" Vent | 2,663.00 |
| ISCA-560-3 | 8187119 | 60 | 3" Waste, 2" Vent | 2,663.00 |
| ISCA-560-4-V2 | 8187120 | 60 | 4" Waste, 2" Vent | 2,663.00 |
| ISCA-560-4-V4 | 8187121 | 60 | 4" Waste, 4" Vent | 2,663.00 |



ISCA-550



ISCA-560

Consult factory for all pricing and applications outside of listed parameters.

Prices do not include applicable taxes.

WATTS®

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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