Catalog and Price List

Specification Drainage Products









Effective January 19, 2026

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
Drainage Products Division
100 Watts Road
Spindale, NC. 28160

Fax: 828-248-3929

Call Toll-Free: 1-800-338-2581

Floor & Area Drains......5-55, 59-68 Cleanouts154-180 Hydrants.....181-189 Parking Deck Drains56-58 Sanitary Floor Sinks......69-81 Specialties.....190-199 Dead Level® Trench Drains.....82-96 Fixture Carriers......200-247 Green Roof Drains......97-106 Roof Drains107-131

PL-WD Table of Contents

Common Suffixes

Interceptors132-153

	Numeric	Suffixes			Alpha	Suffixes	3
Code	Description	Code	Description	Code	Description	Code	e Description
-1	Nickel Bronze	-21	Secondary Strainer	-A	45 Degree Outlet	-K80	Aluminum Dome
-3	Stainless Steel	-28 All 1	Type 304 Stainless Steel	-A	Accutrol Flow Restrictor	-K81	Bronze Dome
-4	Ductile Iron	-33	Less Grate	-AL	Aluminum Cover	-K83	SS Screen Dome
-5	Sediment Bucket	-34	Closure Plug	-B	Sump Receiver	-L	Vandal Proof
-6	Vandal Proof	-38	Solids Retaining Baffle	-C	Membrane Clamp	-M1	Extended Nipple
-7	Trap Primer Tapping	-81	Bronze Dome	-CF	Carpet Clamping Flange	-M11	Tiling Frame
-8 Ba	II Float Backwater Valve	-83	SS Screen	-D	Deck Clamp	-M20) Flush Valve Support
-9	Hinged Grate	-88	Wall Clamp	-DS	Dome Strainer	-M23	Right Side Inlet
-13	Galvanized	-128	Grate w/Center Opening	-E	Extension	-M24	Left Side Inlet
-14	Flat Grate	-150	Half Grate	-F	Deck Flange	-M54	2" Escutcheons
-15	Strainer Extension	-175	3/4 Grate	-F4-1	4" Round NB Funnel	-M55	5 4" Escutcheons
				-F4-5	0 4" Round Cast Iron	-M60) Flush Valve Support
				Funne	el	-0	Non-Standard Inlet/Outlet
		O	Outlet Description	-F6-1	6" Round NB Funnel	-Q	Special
		Code	Description	-FC	Flange & Clamp	-R	External Water Dam
	All Drainage products	-P	Push-On	-G-1	4" x 9" Oval NB Funnel	-S0	Side Outlet
	are supplied with NH	-T or -T	HD IPS Threaded	-G-50	4" x 9" Oval C.I. Funnel	-SS	Stainless Steel
	(No Hub) connections	-X	Inside Caulk	-GSS	SS Ballast Guard	-TG	Top Grate
	standard unless oth-	-60	PVC Socket	-HD	Heavy Duty	-US	Buy American Compliant
	erwise indicated.	-61	ABS Socket	-HS	Hub & Spigot	-VB	Vacuum Breaker
				-K	Cylinder Lock	-W	4" Internal Water Dam
				-K	Ductile Iron Dome	-W2	2" Internal Water Dam
				-K13	Galvanized Dome	-Y	Fixed Top
	·			-K40	Ductile Iron Low Dome	•	

NOTICE

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



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 WHOLESALER 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.



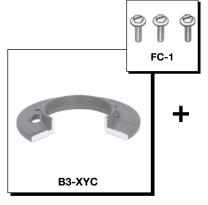
Examples of WATTS Drainage Alpha/Numeric Suffix System

Floor Drains With Adjustable Strainers

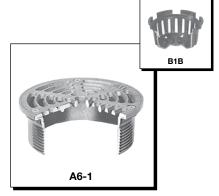
Components:



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

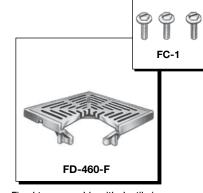
- Series Number FD-100 1.
- 2.
- Outlet Type Push-On Outlet Suffix "P" 3.
- 4.
- Option Sediment Bucket Suffix "-5" 5.
- 6.

Area Drains

Components:



B2 Body, 4" Push-on Connection



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

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

Alpha/Numeric Description

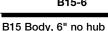


Examples of WATTS Drainage Alpha/Numeric Suffix System

Roof Drains

Components:



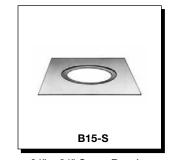


connection.

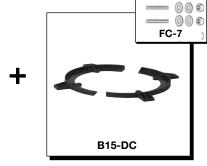


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Flashing Clamp w/Integral Gravel stop, attached with FC-6 Hardware.



24" x 24" Sump Receiver



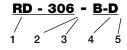
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Underdeck Clamp with FC-7 hardware.



Poly dome standard

Alpha/Numeric Description:



1.	Series Number	- KD-300
2.	Outlet Size	-6" Outlet

3. Outlet type - (Standard) No Hub

Option - B Sump Receiver 4. Option - D Underdeck Clamp

Cleanout With Adjustable Top

Components:



B4-34 Body 4" No Hub Connection



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

CO - 204 - RX



Gas-tight gasketed brass cleanout plug

Alpha/Numeric Description

1.	Series Number	-CO-200
_		

Outlet Size. - 4" Outlet 2.

Outlet Type - (Standard) No Hub 3. 4. Top - Type RX strainer

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Grate Free Area

Design Considerations

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• Typical Installations





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-FCSurface 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





FD-100-VSSquare Hinged Solid Cover



FD-100-WD Domed Standpipe



FD-200-A Round Strainer



FD-200-B HD Round Strainer



FD-290-PRPronto!® Cast Iron Adj. Floor
Drain w/Integrated Level



FD-290-PR-60 Pronto!® PVC Adj. Floor Drain w/Integraged 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





FD-200-RS
Rectangular Strainer



FD-200-VD Solid Hinged Cover



FD-200-VSSquare Hinged Solid Cover



FD-200-WDDomed 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





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-410Parking 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





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





FD-930 Sq. Precast Parking Deck



FD-1100-A Round SS Strainer



FD-1100-A-LRFloor 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-LRFloor 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





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



FD-1200-M Square SS Strainer



TD-300 Elevator Trench Drain





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	
Floating Slabs	
Food Preparation Areas	FD-1100 Series, also see Sanitary Floor Sinks
Garage & Service Bays	
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.

<u>Note:</u> *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 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.

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.



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 **Recommended Free Area**

transverse area of the connecting pipe.

	Pipe Size	Transverse Sq. In.	Interior Free Area Sq. In.	Exterior Free Area Sq. In.
Г	2"	3.14	4.71	6.28
	3"	7.06	10.59	14.12
Г	4"	12.50	18.75	25.00
	5"	19.60	29.40	39.20
	6"	28.30	42.45	56.60
L	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

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

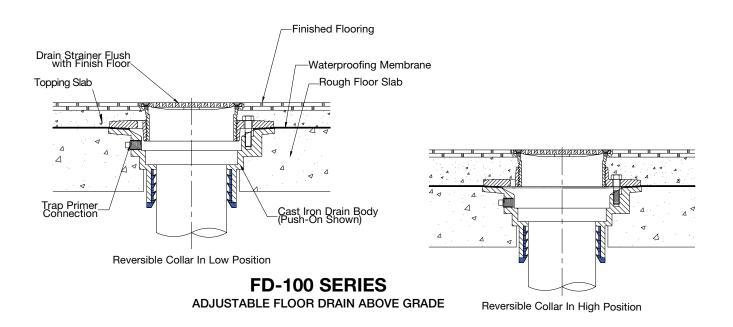
4"x9" cast iron or nickel bronze oval funnel, to accept multiple condensate lines. Bolt supplied to attach funnel through underside of the grate

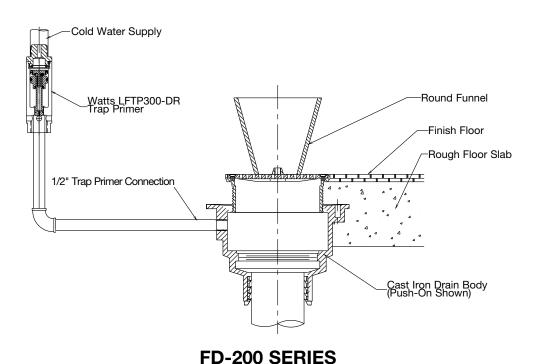
-US Buy American Compliant

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



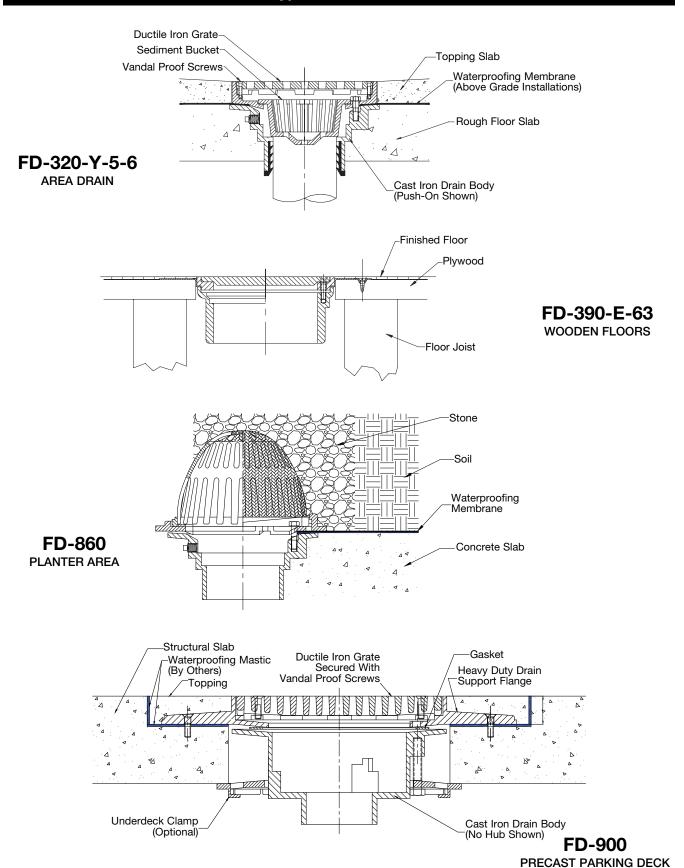
Typical Installations





ADJUSTABLE FLOOR DRAIN ON GRADE W/TRAP PRIMER

Typical Installations





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	\$803.00
FD-102, 3, 4-A6	12.5	6"	2,3,4"	nickel bronze	854.50
FD-102, 3, 4-A7	14	7"	2,3,4"	nickel bronze	986.50
FD-102, 3, 4-A8	16	8"	2,3,4"	nickel bronze	1,404.00
FD-102, 3, 4-A10	21	10"	2,3,4"	nickel bronze	2,977.00

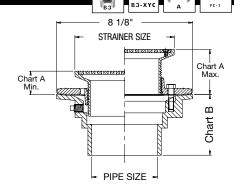




Chart A						
Strainer Min. Max.						
5"	13/16"	3 1/4"				
6"	7/8"	3 3/8"				
7"	11/16"	3 1/4"				
8"	7/8"	3 1/4"				
10"	1 1/4"	3 1/4"				

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	\$794.50
FD-102, 3, 4-B5	11	5"	2,3,4"	nickel bronze	1,151.00
FD-102, 3, 4-B6	12.5	6"	2,3,4"	nickel bronze	1,329.00
FD-102, 3, 4-B8	16	8"	2,3,4"	nickel bronze	1,762.00
FD-102, 3, 4-B10	21	10"	2,3,4"	nickel bronze	2,977.00

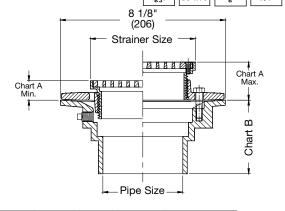




Chart A						
Strainer Min. Max.						
5"	13/16"	3 1/4"				
6"	7/8"	3 3/8"				
8"	7/8"	3 1/4"				
10"	1 1/4"	3 1/4"				

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 1	Options for FD-100 Series:								
Suffix	Description	List Price	Suffix	Description	List Price				
None	No Hub Outlet	No Add	-15	Strainer Extension (DD-50)	\$236.50				
P	Push-On Outlet	No Add	-60	PVC Body w/Socket Outlet (2,3,4" Only)	No Add				
T	Threaded Outlet	\$135.50	-61	ABS Body w/Socket Outlet (2,3,4" Only)	No Add				
X	Inside Caulk	No Add	-F4-50	4" Round Cast Iron Funnel	\$300.00				
None	6" Outlet No Hub Only	202.00	-F4-1	4" Round Nickel Bronze Funnel	714.00				
-5	Sediment Bucket	181.50	-F6-1	6" Round Nickel Bronze Funnel	1,044.00				
-6	Vandal Proof	91.25	-G-50	4x9" Oval Cast Iron Funnel	706.50				
-7	Trap Primer Tapping	No Add	-G-1	4x9" Oval Nickel Bronze Funnel	1,457.00				
-8	Ball Float Backwater Valve (2,3,4" Only)	630.00	-S0	Side Outlet (2,3,4" Only)	366.00				
-13	Galvanized Body	327.50							

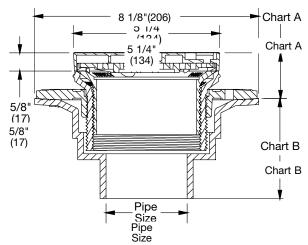


Adjustable Floor Drains

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	\$944.50
FD-192, 3, 4-PR6	16	6"(152)	2, 3, 4"	nickel bronze	1,121.00
FD-192, 3, 4-PR7	18	7"(178)	2, 3, 4"	nickel bronze	1,378.00
FD-192, 3, 4-PR8	21	8"(203)	2, 3, 4"	nickel bronze	1,705.00
FD-196-PR5 (NH Only)	14	5"(127)	6"(152)	nickel bronze	2,259.00
FD-196-PR6 (NH Only)	16	6"(152)	6"(152)	nickel bronze	2,259.00
FD-196-PR7 (NH Only)	18	7"(178)	6"(152)	nickel bronze	2,259.00
FD-196-PR8 (NH Only)	21	8"(203)	6"(152)	nickel bronze	2,421.00





PATENTED

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)

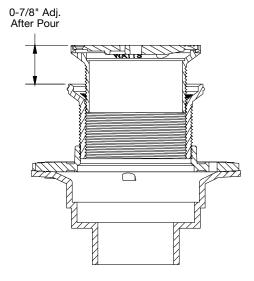


Chart B

Pipe	Std.	Р	T	Х	60
Size	No	Push	Female	Inside	PVC
	Hub	0n	Thread	Caulk	
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 f	or FD-190-PR Series				
Suffix	Description	List Price	Suffix	Description	List Price
None	No Hub Outlet	No Add	-15	Strainer Extension (DD-50)	\$229.50
Р	Push-On Outlet	No Add	-F4-50	4" Round Cast Iron Funnel	291.00
T	Threaded Outlet	\$131.50	-F4-1	4" Round Nickel Bronze Funnel	693.00
X	Inside Caulk	No Add	-F6-1	6" Round Nickel Bronze Funnel	1,013.00
-7	Trap Primer Tapping	No Add	-G-50	4x9" Oval Cast Iron Funnel	685.50
-8	Ball Float Backwater Valve (2, 3, 4" Only)	611.50	-G-1	4x9" Oval Nickel Bronze Funnel	1,414.00
-13	Galvanized Body	317.50	-S0	Side Outlet (2, 3, 4" Only)	355.00



Adjustable Floor Drains

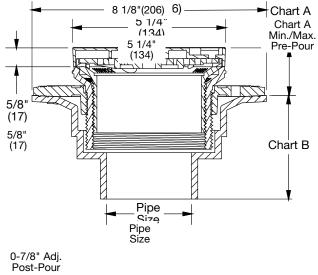
FD-190-PR-60

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	\$523.00
FD-192, 3, 4-PR6-60	6	6"(152)	2, 3, 4"	nickel bronze	778.00
FD-192, 3, 4-PR7-60	7	7"(178)	2, 3, 4"	nickel bronze	877.50
FD-192, 3, 4-PR8-60	8	8"(203)	2, 3, 4"	nickel bronze	960.00



PATENTED



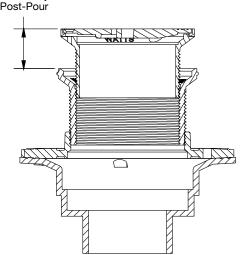


Chart A

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

Options fo	r FD-190-PR-60 Series:				
Suffix	Description	List Price	Suffix	Description	List Price
-7	Trap Primer Tapping	No Add	-15	Strainer Extension (DD-50)	\$229.50
-8	Ball Float Backwater Valve	\$611.50	-G-1	4x9"Oval Nickel Bronze Funnel	1,414.00
-61	ABS Body w/Socket Outlet	164.50			
-F4-50	4" Round Cast Iron Funnel	291.00			
-F4-1	4" Round Nickel Bronze Funnel	693.00			
-F6-1	6" Round Nickel Bronze Funnel	1,013.00			
-G-50	4x9" Oval Cast Iron Funnel	685.50			



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	\$3,257.00



8 1/8" ———	
5"X 4 1/4"	
Chart A Min.	ax.

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

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

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	\$757.00
FD-102, 3,4-DD-1	7	2,3,4"	nickel bronze	1,244.00



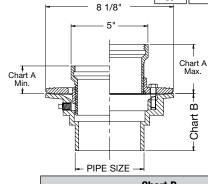
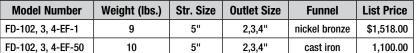


	Chart B						
Pipe Size	No Hub	Push On	Female Thread	Inside Caulk	PVC/ ABS		
2"	3 5/8"	4 1/4"	4 1/4"	4 1/2"	4"		
3"	3 5/8"	4 1/4"	4 1/4"	4 1/2"	4"		
4"	3 5/8"	4 1/4"	4 1/4"	4 1/2"	4"		
6"	3 1/2"	-	-	-	-		

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

Options f	or FD-100 Series:				
Suffix	Description	List Price	Suffix	Description	List Price
None	No Hub Outlet	No Add	-15	Strainer Extension (DD-50)	\$236.50
P	Push-On Outlet	No Add	-60	PVC Body w/Socket Outlet (2,3,4" Only)	No Add
T	Threaded Outlet	\$135.50	-61	ABS Body w/Socket Outlet (2,3,4" Only)	No Add
Х	Inside Caulk	No Add	-F4-50	4" Round Cast Iron Funnel	300.00
None	6" Outlet No Hub Only	202.00	-F4-1	4" Round Nickel Bronze Funnel	714.00
-5	Sediment Bucket	181.50	-F6-1	6" Round Nickel Bronze Funnel	1,044.00
-6	Vandal Proof	91.25	-G-50	4x9" Oval Cast Iron Funnel	706.50
-7	Trap Primer Tapping	No Add	-G-1	4x9" Oval Nickel Bronze Funnel	1,457.00
-8	Ball Float Backwater Valve (2,3,4" Only)	630.00	-S0	Side Outlet (2,3,4" Only)	366.00
-13	Galvanized Body	327.50			

FD-100-EF Floor Drain with Round Funnel





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			4"
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a. 1	- managad		Chart A Max.
Chart A Min.	<i></i>		IVIAX.
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		N	
	PIPE S	SIZE -	

Chart B						
PipeNoPushFemaleInsidePVCSizeHubOnThreadCaulkABS						
2"	3 5/8"	4 1/4"	4 1/4"	4 1/2"	4"	
3"	3 5/8"	4 1/4"	4 1/4"	4 1/2"	4"	
4"	3 5/8"	4 1/4"	4 1/4"	4 1/2"	4"	
6"	3 1/2"	-	-	-	-	

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

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	\$2,258.00
FD-102, 3, 4-EG-50	10	5"	2,3,4"	cast iron	1,508.00



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

3 1/2" Chart A Max. Willin. A Levy O	4" X 9"
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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 fo	or FD-100 Series:				
Suffix	Description	List Price	Suffix	Description	List Price
None	No Hub Outlet	No Add	-13	Galvanized Body	\$327.50
Р	Push-On Outlet	No Add	-15	Strainer Extension (DD-50)	263.50
T	Threaded Outlet	\$135.50	-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	202.00	-F6-1	6" Round Nickel Bronze Funnel	1,044.00
-5	Sediment Bucket	181.50	-S0	Side Outlet (2, 3, 4" Only)	366.00
-6	Vandal Proof	91.25			
-7	Trap Primer Tapping	No Add			
-8	Ball Float Backwater Valve (2,3,4" Only)	630.00			

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	\$1,733.00
FD-102, 3, 4-ER7	12	7"	2,3,4"	nickel bronze	1,863.00
FD-102, 3, 4-ER9	13	9"	2,3,4"	nickel bronze	2,611.00



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"	-	-	-	-		

Chart A PIPE SIZE -

8 1/8" 5" OR 7"

> Chart A Max.

> > Chart B

FD-100-FC

Floor Drain with Surface Membrane Clamp

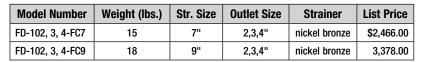
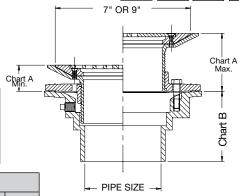




Chart A				
Strainer Dia.	Min.	Max.		
7"	2 1/4"	3 3/4"		
9"	2 1/4"	3 3/4"		

	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"	-	-	-	-			

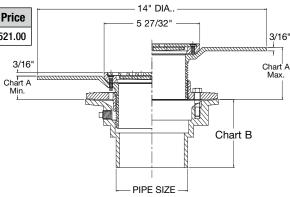


Options f	Options for FD-100 Series:						
Suffix	Description	List Price	Suffix	Description	List Price		
None	No Hub Outlet	No Add	-15	Strainer Extension (DD-50)	\$236.50		
Р	Push-On Outlet	No Add	-60	PVC Body w/Socket Outlet (2,3,4" Only)	No Add		
T	Threaded Outlet	\$135.50	-61	ABS Body w/Socket Outlet (2,3,4" Only)	No Add		
Χ	Inside Caulk	No Add	-F4-50	4" Round Cast Iron Funnel	300.00		
None	6" Outlet No Hub Only	202.00	-F4-1	4" Round Nickel Bronze Funnel	714.00		
-5	Sediment Bucket	181.50	-F6-1	6" Round Nickel Bronze Funnel	1,044.00		
-6	Vandal Proof	91.25	-G-50	4x9" Oval Cast Iron Funnel	706.50		
-7	Trap Primer Tapping	No Add	-G-1	4x9" Oval Nickel Bronze Funnel	1,457.00		
-8	Ball Float Backwater Valve (2,3,4" Only)	630.00	-S0	Side Outlet (2,3,4" Only)	366.00		
-13	Galvanized Body	327.50					

FD-100-H Floor Drain with Elastomeric Flange







Cha	art 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"	-	-	-	-		

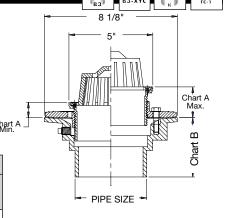
FD-100-K Floor Drain with Dome Strainer

Model Number	Weight (lbs.)	Str. Size	Outlet Size	Strainer	List Price
FD-102, 3, 4-K	11	5" dome	2,3,4"	nickel bronze	\$1,135.00



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)	\$236.50	
P	Push-On Outlet	No Add	-60	PVC Body w/Socket Outlet (2,3,4" Only)	No Add	
T	Threaded Outlet	\$135.50	-61	ABS Body w/Socket Outlet (2,3,4" Only)	No Add	
X	Inside Caulk	No Add	-F4-50	4" Round Cast Iron Funnel	300.00	
None	6" Outlet No Hub Only	202.00	-F4-1	4" Round Nickel Bronze Funnel	714.00	
-5	Sediment Bucket	181.50	-F6-1	6" Round Nickel Bronze Funnel	1,044.00	
-6	Vandal Proof	91.25	-G-50	4x9" Oval Cast Iron Funnel	706.50	
-7	Trap Primer Tapping	No Add	-G-1	4x9" Oval Nickel Bronze Funnel	1,457.00	
-8	Ball Float Backwater Valve (2,3,4" Only)	630.00	-S0	Side Outlet (2,3,4" Only)	366.00	
-13	Galvanized Body	327.50				

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	\$1,249.00
FD-102, 3, 4-L5-4	11	5"x5"	2, 3, 4"	ductile iron	842.50
FD-102, 3, 4-L6	14	6"x6"	2, 3, 4"	nickel bronze	1,468.00
FD-102, 3, 4-L6-9	14	6"x6"	2, 3, 4"	NB hinged	1,928.00
FD-102, 3, 4-L8	16	8"x8"	2, 3, 4"	nickel bronze	2,066.00
FD-102, 3, 4-L8-9	16	8"x8"	2, 3, 4"	NB hinged	2,525.00

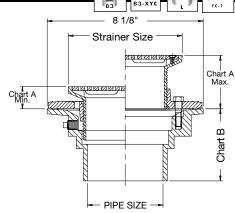




Chart A				
Strainer	Min.	Max.		
5"x5"	7/8"	3 1/4"		
6"x6"	1"	3 1/4"		
8"x8"	1 3/8"	3 5/8"		

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	\$1,073.00
FD-102, 3, 4-M6	14	6"x6"	2, 3, 4"	nickel bronze	1,195.00
FD-102, 3, 4-M6-9	14	6"x6"	2, 3, 4"	NB hinged	1,658.00
FD-102, 3, 4-M8	16	8"x8"	2, 3, 4"	nickel bronze	1,738.00
FD-102, 3, 4-M8-9	16	8"x8"	2, 3, 4"	NB hinged	2,195.00

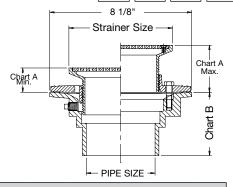




Chart A				
Strainer Min. Max				
5"x5"	7/8"	3 1/4"		
6"x6"	1"	3 1/4"		
8"x8"	1 3/8"	3 5/8"		

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 f	Options for FD-100 Series:							
Suffix	Description	List Price	Suffix	Description	List Price			
None	No Hub Outlet	No Add	-15	Strainer Extension (DD-50)	\$236.50			
Р	Push-On Outlet	No Add	-60	PVC Body w/Socket Outlet (2,3,4" Only)	No Add			
T	Threaded Outlet	\$135.50	-61	ABS Body w/Socket Outlet (2,3,4" Only)	No Add			
Х	Inside Caulk	No Add	-F4-50	4" Round Cast Iron Funnel	300.00			
None	6" Outlet No Hub Only	202.00	-F4-1	4" Round Nickel Bronze Funnel	714.00			
-5	Sediment Bucket	181.50	-F6-1	6" Round Nickel Bronze Funnel	1,044.00			
-6	Vandal Proof	91.25	-G-50	4x9" Oval Cast Iron Funnel	706.50			
-7	Trap Primer Tapping	No Add	-G-1	4x9" Oval Nickel Bronze Funnel	1,457.00			
-8	Ball Float Backwater Valve (2,3,4" Only)	630.00	-S0	Side Outlet (2,3,4" Only)	366.00			
-13	Galvanized Body	327.50						

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	\$1,762.00
FD-102, 3, 4-RS412	14	4"x12"	2, 3, 4"	nickel bronze	2,127.00
FD-102, 3, 4-RS517	24	5"x17"	2, 3, 4"	nickel bronze	2,543.00



Chart A				
Strainer	Max.			
4"x8"	1 1/2"	3 3/4"		
4"x12"	1 1/2"	3 3/4"		
5"x17"	2"	4 3/8"		

Min.

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

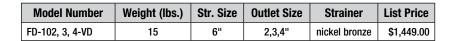
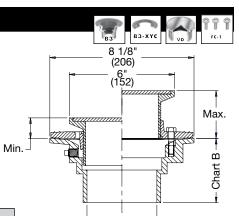




Chart A				
Strainer	Strainer Min. Max			
6"	13/16"	3 1/4"		

	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"	-	-	-	-			



- Pipe Size -

Strainer Size

Pipe Size

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Max.

-CHART

Options f	or FD-100 Series:				
Suffix	Description	List Price	Suffix	Description	List Price
None	No Hub Outlet	No Add	-15	Strainer Extension (DD-50)	\$236.50
Р	Push-On Outlet	No Add	-60	PVC Body w/Socket Outlet (2,3,4" Only)	No Add
T	Threaded Outlet	\$135.50	-61	ABS Body w/Socket Outlet (2,3,4" Only)	No Add
X	Inside Caulk	No Add	-F4-50	4" Round Cast Iron Funnel	300.00
None	6" Outlet No Hub Only	202.00	-F4-1	4" Round Nickel Bronze Funnel	714.00
-5	Sediment Bucket	181.50	-F6-1	6" Round Nickel Bronze Funnel	1,044.00
-6	Vandal Proof	91.25	-G-50	4x9" Oval Cast Iron Funnel	706.50
-7	Trap Primer Tapping	No Add	-G-1	4x9" Oval Nickel Bronze Funnel	1,457.00
-8	Ball Float Backwater Valve (2,3,4" Only)	630.00	-S0	Side Outlet (2,3,4" Only)	366.00
-13	Galvanized Body	327.50		, ,	

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	\$2,066.00



	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"	-	-	-	-	

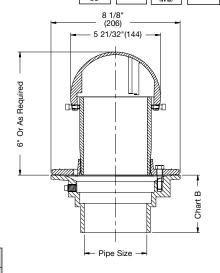
1 5/16 Min. (32) le Inside PVC/ ad Caulk ABS " 4 1/2" 4" " 4 1/2" 4" " 4 1/2" 4"

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"	\$1,932.00



	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"	
ĺ	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"	
ĺ	6"	3 1/2"	-	-	-	-	



8 1/8" (206) 6" (152)

- Pipe Size _ 7" Dia. (178) 3" Max.

Options for FD-100 Series:						
Suffix	Description	List Price	Suffix	Description	List Price	
None	No Hub Outlet	No Add	-15	Strainer Extension (DD-50)	\$236.50	
P	Push-On Outlet	No Add	-60	PVC Body w/Socket Outlet (2,3,4" Only)	No Add	
T	Threaded Outlet	\$135.50	-61	ABS Body w/Socket Outlet (2,3,4" Only)	No Add	
Χ	Inside Caulk	No Add	-F4-50	4" Round Cast Iron Funnel	300.00	
None	6" Outlet No Hub Only	202.00	-F4-1	4" Round Nickel Bronze Funnel	714.00	
-5	Sediment Bucket	181.50	-F6-1	6" Round Nickel Bronze Funnel	1,044.00	
-6	Vandal Proof	91.25	-G-50	4x9" Oval Cast Iron Funnel	706.50	
-7	Trap Primer Tapping	No Add	-G-1	4x9" Oval Nickel Bronze Funnel	1,457.00	
-8	Ball Float Backwater Valve (2,3,4" Only)	630.00	-S0	Side Outlet (2,3,4" Only)	366.00	
-13	Galvanized Body	327.50				

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	\$717.00
FD-202, 3, 4-A6	9.5	6"	2, 3, 4"	nickel bronze	879.00
FD-202, 3, 4-A7	12	7"	2, 3, 4"	nickel bronze	1,030.00
FD-202, 3, 4-A8	16	8"	2, 3, 4"	nickel bronze	1,558.00
FD-202, 3, 4-A10	20	10"	2, 3, 4"	nickel bronze	1,946.00

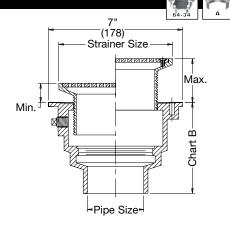




Chart A					
Strainer	Min.	Max.			
5"	7/16"	2 1/4"			
6"	5/8"	2 1/4"			
7"	11/16"	2 1/4"			
8"	3/4"	2 3/4			
10"	1"	2 1/4			

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	\$692.50
FD-202, 3, 4-B5	8	5"	2, 3, 4"	nickel bronze	885.00
FD-202, 3, 4-B6	9.5	6"	2, 3, 4"	nickel bronze	1,223.00
FD-202, 3, 4-B8	16	8"	2, 3, 4"	nickel bronze	1,658.00
FD-202, 3, 4-B10	20	10"	2, 3, 4"	nickel bronze	2,665.00

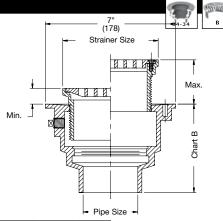




Chart A					
Strainer	Min.	Max.			
5"	1"	2 1/4"			
6"	1"	2 1/4"			
8"	1 7/16"	2 3/4			
10"	1"	2 1/4			

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 fo	Options for FD-200 Series:						
Suffix	Description	List Price	Suffix	Description	List Price		
None	No Hub Outlet	No Add	-15	Strainer Extension (DD-50)	\$236.50		
Р	Push-On Outlet	No Add	-60	PVC Body w/Socket Outlet	No Add		
Х	Inside Caulk	No Add	-61	ABS Body w/Socket Outlet	No Add		
-5	Sediment Bucket	\$181.50	-F4-50	4" Round Cast Iron Funnel	300.00		
-6	Vandal Proof	91.25	-F4-1	4" Round Nickel Bronze Funnel	714.00		
-7	Trap Primer Tapping	No Add	-F6-1	6" Round Nickel Bronze Funnel	1,044.00		
-8	Ball Float Backwater Valve (2,3,4" Only)	630.00	-G-50	4x9" Oval Cast Iron Funnel	706.50		
-13	Galvanized Body	327.50	-G-1	4x9" Oval Nickel Bronze Funnel	1,457.00		



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	\$848.00
FD-292, 3, 4-PR6	15	6"(152)	2, 3, 4"	nickel bronze	1,024.00
FD-292, 3, 4-PR7	17	7"(178)	2, 3, 4"	nickel bronze	1,281.00
FD-292, 3, 4-PR8	20	8"(203)	2, 3, 4"	nickel bronze	1,606.00



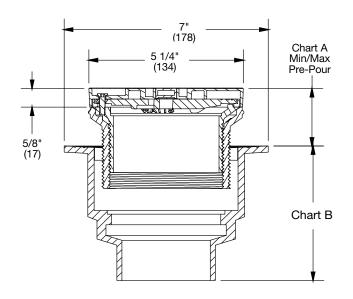
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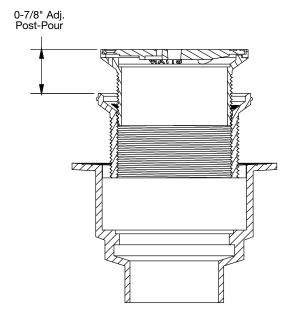


Strainer Size	Min.	Max.	Load Rating	Free Area Sq. In
5"(127)	1 1/2"(38)	3 1/4"(83)	MD	6 1/16"(154)
6"(152)	1 1/2"(38)	3 1/4"(83)	LD	10 3/4"(273)
7"(178)	1 9/16"(40)	3 5/16"(84)	LD	13 1/4"(337)
8"(203)	1 11/16"(43)	3 7/16"(87)	MD	19"(483)

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)





Options f	or FD-290-PR Series				
Suffix	Description	List Price	Suffix	Description	List Price
None	No Hub Outlet	No Add	-15	Strainer Extension (DD-50)	\$229.50
P	Push-On Outlet	No Add	-F4-50	4" Round Cast Iron Funnel	291.00
T	Threaded Outlet	\$131.50	-F4-1	4" Round Nickel Bronze Funnel	693.00
Χ	Inside Caulk	No Add	-F6-1	6" Round Nickel Bronze Funnel	1,013.00
None	6" Outlet No Hub Only	196.00	-G-50	4x9" Oval Cast Iron Funnel	685.50
-7	Trap Primer Tapping	No Add	-G-1	4x9" Oval Nickel Bronze Funnel	1,414.00
-8	Ball Float Backwater Valve (2, 3, 4" Only)	611.50			
-13	Galvanized Body	317.50			



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	\$481.00
FD-292, 3, 4-PR6-60	5	6"(152)	2, 3, 4"	nickel bronze	697.00
FD-292, 3, 4-PR7-60	6	7"(178)	2, 3, 4"	nickel bronze	825.00
FD-292, 3, 4-PR8-60	7	8"(203)	2, 3, 4"	nickel bronze	894.50



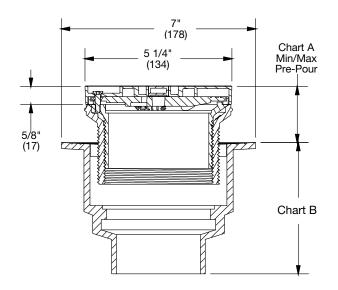
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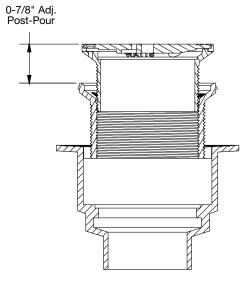


Strainer Min. Max.		Max.	Load Rating	Free Area Sq. In				
5"(127)	1 1/2"(38)	3 1/4"(83)	MD	6 1/16"(154)				
6"(152)	1 1/2"(38)	3 1/4"(83)	LD	10 3/4"(273)				
7"(178)	1 9/16"(40)	3 5/16"(84)	LD	13 1/4"(337)				
8"(203)	1 11/16"(43)	3 7/16"(87)	MD	19"(483)				



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	\$1,414.00
-8	Ball Float Backwater Valve	\$611.50			
-61	ABS Body w/Socket Outlet	164.50			
-F4-50	4" Round Cast Iron Funnel	291.00			
F4-1	4" Round Nickel Bronze Funnel	693.00			
-F6-1	6" Round Nickel Bronze Funnel	1,013.00			
-G-50	4x9" Oval Cast Iron Funnel	685.50			
-15	Strainer Extension (DD-50)	229.50			



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	\$3,152.00



Cha	rt A
Min.	Мах
13/16"	3 1/4"

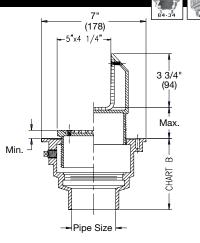


Chart B					
Pipe Size	No Hub	Push On	PVC/ ABS		
2"	4 3/4"	5 1/2"	4"		
3"	4 3/4"	5 1/2"	4"		
4"	4 3/4"	5 1/2"	4"		

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	\$652.00
FD-202, 3, 4-DD-1	7	N/A	2, 3, 4"	nickel bronze	1,139.00



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

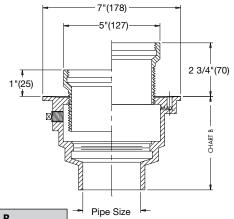


Chart B					
Pipe Size	PVC/ ABS				
2"	2" 4 3/4"		4"		
3"	3" 4 3/4"		4"		
4"	4 3/4"	5 1/2"	4"		

Options f	or FD-200 Series:				
Suffix	Description	List Price	Suffix	Description	List Price
None	No Hub Outlet	No Add	-15	Strainer Extension (DD-50)	\$236.50
Р	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	\$181.50	-F4-50	4" Round Cast Iron Funnel	300.00
-6	Vandal Proof	91.25	-F4-1	4" Round Nickel Bronze Funnel	714.00
-7	Trap Primer Tapping	No Add	-F6-1	6" Round Nickel Bronze Funnel	1,044.00
-8 -13	Ball Float Backwater Valve (2,3,4" Only) Galvanized Body	630.00 327.50	-G-50 -G-1	4x9" Oval Cast Iron Funnel 4x9" Oval Nickel Bronze Funnl	706.50 1,457.00

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	\$1,413.00
FD-202, 3, 4-EF-50	10	5"	2, 3, 4"	nickel bronze	994.50



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

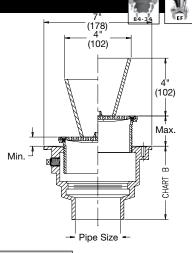


Chart B						
Pipe No Push PVC/ Size Hub On ABS						
2"	4 3/4"	5 1/2"	4"			
3"	4 3/4"	5 1/2"	4"			
4"	4 3/4"	5 1/2"	4"			

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	\$2,153.00
FD-202, 3, 4-EG-50	10	5"	2, 3, 4"	cast iron	1,406.00



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

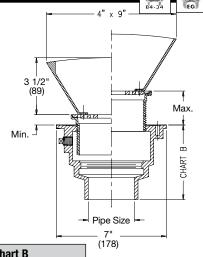


Chart B						
Pipe Size						
2"	4 3/4"	5 1/2"	4"			
3"	4 3/4"	5 1/2"	4"			
4"	4 3/4"	5 1/2"	4"			

Options fo	or FD-200 Series:				
Suffix	Description	List Price	Suffix	Description	List Price
None	No Hub Outlet	No Add	-15	Strainer Extension (DD-50)	\$236.50
Р	Push-On Outlet	No Add	-60	PVC Body w/Socket Outlet	No Add
Х	Inside Caulk	No Add	-61	ABS Body w/Socket Outlet	No Add
-5	Sediment Bucket	\$181.50	-F6-1	6" Round Nickel Bronze Funnel	1,044.00
-6	Vandal Proof	91.25			
-7	Trap Primer Tapping	No Add			
-8 -13	Ball Float Backwater Valve (2,3,4" Only) Galvanized Body	630.00 327.50			



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	\$1,628.00
FD-202, 3, 4-ER7	12	7"	2, 3, 4"	nickel bronze	1,758.00
FD-202, 3, 4, ER9	13	9"	2, 3, 4"	nickel bronze	2,240.00



B4-34	ER
5"(127) or 7"(178)	
5"(127) or 7"(178) — Min.	Max.
Pipe Size	
·	
7"(178) ───	

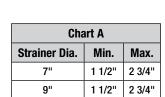
Chart A					
Strainer Dia.	Min.	Max.			
5"	1 3/4"	3"			
7"	1 3/4"	3"			
9"	1 3/4"	3"			

Chart B					
Pipe No Push PVC Size Hub On AB					
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	\$2,361.00
FD-202, 3, 4-FC9	16	9"	2, 3, 4"	nickel bronze	3,273.00





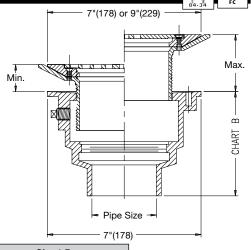


Chart B					
Pipe Size	No Hub	Push On	PVC/ ABS		
2"	4 3/4"	5 1/2"	4"		
3"	4 3/4"	5 1/2"	4"		
4"	4 3/4"	5 1/2"	4"		

Options fo	or FD-200 Series:				
Suffix	Description	List Price	Suffix	Description	List Price
None	No Hub Outlet	No Add	-15	Strainer Extension (DD-50)	\$236.50
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	\$181.50	-F4-50	4" Round Cast Iron Funnel	300.00
-6	Vandal Proof	91.25	-F4-1	4" Round Nickel Bronze Funnel	714.00
-7	Trap Primer Tapping	No Add	-F6-1	6" Round Nickel Bronze Funnel	1,044.00
-8 -13	Ball Float Backwater Valve (2,3,4" Only) Galvanized Body	630.00 327.50	-G-50 -G-1	4x9" Oval Cast Iron Funnel 4x9" Oval Nickel Bronze Funnl	706.50 1,457.00

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	\$2,465.00



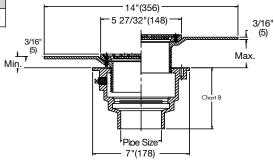


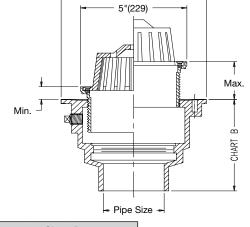
Chart A					
Strainer Dia. Min. Max.					
6"	1"	2 1/4"			

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	\$1,030.00





7"(178)

Cha	art A	
Strainer Dia.	Min.	Max.
5"	1"	2 1/4"

Chart B					
Pipe No Push PVC					
Size	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	Options for FD-200 Series:							
Suffix	Description	List Price	Suffix	Description	List Price			
None	No Hub Outlet	No Add	-15	Strainer Extension (DD-50)	\$236.50			
P	Push-On Outlet	No Add	-60	PVC Body w/Socket Outlet	No Add			
Χ	Inside Caulk	No Add	-61	ABS Body w/Socket Outlet	No Add			
-5	Sediment Bucket	\$181.50	-F4-50	4" Round Cast Iron Funnel	300.00			
-6	Vandal Proof	91.25	-F4-1	4" Round Nickel Bronze Funnel	714.00			
-7	Trap Primer Tapping	No Add	-F6-1	6" Round Nickel Bronze Funnel	1,044.00			
-8 -13	Ball Float Backwater Valve (2,3,4" Only) Galvanized Body	630.00 327.50	-G-50 -G-1	4x9" Oval Cast Iron Funnel 4x9" Oval Nickel Bronze Funnl	706.50 1,457.00			



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	\$1,145.00
FD-202, 3, 4-L5-4	11	5" Sq.	2, 3, 4"	ductile iron	740.50
FD-202, 3, 4-L6	14	6" Sq.	2, 3, 4"	nickel bronze	1,365.00
FD-202, 3, 4-L6-9	14	6" Sq.	2, 3, 4"	NB hinged	1,825.00
FD-202, 3, 4-L8	16	8" Sq.	2, 3, 4"	nickel bronze	1,782.00
FD-202, 3, 4-L8-9	16	8" Sq.	2, 3, 4"	NB hinged	2,420.00

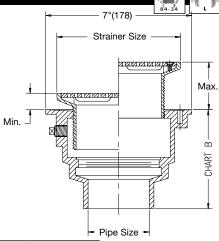




Chart A					
Strainer Dia. Min. Max.					
5"x5"	1 1/2"	2 5/16"			
6"x6"	1 1/2"	2 5/16"			
8"x8"	1 1/2"	2 3/4"			

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	\$1,073.00
FD-202, 3, 4-M6	14	6" Sq.	2, 3, 4"	nickel bronze	1,195.00
FD-202, 3, 4-M6-9	14	6" Sq.	2, 3, 4"	NB hinged	1,348.00
FD-202, 3, 4-M8	16	8" Sq.	2, 3, 4"	nickel bronze	1,738.00
FD-202, 3, 4-M8-9	16	8" Sq.	2, 3, 4"	NB hinged	2,195.00



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"			

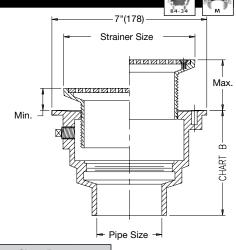


Chart B						
Pipe Size	No Hub	Push On	PVC/ ABS			
2"	4 3/4"	5 1/2"	4"			
3"	4 3/4"	5 1/2"	4"			
4"	4 3/4"	5 1/2"	4"			

Options fo	Options for FD-200 Series:							
Suffix	Description	List Price	Suffix	Description	List Price			
None	No Hub Outlet	No Add	-15	Strainer Extension (DD-50)	\$236.50			
Р	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	\$181.50	-F4-50	4" Round Cast Iron Funnel	300.00			
-6	Vandal Proof	91.25	-F4-1	4" Round Nickel Bronze Funnel	793.50			
-7	Trap Primer Tapping	No Add	-F6-1	6" Round Nickel Bronze Funnel	1,044.00			
-8 -13	Ball Float Backwater Valve (2,3,4" Only) Galvanized Body	630.00 327.50	-G-50 -G-1	4x9" Oval Cast Iron Funnel 4x9" Oval Nickel Bronze Funnl	706.50 1,457.00			

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	\$1,658.00
FD-202, 3, 4-RS412	14	4"x12"	2, 3, 4"	nickel bronze	2,022.00
FD-202, 3, 4-RS517	24	5"x17"	2, 3, 4"	nickel bronze	2,437.00

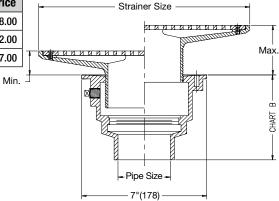




Chart A					
Strainer	Max.				
4"x8"	1 1/2"	2 3/4"			
4"x12"	1 1/2"	3"			
5"x17"	1 1/2"	3 1/2"			

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





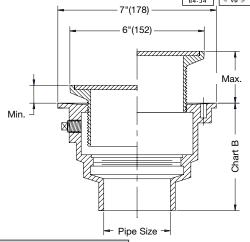


Chart B				
Pipe Size	No Hub	Push On	PVC/ ABS	
2"	4 3/4"	5 1/2"	4"	
3"	4 3/4"	5 1/2"	4"	
4"	4 3/4"	5 1/2"	4"	

Options fo	or FD-200 Series:				
Suffix	Description	List Price	Suffix	Description	List Price
None	No Hub Outlet	No Add	-15	Strainer Extension (DD-50)	\$236.50
P	Push-On Outlet	No Add	-60	PVC Body w/Socket Outlet	No Add
Х	Inside Caulk	No Add	-61	ABS Body w/Socket Outlet	No Add
-5	Sediment Bucket	\$181.50	-F4-50	4" Round Cast Iron Funnel	300.00
-6	Vandal Proof	91.25	-F4-1	4" Round Nickel Bronze Funnel	793.50
-7	Trap Primer Tapping	No Add	-F6-1	6" Round Nickel Bronze Funnel	1,044.00
-8 -13	Ball Float Backwater Valve (2,3,4" Only) Galvanized Body	630.00 327.50	-G-50 -G-1	4x9" Oval Cast Iron Funnel 4x9" Oval Nickel Bronze Funnl	706.50 1,457.00



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	\$1,961.00



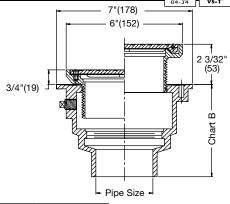


	Chart B				
Pipe Size	•		PVC/ ABS		
2"	4 3/4"	5 1/2"	4"		
3"	4 3/4"	5 1/2"	4"		
4"	4 3/4"	5 1/2"	4"		

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"	\$1,724.00



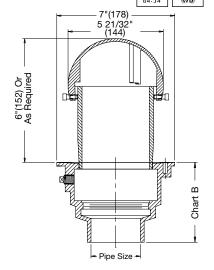


Chart B				
Pipe Size	No Hub	Push On	PVC/ ABS	
2"	4 3/4"	5 1/2"	4"	
3"	4 3/4"	5 1/2"	4"	
4"	4 3/4"	5 1/2"	4"	

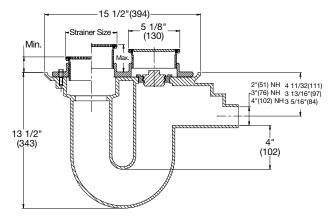
Options fo	or FD-200 Series:				
Suffix	Description	List Price	Suffix	Description	List Price
None	No Hub Outlet	No Add	-15	Strainer Extension (DD-50)	\$236.50
Р	Push-On Outlet	No Add	-60	PVC Body w/Socket Outlet	No Add
Х	Inside Caulk	No Add	-61	ABS Body w/Socket Outlet	No Add
-5	Sediment Bucket	\$181.50	-F4-50	4" Round Cast Iron Funnel	300.00
-6	Vandal Proof	91.25	-F4-1	4" Round Nickel Bronze Funnel	793.50
-7	Trap Primer Tapping	No Add	-F6-1	6" Round Nickel Bronze Funnel	1,044.00
-8 -13	Ball Float Backwater Valve (2,3,4" Only) Galvanized Body	630.00 327.50	-G-50 -G-1	4x9" Oval Cast Iron Funnel 4x9" Oval Nickel Bronze Funnl	706.50 1,457.00

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	\$2,959.00
FD-232, 3, 4-A6	58	6"	2, 3, 4"	nickel bronze	3,142.00
FD-232, 3, 4-A7	60	7"	2, 3, 4"	nickel bronze	3,307.00
FD-232, 3, 4-M5	60	5"	2, 3, 4"	nickel bronze	3,084.00
FD-232, 3, 4-M6	60	6"	2, 3, 4"	nickel bronze	3,010.00





(Chart A					
Str. Size	Max.					
5" Dia.	1 7/16"	2 1/4"				
6" Dia.	1 9/16"	2 3/8"				
7" Dia.	11/16"	3 1/4"				
5" Sq.	7/8"	3 1/4"				
6" Sq.	1"	3 1/4"				

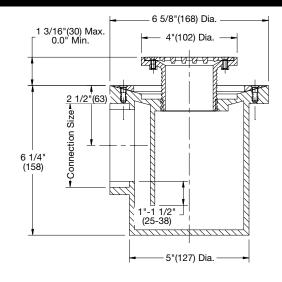
Options for	Options for FD-230 Series:								
Suffix	Description	List Price	Suffix	Description	List Price				
-7	Trap Primer Tapping	\$252.00	-F6-1	6" Round Nickel Bronze Funnel	\$1,044.00				
-15 -F4-50 -F4-1	Strainer Extension (DD-50) 4" Round Cast Iron Funnel 4" Round Nickel Bronze Funnel	236.50 300.00 714.00	-G-50 -G-1	4x9" Oval Cast Iron Funnel 4x9" Oval Nickel Bronze Funnl	706.50 1,457.00				

FD-240

Prison Cell Floor Drain

Model Number	Weight (lbs.)	Str. Size	Outlet Size	Strainer	List Price
FD-242	15	4"	2"	nickel bronze	\$1,677.00
FD-243	14	4"	3"	nickel bronze	1,872.00





Options for FD-240 Series					
Suffix	Description	List Price			
-7	Trap Primer Tapping	\$252.50			
-CP	Chrome Plated Top	433.00			



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	\$786.50
FD-302, 3, 4-1	18	7"	2,3,4"	nickel bronze	1,755.00



Options for FD-300 Series					
Suffix	Description	List Price			
-C	Membrane Clamp	\$221.00			

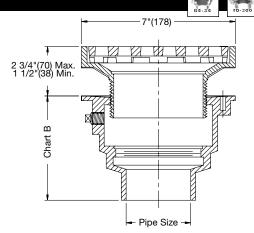
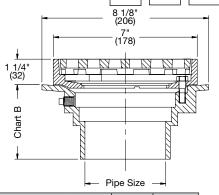


Chart B							
Pipe No Push PVO Size Hub On AB							
2"	4 3/4"	5 1/2"	4"				
3"	4 3/4"	5 1/2"	4"				
4"	4 3/4"	5 1/2"	4"				

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	\$729.50
FD-312, 3, 4-1	18	7"	2,3,4"	nickel bronze	1,747.00





	Cha				
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 f	for FD-300, 310, 320, 330 Series:				
Suffix	Description	List Price	Suffix	Description	List Price
None P T	No Hub Push-On Threaded Outlet	No Add No Add \$135.50	-34 -60 -61	Closure Plug PVC Body w/Socket Outlet (2,3,4" only) ABS Body w/Socket Outlet (2,3,4" only)	\$203.50 No Add No Add
X None	Inside Caulk Outlet 6" Outlet - No Hub Only	No Add 202.00	-F4-50 -F4-1	4" Round Cast Iron Funnel 4" Round Nickel Bronze Funnel	300.00 714.00
-5 -6	Sediment Bucket Vandal Proof	232.00 246.50	-F6-1 -G-50	6" Round Nickel Bronze Funnel 4x9" Oval Cast Iron Funnel	1,044.00 706.50
-7 -8 -13	Trap Primer Tapping Ball Float Backwater Valve (2,3,4" Only) All Galvanized (unless other top specified)	No Add 630.00 710.00	-G-1 -S0	4x9" Oval Nickel Bronze Funnel Side Outlet (2, 3, 4" only)	1,457.00 366.00
-21	Secondary Strainer	114.00			

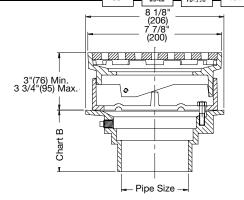


FD-320

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	\$1,187.00
FD-322, 3, 4-1	20	8"	2, 3, 4"	nickel bronze	2,088.00





	Ch				
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	\$1,384.00
FD-322, 3, 4-Set-1	19	8"	2, 3, 4"	nickel bronze	3,219.00



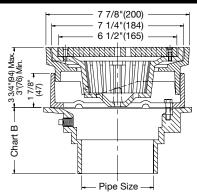


Chart B								
Pipe Size	•		Female Thread	Inside Caulk	PVC/ ABS			
2"	3 5/8"	3 5/8"	4 1/4"	4 1/4"	2 3/4"			
3"	3 5/8"	4"	4 1/4"	4 1/4"	3 5/8"			
4"	3 5/8"	4"	4 1/4"	4 1/4	3 7/8"			
6"	3 1/2"	-	-	-	-			

Options for FD-300, 310, 320, 330 Series:				
Suffix	Description	List Price	9	
None	No Hub	No Add		

Suttix	Description	List Price	Suttix	Description	LIST Price
None	No Hub	No Add	-34	Closure Plug	\$203.50
Р	Push-On	No Add	-60	PVC Body w/Socket Outlet (2,3,4" only)	No Add
T	Threaded Outlet	\$135.50	-61	ABS Body w/Socket Outlet (2,3,4" only)	No Add
Χ	Inside Caulk Outlet	No Add	-F4-50	4" Round Cast Iron Funnel	300.00
None	6" Outlet - No Hub Only	202.00	-F4-1	4" Round Nickel Bronze Funnel	714.00
-5	Sediment Bucket	232.00	-F6-1	6" Round Nickel Bronze Funnel	1,044.00
-6	Vandal Proof	246.50	-G-50	4x9" Oval Cast Iron Funnel	706.50
-7	Trap Primer Tapping	No Add	-G-1	4x9" Oval Nickel Bronze Funnel	1,457.00
-8	Ball Float Backwater Valve (2,3,4" Only)	630.00	-S0	Side Outlet (2, 3, 4" only)	366.00
-13	All Galvanized (unless other top specified)	710.00			
-21	Secondary Strainer	114 00			



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	\$848.00
FD-322, 3, 4-Y-1	20	8"	2, 3, 4"	nickel bronze	1,832.00



Options for FD-320-Y Series					
Suffix	Description	List Price			
-5SS	Type 304 Stainless Steel Sediment Bucket	\$574.50			
-28	All Type 304 Stainless Steel	1,633.00			

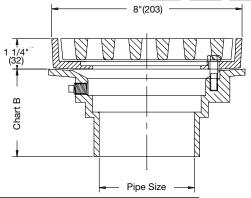
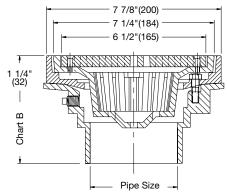


Chart B								
Pipe Size	No Hub	Push Female On Thread		Inside Caulk	PVC/ ABS			
2"	3 5/8"	3 5/8"	4 1/4"	4 1/4"	2 3/4"			
3"	3 5/8"	4"	4 1/4"	4 1/4"	3 5/8"			
4"	3 5/8"	4"	4 1/4"	4 1/4	3 7/8"			
6"	3 1/2"	-	-	-	-			

FD-320-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	\$998.50
FD-322, 3, 4-Y-SET-1	19	8"	2, 3, 4"	nickel bronze	2,435.00





	Ch				
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 f	Options for FD-300, 310, 320, 330 Series:							
Suffix	Description	List Price	Suffix	Description	List Price			
None	No Hub	No Add	-34	Closure Plug	\$203.50			
P T	Push-On Threaded Outlet	No Add \$135.50	-60 -61	PVC Body w/Socket Outlet (2,3,4" only) ABS Body w/Socket Outlet (2,3,4" only)	No Add No Add			
X None	Inside Caulk Outlet 6" Outlet - No Hub Only	No Add 202.00	-F4-50 -F4-1	4" Round Cast Iron Funnel 4" Round Nickel Bronze Funnel	300.00 714.00			
-5	Sediment Bucket	232.00	-F6-1	6" Round Nickel Bronze Funnel	1,044.00			
-6	Vandal Proof	246.50	-G-50	4x9" Oval Cast Iron Funnel	706.50			
-7	Trap Primer Tapping	No Add	-G-1	4x9" Oval Nickel Bronze Funnel	1,457.00			
-8 -13	Ball Float Backwater Valve (2,3,4" Only) All Galvanized (unless other top specified)	630.00 710.00	-S0	Side Outlet (2, 3, 4" only)	366.00			
-21	Secondary Strainer	114.00						



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	\$1,733.00
FD-332, 3, 4-1	23	8" Sq.	2, 3, 4"	nickel bronze	2,911.00



Options for FD-330 Series					
Suffix	Description	List Price			
-9	Hinged Grate	\$433.00			

8"(203) Sq. 4"(102) Max. 3 1/4"(81) Min.

	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	\$1,385.00
FD-332, 3, 4-Y-1	23	8" Sq.	2, 3, 4"	nickel bronze	2,408.00



Options for FD-330-Y Series					
Suffix	Description	List Price			
-9	Hinged Grate	\$433.00			

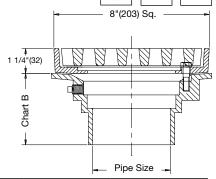


Chart B									
Pipe Size	No Hub	Push On	Female Thread	Inside Caulk	PVC/ ABS				
2"	3 5/8"	3 5/8"	4 1/4"	4 1/4"	2 3/4"				
3"	3 5/8"	4"	4 1/4"	4 1/4"	3 5/8"				
4"	3 5/8"	4"	4 1/4"	4 1/4	3 7/8"				
6"	3 1/2"	-	-	-	-				

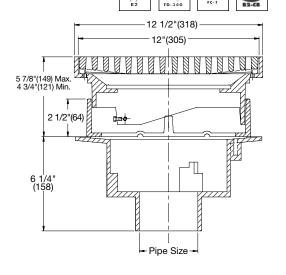
Options '	for FD-300, 310, 320, 330 Series:				
Suffix	Description	List Price	Suffix	Description	List Price
None	No Hub	No Add	-34	Closure Plug	\$203.50
P T	Push-On Threaded Outlet	No Add \$135.50	-60 -61	PVC Body w/Socket Outlet (2,3,4" only) ABS Body w/Socket Outlet (2,3,4" only)	No Add No Add
X None	Inside Caulk Outlet 6" Outlet - No Hub Only	No Add 202.00	-F4-50 -F4-1	4" Round Cast Iron Funnel 4" Round Nickel Bronze Funnel	300.00 714.00
-5	Sediment Bucket	232.00	-F6-1	6" Round Nickel Bronze Funnel	1,044.00
-6	Vandal Proof	246.50	-G-50	4x9" Oval Cast Iron Funnel	706.50
-7	Trap Primer Tapping	No Add	-G-1	4x9" Oval Nickel Bronze Funnel	1,457.00
-8 -13	Ball Float Backwater Valve (2,3,4" Only) All Galvanized (unless other top specified)	630.00 710.00	-S0	Side Outlet (2, 3, 4" only)	366.00
-21	Secondary Strainer	114.00			



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	\$2,456.00
FD-342,3,4,5,6,8-1	62	12"	2,3,4,5,6,8"	nickel bronze	4,554.00

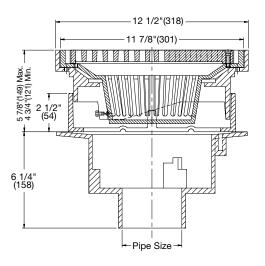




FD-340-SET Area Drain with 12" Round Adjustable Top, Grate Supported By Bucket

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	\$2,969.00
FD-342,3,4,5,6,8-1-SET	62	12"	2,3,4,5,6,8"	nickel bronze	4,217.00





Options	for FD-340, FD-340-SET Series:				
Suffix	Description	List Price	Suffix	Description	List Price
None	No Hub	No Add	-34	Closure Plug	\$203.50
P T	Push-On Outlet (2,3,4,6" only) Threaded Outlet (2,3,4,6" only)	No Add \$135.50	-60 -61	PVC Body w/Socket Outlet (2,3,4" only) ABS Body w/Socket Outlet (2,3,4" only)	No Add No Add
X -5	Inside Caulk Outlet (2,3,4,6" only) Sediment Bucket	No Add 428.50	-F4-50 -F4-1	4" Round Cast Iron Funnel 4" Round Nickel Bronze Funnel	300.00 714.00
-6	Vandal Proof	246.50	-F6-1	6" Round Nickel Bronze Funnel	1,044.00
-7	Trap Primer Tapping	252.50	-G-50	4x9" Oval Cast Iron Funnel	706.50
-8	Ball Float Backwater Valve (2,3,4" only)	630.00	-G-1	4x9" Oval Nickel Bronze Funnel	1,457.00
-13 -21	All Galvanized (unless other top specified) Secondary Strainer	1,348.00 114.00	-S0	Side Outlet (2, 3, 4" only)	561.50



FD-340-Y

Area Drain with 12" Round Fixed Top

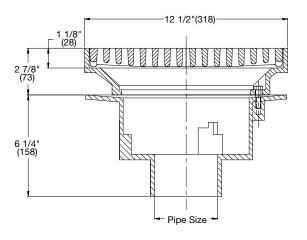






Model Number	Weight (lbs.)	Grate Size	Outlet Size	Grate	List Price
FD-342,3,4,5,6,8-Y	60	12"	2,3,4,5,6,8"	ductile iron	\$1,847.00
FD-342,3,4,5,6,8-Y-1	60	12"	2,3,4,5,6,8"	nickel bronze	3,645.00

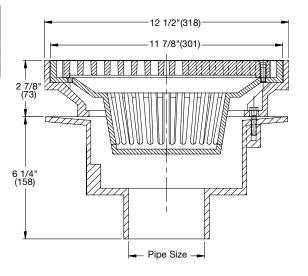




FD-340-Y-SET Area Drain with 12" Round Fixed Top Grate Supported By Bucket

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	\$2,509.00
FD-342,3,4,5,6,8-Y-1-SET	60	12"	2,3,4,5,6,8"	nickel bronze	4,387.00





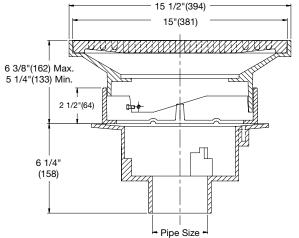
Options t	for FD-340, FD-340-Y Series:				
Suffix	Description	List Price	Suffix	Description	List Price
None	No Hub	No Add	-34	Closure Plug	\$203.50
P T	Push-On Outlet (2,3,4,6" only) Threaded Outlet (2,3,4,6" only)	No Add \$135.50	-60 -61	PVC Body w/Socket Outlet (2,3,4" only) ABS Body w/Socket Outlet (2,3,4" only)	No Add No Add
Х -5	Inside Caulk Outlet (2,3,4,6" only) Sediment Bucket	No Add 428.50	-F4-50 -F4-1	4" Round Cast Iron Funnel 4" Round Nickel Bronze Funnel	300.00 714.00
-6	Vandal Proof	246.50	-F6-1	6" Round Nickel Bronze Funnel	1,044.00
-7	Trap Primer Tapping	252.50	-G-50	4x9" Oval Cast Iron Funnel	706.50
-8	Ball Float Backwater Valve (2,3,4" only)	630.00	-G-1	4x9" Oval Nickel Bronze Funnel	1,457.00
-13 -21	All Galvanized (unless other top specified) Secondary Strainer	1,348.00 114.00	-S0	Side Outlet (2, 3, 4" only)	561.50



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	\$5,513.00
FD-362,3,4,5,6,8-1	110	15"	2,3,4,5,6,8"	nickel bronze	8,355.00



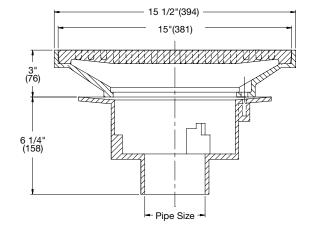


FD-360-Y Area Drain with 15" Round Fixed Top





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	\$4,774.00
FD-362,3,4,5,6,8-Y-1	110	15"	2,3,4,5,6,8"	nickel bronze	7,399.00





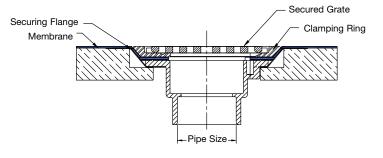
Options 1	for FD-360, FD-360-Y Series:				
Suffix	Description	List Price	Suffix	Description	List Price
None	No Hub	No Add	-34	Closure Plug	\$203.50
P T	Push-On (2,3,4,6" Only) Threaded Outlet (2,3,4,6" Only)	No Add \$135.50	-60 -61	PVC Body w/Socket Outlet (2,3,4,6" Only) ABS Body w/Socket Outlet (2,3,4" Only)	No Add No Add
Χ -5	Inside Caulk Outlet (2,3,4,6" Only) Sediment Bucket	No Add 428.50	-F4-50 -F4-1	4" Round Cast Iron Funnel 4" Round Nickel Bronze Funnel	300.00 714.00
-6	Vandal Proof	246.50	-F6-1	6" Round Nickel Bronze Funnel	1,044.00
-7	Trap Primer Tapping	252.50	-G-50	4x9" Oval Cast Iron Funnel	706.50
-8	Ball Float Backwater Valve (2,3,4" only)	630.00	-G-1	4x9" Oval Nickel Bronze Funnel	1,457.00
-13 -21	All Galvanized (unless other top specified) Secondary Strainer	3,271.00 114.00	-S0	Side Outlet (2, 3, 4" Only)	561.50

Specialty Drains

FD-370 Wood Deck Drain w/Surface Membrane Clamp

Model	Weight	Grate	Outlet	Grate	List
Number	(lbs.)	Size	Size		Price
FD-372	4	5"	2" ABS	aluminum	\$683.00





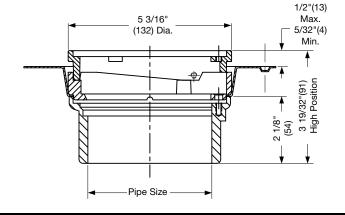
Typical Installation

Options for FD-370 Series:					
Suffix	Description	List Price			
-6	Vandal Proof	\$84.75			

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	\$1,021.00

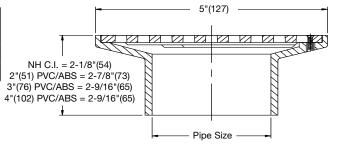




FD-390-E General Purpose Floor Drain

Model Number	Weight (lbs.)	Grate Size	Outlet Size	Grate	List Price
FD-392,3,4-E	5	5"	2,3,4"	ductile iron	\$315.50
FD-392,3,4-E-1	5	5"	2,3,4"	nickel bronze	389.00





Options f	Options for FD-380 Series:						
Suffix	Description	List Price	Suffix	Description	List Price		
None	No Hub	No Add	-F4-1	4" Round Bronze Funnel	\$714.00		
-6	Vandal Proof	\$91.25	-F6-1	6" Round Nickel Bronze Funnel	1,044.00		
-60	PVC Body w/Socket Outlet (2,3,4,6" Only)	No Add	G-50	4x9"0val Cast Iron Funnel	706.50		
-61	ABS Body w/Socket Outlet	No Add	G-1	4x9" Oval Nickel Bronze Funnel	1,457.00		
-E	5/16 Stackable Strainer Extension	139.50					
-F4-50	4" Round Cast Iron Funnel	366.00					

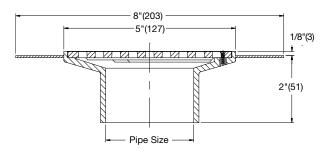


Specialty Drains

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	\$741.50



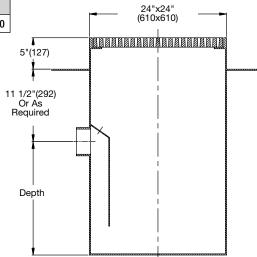


Options for FD-390-E, FD-390-E-63 Series						
Suffix	Description	List Price	Suffix	Description	List Price	
-None	No Hub	No Add	-F4-1	4" Round Nickel Bronze Funnel	\$714.00	
-6	Vandal Proof	\$91.25	-F6-1	6" Round Nickel Bronze Funnel	1,044.00	
-60	PVC Body w/Socket Outlet	No Add	-G-50	4x9" Oval Cast Iron Funnel	706.50	
-61 -F4-50	ABS Body w/Socket Outlet 4" Round Cast Iron Funnel	No Add 300.00	-G-1	4X9" Oval Nickel Bronze Funnel	1,457.00	

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	\$16,544.00





Options for FD-410 Series					
Suffix	Description	List Price			
-6	Vandal Proof	\$322.50			
-Q	Special Dimension	P.O.A.			
-SI	Side Inlet Connection	1,033.00			
-ST	Solid Top	No Add			
-T	Threaded Outlet	445.00			

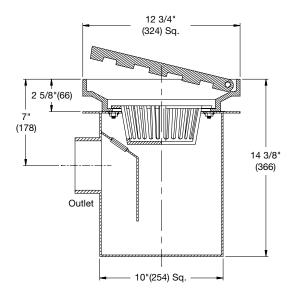


FD-430

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	\$3,646.00
FD-432,3,4-1	63	12 1/2" Sq.	2,3,4"	nickel bronze	5,456.00





Options for FD-430 Series				
Suffix	Description	List Price		
-6	Vandal Proof	\$246.50		
-T	Threaded Outlet	445.00		

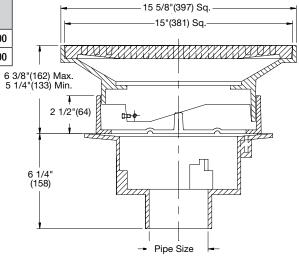
FD-450

Area Drain with 15" x 15" Adjustable Top



Model Number	Weight	Grate Size	Outlet Size	Grate	List
	(lbs.)				Price
FD-452,3,4,5,6,8	120	15"(381) Sq.	2,3,4,5,6,8"	ductile iron	\$4,808.00
FD-452 3 4 5 6 8-1	120	15 1/2"/304) Sa	234568"	nickel bronze	7 696 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	\$203.50
P T	Push-On (2,3,4,6" Only) Threaded Outlet (2,3,4,6" Only)	No Add \$135.50	-60 -61	PVC Body w/Socket Outlet (2,3,4,6" Only) ABS Body w/Socket Outlet (2,3,4" Only)	No Add No Add
X -5	Inside Caulk Outlet (2,3,4,6" Only) Sediment Bucket	No Add 428.50	-F4-50 -F4-1	4" Round Cast Iron Funnel 4" Round Nickel Bronze Funnel	300.00 714.00
-6	Vandal Proof	246.50	-F6-1	6" Round Nickel Bronze Funnel	1,044.00
-7	Trap Primer Tapping	252.50	-G-50	4x9" Oval Cast Iron Funnel	706.50
-8	Ball Float Backwater Valve (2,3,4" only)	630.00	-G-1	4x9" Oval Nickel Bronze Funnel	1,457.00
-9	Hinged Grate	457.00	-S0	Side Outlet	561.50
-13 -21	All Galvanized (unless other top specified) Secondary Strainer	3,271.00 114.00			



FD-450-F Area Drain with 15" x 15" Fixed Top



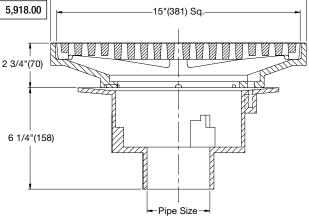
15 5/8"(397) Sq.





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	\$4,105.00
FD-452,3,4,5,6,8-1-F	120	15 1/2"(394) Sq.	2,3,4,5,6,8"	nickel bronze	5,918.00



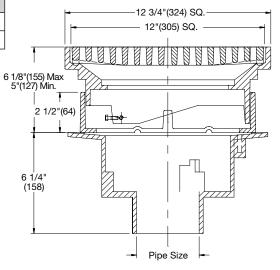


FD-460 Area Drain with 12" Square Adjustable Top



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	\$3,184.00
FD-462,3,4,5,6,8-1	70	12 1/2"(318).	2,3,4,5,6,8"	nickel bronze	7,954.00





Options	for FD-450, FD-450-F Series:				
Suffix	Description	List Price	Suffix	Description	List Price
None	No Hub	No Add	-34	Closure Plug	\$203.50
Р	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)	\$135.50	-61	ABS Body w/Socket Outlet (2,3,4" Only)	No Add
Χ	Inside Caulk Outlet (2,3,4,6" Only)	No Add	-F4-50	4" Round Cast Iron Funnel	300.00
-5	Sediment Bucket	428.50	-F4-1	4" Round Nickel Bronze Funnel	714.00
-6	Vandal Proof	246.50	-F6-1	6" Round Nickel Bronze Funnel	1,044.00
-7	Trap Primer Tapping	252.50	-G-50	4x9" Oval Cast Iron Funnel	706.50
-8	Ball Float Backwater Valve (2,3,4" only)	630.00	-G-1	4x9" Oval Nickel Bronze Funnel	1,457.00
-9	Hinged Grate	457.00	-S0	Side Outlet	561.50
-13	All Galvanized (unless other top specified)	3,271.00			
-21	Secondary Strainer	114.00			



FD-460-F Area Drain with 12" Square Fixed Top

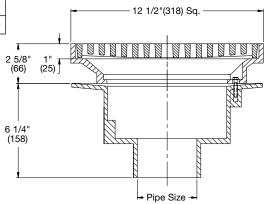






Model Number	Weight (lbs.)	Grate Size	Outlet Size	Grate	List Price
FD-462,3,4,5,6,8-F	85	12"(305) Sq.	2,3,4,5,6,8"	ductile iron	\$2,485.00
FD-462,3,4,5,6,8-F-1	85	12 1/2"(318) Sq.	2,3,4,5,6,8"	nickel bronze	4,626.00



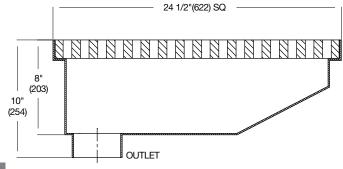


options 1	for FD-460, 460-F Series:				
Suffix	Description	List Price	Suffix	Description	List Price
None	No Hub	No Add	-34	Closure Plug	\$203.50
P T	Push-On (2,3,4,6" Only) Threaded Outlet (2,3,4,6" Only)	No Add \$135.50	-60 -61	PVC Body w/Socket Outlet (2,3,4,6" Only) ABS Body w/Socket Outlet (2,3,4" Only)	No Add No Add
X -5	Inside Caulk Outlet (2,3,4,6" Only) Sediment Bucket	No Add 428.50	-F4-50 -F4-1	4" Round Cast Iron Funnel 4" Round Nickel Bronze Funnel	300.00 714.00
-6	Vandal Proof	246.50	-F6-1	6" Round Nickel Bronze Funnel	1,044.00
-7	Trap Primer Tapping	252.50	-G-50	4x9" Oval Cast Iron Funnel	706.50
-8	Ball Float Backwater Valve (2,3,4" only)	630.00	-G-1	4x9" Oval Nickel Bronze Funnel	1,457.00
-9	Hinged Grate	457.00	-S0	Side Outlet (2,3,4" Only)	561.50
-13 -21	All Galvanized (unless other top specified) Secondary Strainer	1,482.00 114.00		,	

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	\$10,170.00





Options for FD-530 Series						
Suffix	Description	List Price				
-5	Sediment Bucket	\$1,424.00				
-6	Vandal Proof Grate	763.00				
-38	Solids Retaining Baffle	968.00				
-C	Membrane Clamp	1,826.00				
-T	Threaded Outlet	445.00				



Isolation Drains

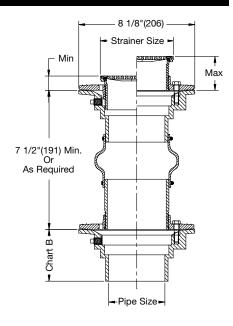
FD-600 Isolation Floor Drain

Model Number	Weight (lbs.)	Strainer Size	Pipe Size	Strainer	List Price
FD-602, 3, 4-A5	17	5"	2,3,4"	nickel bronze	\$2,209.00
FD-602, 3, 4-A6	17.5	6"	2,3,4"	nickel bronze	2,387.00
FD-602, 3, 4-A8	23	8"	2,3,4"	nickel bronze	2,823.00



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			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"			



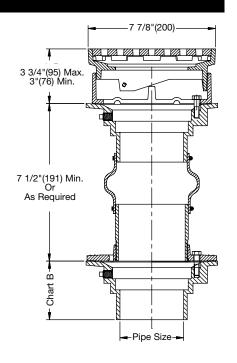
See FD-100 Options on page 17.

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	\$2,808.00
FD-622, 3, 4-1	25	8"	2, 3, 4"	nickel bronze	3,708.00



	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.

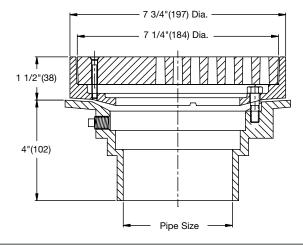


FD-660

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	\$850.00





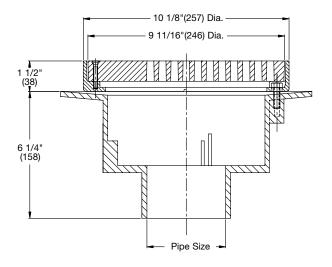
Opti	ons for FD-660 Series:				
Suffix	Description	List Price	Suffix	Description	List Price
-5	Sediment Bucket	\$232.00	-F4-50	4" Round CI Funnel	\$300.00
-6 -7	Vandal Proof Trap Primer Tapping	No Add No Add	-F4-1 -F6-1	4" Round NB Funnel 6" Round NB Funnel	714.00 1,044.00
-34 -61 -150	Closure Plug ABS Body w/Socket Outlet (2, 3, 4" only) 1/2 Grate	203.50 No Add No Add	-G-50 -G-1	4x9" Oval CI Funnel 4x9" Oval NB Funnel	706.50 1,457.00

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	\$1,420.00





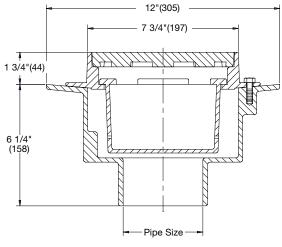
Optio	ons for FD- 670 Series:				
Suffix	Description	List Price	Suffix	Description	List Price
-5	Sediment Bucket	\$345.00	-F4-1	4" Round NB Funel	\$714.00
-6	Vandal Proof	No Add	-F6-1	6" Round NB Funnel	1,044.00
-34	Closure Plug	203.50	-G-50	4x9" Oval Cast Iron Funnel	706.50
-61	ABS Body w/Socket Outlet (2, 3, 4" Only)	No Add	-G-1	4x9" Oval Funnel	1,457.00
-150	1/2 Grate	No Add			
-F4-50	4" Round CI Funnel	300.00			



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	\$2,025.00
FD-812, 3, 4, 5, 6, 8-1	15	8"	2, 3, 4, 5, 6, 8"	nickel bronze	2,925.00



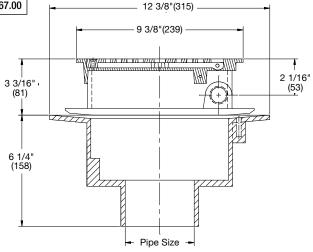


Options for FD-810 Series					
Suffix	Description	List Price			
None	No Hub	No Add			
Р	Push-On Outlet (2,3,4,6" only)	No Add.			
T	Threaded Outlet (2,3,4,6" only)	\$135.50			
Χ	Inside Caulk Outlet (2,3,4,6" only)X	No Add			
-6	Vandal Proof	246.50			
-7	Trap Primer Tapping	252.50			
-60	PVC Body w/Socket Outlet (2,3,4,6" only)	No Add			
-61	ABS Body w/Socket Outlet (2,3,4" only)	No Add			

FD-820 Flushing Rim Floor Drain

Model Number	Weight (lbs.)	Str. Size	Pipe Size	Strainer	List Price
FD-822, 3, 4	30	9 1/2"	2, 3, 4"	nickel bronze	\$4,267.00





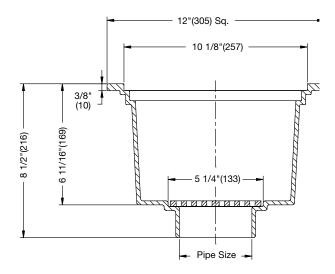
Options for FD-820 Series					
Suffix	Description	List Price			
None	No Hub	No Add			
P	Push-On Outlet (2,3,4,6" only)	No Add.			
T	Threaded Outlet (2,3,4,6" only)	\$135.50			
Χ	Inside Caulk Outlet (2,3,4,6" only)	No Add			
-5 -6	Sediment Bucket	428.50			
-6	Vandal Proof	246.50			



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	\$1,341.00





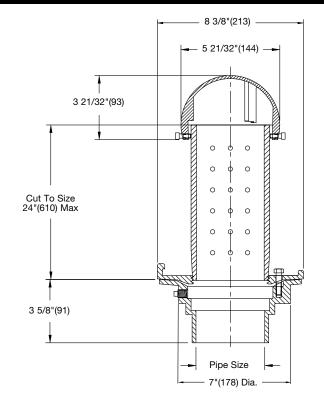
Optio	ons for FD-830 Serie	es
Suffix	Description	List Price
-1	Nickel Bronze Top	\$665.50
-5	Sediment Bucket	400.00
-7 TC	Trap Primer Tapping	252.50 325.50
-5	•	4(2

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"	\$2,109.00



Options for FD-850 Series						
Suffix	Description	List Price				
Р	Push On	No Add				
-13	All Galvanized (unless other top specifed)	\$653.50				
-60	PVC Body w/Socket Outlet	No Add				
-61	ABS Body w/Socket Outlet	No Add				
-B	Sump Receiver	428.50				
-D -F	Underdeck Clamp	249.00				
	Deck Flange/Adj. Extension	833.00				
-S0	Side Outlet	366.00				
-T	Threaded Outlet	135.50				



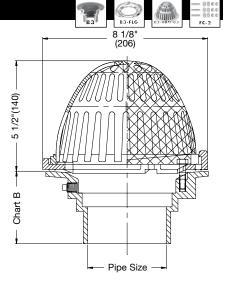


FD-860 Planting Area Drain with Screened Dome

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	\$1,554.00



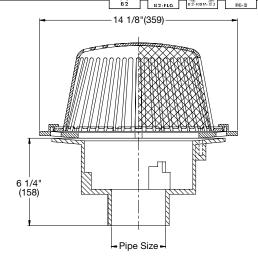
	Chart B						
Pipe Size	No Hub	Push On	Female Thread	Inside Caulk	PVC/ ABS		
2"	3 5/8"	3 5/8"	4 1/4"	4 1/4"	2 3/4"		
3"	3 5/8"	4"	4 1/4"	4 1/4"	3 5/8"		
4"	3 5/8"	4"	4 1/4"	4 1/4	3 7/8"		
6"	3 1/2"	-	-	-	-		



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	\$1,819.00





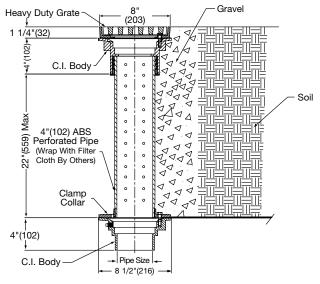
Options for FD-860/870 Series:						
Suffix	Description	List Price	Suffix	Description	List Price	
None	No Hub	No Add	-13	Galvanized Body and Clamp	\$653.50	
Р	Push-On Outlet	No Add	-60	PVC Body w/Socket Outlet (2,3,4,6" only)	No Add	
T	Threaded Outlet	\$135.50	-61	ABS Body w/Socket Outlet (2,3,4" only)	No Add	
X	Inside Caulk Outlet	No Add	-81	Bronze Dome	1,222.00	
-6	Vandal Proof Dome	192.50	-S0	Side Outlet	561.50	

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	\$2,509.00
FD-882, 3, 4-1	34	8"	2, 3, 4"	nickel bronze	3,409.00





Options	for FD-880 Series:				
Suffix	Description	List Price	Suffix	Description	List Price
None	No Hub	No Add	-6	Vandal Proof	\$246.50
P	Push-On Outlet	No Add	-7	Trap Primer Tapping	No Add
T	Threaded Outlet	\$135.50	-21	Secondary Strainer	114.00
Χ	Inside Caulk Outlet	No Add	-S0	Side Outlet (2,3,4" only)	366.00
-5	Sediment Bucket	232 00			

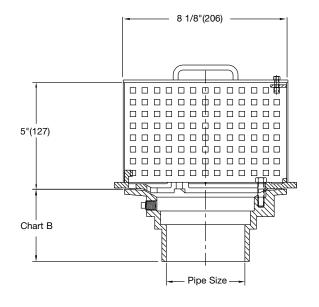
FD-890

Planter Drain with Removable Cover

Model Number	Weight (lbs.)	Pipe Size	Cover	List Price
FD-892, 3, 4,	14	2,3,4"	Stainless Steel	\$2,339.00



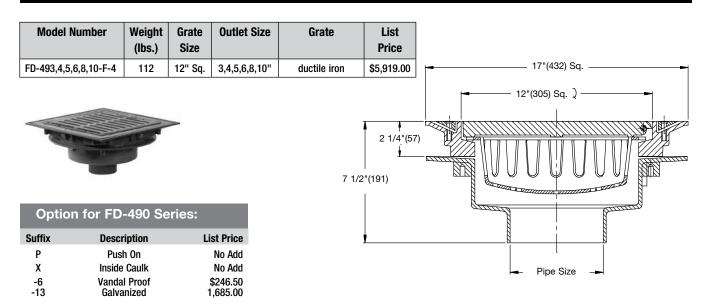
Options for FD-890 Series					
Suffix	Description	List Price			
None	No Hub Outlet	No Add			
Р	Push-On Outlet	No Add			
T	Threaded Outlet	\$135.50			
Х	Inside Caulk	No Add			
-13	Galvanized Body and Clamp	329.00			
-S0	Side Outlet	366.00			





Parking Deck Drains

FD-490-F-4 Parking Structure Drain with Heavy Duty Grate and Bucket

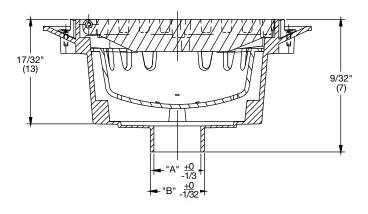


FD-490-F-80 Aluminum Parking Structure Drain with Heavy Duty Grate and Bucket

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	\$6,040.00



Option for FD-490 Series:					
Suffix	Description	List Price			
-6	Vandal Proof	\$259.00			
-13	Galvanized	1.769.00			

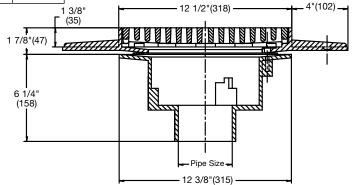


Parking Deck Drains

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	\$3,888.00



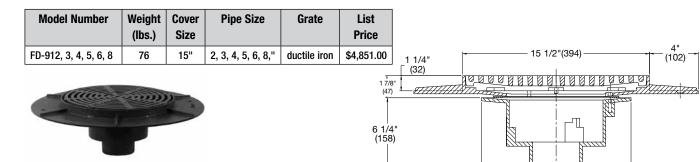


PIPE Pipe Size -12 3/8"(315)

Options for FD-900/910 Series: Suffix Description List Price None No Hub No Add P Push-0n Outlet (2, 3, 4, 6" only) No Add T Threaded Outlet (2, 3, 4, 6" only) \$135.50

T Threaded Outlet (2, 3, 4, 6" only) \$135.50
X Inside Caulk Outlet (2, 3, 4, 6" only) No Add
-5 Sediment Bucket 316.00
-6 Vandal Proof 234.50
-13 Galvanized 1,685.00
D Underdeck Clamp 403.00

FD-910 Parking Deck Drain For Precast Slabs



Opt	Options for FD-900/910 Series:							
Suffix	Description	List Price						
None	No Hub	No Add						
Р	Push-On Outlet (2, 3, 4, 6" only)	No Add						
T	Threaded Outlet (2, 3, 4, 6" only)	\$135.50						
Х	Inside Caulk Outlet (2, 3, 4, 6" only)	No Add						
-5 -6	Sediment Bucket	316.00						
-6	Vandal Proof	246.50						
-13	Galvanized	1,685.00						
D	Underdeck Clamp	403.00						



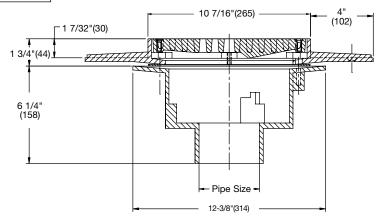
Parking Deck Drains

FD-920

Parking Deck Drain For Precast Slabs

Model Number	Weight (lbs.)	Cover Size	Pipe Size	Grate	List Price
FD-922, 3, 4, 5, 6, 8	48	10"	2, 3, 4, 5, 6, 8,"	ductile iron	\$1,872.00



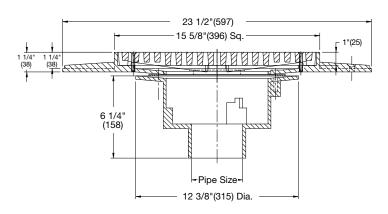


FD-930

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	\$5,097.00





Opt	Options for FD-930 Series:							
Suffix	List Price							
None	No Hub	No Add						
Р	Push-On Outlet (2, 3, 4, 6" only)	No Add						
T	Threaded Outlet (2, 3, 4, 6" only)	\$135.50						
Х	Inside Caulk Outlet (2, 3, 4, 6" only)	No Add						
-5	Sediment Bucket	316.00						
-6	Vandal Proof	246.50						
-13	Galvanized	1,685.00						
D	Underdeck Clamp	403.00						



Floor Drains with Stainless Steel Strainers

FD-1100-A

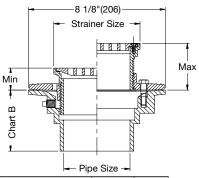
Floor Drain with Round Stainless Steel Strainer



Model Number	Weight (lbs.)	Str. Size	Pipe Size	Strainer	List Price
FD-1102,3,4-A5	11	5"	2,3,4"	stainless steel	\$1,194.00
FD-1102,3,4-A6	12.5	6"	2,3,4"	stainless steel	1,442.00
FD-1102,3,4-A8	16	8"	2,3,4"	stainless steel	1,978.00



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



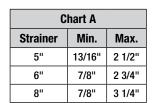
	Ch				
Pipe Size	No Hub	Push On	Female Thread	Inside Caulk	PVC/ ABS
2"	3 5/8"	4 1/4"	4 1/4"	4 1/2"	4"
3"	3 5/8"	4 1/4"	4 1/4"	4 1/2"	4"
4"	3 5/8"	4 1/4"	4 1/4"	4 1/2"	4"
6"	3 1/2"	-	-	-	-

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	\$3,879.00
FD-1102, 3, 4-A6-LR	12.5	6"	2,3,4"	stainless steel	4,191.00
FD-1102, 3, 4-A8-LR	16	8"	2,3,4"	stainless steel	6,047.00





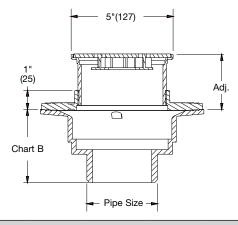


	Chart B									
Pipe Size	No Hub	Push On	Female Thread	Inside Caulk	PVC/ ABS					
2"(51)	3 5/8"(92)	4 1/4"(108)	4 1/4"(108)	4 1/2"(114)	4"(102)					
3"(76)	3 5/8"(92)	4 1/4"(108)	4 1/4"(108)	4 1/2"(114)	4"(102)					
4"(102)	3 5/8"(92)	4 1/4"(108)	4 1/4"(108)	4 1/2"(114)	4"(102)					
6"(152)	3 1/2"(89)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

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 T	Push-On Outlet Threaded Outlet	No Add \$135.50	-61 -F4-3	ABS Body w/Socket Outlet (2,3,4" only) 4" Round SS Funnel (FD-1100-A Only)	No Add \$913.00
Χ	Inside Caulk	No Add	-F4-50	4" Round Cast Iron Funnel (FD-1100-A Only)	300.00
None	6" Outlet No Hub Only	202.00	-F4-1	4" Round Nickel Bronze Funnel (FD-1100-A Only)	714.00
-5	Sediment Bucket	181.50	-F6-1	6" Round Nickel Bronze Funnel (FD-1100-A Only)	1,044.00
-6	Vandal Proof	91.25	-G-50	4x9" Oval Cast Iron Funnel (FD-1100-A Only)	706.50
-7	Trap Primer Tapping	No Add	-G-1	4x9" Oval Nickel Bronze Funnel (FD-1100-A Only)	1,457.00
-8	Ball Float Backwater Valve (2,3,4" only)	630.00	-S0	Side Outlet (2,3,4" only)	366.00
-13	Galvanized Body	323.50		(
-15	Strainer Extension (DD-50)	236.50			
-28	304 SS Body and Collar (No Hub Only)	1,520.00			



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	\$1,355.00
FD-1102,3,4-B6	12.5	6"	2,3,4"	stainless steel	1,609.00
FD-1102,3,4-B8	16	8"	2,3,4"	stainless steel	1,978.00

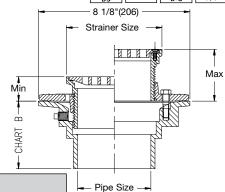




Chart A					
Strainer	Min.	Max.			
5"	13/16"	2 1/2"			
6"	7/8"	2 3/4"			
8"	7/8"	3 1/4"			

	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"	-	-	-	-			

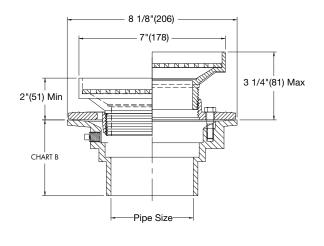
FD-1100-ER

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	\$2,138.00



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"



Optio	ons for FD-1100 Series:				
Suffix	Description	List Price	Suffix	Description	List Price
None P T	No Hub Outlet Push-On Outlet Threaded Outlet	No Add No Add \$135.50	-60 -61 -F4-3	PVC Body w/Socket Outlet (2,3,4" only) ABS Body w/Socket Outlet (2,3,4" only) 4" Round SS Funnel	No Add No Add \$913.00
X None -5 -6 -7 -8 -13 -15	Inside Caulk 6" Outlet No Hub Only Sediment Bucket Vandal Proof Trap Primer Tapping Ball Float Backwater Valve (2,3,4" only) Galvanized Body Strainer Extension (DD-50) 304 SS Body and Collar (No Hub Only)	No Add 202.00 181.50 91.25 No Add 630.00 323.50 236.50 1,520.00	-F4-50 -F4-1 -F6-1 -G-50 -G-1 -S0	4" Round Cast Iron Funnel 4" Round Nickel Bronze Funnel 6" Round Nickel Bronze Funnel 4x9" Oval Cast Iron Funnel 4x9" Oval Nickel Bronze Funnel Side Outlet (2,3,4" only)	300.00 714.00 1,044.00 706.50 1,457.00 366.00



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	\$1,457.00
FD-1102,3,4-L6	14	6"x6"	2,3,4"	stainless steel	1,765.00
FD-1102,3,4-L8	16	8"x8"	2,3,4"	stainless steel	2,258.00

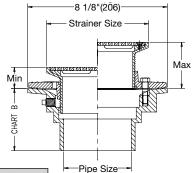




Chart A						
Strainer Min. Max.						
5"x5"	7/8"	3 1/4"				
6"x6"	1"	3 1/4"				
8"x8"	1 3/8"	3 5/8"				

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"	-	-	-	-		

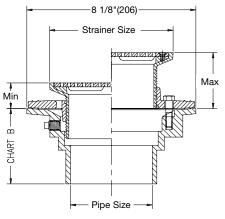
FD-1100-M

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	\$1,317.00
FD-1102,3,4-M6	12.5	6"x6"	2,3,4"	stainless steel	1,765.00
FD-1102,3,4-M8	16	8"x8"	2,3,4"	stainless steel	1,980.00





Optio	ons for FD-1100 Series:				
Suffix	Description	List Price	Suffix	Description	List Price
None P	No Hub Outlet Push-On Outlet	No Add No Add	-60 -61	PVC Body w/Socket Outlet (2,3,4" only) ABS Body w/Socket Outlet (2,3,4" only)	No Add No Add
X None	Threaded Outlet Inside Caulk 6" Outlet No Hub Only	\$135.50 No Add 202.00	-F4-3 -F4-50 -F4-1	4" Round SS Funnel 4" Round Cast Iron Funnel 4" Round Nickel Bronze Funnel	\$913.00 300.00 714.00
-5 -6 -7	Sediment Bucket Vandal Proof Trap Primer Tapping	181.50 91.25 No Add	-F6-1 -G-50 -G-1	6" Round Nickel Bronze Funnel 4x9" Oval Cast Iron Funnel 4x9" Oval Nickel Bronze Funnel	1,044.00 706.50 1,457.00
-8 -13	Ball Float Backwater Valve (2,3,4" only) Galvanized Body	630.00 323.50	-S0	Side Outlet (2,3,4" only)	366.00
-15 -28	Strainer Extension (DD-50) 304 SS Body and Collar (No Hub Only)	236.50 1,520.00			

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	\$4,182.00
FD-1102, 3, 4-M6-LR	12.5	6"	2,3,4"	stainless steel	4,329.00
FD-1102, 3, 4-M8-LR	16	8"	2,3,4"	stainless steel	5,400.00



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

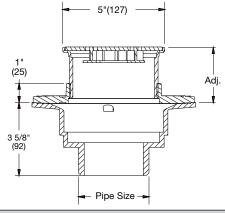


Chart B								
Pipe Size	No Hub	Push On	Female Thread	Inside Caulk	PVC/ ABS			
2"(51)	3 5/8"(92)	4 1/4"(108)	4 1/4"(108)	4 1/2"(114)	4"(102)			
3"(76)	3 5/8"(92)	4 1/4"(108)	4 1/4"(108)	4 1/2"(114)	4"(102)			
4"(102)	3 5/8"(92)	4 1/4"(108)	4 1/4"(108)	4 1/2"(114)	4"(102)			
6"(152)	3 1/2"(89)	-	-	-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

Options for FD-1100-M-LR Series: Suffix **List Price** Suffix **List Price** Description Description No Hub Outlet -60 PVC Body w/Socket Outlet (2,3,4" only) None No Add No Add P T Push-On Outlet No Add -61 ABS Body w/Socket Outlet (2,3,4" only) No Add -F4-3 **Threaded Outlet** \$135.50 4" Round SS Funnel \$913.00 -F4-50 4" Round Cast Iron Funnel 300.00 χ Inside Caulk No Add 6" Outlet No Hub Only 714.00 1,044.00 4" Round Nickel Bronze Funnel -F4-1 -F6-1 None 202.00 Sediment Bucket Vandal Proof 181.50 91.25 6" Round Nickel Bronze Funnel -6 -G-50 4x9" Oval Cast Iron Funnel 706.50 Trap Primer Tapping Ball Float Backwater Valve (2,3,4" only) No Add 4x9" Oval Nickel Bronze Funnel 1,457.00 -7 -G-1 630.00 -8 -S0 Side Outlet (2,3,4" only) 366.00 -13 Galvanized Body 323.50

236.50 1,520.00

FD-1160 Chemical Resistant Floor Drain

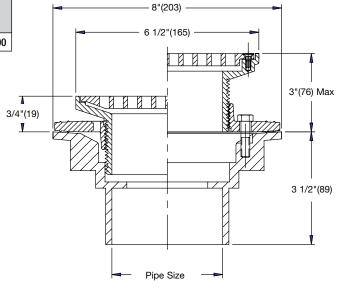
Strainer Extension (DD-50) 304 SS Body and Collar (No Hub Only)

Model Number	Weight (lbs.)	Str. Size	Pipe Size	Strainer	List Price
FD-1162,3,4	6	6 1/2"	2,3,4"	PVC	\$742.00



-15 -28

Options for FD-1160 Series:						
Suffix	Description	List Price				
-5	Sediment Bucket	\$181.50				
-6	Vandal Proof	91.25				
-7	Trap Primer Tapping	No Add				
-F4-1	4" Round Nickel Bronze Funnel	714.00				
-F6-1	6" Round Nickel Bronze Funnel	1,044.00				
-G-1	4x9" Oval Nickel Bronze Funnel	1,457.00				





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	\$1,296.00
FD-1192, 3, 4-PR6	16	6"(152)	2, 3, 4"	stainless steel	1,049.00
FD-1192, 3, 4-PR7	18	7"(178)	2, 3, 4"	stainless steel	1,715.00
FD-1192, 3, 4-PR8	21	8"(203)	2, 3, 4"	stainless steel	2,425.00
FD-1196-PR5	14	5"(127)	6"	stainless steel	2,469.00
FD-1196-PR6	16	6"(152)	6"	stainless steel	2,469.00
FD-1196-PR7	18	7"(178)	6"	stainless steel	2,631.00
FD-1196-PR8	21	8"(203)	6"	stainless steel	2,631.00

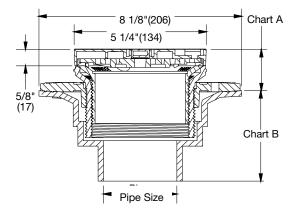




Chart A

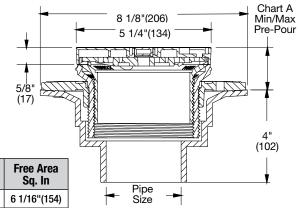
Str. Size	Min.	Max.	Load Rating	Free Area Sq. In
5"(127)	1 3/4"(44)	4 1/4"(108)	MD	6 1/16"(154)
6"(152)	1 3/4"(44)	4 1/4"(108)	LD	10 3/4"(273)
7"(178)	1 7/8"(48)	4 3/8"(111)	LD	13 1/4"(337)
8"(203)	2"(51)	4 1/2"(114)	MD	19"(483)

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	\$871.00
FD-1192, 3, 4-PR6-60	6	6"(152)	2, 3, 4"	stainless steel	1,049.00
FD-1192, 3, 4-PR7-60	7	7"(178)	2, 3, 4"	stainless steel	1,475.00
FD-1192, 3, 4-PR8-60	8	8"(203)	2, 3, 4"	stainless steel	2,266.00





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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)	\$197.50	
None	No Hub Outlet (FD-1190-PR 6"Only)	\$167.00	-61	ABS Body w/Socket Outlet (FD-1190-PR Only)	140.50	
Р	Push-On Outlet (FD-1190-PR Only)	No Add	-F4-50	4" Round Cast Iron Funnel	249.50	
T	Threaded Outlet (FD-1190-PR Only)	112.00	-F4-1	4" Round Nickel Bronze Funnel	593.50	
X	Inside Caulk (FD-1190-PR Only)	No Add	-F6-1	6" Round Nickel Bronze Funnel	868.50	
-7	Trap Primer Tapping	No Add	-G-50	4" x 9" Oval Cast Iron Funnel	587.50	
-8	Ball Float Backwater Valve (2, 3, 4" Only)	524.00	-G-1	4" x 9 Oval Nickel Bronze Funnel	1,211.00	
-13	Galvanized Body (FD-1190-PR Only)	293.00	-S0	Side Outlet (FD-1190-PR 2, 3, 4" Only)	303.50	



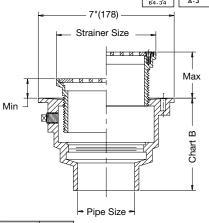
On-Grade Floor Drains with Stainless Steel Strainers

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	\$980.00
FD-1202,3,4-A6	9.5	6"	2,3,4"	stainless steel	1,108.00
FD-1202,3,4-A8	16	8"	2,3,4"	stainless steel	1,922.00



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



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	\$1,248.00
FD-1202,3,4-B6	12.5	6"	2,3,4"	stainless steel	1,427.00
FD-1202,3,4-B8	16	8"	2,3,4"	stainless steel	2,546.00



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

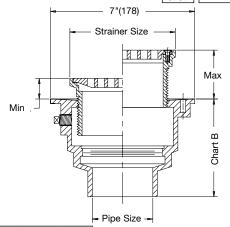


Chart B				
Pipe Size	No Hub	Push On	PVC/ ABS	
2"	4 3/4"	5 1/2"	4"	
3"	4 3/4"	5 1/2"	4"	
4"	4 3/4"	5 1/2"	4"	

Options f	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)	\$1,520.00		
Р	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	\$181.50	-F4-3	4" Round SS Funnel	913.00		
-6	Vandal Proof	91.25	-F4-50	4" Round Cast Iron FUnnel	300.00		
-7	Trap Primer Tapping	No Add	-F4-1	4" Round Nickel Bronze Funnel	714.00		
-8 -13 -15	Ball Float Backwater Valve (2,3,4" Only) Galvanized Body Strainer Extension (DD-50)	630.00 327.50 236.50	-F6-1 -G-50 -G-1	6" Round Nickel Bronze Funnel 4x9" Oval Cast Iron Funnel 4x9" Oval Nickel Bronze Funnel	1,044.00 706.50 1,457.00		

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	\$1,128.00
FD-1292, 3, 4-PR6	15	6"(152)	2, 3, 4"	stainless steel	1,270.00
FD-1292, 3, 4-PR7	17	7"(178)	2, 3, 4"	stainless steel	1,685.00
FD-1292, 3, 4-PR8	20	8"(203)	2, 3, 4"	stainless steel	2,394.00



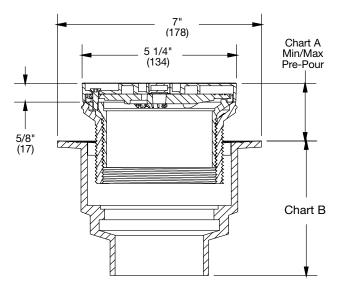
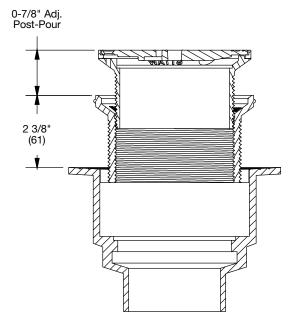


Chart A

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)		



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)



Options f	or FD-1290-PR Series				
Suffix	Description	List Price	Suffix	Description	List Price
None	No Hub Outlet	No Add	-15	Strainer Extension (DD-50)	\$229.50
P	Push-On Outlet	No Add	-F4-50	4" Round Cast Iron Funnel	291.00
T	Threaded Outlet	\$131.50	-F4-1	4" Round Nickel Bronze Funnel	693.00
Χ	Inside Caulk	No Add	-F6-1	6" Round Nickel Bronze Funnel	1,013.00
-7	Trap Primer Tapping	No Add	-G-1	4x9" Oval Nickel Bronze Funnel	1,414.00
-8	Ball Float Backwater Valve (2, 3, 4" Only)	611.50			
-13	Galvanized Body	317.50			

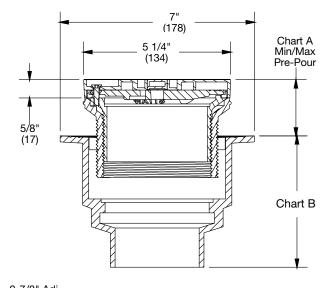


FD-1290-PR-60 Pronto!® PVC Adjustable Floor Drain w/Integrated Level

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	\$838.50
FD-1292, 3, 4-PR6-60	5	6"(152)	2, 3, 4"	stainless steel	1,017.00
FD-1292, 3, 4-PR7-60	6	7"(178)	2, 3, 4"	stainless steel	1,442.00
FD-1292, 3, 4-PR8-60	7	8"(203)	2, 3, 4"	stainless steel	2,233.00



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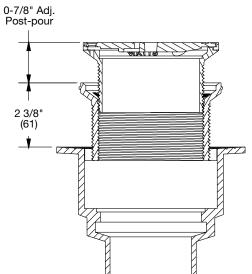


Chart A

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)

Suffix	Description	List Price	Suffix	Description	List Price
-7	Trap Primer Tapping	No Add	-G-1	4x9" Oval Nickel Bronze Funnel	\$1,344.0
-8	Ball Float Backwater Valve	\$611.50			
-61	ABS Body w/Socket Outlet	164.50			
-F4-50	4" Round Cast Iron Funnel	291.00			
F4-1	4" Round Nickel Bronze Funnel	693.00			
-F6-1	6" Round Nickel Bronze Funnel	1,013.00			
-G-50	4x9" Oval Cast Iron Funnel	685.50			
-15	Strainer Extension (DD-50)	229.50			



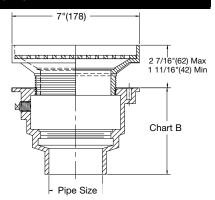
On-Grade Floor Drains with Stainless Steel Strainers

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	\$2,034.00



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"



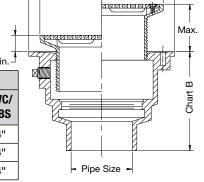
FD-1200-L Floor Drain with Heavy Duty Square Stainless Steel Strainer

Model Number Weight Str. **Strainer** List Pipe (lbs.) Size Size **Price** FD-1202,3,4-L5 10 5x5"" 2,3,4" stainless steel \$1,350.00 FD-1202,3,4-L6 14 6x6" 2,3,4" stainless steel 1,684.00 FD-1202,3,4-L8 16 8x8" 2,3,4" stainless steel 2,153.00



Chart A						
Strainer	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"				

	Mın.–		
Pipe Size	No Hub	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"



7"(178)

Strainer Size

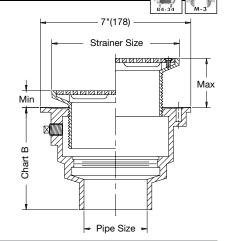
FD-1200-M Floor Drain with Square Stainless Steel Strainer

Model Number	Weight (lbs.)	Str. Size	Pipe Size	Strainer	List Price
FD-1202,3,4-M5	10	5"x5"	2,3,4"	stainless steel	\$1,233.00
FD-1202,3,4-M6	12.5	6"x6"	2,3,4"	stainless steel	1,684.00
FD-1202,3,4-M8	16	8"x8"	2,3,4"	stainless steel	1,962.00



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"			

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	or 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)	\$1,520.00
Р	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	\$181.50	-F4-3	4" Round SS Funnel	913.00
-6	Vandal Proof	91.25	-F4-50	4" Round Cast Iron FUnnel	300.00
-7	Trap Primer Tapping	No Add	-F4-1	4" Round Nickel Bronze Funnel	714.00
-8	Ball Float Backwater Valve (2,3,4" Only)	630.00	-F6-1	6" Round Nickel Bronze Funnel	1,044.00
-13	Galvanized Body	327.50	-G-50	4x9" Oval Cast Iron Funnel	706.50
-15	Strainer Extension (DD-50)	236.50	-G-1	4x9" Oval Nickel Bronze Funnel	1,457.00

Channel Drains/Accessories

TD-300 Elevator Channel Drain

Model Number	Size	EDP Number	Grate	List Price
TD-324	24"	8189398	stainless steel	\$8,150.00
*TD-336	36"	8189211	stainless steel	12,224.00
*TD-342	42"	8189377	stainless steel	14,253.00
*TD-348	48"	8189779	stainless steel	16,085.00
*TD-360	60"	8189780	stainless steel	17,711.00
*TD-396	96"	8189375	stainless steel	32,582.00
Special Order: Ad	\$3,727.00			

(292) 9 3/8" (238) 9 3/8" (238) 2 1/4" (57) 4 1/4" (108) Specify(36" Min. / 96" Max.)

Options for TD-300:

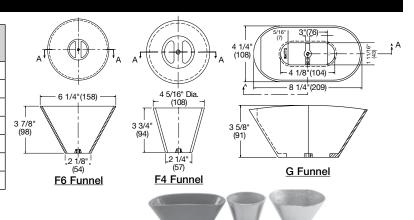
Suffix Description List Price
-06 6"(152) No Hub Outlet \$607.00



FD-Funnels

Bolt-On Funnels

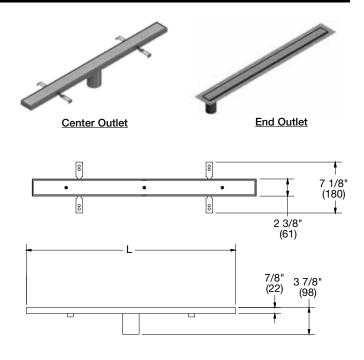
Model Number	EDP#	Size	Material	List Price
F4-50	8135668	4" Round	cast iron	\$300.00
F4-1	8135666	4" Round	nickel bronze	715.50
F4-3	8187293	4" Round	stainless steel	914.50
F6-1	8135671	6" Round	nickel bronze	1,044.00
G-50	8141444	4x9" Oval	cast iron	707.50
G-1	8141441	4x9" Oval	nickel bronze	1,457.00
G-3	8141443	4x9" Oval	stainless steel	1,819.00



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	\$1,911.00
WSC-312-LR-FC	2"	w/Membrane Clamp	2,103.00
WSC-324-LR	2"	24" SS LR Shower Channel	2,230.00
WSC-324-LR-FC	2"	w/Membrane Clamp	2,339.00
WSC-330-LR	2"	30" SS LR Shower Channel	2,441.00
WSC-330-LR-FC	2"	w/Membrane Clamp	2,556.00
WSC-336-LR	2"	36" SS LR Shower Channel	2,643.00
WSC-336-LR-FC	2"	w/Membrane Clamp	2,765.00
WSC-342-LR	2"	42" SS LR Shower Channel	2,848.00
WSC-342-LR-FC	2"	w/Membrane Clamp	2,980.00
WSC-348-LR	2"	48" SS LR Shower Channel	3,185.00
WSC-348-LR-FC	2"	w/ Membrane Clamp	3,504.00
WSC-360-LR	2"	60" SS LR Shower Channel	3,377.00
WSC-360-LR-FC	2"	w/Membrane Clamp	3,714.00



Options for WSC-300-LR:

Suffix	Description	List Price
-F0	End Outlet	bbA oN



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



12"x 24"x17" Deep

Recommendations

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

Floor Sink Selection Factors

Materials

Porcelain enamel coated cast iron

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

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

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.

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.



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



-175 3/4 Grate



-33 Less Grate



-F4-1 NB Round Funnel



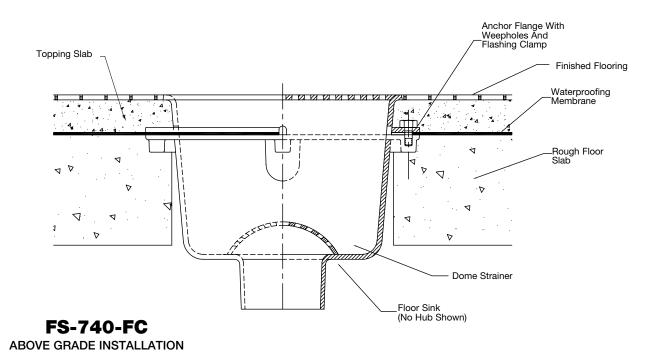
-150 1/2 Grate

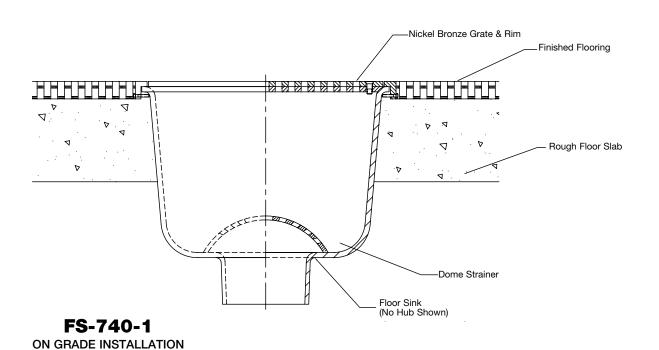


-G-1 NB Oval Funnel



Typical Installations

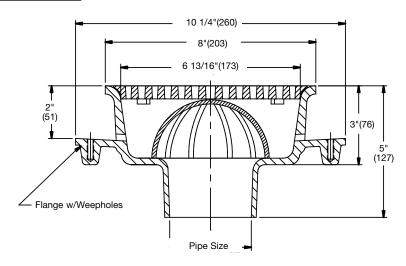




FS-700 8" Round x 3" Deep Sanitary Floor Sink

Model Number	Weight (lbs.)	Top Size	Outlet Size	Тор	List Price
FS-702, 3, 4	14	8" Round	2,3,4"	porcelain	\$2,334.00
FS-702, 3, 4-1	20	8" Round	2,3,4"	nickel bronze	3,064.00



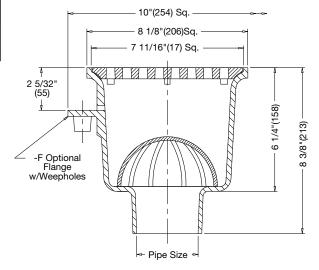


Suffix	Description	List Price	Suffix	Description	List Pric
None	No Hub	No Add	-150	1/2 Grate	No Ad
P	Push-On Outlet	No Add	-175	3/4 Grate	No Ad
FC	Flange w/Weepholes & Flashing Clamp	\$318.50	-F4-1	4" Round Nickel Bronze Funnel	\$728.0
-5	Sediment Bucket	379.50	-F6-1	6" Round Nickel Bronze Funnel	1,064.0
-6	Vandal Proof (-1 Ony)	131.50	-G-1	4x9" Oval Nickel Bronze Funnel	1,485.0
-7	Trap Primer Tapping	327.50			
-9	Hinged Grate (FS-710-1, -3 Only)	598.00			
-21	Secondary Strainer	116.50			
-33	Less Grate	-441.00			

FS-710 8" Square x 6" Deep Sanitary Floor Sink

Model Number	Weight (lbs.)	Top Size	Outlet Size	Тор	List Price
FS-712, 3, 4	20	8" Sq.	2,3,4"	porcelain	\$2,673.00
FS-712, 3, 4-1	20	8" Sq.	2,3,4"	nickel bronze	3,405.00

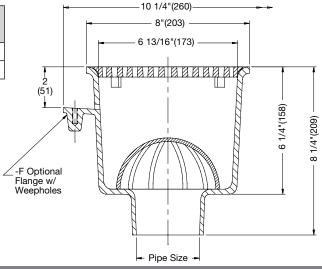




FS-720 8" Round x 6" Deep Sanitary Floor Sink

Model Number	Weight (lbs.)	Top Size	Outlet Size	Тор	List Price
FS-722, 3, 4	16	8" Round	2,3,4"	porcelain	\$2,454.00
FS-722, 3, 4-1	16	8" Round	2,3,4"	nickel bronze	3,184.00





Options	for FS-710/720 Series				
Suffix	Description	List Price	Suffix	Description	List Price
None	No Hub	No Add	-21	Secondary Strainer	\$116.50
P	Push-On Outlet	No Add	-33	Less Grate	-441.00
Χ	Inside Caulk Outlet	No Add	-150	1/2 Grate	No Add
-F	Flange w/Weepholes	\$315.00	-175	3/4 Grate	No Add
-FC	Flange w/Weepholes & Flashing Clamp	633.00	-F4-1	4" Round Nickel Bronze Funnel	728.00
-3	Stainless Steel (Rim & Grate) (FS-710 Only)	1,003.00	-F6-1	6" Round Nickel Bronze Funnel	1,064.00
-5	Sediment Bucket	379.00	-G-1	4x9" Oval Nickel Bronze Funnel	1,485.00
-6	Vandal Proof (-1,-3 Only)	131.50			
-7	Trap Primer Tapping	327.50			
-9	Hinged Grate (FS-710-1, -3 Only)	598.00			

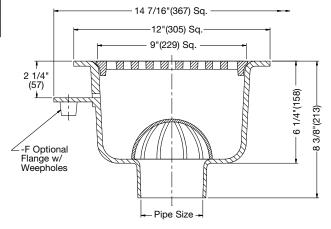


FS-730

12" Square x 6" Deep Sanitary Floor Sink

Model Number	Weight (lbs.)	Top Size	Outlet Size	Тор	List Price
FS-732, 3, 4	32	12" Sq.	2,3,4"	porcelain	\$3,593.00
FS-732, 3, 4-1	32	12" Sq.	2,3,4"	nickel bronze	4,866.00



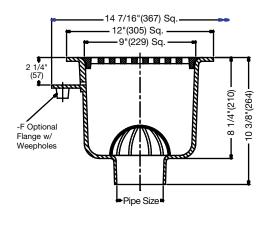


FS-740

12" Square x 8" Deep Sanitary Floor Sink

Model Number	Weight (lbs.)	Top Size	Outlet Size	Тор	List Price
FS-742, 3, 4	34	12" Sq.	2,3,4"	porcelain	\$3,782.00
FS-742, 3, 4-1	34	12" Sq.	2,3,4"	nickel bronze	5,056.00





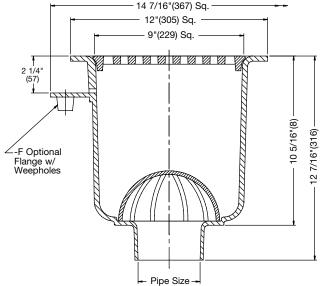
Options f	or FS-730 / FS-740 / FS-750 Se	ries			
Suffix	Description	List Price	Suffix	Description	List Price
None	No Hub	No Add	-9	Hinged Grate (-1, -3 Only)	\$598.00
P	Push-On Outlet	No Add	-21	Secondary Strainer	116.50
Χ	Inside Caulk Outlet	No Add	-33	Less Grate	-441.00
-F	Flange w/Weepholes	\$658.50	-128	Grate with 2 1/2" Center Opening	306.00
-FC	Flange w/Weepholes & Flashing Clamp	986.50	-150	1/2 Grate	No Add
-3	Stainless Steel (Rim & Grate)	1,527.00	-175	3/4 Grate	No Add
-5	Sediment Bucket	543.00	-F4-1	4" Round Nickel Bronze Funnel	728.00
-6	Vandal Proof (-1,-3 Only)	131.50	-F6-1	6" Round Nickel Bronze Funnel	1,064.00
-7	Trap Primer Tapping	327.50	-G-1	4x9" Oval Nickel Bronze Funnel	1,485.00



FS-750 12" Square x 10" Deep Sanitary Floor Sink

Model Number	Weight (lbs.)	Top Size	Outlet Size	Тор	List Price
FS-752, 3, 4	36	12" Sq.	2,3,4"	porcelain	\$3,979.00
FS-752, 3, 4-1	36	12" Sq.	2,3,4"	nickel bronze	5,257.00



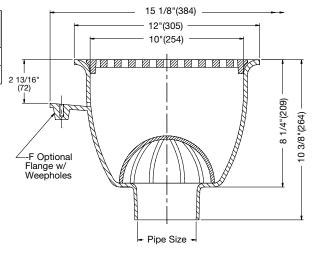


Options See Pg. 76

FS-760 12" Round x 8" Deep Sanitary Floor Sink

Model Number	Weight (lbs.)	Top Size	Outlet Size	Тор	List Price
FS-762, 3, 4	32	12" Round	2,3,4"	porcelain	\$2,619.00
FS-762, 3, 4-1	32	12" Round	2,3,4"	nickel bronze	\$3,853.00





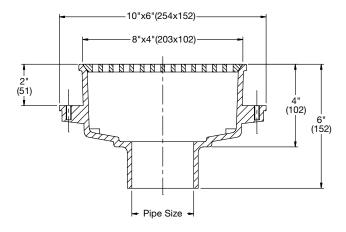
Options f	or FS-760 Series:				
Suffix	Description	List Price	Suffix	Description	List Price
None	No Hub	No Add	-21	Secondary Strainer	\$116.50
Р	Push-On Outlet	No Add	-33	Less Grate	-441.00
-F	Flange w/Weepholes	\$658.50	-150	1/2 Grate	No Add
-FC	Flange w/Weepholes & Flashing Clamp	986.50	-175	3/4 Grate	No Add
-5	Sediment Bucket	543.00	-F4-1	4" Round Nickel Bronze Funnel	728.00
-6	Vandal Proof (-1,-3 Only)	131.50	-F6-1	6" Round Nickel Bronze Funnel	1,064.00
-7	Trap Primer Tapping	327.50	-G-1	4x9" Oval Nickel Bronze Funnel	1,485.00



FS-770 8" x 4" x4" Deep Sanitary Floor Sink

Model Number	Weight (lbs.)	Top Size	Outlet Size	Тор	List Price
FS-772, 3,	16	4"x8"	2,3"	porcelain	\$2,673.00
FS-772, 3-1	16	4"x8"	2,3"	nickel bronze	3,315.00



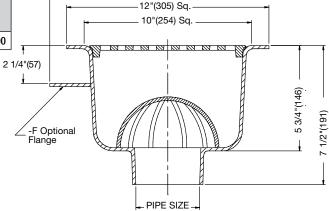


Options for I	FS-770 Series:				
Suffix	Description	List Price	Suffix	Description	List Price
None	No Hub	No Add	-33	Less Grate	\$-441.00
P	Push-On Outlet	No Add	-150	1/2 Grate	No Add
-FC	Flashing Clamp	\$312.50	F4-1	4" Round Nickel Bronze Funnel	728.00
-5	Sediment Bucket	379.50	-F6-1	6" Round Nickel Bronze Funnel	1,064.00
-6	Vandal Proof (-1, Only)	131.50	-G-1	4x9" Oval Nickel Bronze Funnel	1,485.00
-7	Trap Primer Tapping	327.50			

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







14"(356) Sq.

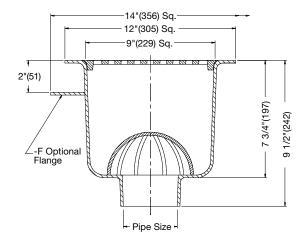
Options for	or FS-780 Series:				
Suffix	Description	List Price	Suffix	Description	List Price
None	No Hub	No Add	-33	Less Grate	\$-1,914.15
P	Push-On Outlet	No Add	-150	1/2 Grate	No Add
-F	Flange w/Weepholes	\$930.50	-175	3/4 Grate	No Add
-FC	Flange w/Weepholes & Flashing Clamp	1,750.00	-F4-1	4" Round Nickel Bronze Funnel	728.00
-5	Sediment Bucket	703.00	-F6-1	6" Round Nickel Bronze Funnel	1,064.00
-6	Vandal Proof	1,085.00	-G-1	4x9" Oval Nickel Bronze Funnel	1,485.00
-21	Secondary Strainer	116.50			

FS-790

12" Square x 8" Deep Stainless Steel Sanitary Floor Sink

Model Number	Weight (lbs.)	Top Size	Outlet Size	Тор	List Price
FS-792, 3, 4	18	12" Sq.	2,3,4"	stainless steel	\$6,612.00





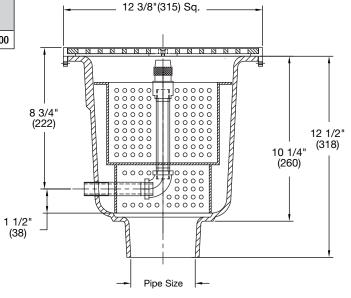
FS-800

Sanitary Can Wash

Model	Weight	Top	Outlet	Тор	List
Number	(lbs.)	Size	Size		Price
FS-804	39	12" Sq.	4"	nickel bronze	\$7,211.00

Options for FS-800 Series

Suffix	Description	List Price
-6	Vandal Proof	\$119.00



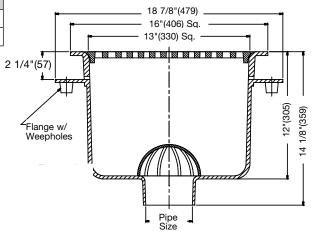
Options f	or FS-780 and FS-790 Series:				
Suffix	Description	List Price	Suffix	Description	List Price
None	No Hub	No Add	-33	Less Grate	\$-1,914.00
P	Push-On Outlet	No Add	-150	1/2 Grate	No Add
-F	Flange w/Weepholes	\$930.50	-175	3/4 Grate	No Add
-FC	Flange w/Weepholes & Flashing Clamp	1,750.00	-F4-1	4" Round Nickel Bronze Funnel	728.00
-5	Sediment Bucket	703.00	-F6-1	6" Round Nickel Bronze Funnel	1,064.00
-6	Vandal Proof	1,085.00	-G-1	4x9" Oval Nickel Bronze Funnel	1,485.00
-21	Secondary Strainer	116.50			



FS-850 16" Square x 12" Deep Sanitary Floor Sink

Model Number	Weight (lbs.)	Top Size	Outlet Size	Тор	List Price
FS-854,6	150	16" Sq.	4,6"	porcelain	\$7,952.00
FS-854,6-1	150	16" Sq.	4,6"	nickel bronze	10,016.00





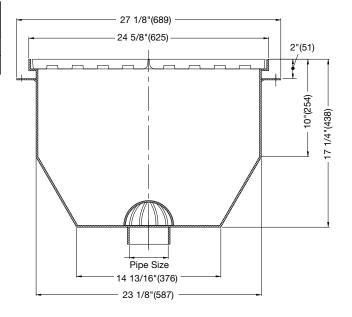
Options for I	Options for FS-850 Series									
Suffix	Description	List Price	Suffix	Description	List Price					
-FC	Flashing Clamp	\$958.00	-150	1/2 Grate	No Add					
-5	Sediment Bucket	1,406.00	-175	3/4 Grate	No Add					
-6	Vandal Proof (-1 Only)	131.50	-F4-1	4" Round NB Funnel	\$728.00					
-7	Trap Primer Tapping	327.50	-F6-1	6" Round NB Funnel	1,064.00					
-9	Hinged Grate	598.00	-G-1	4x9" Oval NB Funnel	1,485.00					
-33	Less Grate	-1,397.55								

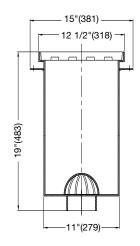
Sanitary Floor Receptor

12" x 24" x 17" Deep Floor Receptor FS-900

Model Number	Weight (lbs.)	Top Size	Outlet Size	Тор	List Price
FS-902,3,4,6	82	12"x24"	2,3,4,6"	ductile iron	\$16,100.00
FS-902,3,4,6-1	82	12"x24"	2,3,4,6"	nickel bronze	20,603.00







Options for I	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	\$958.00	-F4-1	4" Round Nickel Bronze Funnel	\$728.00
-5	SS Sediment Bucket	3,190.00	-F6-1	6" Round Nickel Bronze Funnel	1,064.00
-6	Vandal Proof	131.50	-G-1	4x9" Oval Nickel Bronze Funnel	1,485.00
-33	Less Grate	-3.586.80			

Table Of Contents

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





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



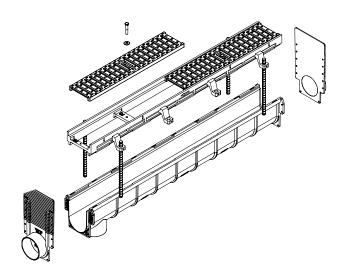
Dead Level® DX-GF 12" Wide Grating w/Ductile Iron Frame



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

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.



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 8187430 DLG-DI-ADA

12" 24"



Solid Cast Iron

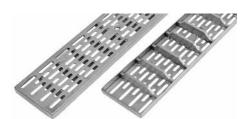
8185967 DLG-SCI 24"



Stainless Steel Brickslot

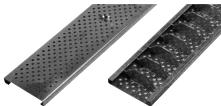
8189419 DLG-BK12 12" 8189003 DLG-BK24 24" 8189004 DLG-BK 48"

Grating



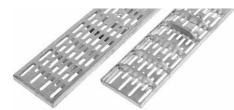
Reinforced Galvanized Steel Slotted

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



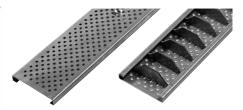
Reinforced Galvanized Steel Perforated

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"



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



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"	В	MD	N	Y	Υ	30%
DI	Ductile Iron	24"	C*	HD*	N	N	N	30%
DI-ADA	Ductile Iron ADA	24"	C*	HD*	N	Y	Υ	25%
GDI	Galvanized Ductile Iron	24"	C*	HD*	N	N	N	30%
PP	Polypropylene	24"	С	MD	N	Y	Υ	15%
GP	Galvanized Perforated	48"	Α	LD	N	Y	Υ	15%
GS	Galvanized Slotted	48"	Α	LD	N	Y	N	12%
RGP	Reinforced Galvanized Perforated	48"	C*	HD*	N	Y	Υ	15%
RGS	Reinforced Galvanized Slotted	48"	C*	HD*	N	Y	Υ	30%
SP	Stainless Steel Perforated	48"	Α	LD	N	Y	Υ	15%
SS	Stainless Steel Slotted	48"	Α	LD	N	Y	Υ	12%
RSP	Reinforced Stainless Steel Perforated	48"	C*	HD*	N	Υ	Y	15%
RSS	Reinforced Stainless Steel Slotted	48"	C*	HD*	N	Y	Υ	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"	В	MD	N	Υ	Y	30%
DI	Ductile Iron	24"	F	SD	Υ	N	N	30%
DI-ADA	Ductile Iron ADA	24"	F	SD	Υ	Υ	Υ	25%
GDI	Galvanized Ductile Iron	24"	F	SD	Y	N	N	30%
PP	Polypropylene	24"	С	MD	N	Υ	Y	15%
GP	Galvanized Perforated	48"	Α	LD	N	Y	Υ	15%
GS	Galvanized Slotted	48"	Α	LD	N	Υ	N	12%
RGP	Reinforced Galvanized Perforated	48"	E	XHD	Υ	Y	Υ	15%
RGS	Reinforced Galvanized Slotted	48"	E	XHD	Υ	Y	Υ	30%
SP	Stainless Steel Perforated	48"	Α	LD	N	Υ	Y	15%
SS	Stainless Steel Slotted	48"	Α	LD	N	Y	Υ	12%
RSP	Reinforced Stainless Steel Perforated	48"	E	SD	Y	Υ	Y	15%
RSS	Reinforced Stainless Steel Slotted	48"	E	SD	Y	Y	Y	30%
SCI	Solid Cast Iron	24"	F	SD	Y	Υ	Y	0%



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	Υ	Υ	30%
GDI	Galvanized Ductile Iron	24"	F	SD	Y	N	N	40%
RGP	Reinforced Galvanized Perforated	24"	E	XHD	Y	Υ	Υ	15%
RGS	Reinforced Galvanized Slotted	24"	E	XHD	Y	Υ	Υ	30%
RSP	Reinforced Stainless Steel Perforated	24"	E	SD	Y	Υ	Υ	15%
RSS	Reinforced Stainless Steel Slotted	24"	E	SD	Y	Y	Y	30%
SDI	Solid Ductile Iron	24"	F	SD	Υ	Υ	Υ	0%

Catch Basins

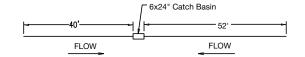
Grating	Grating	Std.	DIN	ANSI	H-20	ADA	Heel	Open
Suffix	Desc.	Length	Class	Class	Compliant	Compliant	Proof	Area
6x24x24	See Dead Level P or Dead Level D - Same as Trench Drain Grating							
24x24x24	Ductile Iron	24"	F	SD	Y	Y	Υ	40%
24x24x24	Stainless Steel	24"	F	SD	Y	Υ	Y	30%



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

Ordering Code

Ductile Iron	D or DX
Polypropylene	Р

3. Specify Length in Feet

(Do not Include Catch Basins)

Numeric

4. Specify Outlet

Straight Run End Outlet	EO
Straight Run Center Outlet	CO
Other Configuration	XO

5. Specify Grating

Ductile Iron	DI
ADA Ductile Iron	DI-ADA
Galvanized Ductile Iron	GDI
Galvanized Steel Slotted	GS
Galvanized Steel Perforated	GP
Stainless Steel Slotted	SS
Stainless Steel Perforated	SP
Reinforced Galvanized Steel Slotted	RGS
Reinforced Galvanized Steel Perforated	RGP
Reinforced Stainless Steel Slotted	RSS
Reinforced Stainless Steel Perforated	RSP
Polypropylene	PP

6. Specify Catch Basin

(If Required)	6x24x24" Catch Basin	B6
	24x24x24" Catch Basin	B24

7. Specify Frame Guards

(If Required)Galvanized SteelFGStainless SteelFS

8a. Configure Straight Run (EO or CO)

EX. P22-E0-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

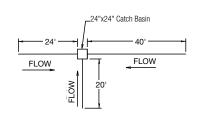
8b. Configure Special Run (XO)

EX. D84-X0-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

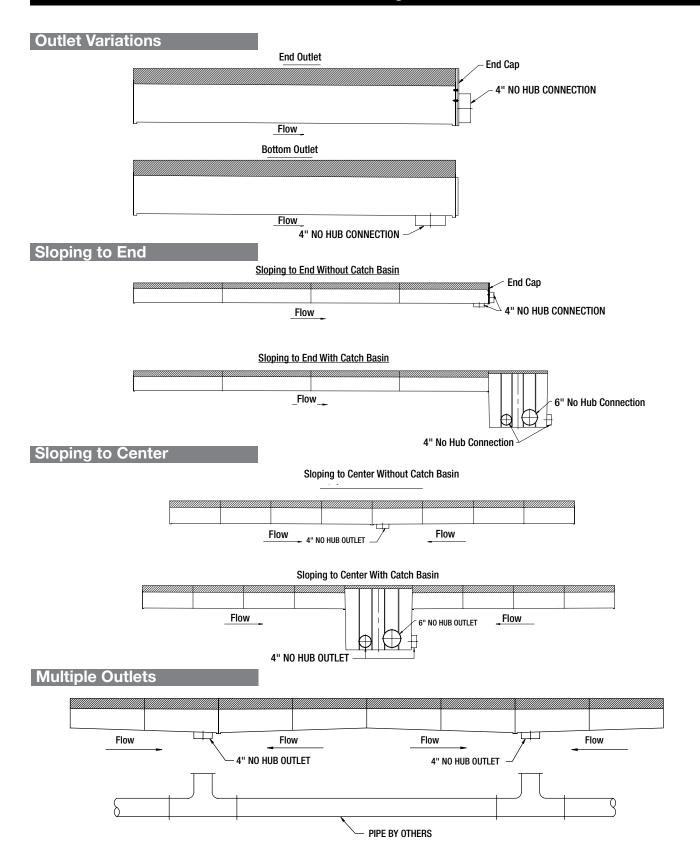


FLOW

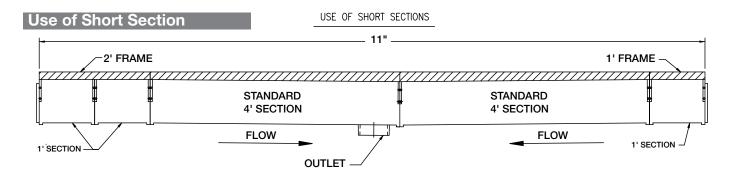
6"x24" Catch Basin



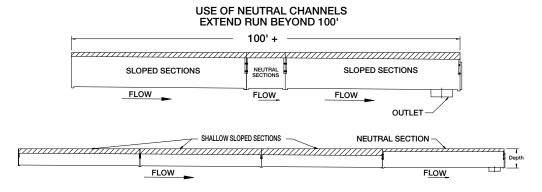
Standard Configurations

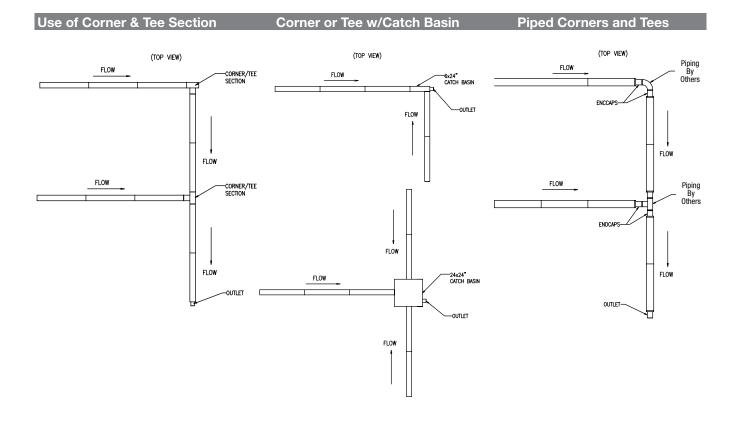


Special Configurations

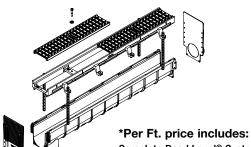


Use of Neutral Channels





Dead Level® 6" Wide Pre-Sloped Trench Drain





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

System Pricing				
Dead Level D w/Ductile Iron Frame Grating Type	List Price Per Ft.*			
BK - Brickslot	\$1,405.00			
BK-AC12 Brickslot Access Cover	2,648.00			
BR - Decorative Bronze	1,407.00			
DI - Ductile Iron	1,033.00			
DI-ADA - ADA Ductile Iron	1,101.00			
GDI - Galvanized Ductile Iron	1,222.00			
GS - Galvanized Slotted	895.50			
GP - Galvanized Perforated	895.50			
SS - Stainless Slotted	1,326.00			
SP - Stainless Perforated	1,326.00			
RGS - HD Galvanized Slotted	1,054.00			
RGP - HD Galvanized Perforated	1,054.00			
RSS - HD Stainless Slotted	1,477.00			
RSP - HD Stainless Perforated	1,477.00			
PP - Polypropylene	1,136.00			
SCI - Solid Cast Iron	1,136.00			
LG - Less Grate	748.50			

System Pricing				
Dead Level P w/Polypropylene Frame	List Price			
Grating Type	Per Ft.*			
BK - Brickslot	\$1,257.00			
BK-AC12 Brickslot Access Cover	2,503.00			
BR - Decorative Bronze	1,230.00			
DI - Ductile Iron	853.00			
DI-ADA - ADA Ductile Iron	923.50			
GDI - Galvanized Ductile Iron	1,043.00			
GS - Galvanized Slotted	720.00			
GP - Galvanized Perforated	720.00			
SS - Stainless Slotted	1,148.00			
SP - Stainless Perforated	1,148.00			
RGS - HD Galvanized Slotted	876.50			
RGP - HD Galvanized Perforated	876.50			
RSS - HD Stainless Slotted	1,300.00			
RSP - HD Stainless Perforated	1,300.00			
PP - Polypropylene	691.50			
SCI - Solid Cast Iron	958.50			
LG - Less Grate	575.50			

Channel Clips	List Price
Order #	Each
8189227	\$46.75



Catch Basins	Description	List Price Per Unit
CB-624D	6x24x24 Catch Basin w/DI Frame	\$2,650.00
CB-624P	6x24x24 Catch Basin w/PP Frame	2,650.00
CB-624D-T	6x24x24 Catch Basin w/DI Frame, Trash Basket	2,851.00
CB-624P-T	6x24x24 Catch Basin w/PP Frame, Trash Basket	2,851.00
CB-2424	24x24x24 Catch Basin w.Dl Grate	7,274.00
CB-2424T	24x24x24 Catch Basin w/DI Grate, Trash Basket	8,729.00
CB-2424-RGS	24x24x24 Catch Basin w/Galv. Grate	14,413.00
CB-2424T-RGS	24x24x24 Catch Basin w/Galv. Grate, Trash Basket	15,870.00
CB-2424-SS	24x24x24 Catch Basin w/SS Grate	15,347.00
CB-2424T-SS	24x24x24 Catch Basin w/SS Grate, Trash Basket	17,718.00



Frame Guards	Description	Adder Per Ft.
FG-BR	Decorative Bronze	\$477.00
FG-GV	Galvanized Steel	130.50
FG-SS	Stainless Steel	386.00





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	\$2,235.00			
DI-ADA - ADA Ductile Iron	2,382.00			
GDI - Galvanized Ductile Iron	2,648.00			
RGP - HD Galvanized Perforated	2,331.00			
RGS - HD Galvanized Slotted	2,331.00			
RSP - HD Stainless Perforated	3,207.00			
RSS - HD Stainless Slotted	3,207.00			
SDI - Solid Ductile Iron	2,488.00			
LG - Less Grate	1,540.00			



Catch Basins	Description	List Price Per Unit
CB-2424	24x24x24 Catch Basin w/DI Grate	\$7,274.00
CB-2424T	24x24x24 Catch Basin w/DI Grate, Trash Basket	8,729.00
CB-2424-RGS	24x24x24 Catch Basin w/Galvanized Grate	14,413.00
CB-2424T-RGS	24x24x24 Catch Basin w/Galvanized Grate, Trash Basket	15,870.00
CB-2424-SS	24x24x24 Catch Basin w/SS Grate	15,347.00
CB-2424T-SS	24x24x24 Catch Basin w/SS Grate, Trash Basket	17,718.00



Frame Guards	Description	Adder Per Ft.	
-FGX-GV	Galvanized Steel	\$130.50	
-FGX-SS	Stainless Steel	386.00	

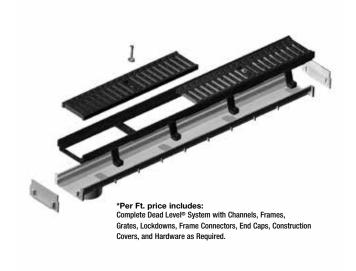


Dead Level® Deck Channels

Dead Level® S

6" Wide Deck Channel For Cast in Place

System Pricing			
0	List Price		
Grating Type	Per Ft.*		
BK - Brickslot	\$1,405.00		
BK-AC12 Brickslot Access Cover	2,648.00		
BR - Decorative Bronze	1,407.00		
DI - Ductile Iron	1,033.00		
DI-ADA Ductile Iron ADA	1,103.00		
GDI Galvanized Ductile Iron	1,222.00		
GP Galvanized Perforated	895.50		
GS Galvanized Slotted	895.50		
SP Stainless Steel Perforated	1,326.00		
SS Stainless Steel Slotted	1,326.00		
RGP Reinforced Galvanized Perforated	1,056.00		
RGS Reinforced Galvanized Slotted	1,056.00		
RSP Reinforced Stainless Steel Perforated	1,477.00		
RSS Reinforced Stainless Steel Slotted	1,477.00		
PP Polypropylene	895.50		
SCI Solid Cast Iron	1,136.00		
LG Less Grate	748.50		



Frame Guards	Description	Adder Per Ft.
FG-BR	Decorative Bronze	\$477.00
FG-GV	Galvanized Steel	130.50
FG-SS	Stainless Steel	386.00

Dead Level® Z

6" Wide Flanged Deck Channel For Precast

System Pricing			
Grating Type	List Price Per Ft.*		
DI - Ductile Iron	\$1,033.00		
DI-ADA Ductile Iron ADA	1,103.00		
GDI Galvanized Ductile Iron	1,222.00		
RGP HD Galvanized Perforated	1,056.00		
RGS HD Galvanized Slotted	1,056.00		
RSP HD Stainless Perforated	1,477.00		
RSS HD Stainless Slotted	1,477.00		

Frame Guards	Description	Adder Per Ft.
FG-BR	Decorative Bronze	\$477.00
FG-GV	Galvanized Steel	130.50
FG-SS	Stainless Steel	386.00



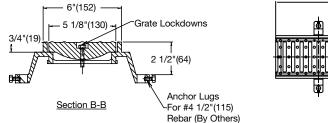


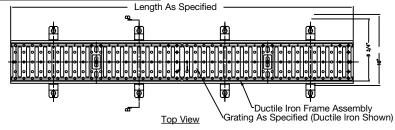
Dead Level® 6" Wide Grate & Frame

DL-GF

6" Wide Ductile Iron Trench Frame & Grating

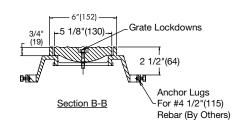
Model Number	Weight (lbs.)	Frame	Grating	List Price Per Ft.
DL-GF-BR	14 lbs./ft.	ductile iron	decorative bronze	\$1,106.00
DL-GF-DI	16 lbs./ft.	ductile iron	ductile iron	729.50
DL-GF-DI-ADA	16 lbs./ft.	ductile iron	ductile iron ADA	800.50
DL-GF-GDI	16 lbs./ft.	ductile iron	galvanized ductile iron	918.50
DL-GF-GP	11 lbs./ft.	ductile iron	galvanized perforated	598.00
DL-GF-GS	11 lbs./ft.	ductile iron	galvanized slotted	598.00
DL-GF-RGP	12 lbs./ft.	ductile iron	reinforced galvanized perforated	754.50
DL-GF-RGS	12 lbs./ft.	ductile iron	reinforced galvanized slotted	754.50
DL-GF-SP	11 lbs./ft.	ductile iron	stainless steel perforated	1,026.00
DL-GF-SS	11 lbs./ft.	ductile iron	stainless steel slotted	1,026.00
DL-GF-RSP	12 lbs./ft.	ductile iron	reinforced stainless steel perforated	1,178.00
DL-GF-RSS	12 lbs./ft.	ductile iron	reinforced stainless steel slotted	1,178.00
DL-GF-SCI	17 lbs./ft.	ductile iron	solid cast iron	836.00



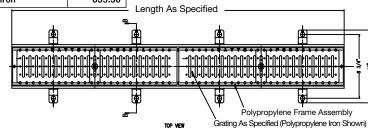


DLP-GF 6" Wide Polypropylene Trench Frame & Grating

Model Number	Weight	Frame	Grating	List Price
	(lbs.)			Per Ft.
DLP-GF-BR	6 lbs./ft.	polypropylene	decorative bronze	\$930.00
DLP-GF-DI	8 lbs./ft.	polypropylene	ductile iron	556.00
DLP-GF-DI-ADA	8 lbs./ft.	polypropylene	ductile iron ADA	624.00
DLP-GF-GDI	8 lbs./ft.	polypropylene	galvanized ductile iron	744.00
DLP-GF-GP	3 lbs./ft.	polypropylene	galvanized perforated	423.00
DLP-GF-GS	3 lbs./ft.	polypropylene	galvanized slotted	423.00
DLP-GF-PP	3 lbs./ft.	polypropylene	polypropylene	423.00
DLP-GF-RGP	4 lbs./ft.	polypropylene	reinforced galvanized perforated	579.00
DLP-GF-RGS	4 lbs./ft.	polypropylene	reinforced galvanized slotted	712.00
DLP-GF-SP	3 lbs./ft.	polypropylene	stainless steel perforated	849.00
DLP-GF-SS	3 lbs./ft.	polypropylene	stainless steel slotted	849.00
DLP-GF-RSP	4 lbs./ft.	polypropylene	reinforced stainless steel perforated	1,001.00
DLP-GF-RSS	4 lbs./ft.	polypropylene	reinforced stainless steel slotted	1,001.00
DLP-GF-SCI	9 lbs./ft.	polypropylene	solid cast iron	659.50



Frame Guards	Description	Adder Per Ft.
FG-BR	Decorative Bronze	\$477.00
FG-GV	Galvanized Steel	130.50
FG-SS	Stainless Steel	386.00

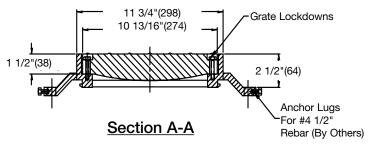


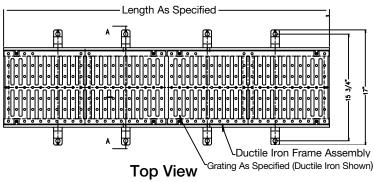


Dead Level® 12" Wide Grate & Frame

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	\$1,426.00
DX-GF-DI-ADA	32 lbs./ft.	ductile iron	ductile iron ADA	1,573.00
DX-GF-GDI	32 lbs./ft.	ductile iron	galvanized ductile iron	1,841.00
DX-GF-RGP	22 lbs./ft.	ductile iron	reinforced galvanized perforated	1,521.00
DX-GF-RGS	22 lbs./ft.	ductile iron	reinforced galvanized slotted	1,521.00
DX-GF-RSP	22 lbs./ft.	ductile iron	reinforced stainless steel perforated	2,400.00
DX-GF-RSS	22 lbs./ft.	ductile iron	reinforced stainless steel slotted	2,400.00
DX-GF-SCI	33 lbs./ft.	ductile iron	solid ductile iron	1,682.00





Frame Guards	Description	Adder Per Ft.
FG-BR	Decorative Bronze	\$477.00
FG-GV	Galvanized Steel	130.50
FG-SS	Stainless Steel	386.00

Table Of Contents

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



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-630Green Roof Intensive
Area Drain



GRD-640Green Roof Metered
Overflow Drain



GRD-650 Green Roof Multi-Level Planter Drain



GRD-670 Green Roof Drain w/Auxiliary Inlet



GRD-680Green Roof Planter Drain with Traffic Grate



GRD-690 Green Roof Shallow Planter Drain



Consult factory for all applications outside of listed parameters.

Prices do not include applicable taxes.



Recommendations

Application	Product
Extensive Area Primary	GRD-650, GRD-610
Intensive Area Primary	
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.

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

Inside caulk (-X)

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

PVC (-60) or ABS (-61) socket

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

Threaded (-THD)

Female threaded outlet for connection to IPS threaded pipe.



Green Roof 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.

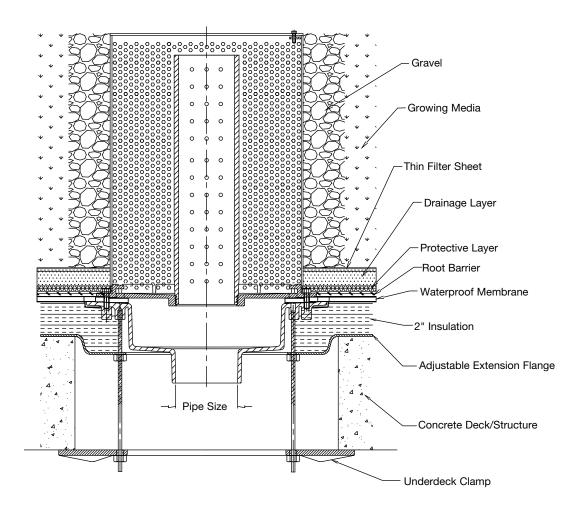
-US Buy American Compliant

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

Typical Installations

GRD-630

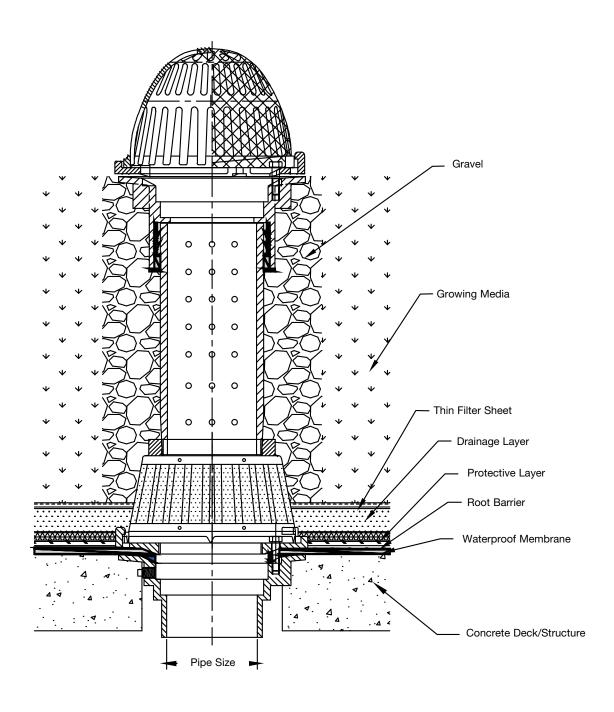
INTENSIVE AREA





Typical Installations

GRD-650 MULTI-LEVEL PLANTING AREA



GRD-610

Green Roof Large Planter Drain

Model Number	Outlet Size	WT., Ibs.	List Price
GRD-612, 3, 4, 5, 6, 8, 10	2,3,4,5,6,8,10"	32	\$3,956.00



	15 1/4"(387)———
	13 3/8"(340)
12" (305) 6 5/16" (160) 5 1/2" (140)	- Pipe Size-

_16 5/8"(422)**__**

Opt	Options for GRD-610		
Suffix	Description	List Price	
-13	Galvanized Body & Clamp	\$,595.00	
-B	Sump Receiver	449.50	
-D	Underdeck Clamp	403.00	
-F	Deck Flange/Adj. Extension	1,100.00	

GRD-610-W

Green Roof Large Planter Overflow Drain

Model Number	Outlet Size	WT., Ibs.	List Price
GRD-612, 3, 4, 5, 6, 8, 10-W	2,3,4,5,6,8,10"	37	\$4,584.00



	
	15 1/4"(387)————————————————————————————————————
	13 3/8"(340)
+	
12"	
12" (305)	
6 5/16" (160)	
(160)	
+	
5 1/2" (140)	
(140)	
	l-Pipe Size-l

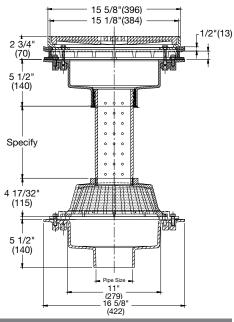
Opt	ions for GRD-610-W	
Suffix	Description	List Price
-13 -B -D -F -W2	Galvanized Body & Clamp Sump Receiver Underdeck Clamp Deck Flange/Adj. Extension 2" Internal Standpipe	\$1,595.00 449.50 403.00 1,100.00 No Add



GRD-620 Green Roof Plaza Area Drain

Model Number	Outlet Size	Grate	WT., Ibs.	List Price
GRD-622, 3, 4, 5, 6, 8, 10	2,3,4,5,6,8,10"	nickel bronze	130	\$7,734.00



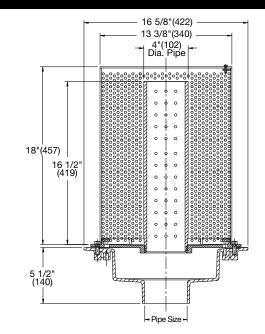


Options for	GRD-620				
Suffix	Description	List Price	Suffix	Description	List Price
-5	Sediment Budket	\$428.50	-В	Sump Receiver	\$449.50
-6	Vandal Proof	246.50	-D	Underdeck Clamp	403.00
-13	Galvanized Body & Clamp	3,193.00	-F	Deck Flange/Adj. Extension	1,100.00

GRD-630 Green Roof Intensive Area Drain

Model Number	Outlet Size	WT., Ibs.	List Price
GRD-632, 3, 4, 5, 6, 8, 10	2,3,4,5,6,8,10"	34	\$4,746.00





Options for GRD-630		
Suffix	Description	List Price
-13	Galvanized Body & Clamp	\$1,595.00
-B	Sump Receiver	449.50
-D	Underdeck Clamp	403.00
-F	Deck Flange/Adj. Extension	1,100.00



GRD-640

Green Roof Metered Overflow Drain

Model Number	Outlet Size	WT., Ibs.	List Price
GRD-642, 3, 4, 5, 6, 8, 10	2,3,4,5,6,8,10"	37	\$3,731.00



	16 5/8"(422)———
	13 3/8"(340)
	4"(102) Dia. Pipe
*	
12"(305) 11"(279) 5/8"(15 Hole	
F 1/01/(1/10)	
5 1/2"(140)	
	Pipe Size -

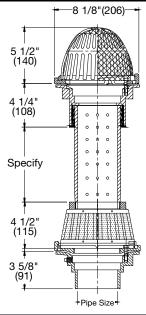
Options for GRD-640				
Suffix	Description	List Price		
-13	Galvanized Body & Clamp	\$1,595.00		
-B	Sump Receiver	449.50		
-D	Underdeck Clamp	403.00		
-F	Deck Flange/Adi Extension	1 100 00		

GRD-650

Green Roof Multi-Level Planter Drain

Model Number	Outlet Size	WT., Ibs.	List Price
GRD-652, 3, 4	2.3.4."	29	\$3.563.00





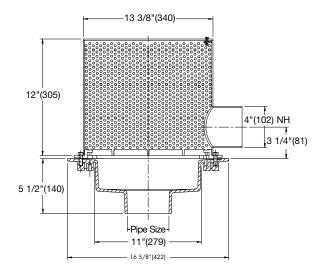
Options for	GRD-650				
Suffix	Description	List Price	Suffix	Description	List Price
-5	Sediment Bucket	\$232.00	-D	Underdeck Clamp	\$249.00
-6	Vandal Proof	246.50	-F	Deck Flange/Adj. Extension	833.00
-13	Galvanized Body & Clamp	658.50	-S0	Side Outlet	366.00
-В	Sump Receiver	428.50			

GRD-670

Green Roof Drain w/Auxiliary Inlet

Model Number	Outlet Size	WT., Ibs.	List Price
GRD-672, 3, 4, 5, 6, 8, 10	2,3,4,5,6,8,10"	38	\$6,220.00





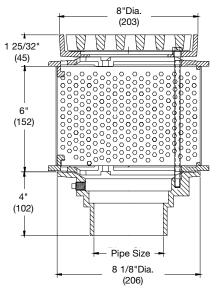
Options for GRD-670				
Suffix	Description	List Price		
-13	Galvanized Body & Clamp	\$1,595.00		
-B	Sump Receiver	449.50		
-D	Underdeck Clamp	403.00		
-F	Deck Flange/Adj. Extension	1,100.00		
-Q	Additional Inlet(s)	428.50 ea.		

GRD-680

Green Roof Planter Drain w/ Traffic Grate

Model	Outlet	Grate	WT.,	List
Number	Size		Ibs.	Price
GRD-682, 3, 4,	2,3,4,"	ductile iron	22	\$3,396.00





Options for GRD-680						
Suffix	Description	List Price	Suffix	Description	List Price	
-1	All Nickel Bronze Top	\$1,024.00	-D	Underdeck Clamp	249.00	
-6	Vandal Proof	246.50	-F	Deck Flange/Adj. Extension	833.00	
-13	Galvanized Body & Clamp	658.50	-\$0	Side Outlet	366.00	
-B	Sump Receiver	428.50				

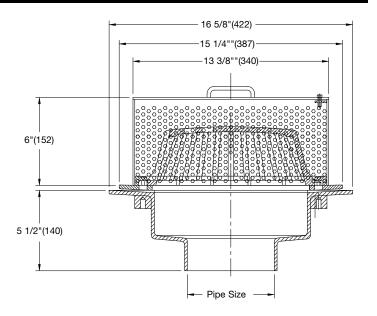


GRD-690

Green Roof Shallow Planter Drain

Model Number	Outlet Size	WT., Ibs.	List Price
GRD-692, 3, 4, 5, 6, 8, 10	2,3,4,5,6,8,10"	34	\$4,150.00





Options for GRD-690 Suffix Description List Price -13 Galvanized Body & Clamp \$1,595.00 -B Sump Receiver 449.50 -D Underdeck Clamp 403.00 -F Deck Flange/Adj. Extension 1,100.00

GRD-730

Green Roof Large Multi-Level Planter Drain

Model Number	Outlet Size	WT., Ibs.	List Price
GRD-732, 3, 4, 5, 6, 8, 10	2,3,4,5,6,8,10"	74	\$4,644.00



Options for GRD-730				
Suffix	Description	List Price		
-5	Sediment Bucket	\$428.50		
-6	Vandal Proof	246.50		
-13 -B -D -F	Galvanized Body & Clamp Sump Receiver Underdeck Clamp Deck Flange/Adj. Extension	3,193.00 449.50 403.00 1,100.00		

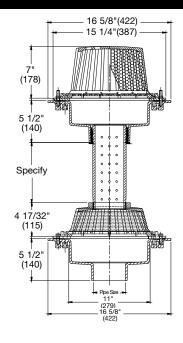




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- Pictorial Index
- Product Recommendations
- Roof Drain Selection Factors

Placement

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Pipe Connections

Commonly Specified Options

• Typical Installations





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





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





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

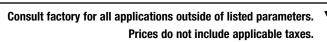


RDA-940Wallflower™ Downspout
Nozzle



RD-950 Stainless Steel Downspout Cover







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 Square Feet at Various Rainfall Rates					Areas	
mono	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	Vertical	Horizonta	al Storm Dra	ain / Slope	
Inches	Leader	1/8"/ft.	1/4"/ft.	1/2"/ft.	
2	23	10	15	20	
3	67	34	48	68	
4	144	78	110	156	
5	261	139	196	278	
6	424	222	314	445	
8	913	478	677	956	
10	-	860	1214	1721	
12	-	1384	1953	2768	
15	-	2473	3491	4946	

Chart B is based on Table 11-2 from the Uniform Plumbing Code (UPC) - 2006 Edition



Roof 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".



Typical Installations Membrane **RD-100-B-D** Insulation **TAPERED INSULATION** Sump Receiver Deck Underdeck Clamp No Hub Body Dome Flashing Clamp B15 Body Membrane RD-300-D-F **DRAIN ELEVATED TO** 2" Insulation **INSULATION HEIGHT** Deck Flange Metal Deck ·No Ḧub Body Underdeck Clamp Overflow Standpipe **RD-100-D-W** Membrane **INTERNAL OVERFLOW** Deck Underdeck Clamp No Hub Body Nickel Bronze Heel-Proof Grate Prom Deck Grout RD-300-CP-15 Membrane PROMENADE AREA Deck UNDERDECK CLAMP No Hub Body Parapet Wall **RD-270** Membrane **SCUPPER OR PARAPET** Deck

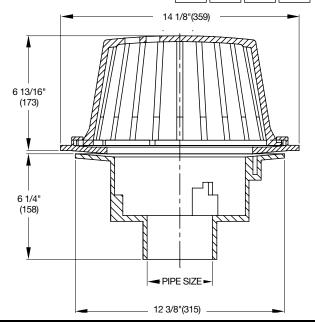


RD-100 Roof Drain

Model Number	Outlet Size	WT., lbs.	List Price
RD-102, 3, 4	2,3,4,"	26	\$1,181.00
RD-105, 6	5, 6	26	1,685.00



Note: Poly Dome Standard



RD-100-F

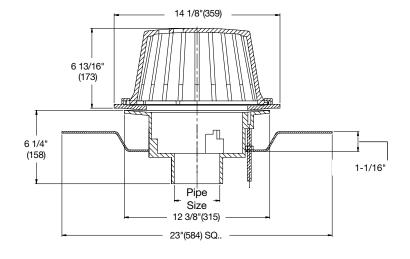
Roof Drain with Adjustable Extension Flange



Model Number	Outlet Size	WT., lbs.	List Price
RD-102, 3, 4-F	2,3,4,"	40	\$2,281.00
RD-105, 6-F	5, 6	40	2,783.00



Note: Poly Dome Standard



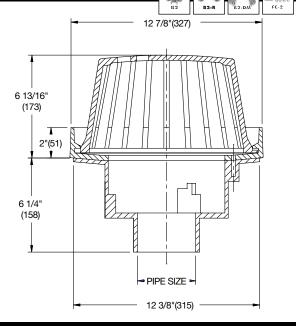
Opti	Options for RD-100 Series:							
Suffix	Description	List Price	Suffix	Description	List Price			
None	No Hub	No Add	-GSS	Stainless Steel Ballast Guard	\$1,044.00			
P	Push-On Outlet	No Add	-K	Ductile Iron Dome	353.00			
T	Threaded Outlet	\$135.50	-K13	Galvanized Dome	948.50			
X	Inside Caulk Outlet	No Add	-K40	Ductile Iron Low Dome (4" high)	353.00			
-60	PVC Body w/Socket Outlet (2,3,4,6" only)	No Add	-K80	Aluminum Dome	409.00			
-61	ABS Body w/Socket Outlet (2,3,4" only) Galvanized Body & Flashing Clamp	No Add	-K81	Rough Bronze Dome	1,380.00			
-13		1,595.00	-K83	SS Mesh Covered Aluminum Dome	1,244.00			
-85	4" SS Perforated Extension	1,044.00	-L	Vandal Proof Dome	208.50			
- ^	Accutrol Flow Restrictor	1.961.00	-R	2" External Water Dam	386.00			
-A -B	Sump Receiver	449.50	-so	Side Outlet (2,3,4" only)	561.50			
-D	Underdeck Clamp	403.00	-V	Fixed Extension	1,100.00			
-F	Deck Flange/Adj. Extension	1,100.00	-W	Adjustable Internal Water Dam	706.50			

RD-100-R Overflow Roof Drain with 2" External Water Dam

Model Number	Outlet Size	WT., Ibs.	List Price
RD-102, 3, 4-R	2, 3, 4,"	27	\$1,565.00
RD-105, 6-R	5, 6	27	2,067.00



Note: Poly-Dome Standard



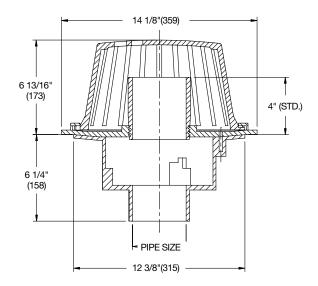
RD-100-W

Overflow Roof Drain with Internal Standpipe



Outlet Size	Outlet Size	WT., Ibs.	List Price
RD-102, 3, 4-W	2, 3, 4"	32	\$1,886.00
RD-105, 6-W	5, 6"	32	2,388.00





Note: Poly Dome Standard

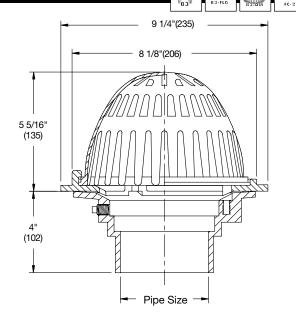
Options for RD-100 Series:							
Suffix	Description	List Price	Suffix	Description	List Price		
None	No Hub	No Add	-GSS	Stainless Steel Ballast Guard	\$1,044.00		
P T	Push-On Outlet Threaded Outlet	No Add \$135.50	-K -K13	Ductile Iron Dome Galvanized Dome	353.00 948.50		
-60	Inside Caulk Outlet PVC Body w/Socket Outlet (2,3,4,6" only)	No Add No Add	-K40 -K80	Ductile Iron Low Dome (4" high) Aluminum Dome	353.00 409.00		
-61 -13 -85	ABS Body w/Socket Outlet (2,3,4" only) Galvanized Body & Flashing Clamp 4" SS Perforated Extension	No Add 1,594.00	-K81 -K83	Rough Bronze Dome SS Mesh Covered Aluminum Dome Vandal Proof Dome	1,380.00 1,244.00 208.50		
-65 -A -B	Accutrol Flow Restrictor Sump Receiver	1,044.00 1,961.00 449.50	-L -R -S0	2" External Water Dam Side Outlet (2,3,4" only)	386.00 561.50		
-D -D -F	Underdeck Clamp Deck Flange/Adj. Extension	403.00 403.00 1,100.00	-V -W	Fixed Extension Adjustable Internal Water Dam	1,100.00 706.50		



RD-200 Small Area Roof Drain



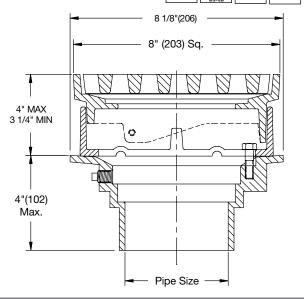




RD-200-CP Roof Drain with 8" x 8" Promenade Top

Model Number	Outlet Size	WT., Ibs.	Grate	List Price
RD-202, 3, 4-CP	2,3,4,"	22	ductile iron	\$1,371.00
RD-202, 3, 4-CP-1	2,3,4"	22	nickel bronze	2,947.00





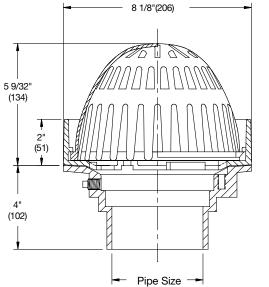
Optic	Options for RD-200 Series:							
Suffix	Description	List Price	Suffix	Description	List Price			
None	No Hub	No Add	-K	Ductile Iron Dome	\$147.00			
-5	Sediment Bucket	\$181.50	-K13	Galvanized Dome	398.50			
-6	Vandal Proof Top (RD-200-CP)	246.00	-K80	Aluminum Dome	301.50			
-9	Hinged Grate	433.00	-K81	Rough Bronze Dome	565.50			
-13	Galvanized	329.00	-K83	SS Mesh Covered Aluminum Dome	742.00			
-60	PVC Body w/Socket Outlet (2,3,4,6" Only)	No Add	-L	Vandal Proof Dome	192.50			
-61	ABS Body w/Socket Outlet (2,3,4" Only)	No Add	-P	Push-On Outlet	No Add			
-85	4" SS Perforated Extension	728.50	-R	2"External Water Dam	321.00			
-В	Sump Receiver	428.50	-S0	Side Outlet	367.00			
-D	Underdeck Clamp	249.00	-T	Threaded Outlet	135.50			
-F	Deck Flange/Adj. Extension	833.00	W	Adjustable Internal Water Dam	619.00			
-GSS	Staineless Steel Ballast Guard	770.00	-X	Inside Caulik Outlet	No Add			

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	\$1,137.00

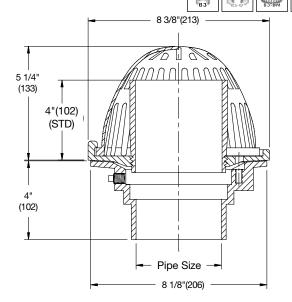




RD-200-W Overflow Roof Drain with Internal Standpipe

Model Number	Outlet Size	WT., Ibs.	List Price
RD-202, 3, 4-W	2, 3, 4"	25	\$1,434.00





Options for RD-200 Series:					
Suffix	Description	List Price	Suffix	Description	List Price
None	No Hub	No Add	-K	Ductile Iron Dome	\$147.00
-5	Sediment Bucket	\$181.50	-K13	Galvanized Dome	398.50
-6	Vandal Proof Top (RD-200-CP)	246.00	-K80	Aluminum Dome	301.50
-9	Hinged Grate	433.00	-K81	Rough Bronze Dome	565.50
-13	Galvanized	329.00	-K83	SS Mesh Covered Aluminum Dome	742.00
-60	PVC Body w/Socket Outlet (2,3,4,6" Only)	No Add	-L	Vandal Proof Dome	192.50
-61	ABS Body w/Socket Outlet (2,3,4" Only)	No Add	-P	Push-On Outlet	No Add
-85	4" SS Perforated Extension	728.50	-R	2"External Water Dam	321.00
-B	Sump Receiver	428.50	-S0	Side Outlet	367.00
-D	Underdeck Clamp	249.00	-T	Threaded Outlet	135.50
-F	Deck Flange/Adj. Extension	833.00	W	Adjustable Internal Water Dam	619.00
-GSS	Staineless Steel Ballast Guard	770.00	-X	Inside Caulik Outlet	No Add



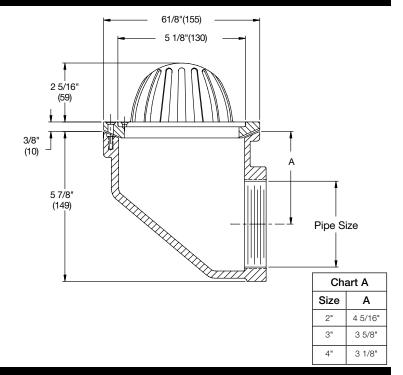
Balcony Drains

RD-230

Side Outlet Balcony Drain

Model Number	Outlet Size	WT., Ibs.	List Price
RD-232, 3, 4	2, 3, 4"	10	\$1,233.00





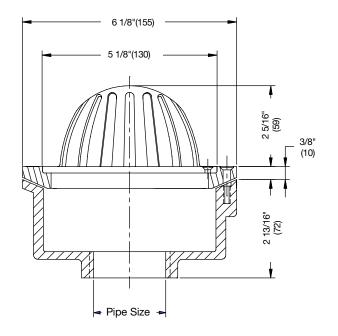
RD-240

Bottom Outlet Balcony Drain

Model Number	Outlet Size	WT., Ibs.	List Price
RD-242, 3, 4	2, 3, 4"	7	\$1,033.00



Options for RD-230/240 Series:					
Suffix	Description	List Price			
-6	Vandal Proof	\$95.00			
-13 -14 -83	Galvnized Body & Flashing Clamp Flat Grate SS Mesh Covered Dome	264.50 No Add 392.00			



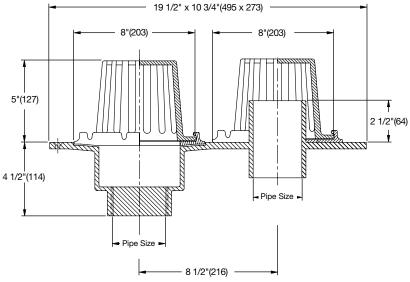
Combination Roof Drains

RD-250

Flanged Cast Iron Roof Drain/Overflow System

Model Number	Outlet Size	WT., Ibs.	List Price
RD-252, 3, 4	2, 3, 4"	28	\$1,412.00





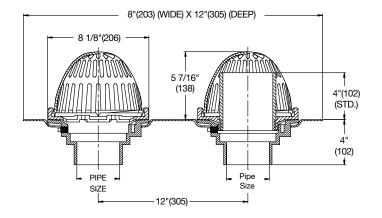
Options for RD-250 Series: Suffix Description List Price -L Vandal Proof No Add

RD-260

Roof Drain/Overflow System

Model Number	Outlet Size	WT., lbs.	List Price
RD-262, 3, 4	2, 3, 4"	36	\$1,916.00





Options for RD-260 Series:							
Suffix	Description	List Price	Suffix	Description	List Price		
None	No Hub	No Add	-GSS	Stainless Steel Ballast Guard	\$1,388.00		
P T	Push-On Outlet Threaded Outlet	No Add \$269.00	-K -K13	Ductile Iron Dome Galvanized Dome	262.00 794.50		
X	Inside Caulk Outlet	No Add	-K80	Aluminum Dome	600.00		
-60	PVC Body w/Socket Outlet	No Add	-K83	SS Mesh Covered Dome	1,484.00		
-61	ABS Body w/Socket Outlet	No Add	-L	Vandal Proof Dome	384.50		
-13	Galvanized Body & Flashing Clamp	658.50	-R	2" External Water Dam	No Add		
-D	Underdeck Clamp	493.00					



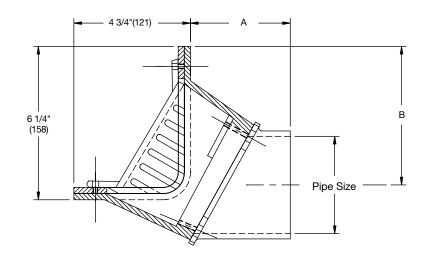
Scupper Drains

RD-270

Scupper Drain with Angle Grate

Model Number	Outlet Size	WT., Ibs.	List Price
RD-272, 3, 4	2, 3, 4"	20	\$1,182.00
RD-276	6"	22	2,000.00





RD-270	NI	Н	THD	
	A B		Α	В
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"

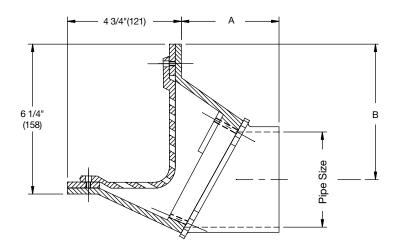
RD-290

Scupper Drain with Flat Grate

Model Number	Outlet Size	WT., Ibs.	List Price
RD-292, 3, 4	2,3,4,"	24	\$1,118.00
RD-296	6"	26	2,099.00



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	\$1,685.00			
-6	Vandal Proof Grate	95.00			
-13	Galvanized	400.00			



RD-290	NH		TH	ID
	Α	В	Α	В
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"



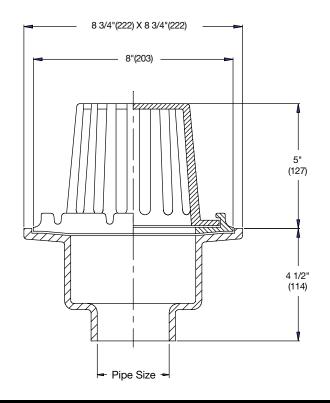
Small Area Roof Drains

RD-280

Flanged Cast Iron Roof Drain

Model Number	Outlet Size	WT., Ibs.	List Price
RD-283, 4	3, 4"	16	\$819.00



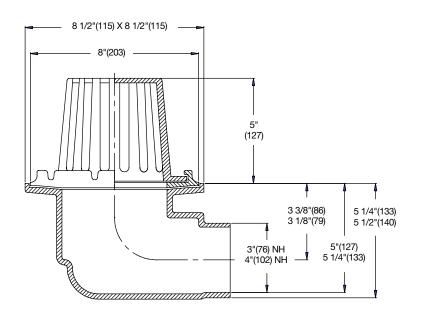


RD-280-SO

Flanged Cast Iron Roof Drain with Side Outlet

Model Number	Outlet Size	WT., Ibs.	List Price
RD-283, 4-S0	3, 4"	17	\$968.00





Options for RD-280 /280-SO Series:

Suffix	Description	List Price
-L	Vandal Proof Dome	No Add
-R	2" External Water Dam	\$291.00

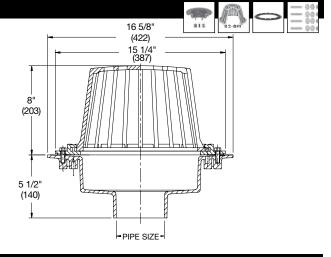


High Volume Roof Drains

RD-300 High Volume Roof Drain

Model Number	Outlet Size	WT., Ibs.	List Price
RD-302, 3, 4	2, 3, 4"	30	\$1,181.00
RD-305, 6	5, 6"	30	1,685.00
RD-308, 10	8, 10"	30	2,189.00



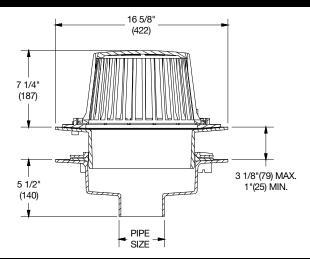


RD-300-AC

Adjustable Extension Compression Seal Roof Drain

Model Number	Outlet Size	WT., Ibs.	List Price
RD-302, 3, 4-AC	2, 3, 4"	63	\$2,279.00
RD-305, 6-AC	5, 6,"	63	2,783.00
RD-308, 10-AC	8, 10"	63	3,286.00



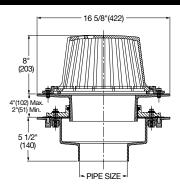


RD-300-AE

Adjustable Extension Threaded Seal Roof Drain

Model Number	Outlet Size	WT., Ibs.	List Price
RD-302, 3, 4-AE	2, 3, 4"	63	\$2,800.00
RD-305, 6-AE	5, 6,"	63	2,844.00
RD-308, 10-AE	8, 10"	63	3,286.00





Opti	Options for RD-300 Series:						
Suffix	Description	List Price	Suffix	Description	List Price		
-P -X	Push On Available on 3,4, & 6" Outlets Only Inside Caulk	No Add No Add	-K13 -K40	Galvanized Dome Ductile Iron Low Dome (4" High)	\$948.50 353.00		
-13 -85 -B -D	Galvanized Body & Clamp 4" SS Perforated Extension Sump Receiver Underdeck Clamp	\$1,595.00 1,044.00 449.50 403.00	-K80 -K81 -K83 -L	Aluminum Dome Rough Bronze Dome SS Mesh Covered Aluminum Dome Vandal Proof Dome	409.00 1,380.00 1,244.00 208.50		
-F -GSS -K	Deck Flange/Adj. Extension Stainless Steel Ballast Guard Ductile Iron Dome	1,100.00 1,044.00 353.00	-R -W	2" External Water Dam 4" Internal Water Dam	386.00 706.50		



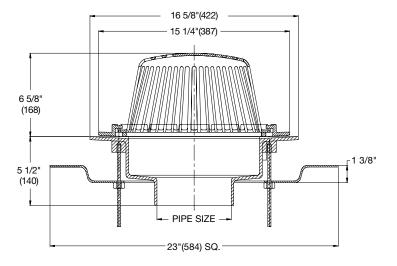
High Volume Roof Drains

RD-300-F

Roof Drain with Adjustable Extension Flange

Model Number	Outlet Size	WT., Ibs.	List Price
RD-302, 3, 4-F	2, 3, 4,"	45	\$2,281.00
RD-305, 6-F	5, 6"	45	2,783.00
RD-308, 10-F	8, 10"	45	3,286.00





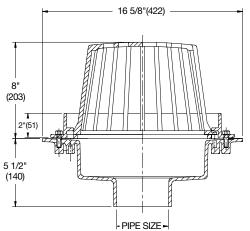
RD-300-R

Overflow Roof Drain with 2" External Water Dam



Model Number	Outlet Size	WT., Ibs.	List Price
RD-302, 3, 4-R	2, 3, 4"	32	\$1,565.00
RD-305, 6-R	5, 6"	32	2,067.00
RD-308, 10-R	8, 10"	32	2,572.00





RD-300-W

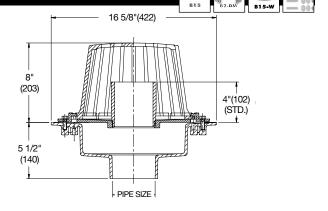
Overflow Roof Drain with 2" Internal Standpipe

Model Number	Outlet Size	WT., Lbs.	List Price
RD-302, 3, 4-W	2, 3, 4"	37	\$1,886.00
RD-305, 6-W	5, 6"	37	2,388.00
RD-308, 10-W	8, 10"	37	2,891.00



Options for RD-300 Series:

(For Options see page 122.)





High Volume Roof Drains

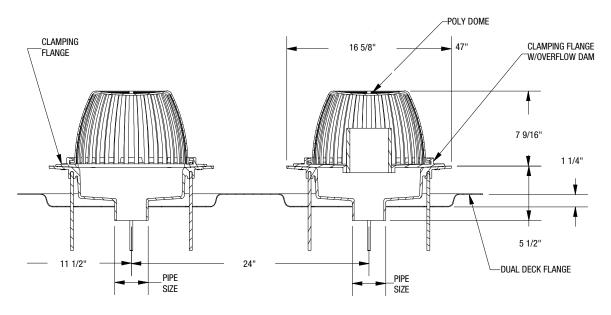
RD-350-F2

Combination Primary and Overflow Roof Drain

Model Number	Outlet Size	Outlet Type	WT., Ibs.	List Price
RD-352, 3, 4-F2	2, 3, 4"	NH (STD), P (PO), X (IC)	96	\$4,041.00
RD-355, 6-F2	5, 6"	NH (STD), P (PO), X (IC	96	5,019.00
RD-358, 10-F2	8, 10"	NH (STD), X (IC)	96	5,998.00

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	\$1,806.00
P	Push On Outlet (3, 4, 6" Only)	No Add	-K40	Ductile Iron Low Dome (4" High)	707.00
X	Inside Caulk (34, 4, 5, 6, 8" Only)	No Add	-K80	Aluminum Dome	825.50
-13	Galvanized Body & Clamp	\$3,275.00	-K81	Rough Bronze Dome	2,625.00
-85	4" SS Perforated Extension	2,694.00	-K83	SS Mesh Covered Aluminum Dome	1,722.00
-D	Underdeck Clamp	646.50	-L	Vandal Proof Dome	394.50
-GSS	Stainless Steel Ballast Guard	2,694.00	-R	2" External Water Dam	No Add
-K	Ductile Iron Dome	707.00			

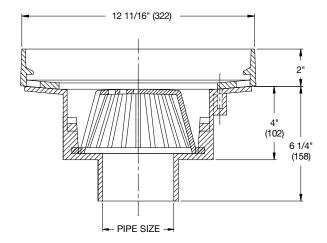


Deck Receptor Drain

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	\$1,200.00



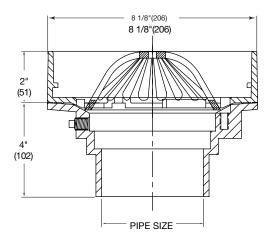


Options for RD-400 Series:						
Suffix	Description	List Price	Suffix	Description	List Price	
None	No Hub	No Add	-B	Sump Receiver	\$449.50	
-P	Push-On Outlet	No Add	-D	Underdeck Clamp	403.00	
-T	Threaded Outlet	\$135.50	-F	Deck Flange/Adj. Extension	1,100.00	
-X	Inside Caulk Outlet	No Add	-L	Vandal Proof Dome	208.50	
-13	Galvanized	692 50				

RD-410 8" Diameter Deck Receptor Drain

Model Number	Outlet Size	WT., Lbs.	List Price
RD-412,3,4	2,3,4"	15	\$987.50





Option	Options for RD-410 Series:					
Suffix	Description	List Price	Suffix	Description	List Price	
None P	No Hub Push-On Outlet	No Add No Add	-B -D	Sump Receiver Underdeck Clamp	\$428.50 249.00	
T X -13	Threaded Outlet Inside Caulk Outlet Galvanized Body & Flashing Clamp	\$135.50 No Add 329.00	-F -L -S0	Deck Flange/Adj. Extension Vandal Proof Side Outlet	833.00 192.50 366.00	



Specialty Roof Drains

Super Flow Roof Drain **RD-500**

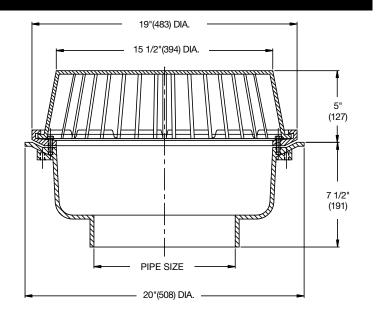
Model Number	Outlet Size	WT., lbs.	List Price
RD-510, 12	10", 12"	52	\$3,582.00



Opti	ons for RD-500 Series:	
Suffix	Description	List Price
-D	Underdeck Clamp	\$403.00
-F	Deck Flange/Adj. Extension	1,100.00
-L	Vandal Proof Dome	208.50

2" External Water Dam

2" Internal Water Dam



RD-700

-R

Dual Outlet Roof Drain/Overflow

386.00

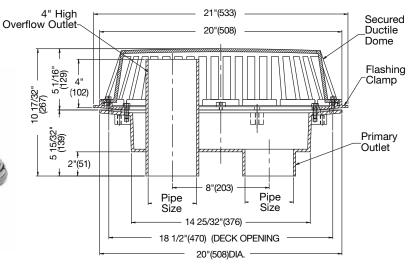
706.50

Model Number	Outlet Size	WT., lbs.	List Price
RD-703, 4	3,4"	49	\$3,617.00
RD-705, 6	5,6"	49	4,335.00



U'	U

Options for RD-700 Series:				
Suffix	Description	List Price		
-CT -D	Overflow Through Dome Underdeck Clamp	No Add \$413.00		
-F	Deck Flange/Adj. Extension	737.50		
-GSS	4" High SS Gravel Guard	1,474.00		
-K80	Aluminum Dome	No Add		
-K83	SS Mesh Covered Dome	867.00		
-L	Vandal Proof Dome	197.00		
-W2	2" High Overflow	No Add		







RD-800

Dual Outlet Large Capacity Roof Drain/Overflow

Model Number	Outlet Size	WT., Ibs.	List Price
RD-808	8"	115	\$5,321.00
RD-810	10"	115	5,719.00



8"(203) Ove	erflow — 32 1/2"(824) — 🗕	_
Specify	32"(813)	5"(128)
10"		8"
10" (252)		(203)
	Pipe Pipe Size	3"(76)
	13 1/2" (343)	Flashing Clamp
	28 5/8" Primary Outlet	_
	Gallot	





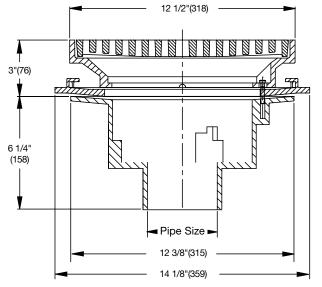
RD-100-CP

Roof Drain with 12"x12" Promenade Top



Model Number	Outlet Size	WT., Ibs.	Grate	List Price
RD-102, 3, 4-CP,	2, 3, 4"	80	ductile iron	\$2,041.00
RD-102, 3, 4-CP-1	2, 3, 4"	80	nickel bronze	3,647.00
RD-105, 6-CP	5, 6"	80	ductile iron	2,204.00
RD-105, 6-CP-1	5, 6"	80	nickel bronze	3,691.00





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	\$1,044.00
Р	Push-On Available on 3,4 & 6" Only	No Add	-B	Sump Receiver	448.00
T	Threaded Outlet (RD-100-CP only)	\$135.50	-D	Underdeck Clamp	402.00
Х	Inside Caulk Outlet (RD-100-CP only)	No Add	-E	1" Stackable Clamp	135.50
-6	Vandal Proof	246.50	-F	Deck Flange/Adj. Extension	1,100.00
-9	Hinged Grate	380.00	-S0	Side Outlet (RD-100-CP 2, 3, 4" only)	561.50
-13	Galvanized	1 595 00		, , , , , , , , , , , , , , , , , , , ,	



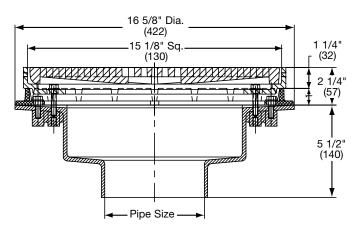
Vent Cap/Expansion Coupling

RD-300-CP15

Roof Drain with 15"x15" Promenade Top

Model Number	Outlet Size	WT., Ibs.	Grate	List Price
RD-302, 3, 4-CP15,	2, 3, 4"	110	ductile iron	\$2,000.00
RD-302, 3, 4-CP15-1	2, 3, 4"	110	nickel bronze	5,276.00
RD-305, 6,8-CP15	5, 6, 8"	110	ductile iron	2,483.00
RD-305, 6,8-CP15-1	5, 6, 8"	110	nickel bronze	5,413.00





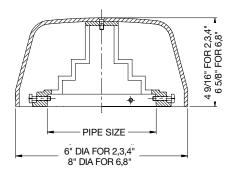
RD-680-VC

Vent Cap

Model Number	Outlet Size	WT., Ibs.	List Price
RD-682, 3, 4-VC	2, 3, 4"	7	\$786.50
RD-686-VC	6"	15	1,119.00
RD-688-VC	8"	15	1,284.00



Option	s for RD-680-VC Se	eries:
Suffix	Description	List Price
_12	Calvanized	¢291 E0



RD-900

Neoprene Expansion Coupling

Model Number	Outlet Size	WT., Ibs.	List Price
RD-902	2"	1	\$499.00
RD-903	3"	1	612.00
RD-904	4"	2	709.50

Chart A				
Pipe Size	Height			
2"	7-1/8"			
3"	8-1/8"			
4"	8-5/8"			





Downspout Nozzles

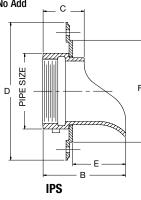
RD-940

Downspout Nozzle

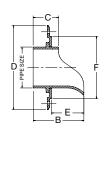
Model Number	Outlet Size	WT., Ibs.	List Price
RD-942, 3, 4	2, 3, 4"	12	\$1,807.00
RD-945, 6	5, 6"	18	3,239.00
RD-948	8"	22	4,422.00
RD-9410-NH	10"	25	5,768.00
RD-9412-NH	12"	29	7,141.00

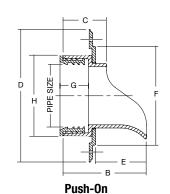
Options for RD-940 Series:

Suffix	Description	List Price
-83	SS Bird Screen	\$916.50
-NH	No Hub	No Add
-P	Push-On Connection	No Add
	(3,4,6,8" Only)	









No-Hub

IPS Threaded Connection								
Model	odel 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	В	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								Н
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)



Downspout Nozzles

RDA-940

Wallflower™ Downspout Cover

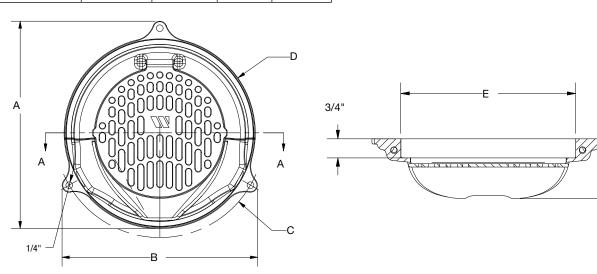
Model Number	Order No.	Outlet Size	WT., Ibs.	List Price
RDA-943-NB	8201015	3"(76)	1.11	\$1,845.00
RDA-944-NB	8201016	4"(102)	1.40	1,845.00
RDA-946-NB	8201017	6"(152)	1.96	3,313.00
RDA-948-NB	8201018	8"(203)	2.60	4,528.00
RDA-943-SL	8201383	3"(76)	1.11	1,845.00
RDA-944-SL	8201384	4"(102)	1.40	1,845.00
RDA-946-SL	8201385	6"(152)	1.96	3,313.00
RDA-948-SL	8201386	8"(203)	2.60	4,528.00
RDA-943-RD	8201387	3"(76)	1.11	1,845.00
RDA-944-RD	8201388	4"(102)	1.40	1,845.00
RDA-946-RD	8201389	6"(152)	1.96	3,313.00
RDA-948-RD	8201390	8"(203)	2.60	4,528.00



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	\$7,376.00	
RDA-944-NB-5PK	8201563	4"(102)	7.00	7,376.00	
RDA-946-NB-5PK	8201564	6"(152)	9.80	13,242.00	
RDA-943-NB-10PK	8201566	3"(76)	11.20	12,907.00	
RDA-944-NB-10PK	8201567	4"(102)	14.00	12,907.00	
RDA-946-NB-10PK	8201568	6"(152)	19.60	23,173.00	



Dimensional Data						
Model	Pipe Size	A	В	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)



2 1/2"

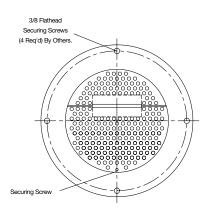
Downspout Nozzles

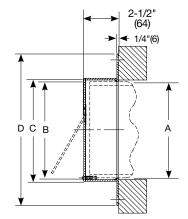
RD-950

Stainless Steel Downspout Cover

Model Number	Outlet Size	WT., lbs.	List Price
RD-953,4	3, 4"	8	\$4,846.00
RD-956	6"	9	5,120.00
RD-958	8"	10	5,362.00
RD-9510	10"	12	5,673.00
RD-9512	12"	14	5,673.00





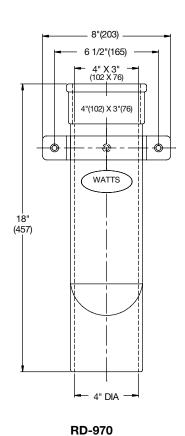


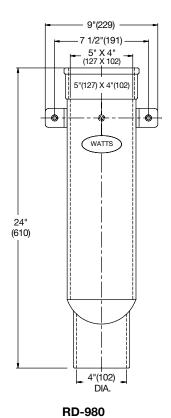
-		
Suffix	Description	List Price
-6	Vandal Proof	256.00

RD-970/980 Downspout Boot

Model Number	Outlet Size	WT., lbs.	List Price
RD-970	4" x 3"	20	\$1,375.00
RD-980	5" x 4"	30	2,192.00







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

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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-Automatic Grease Interceptor



WD-H SERIES Grease Interceptor with Access Housing



WD-AH SERIES Semi-Automatic Grease Interceptor w/Housing



OI SERIES Oil Interceptor



OI-K SERIES
Large Capacity
Oil Interceptor



OI-ST SERIES
Oil Interceptor with Integral
Storage Tank



SI-742 Hair, Plaster & Sediment Interceptor



SI-740-L Sediment & Hair Interceptor



SI-750 Cast Iron Hair Interceptor



SI-750-TO Chrome Plated Hair Interceptor



SI-762
Bottom Access Hair, Plaster
& Sediment Interceptor

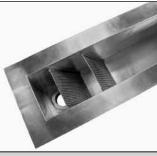


SI-770 Solids Interceptor





LI-800-SERIES Lint Interceptor



LI-LT Series Stainless Steel Lint Trough



SA-SERIES
Heavy Duty Sand &
Sediment Interceptor



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).

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



Grease Interceptors

Pipe Connections

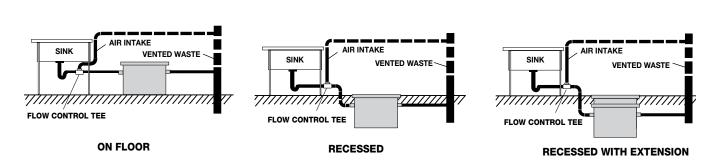
No hub (standard)

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:
 - _____(LENGTH) x _____(WIDTH) x _____ x (DEPTH) = ____CU. IN.
- 2. Convert the capacity from cubic inches to gallons per minute (GPM): _____CU.IN ÷ 231 = _____GPM
- 3. Adjust for displacement: _____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 GPM x 0.75 = 21 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 GPM (A) x 100% = 35 GPM

26 GPM (B) $\times 50\% = 13$ GPM 30 GPM (C + D) $\times 25\% = 7.5$ GPM

Total Flow Rate = 55.5 GPM

A 50 GPM interceptor is recommended for this installation.



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.

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
- 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.

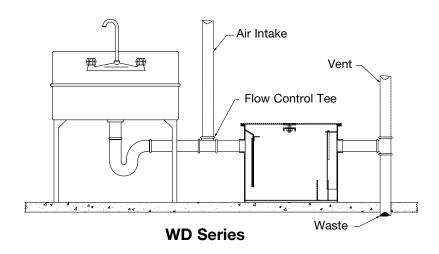
Manual operation grease interceptors are cleaned by removing the cover (secured with hex bolts), and scooping out grease accumulated at the top of the interceptor. Grease can be removed manually, or pumped by outside service. Check local ordinances for proper grease disposal.

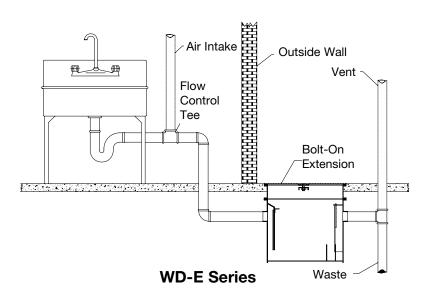
Semi-automatic interceptors are cleaned as follows:

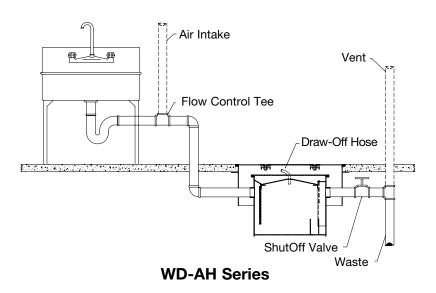
- 1) With the outlet valve open, run a full stream of hot water (140 degrees min.) through the interceptor for at least 2 minutes.
- 2) Allow unit to cool for approx. 3 minutes.
- 3) Close the valve on the outlet side of the interceptor.
- 4) Remove cap from top of interceptor and attach draw-off hose. 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.



Typical Grease Interceptor Installations









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 GPM x 3 = 30 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

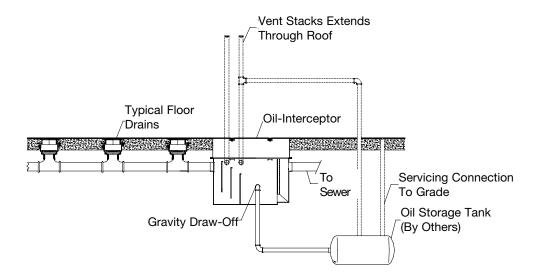
Product will be supplied with minimum 51% domestic content, in compliance with FAR 52.225-9 Buy American Act.



Oil Interceptors

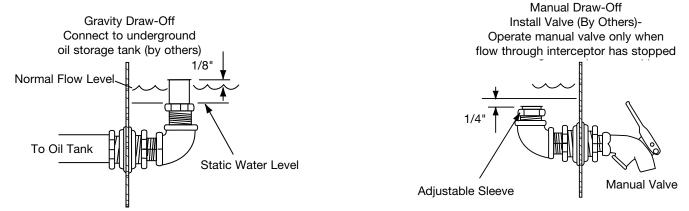
Installation Considerations

- 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

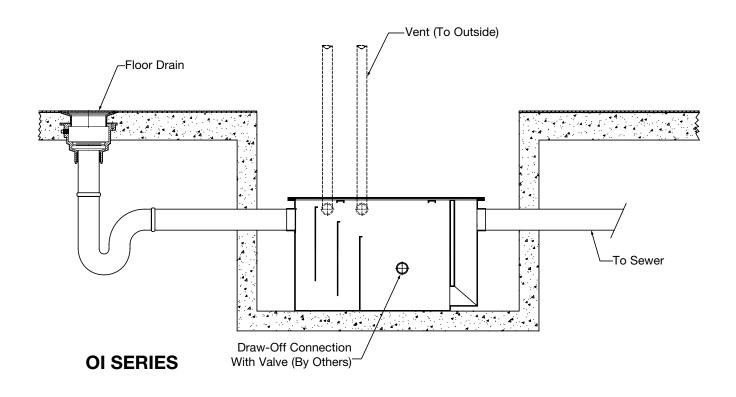
Oil interceptors are not designed to store oil for an extended period of time. Oil should be drawn off or drained into an approved oil storage tank, which would be serviced as required. If a manual valve is used, accumulated oil should be drained on a regular basis, depending upon the amount of incoming effluent. The oil interceptor lid should be removed periodically, and a visual inspection made, for sludge or other accumulations.

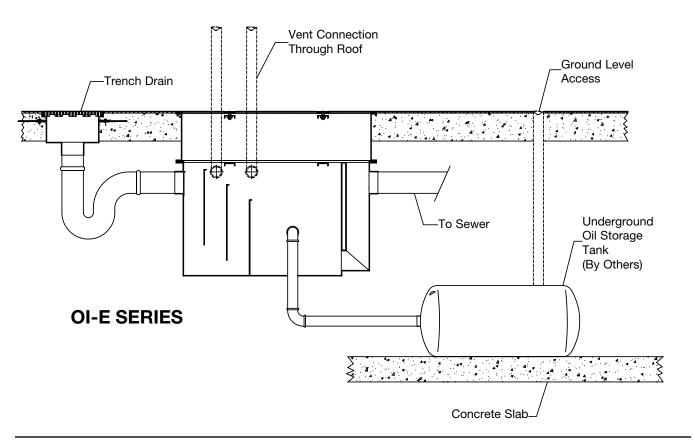


**Note: Watts Oil Interceptors supplied standard with draw-off connection on right side and vent connections on left (when facing inlet).



Typical Oil Interceptor Installations







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.

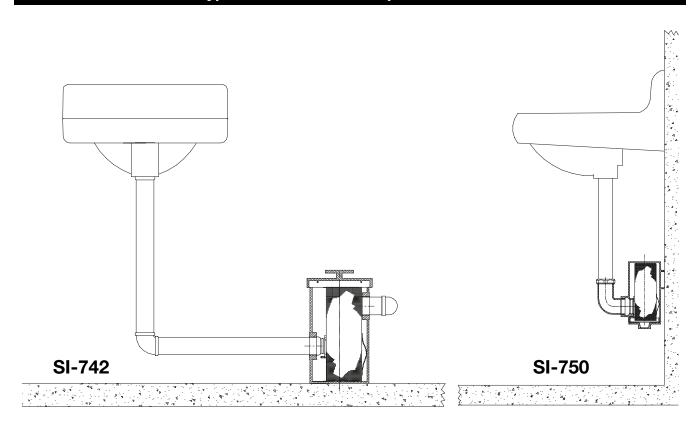
Maintenance & Cleaning

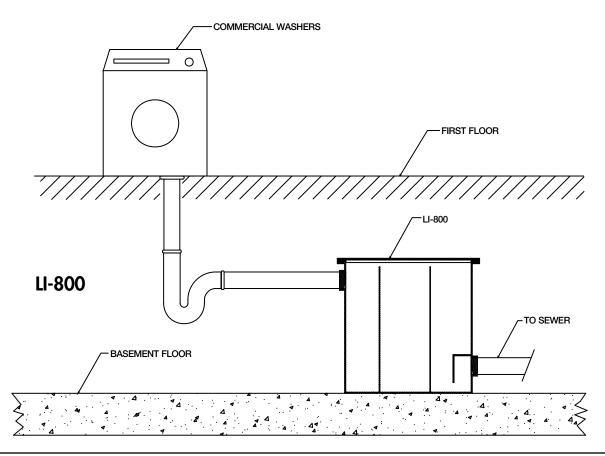
Sediment interceptors must be routinely inspected and cleaned, in order to prevent clogging, and maintain operating efficiency. Maintenance frequency is dependent upon the specific application, and amount of incoming debris.



Interceptors

Typical Sediment Interceptor Installations



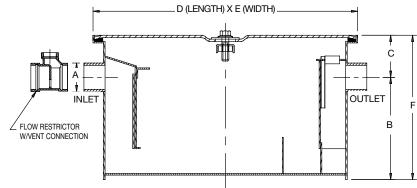




WD Series

PDI Certified Grease Interceptor









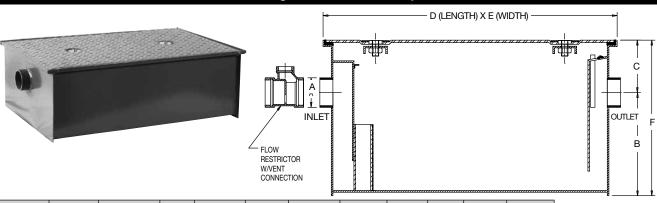




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Interceptor Model Number	EDP#	List Price A.R.E.	-HD 10,000 Lbs. (Traffic Cover) Add	Flow Rate GPM	Grease Capacity Lbs.	A Inlet & Outlet	B Base to Center	C Top to Center	D Length	E Width	F Height	Weight Lbs.
WD-4	8150959	\$3,892.00	\$8,554.00	04	08	2"	7-3/4"	3-1/4"	16"	10"	11"	37.48
WD-7	8150960	5,406.00	9,046.00	07	14	2"	8-1/2"	3-1/2"	18"	13"	12"	54.01
WD-10	8150961	6,349.00	10,052.00	10	20	2"	8-1/2"	3-1/2"	21-3/4"	14"	12"	63.93
WD-15	8150962	9,410.00	11,109.00	15	30	2"	10-1/2"	3-1/2"	22"	15"	14"	74.07
WD-20	8150963	11,509.00	11,636.00	20	40	3"	11-1/2"	3-1/2"	24"	15-3/4"	15"	83.77
WD-25	8150964	12,931.00	12,283.00	25	50	3"	12"	4-1/2"	26"	16-1/2"	16-1/2"	95.90
WD-35	8150965	15,977.00	16,904.00	35	70	3"	14"	5"	30"	18"	19"	123.46
WD-50	8150966	21,153.00	18,547.00	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	\$15,513.00	20	40	3"	7-3/4"	4"	35"	23"	12"	62.10
WD-35-L	8151746	19,971.00	35	70	4"	7"	4-1/2"	41"	33"	12"	93.70
WD-50-L	8100892	33,830.00	50	100	4"	8-1/2"	5-1/2"	55"	33"	14"	130.70

*Note: WD-50-L Not PDI Certified

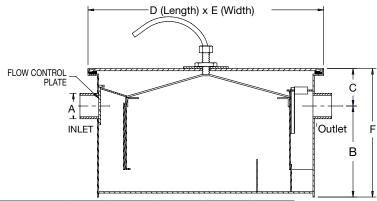
Options	for WD & WD-L Series:				
Suffix	Description	List Price	Suffix	Description	List Price
-AL -B -E -FC	Aluminum Cover Sediment Bucket Extension Up to 12" Extension over 12" add per inch Flange & Clamp Device	\$2,822.00 3,255.00 7,053.00 498.50 2,656.00	-0 -SS -THD	Inlet & Outlet other than Standard Size All Stainless Steel Threaded Connection	\$1,086.00 P.O.A. No Add



WD-A Series

Semi-Automatic Draw-Off Grease Interceptor



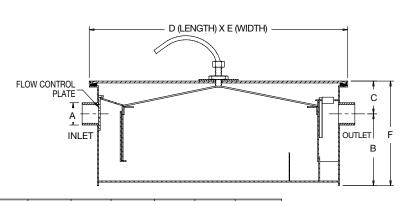


Interceptor Model Number	EDP#	List Price A.R.E.	Flow Rate GPM	Grease Capacity	A Inlet & Outlet	B Base to Center	C Top to Center	D Length	E Width	F Height	Weight Lbs.
WD-7-A	8185874	\$13,810.00	7	14	2"	8-1/2"	3-1/2"	18"	13"	12"	59.01
WD-10-A	8186041	16,334.00	10	20	2"	8-1/2"	3-1/2"	21-3/4"	14"	12"	68.93
WD-15-A	8185878	17,402.00	15	30	2"	10-1/2"	3-1/2"	22"	15"	14"	79.07
WD-20-A	8185818	22,370.00	20	40	3"	11-1/2"	3-1/2"	24"	15-3/4"	15"	88.77
WD-25-A	8185821	25,951.00	25	50	3"	12"	4-1/2"	26"	16-1/2"	16-1/2"	100.90
WD-35-A	8185828	26,620.00	35	70	3"	14"	5"	30"	18"	19"	128.46
WD-50-A	8186078	30,389.00	50	100	4"	16"	5-1/2"	32"	22"	21-1/2"	165.94
WD-75-A	8186016	36,152.00	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	\$25,805.00	20	40	3"	7-3/4"	4"	35"	23"	12"	67.10
WD-25-LA	8188164	27,628.00	25	50	3"	7-1/2"	4-1/2"	38"	28"	12"	N/A
WD-35-LA	8186006	36,373.00	35	70	4"	7"	4-1/2"	41"	33"	12"	98.70

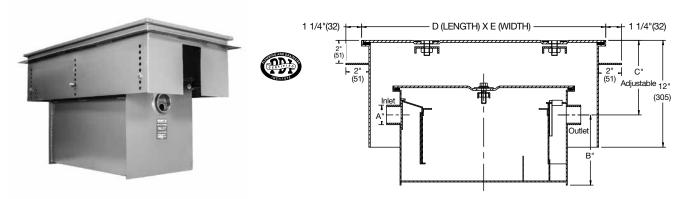
Options for WD-A, WD-LA, WD-AH, WD-H Series:

Suffix	Description	List Price
-0	Inlet & Outlet other than Standared	\$1,086.00
-SS	All Stainless Steel	P.O.A.



WD-H

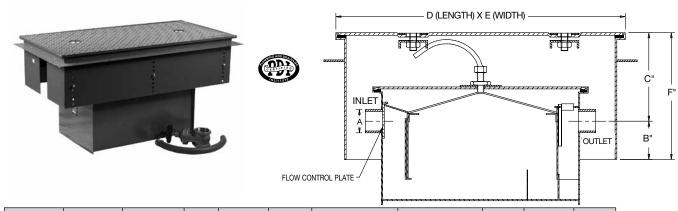
Grease Interceptor with Access Housing



Interceptor Model Number	EDP#	List Price A.R.E.	Flow Rate GPM	Grease Capacity	A Inlet & Outlet	Base Min	B to Center Max.	Top to Min.	C Center Max.	D Length	E Width	F Height
WD-7-H	8187953	\$15,634.00	7	14	2"	٧	5-1/2"	5-1/4"	13-1/4"	35"	18-1/2"	12"
WD-10-H	8188389	17,005.00	10	20	2"	Α	5-1/2"	5-1/4"	13-1/4"	39"	19-1/2"	12"
WD-15-H	8187586	20,822.00	15	30	2"	R	5-1/2"	5-1/4"	13-1/4"	39"	20-1/2"	12"
WD-20-H	8185840	23,658.00	20	40	3"	I	5-1/2"	5-1/4"	13-1/4"	41"	21-1/2"	12"
WD-25-H	8185816	25,394.00	25	50	3"	Α	4-1/2"	6-1/4"	14-1/4"	43"	22"	12"
WD-35-H	8186158	28,991.00	35	70	3"	В	4"	6-3/4"	14-3/4"	47"	23-1/2"	12"
WD-50-H	8185902	40,116.00	50	100	4"	L	3-1/2"	7-1/4"	15-1/4"	49"	27-1/2"	12"
WD-75-H	8188724	51,660.00	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



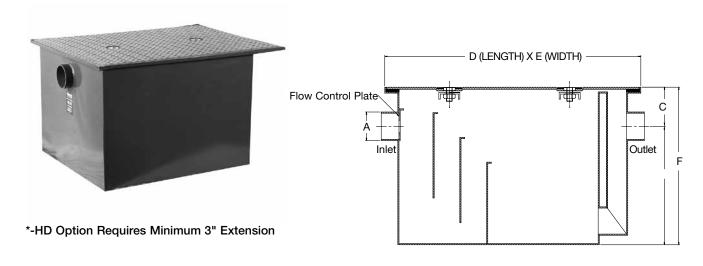
Interceptor Model	EDP#	List Price	Flow Rate	Grease Capacity	A Inlet &		B to Center	C Top to Center	D	E	F
Number		A.R.E.	GPM	Lbs.	Outlet	Min	Max.	Min. Max.	Length	Width	Height
WD-7-AH	8186150	\$24,914.00	7	14	2"	V	5-1/2"	5-1/4" 13-1/4"	35"	18-1/2"	12"
WD-10-AH	8186167	29,226.00	10	20	2"	Α	5-1/2"	5-1/4" 13-1/4"	39"	19-1/2"	12"
WD-15-AH	8186613	31,732.00	15	30	2"	R	5-1/2"	5-1/4" 13-1/4"	39"	20-1/2"	12"
WD-20-AH	8186017	36,934.00	20	40	3"	1	5-1/2"	5-1/4" 13-1/4"	41"	21-1/2"	12"
WD-25-AH	8186040	40,779.00	25	50	3"	Α	4-1/2"	6-1/4" 14-1/4"	43"	22"	12"
WD-35-AH	8185887	42,476.00	35	70	3"	В	4"	6-3/4" 14-3/4"	47"	23-1/2"	12"
WD-50-AH	8185851	46,393.00	50	100	4"	L	3-1/2"	7-1/4" 15-1/4"	49"	27-1/2"	12"
WD-75-AH	8186085	55,593.00	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)



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	\$42,627.00	\$12,313.00	75	150	4"	18-1/2"	4-1/2"	39-3/4"	30-3/4"	23"	264.55
GI-100-K	8141970	47,963.00	16,944.00	100	200	4"	28-1/2"	4-1/2"	39-3/4"	30-3/4"	33"	317.46
GI-150-K	8141976	53,273.00	21,752.00	150	300	4"	38-1/2"	4-1/2"	39-3./4"	30-3/4"	43"	401.24
GI-200-K	8141981	56,406.00	24,810.00	200	400	4"	36-1/2"	6-1/2"	52"	34"	43"	493.83
GI-250-K	8185196	89,945.00	34,246.00	250	500	4"	39-1/2"	6-1/2"	52"	34"	46"	639.33
GI-300-K	8185587	105,782.00	43,867.00	300	600	6"	38"	10"	76"	48"	48"	848.77
GI-400-K	8186246	129,433.00	59,570.00	400	800	6"	42"	10"	83"	55"	52"	959.00
GI-500-K	8185903	153,545.00	80,222.00	500	1000	6"	53"	10"	91"	60"	63"	1289.69



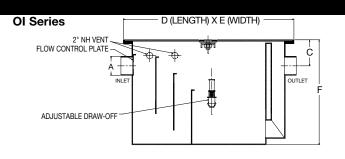
Optio	Options for GI-K Series:												
Suffix	Description	List Price	Suffix	Description	List Price								
AL B E -FC	Aluminum Cover Sediment Bucket Extension Up to 12" Extension Over 12", add per inch Flange & Clamp Device (on extension only)	\$13,958.00 5,914.00 9,402.00 804.70 6,524.00	-0 -SS -THD	Inlet & Outlet Other Than Standard Size All Stainless Steel Threaded Connections	\$1,086.00 P.O.A. No Add								



Oil Interceptors

OI & OI-K Series Oil Interceptors

Interceptor Model Number	EDP#	Flow Rate GPM	List Price	-HD 10,000 (Traffic Cover)* Add
0I-10	8143676	10	\$8,659.00	\$9,194.00
0I-15	8143678	15	11,874.00	9,891.00
01-20	8143680	20	12,590.00	10,470.00
01-25	8143681	25	15,585.00	11,054.00
01-35	8141999	35	18,949.00	12,220.00
01-50	8143684	50	28,228.00	12,800.00

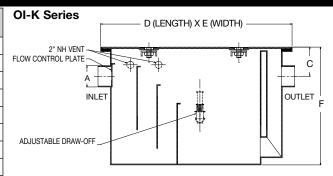


OI Series		Dimensional Data										
Interceptor Model Number	Flow Rate GPM	A	C	D Length	E Width	F Height	G	Н	J	K		
0I-10	10	3"	4"	22-1/4"	16-3/4"	11-1/2"	3-1/2"	11-1/2"	5"	4"		
0I-15	15	3"	4"	22-1/4"	16-3/4"	14-1/2"	5-1/2"	11-1/2"	5"	4"		
01-20	20	3"	4"	27-1/4"	19-1/4"	16-1/2"	6-1/2"	14-1/4"	6"	5"		
01-25	25	3"	4"	27-1/4"	19-1/4"	18-1/4"	9-1/2"	14-1/4"	6"	5"		
01-35	35	4"	4"	33-3/4"	20-3/4"	18"	9-1/2"	18-1/2"	7"	6"		
01-50	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 E -FC	Sediment Bucket Extension Up to 12" Extension Over 12", add per inch Flagge & Clamp Device	\$3,255.00 7,053.00 498.50 2 489.00	-0 -SS -THD	Inlet & Outlet Other Than Standard Size All Stainless Steel Threaded Connections	\$1,086.00 P.O.A. No Add

OI-K Series Dimensional Data

Interceptor Model Number	EDP#	Flow Rate GPM	List Price	-HD 10,000 (Traffic Cover)* Add
0I-75-K	8143685	75	\$44,136.00	\$13,512.00
0I-100-K	8143677	100	59,217.00	18,593.00
0I-150-K	8185201	150	69,366.00	23,879.00
0I-200-K	8185203	200	83,714.00	27,232.00
0I-250-K	8185180	250	96,951.00	37,587.00
0I-300-K	8186165	300	109,775.00	48,253.00
0I-400-K	8186735	400	145,161.00	65,526.00
0I-500-K	8186543	500	183,095.00	80,058.00



Interceptor Model Number	Flow Rate GPM	A	С	D Length	E Width	F Height	G	Н	J	К
0I-75-K	75	4"	4-1/2"	39-3/4"	30-3/4"	23"	9 1/2"(241)	21-3/4"	8"	7"
0I-100-K	100	4"	4-1/2"	39-3/4"	30-3/4"	33"	19 1/2"(495)	21-3/4"	8"	7"
0I-150-K	150	4"	4-1/2"	39-3/4"	30-3/4"	43"	29 1/2"(749)	21-3/4"	8"	7"
0I-200-K	200	4"	6-1/2"	52"	34"	43"	18 1/2"(470)	41"	8"	7"
0I-250-K	250	4"	6-1/2"	52"	34"	46"	30 1/2"(775)	45"	8"	7"
0I-300-K	300	6"	10"	76"	48"	48"	28"(711)	48"	12"	10"
0I-400-K	400	6"	10"	83"	55"	52"	32"(813)	52"	12"	10"
0I-500-K	500	6"	10"	91"	60"	63"	43"(1092)	63"	12"	10"

^{*-}HD Option Requires Minimum 3" Extension

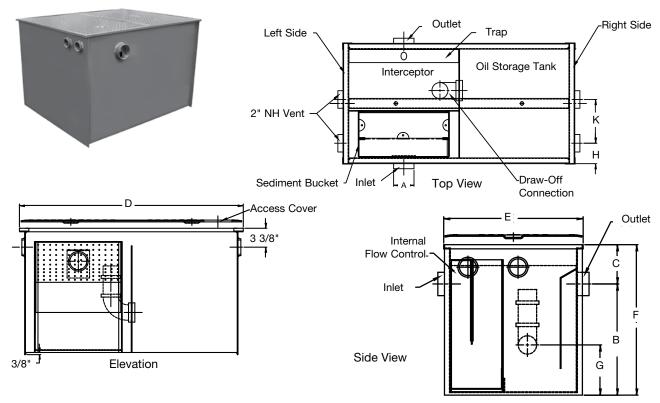
Optio	ns for Ol-K Series:				
Suffix	Description	List Price	Suffix	Description	List Price
B E FC	Sediment Bucket Extension Up to 12" Extension Over 12", add per inch Flange & Clamp Device	\$5,914.00 9,402.00 804.50 7,524.00	-0 -SS -THD	Inlet & Outlet Other Than Standard Size All Stainless Steel Threaded Connections	\$1,086.00 P.O.A. No Add



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	Com- bined Vol- ume Gal.	A Inlet & Outlet	B Base To Center	C Top To Center	D Length	E Width	F Height	G	Н	K	J
0I-10-ST	8188471	\$12,972.00	\$13,963.00	10	15	2"	8-1/2"	6"	24"	18"	14-1/2"	3"	4-1/2"	5-1/2"	6"
0I-15-ST	8189085	17,804.00	14,831.00	15	22	2"	12-1/2"	6"	33-3/4"	20-7/8"	18-1/2"	5	4-1/2"	7-1/2"	9"
0I-20-ST	8188641	21,520.00	15,706.00	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"
0I-25-ST	8188760	23,366.00	15,769.00	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"
0I-35-ST	8188636	28,389.00	17,451.00	35	65	4"	14-1/2"	6"	49-3/4"	32-7/8"	20-1/2"	6"	12"	6"	13"
0I-50-ST	8188581	28,816.00	18,340.00	50	78	4"	18-1/2"	6"	49-3/4"	32-7/8"	24-1/2"	8"	12"	6"	13"
0I-75-ST	8188538	66,204.00	19,281.00	75	214	4"	26-1/2"	6"	49-3/4"	40-7/8"	32-1/2"	16"	12"	12"	13"
0I-100-ST	8188967	71,816.00	26,576.00	100	303	4"	26-1/2"	9-1/2"	90"	58"	36"	20-1/2"	15"	20-1/2"	22-1/2"
0I-150-ST	8189060	88,871.00	34,119.00	150	358	4"	30"	14"	76"	66"	44"	24"	17"	24"	19"
0I-200-ST	8188535	125,537.00	38,967.00	200	453	4"	30-1/2"	17-1/2"	90"	73-1/4"	48"	24-1/2"	18"	25"	22-1/2"
0I-250-ST	8188916	145,423.00	53,664.00	250	590	4"	35-1/2"	15-1/2"	90"	73-1/4"	51"	29-1/2"	18"	25"	22-1/2"
0I-300-ST	8188812	164,769.00	68,931.00	300	816	6"	36-1/2"	15-1/2"	86"	94-7/8"	52"	29-1/2"	23-1/2"	33"	21-1/2"
0I-350-ST	-	193,075.00	79,401.00	350	1068	6"	43-1/2"	16-1/2"	94"	100-7/8"	60"	36-1/2"	24"	35"	23-1/2"
0I-400-ST	8189086	226,187.00	95,698.00	400	1111	6"	43"	17"	91"	107-7/8"	60"	36"	26"	38"	22-3/4"
0I-500-ST	8189024	243,586.00	113,924.00	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 E FC	Extension Up to 12" Extension over 12", add per inch Flange & Clamp Device	\$11,701.00 804.50 7,524.00	-0 -SS -THD	Inlet & Outlet Other Than Standard Size All Stainless Steel Threaded Connections	\$1,086.00 P.O.A. No Add				



Hair, Sediment & Solids Interceptors

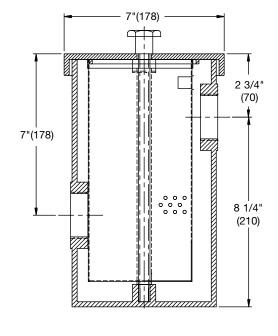
SI-742

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



Opti	Options for SI-742 Series:								
Suffix	Description	List Price							
-X	Cover for Recessed Installation	\$887.00							





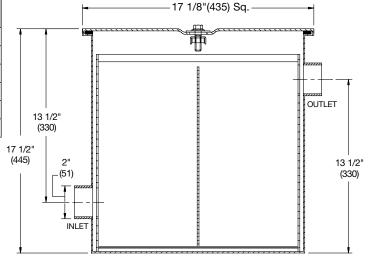
SI-740-L

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						

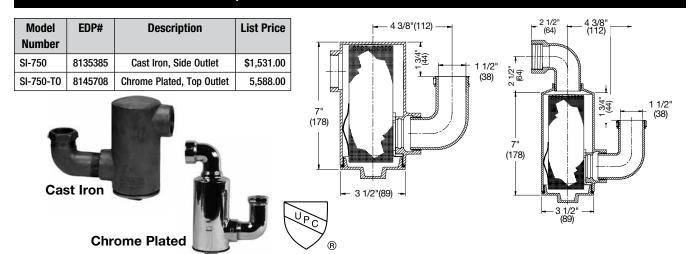






Hair, Sediment & Solids Interceptors

SI-750 & SI-750-TO Hair Interceptor



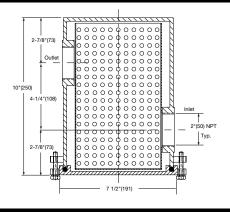
SI-762

Bottom Access Hair, Plaster, & Sediment Intercetor

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



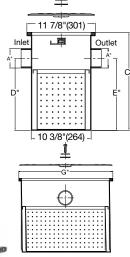




SI-770

Solids Interceptor

Interceptor Model	EDP#	List Price	Inlet/ Outlet	Flow Rate	Solids Cap.				Wt. Lbs.
Number		11100	Size	GPM	Cubic Ft.	C	D/E	G	LD3.
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
	Extension Over 12", add per inch	521.00
-0	Inlet & Outlet Other Than Standard Size	1,135.00
-SS	All Stainless Steel	P.O.A.
-THD	Threaded Connections	No Add



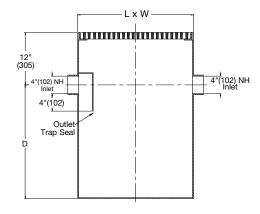




Lint & Sand Interceptors

ST Series Sand Trap

Interceptor Model	EDP#	List Price	Flow Rate	Inlet & Outlet	L	W	D	Capa- city	No. of
Number		11100	- III	Outlot	Length	Width		Gal.	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







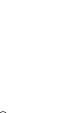
Option	Options for ST Series:								
Suffix	Description	List Price	Suffix	Description	List Price				
-E	Extension Up to 12" Each Additional Inch	\$11,698.00 841.00	-THD -Q	Threaded Connections Special (Describe)	No Add P.O.A.				
-0 -ST	Inlet & Outlet Non-Standard Solid Checker Plate Cover	1,135.00 2,734.00		, , , , , , , , , , , , , , , , , , , ,					

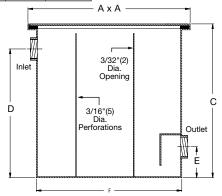
LI-800 Lint Interceptor

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							
List Price							
\$4,191.00							
521.00							
P.O.A.							
1,135.00							
P.O.A.							







Lint & Sand Interceptors

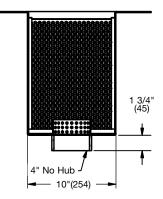
LI-LT Series

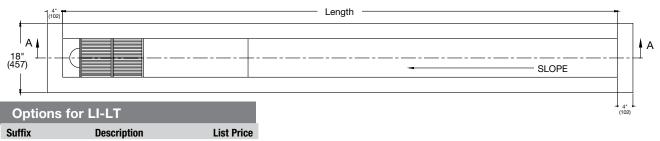
Stainless Steel Lint Trough

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-Li						
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"	130,822.00	24,255.00
SA-610	8153021	600	2500	81	108"	36"	60"	133,881.00	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 Additiona Inch	841.00					
-FC	Flange & Clamp Device	7,866.00					
-0	Inlet & Outlet other than Standard	1,135.00					

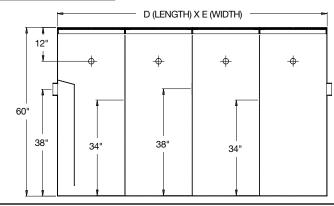




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Pictorial Index



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



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-590 Brass Plug



CO-590-RD
Wall Cleanout with
Brass Plug



CO-600-R Isolation Cleanout



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



Cleanout Selection Factors

Materials

Cast iron epoxy coated*

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

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

Nickel bronze

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

Stainless steel

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

Ductile iron epoxy coated*

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

PVC or ABS

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

Pipe Connections

No hub (standard)

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

Push-on (-P)

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

Inside caulk (-X)

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

PVC (-60) or ABS (-61) socket

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

Threaded (-THD)

Female threaded outlet for connection to IPS threaded pipe.

Load Ratings

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

Light Duty (LD) - Safe live load under 2000 obs.

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

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

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

Special Duty (SD) - Safe live load over 10,000 lbs.

Design Considerations

Cleanout Plugs

Straight thread ANSI gasketed brass plugs are standard in all metal cleanouts. PVC/ABS cleanouts are supplied with a two-piece gasket seal poly plug. All Watts cleanout plugs are gastight, water tight, removable, and hold test.

Finished/Unfinished Areas

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

Fixed/Adjustable Tops

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

Commonly Specified Options

-6 Vandal Proof

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

-13 Galvanized

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

-C Membrane Clamp

Specified in floors with a waterproofing membrane, generally in above grade applications.

-CF Carpet Clamping Flange

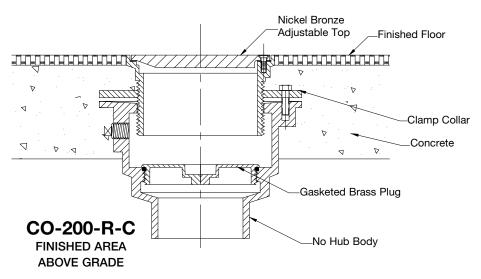
For CO-200-R, securely clamps carpeting to the cleanout cover.

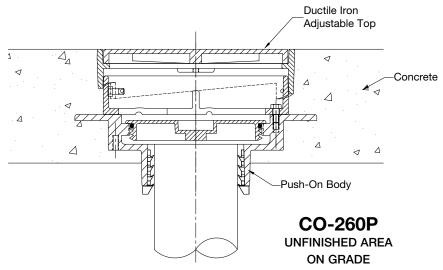
-US Buy American Compliant

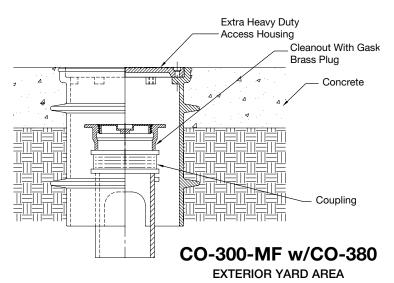
Product will be supplied with minimum 51% domestic content, in compliance with FAR 52.225-9 Buy American Act.



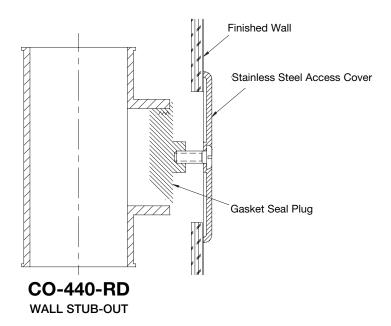
Typical Installations

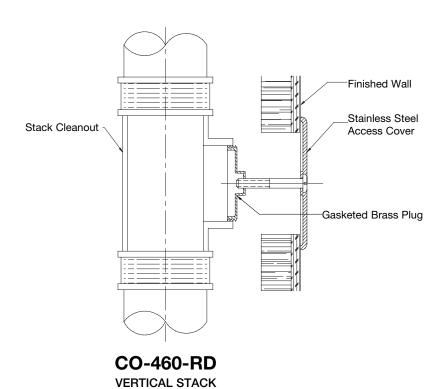






Typical Installations

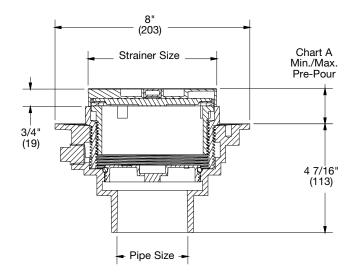




CO-190-PR

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	\$1,498.00
CO-192-PR6	16	2"(51)	6"(152)	nickel bronze	1,540.00
CO-193-PR5	14	3"(76)	5"(127)	nickel bronze	1,540.00
CO-193-PR6	16	3"(76)	6"(152)	nickel bronze	1,617.00
CO-194-PR5	14	4"(102)	5"(127)	nickel bronze	1,703.00
CO-194-PR6	16	4"(102)	6"(152)	nickel bronze	1,781.00
CO-192P-PR5	13	2"(51)	5"(127)	nickel bronze	1,498.00
CO-192P-PR6	15	2"(51)	6"(152)	nickel bronze	1,540.00
CO-193P-PR5	13	3"(76)	5"(127)	nickel bronze	1,540.00
CO-193P-PR6	15	3"(76)	6"(152)	nickel bronze	1,617.00
CO-194P-PR5	13	4"(102)	5"(127)	nickel bronze	1,703.00
CO-194P-PR6	15	4"(102)	6"(152)	nickel bronze	1,781.00







Patent No. USD897503 and Patents Pending

0-1" Adj. Post-Pour	
2 13/64" (56)	Toolson Toolson
(36) _ †	

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					

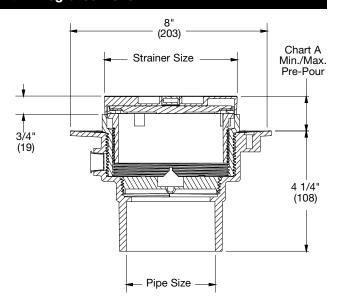
Chart B					
Pipe Size	P Push On				
2"(51)	4 7/16"(113)	4 7/8"(124)			
3"(76)	4 7/16"(113)	4 7/8"(124)			
4"(102)	4 7/16"(113)	4 7/8"(124)			

Options	for CO-190-PR:	
Suffix	Description	List Price
-C	SS Membrane Clamp	\$338.50



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	\$1,013.00
CO-192-PR6-60	6	2"(51)	6"(152)	nickel bronze	1,052.00
CO-193-PR5-60	5	3"(76)	5"(127)	nickel bronze	1,052.00
CO-193-PR6-60	6	3"(76)	6"(152)	nickel bronze	1,133.00
CO-194-PR5-60	5	4"(102)	5"(127)	nickel bronze	1,213.00
CO-194-PR6-60	6	4"(102)	6"(152)	nickel bronze	1,296.00
CO-192N-PR5-60	4	2"(51)	5"(127)	nickel bronze	1,013.00
CO-192N-PR6-60	5	2"(51)	6"(152)	nickel bronze	1,052.00
CO-193N-PR5-60	4	3"(76)	5"(127)	nickel bronze	1,052.00
CO-193N-PR6-60	5	3"(76)	6"(152)	nickel bronze	1,133.00
CO-194N-PR5-60	4	4"(102)	5"(127)	nickel bronze	1,213.00
CO-194N-PR6-60	5	4"(102)	6"(152)	nickel bronze	1,296.00



PATENTED

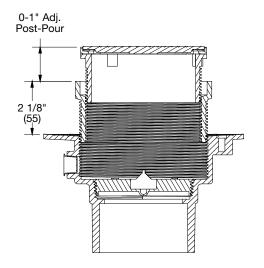


Patent No. USD897503 and Patents Pending

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	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	\$338.50		





CO-200-R

Floor Cleanout with Round Top



Model Number	Wt., Lbs.	Pipe Size	Cover	List Price
CO-202-R	11	2"	nickel bronze	\$1,044.00
CO-203-R	11	3"	nickel bronze	1,103.00
CO-204-R	11	4"	nickel bronze	1,470.00



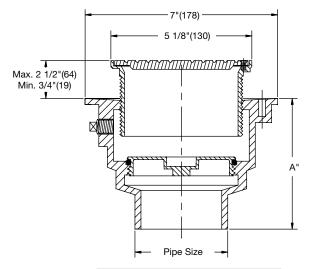


Chart A						
Pipe Size	PVC/ABS					
2"	4-3/4"	5-1/2"	4"			
3"	4-3/4"	5-1/2"	4"			
4"	4-3/4"	5-1/2"	4"			

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	\$1,171.00
CO-203-RC	11	3"	nickel bronze	1,231.00
CO-204-RC	11	4"	nickel bronze	1,600.00



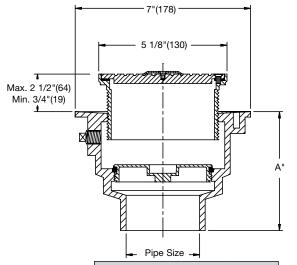


Chart A						
Pipe Size	PVC/ABS					
2"	4-3/4"	5-1/2"	4"			
3"	4-3/4"	5-1/2"	4"			
4"	4-3/4"	5-1/2"	4"			

Option	Options for CO-200:						
Suffix	Description	List Price	Suffix	Description	List Price		
None P -X	No Hub Outlet Push-On Outlet Inside Caulk	No Add No Add No Add	-6 -13 -60	Vandal Proof Galvanized Body PVC Body w/Poly Plug	\$162.00 367.00 No Add		
-C -CF	Membrane Clamp Carpet Clamping Flange	\$180.50 476.00	-61	ABS Body w/Poly Plug	No Add		



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	\$2,808.00
CO-203-RFC7	13	3"	nickel bronze	2,868.00
CO-204-RFC7	13	4"	nickel bronze	3,239.00



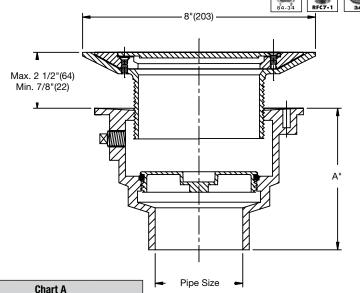


Chart A						
Pipe Size	NH	Push-On	PVC/ABS			
2"	4-3/4"	5-1/2"	4"			
3"	4-3/4"	5-1/2"	4"			
4"	4-3/4"	5-1/2"	4"			

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	\$1,297.00
CO-203-RX	12	3"	nickel bronze	1,362.00
CO-204-RX	12	4"	nickel bronze	1,728.00



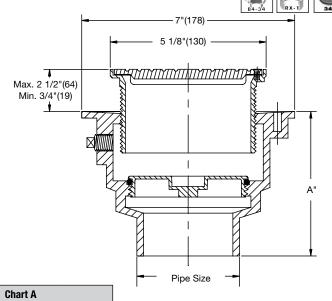


Chart A						
Pipe Size	NH	Push-On	PVC/ABS			
2"	4-3/4"	5-1/2"	4"			
3"	4-3/4"	5-1/2"	4"			
4"	4-3/4"	5-1/2"	4"			

Options	s for CO-200-RFC7/RX:				
Suffix	Description	List Price	Suffix	Description	List Price
None P -X -C	No Hub Outlet Push-On Outlet Inside Caulk Membrane Clamp	No Add No Add No Add \$197.00	-6 -13 -60 -61	Vandal Proof Galvanized Body PVC Body w/Poly Plug ABS Body w/Poly Plug	\$178.50 367.00 No Add No Add

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	\$703.00
CO-203-RX-4	12	3"	ductile iron	814.00
CO-204-RX-4	12	4"	ductile iron	994.50



Options for CO-200-RX-4:					
Suffix	Description	List Price			
-13	All Galvanized	\$407.50			

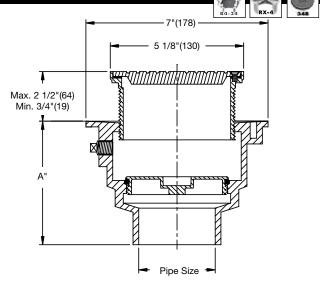
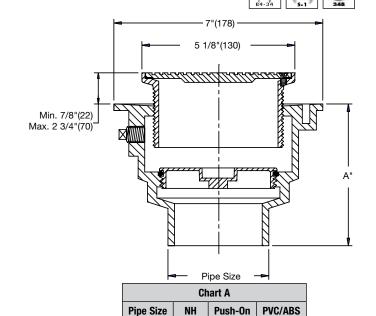


Chart A						
Pipe Size	NH	Push-On	PVC/ABS			
2"	4-3/4"	5-1/2"	4"			
3"	4-3/4"	5-1/2"	4"			
4"	4-3/4"	5-1/2"	4"			

CO-200-S Floor Cleanout with Square Top

Model Number	Wt., Lbs.	Pipe Size	Cover	List Price
CO-202-S	11	2"	nickel bronze	\$1,044.00
CO-203-S	11	3"	nickel bronze	1,103.00
CO-204-S	11	4"	nickel bronze	1,470.00





4-3/4"

4-3/4"

4-3/4"

5-1/2"

4"

3"

Options	for CO-200-RX-4/S:				
Suffix	Description	List Price	Suffix	Description	List Price
None P -X	No Hub Outlet Push-On Outlet Inside Caulk	No Add No Add No Add	-6 -13 -60	Vandal Proof Galvanized Body PVC Body w/Poly Plug	\$162.00 367.00 No Add
-Ĉ	Membrane Clamp	\$180.50	-61	ABS Body w/Poly Plug	No Add



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	\$1,297.00
CO-203-SX	12	3"	nickel bronze	1,362.00
C0-204-SX	12	4"	nickel bronze	1,728.00



	7"(178)	
	5 1/8"(130)	
Max. 2 1/2"(64) Min. 7/8"(22)		
, <u>†</u>		
		A"
	Pipe Size	

Options for CO-200-SX

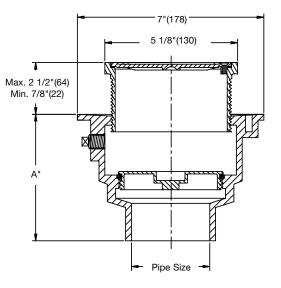
Suffix	Description	List Price
-4	Ductile Iron Top	\$-404.28

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	\$1,044.00
CO-203-T	11	3"	nickel bronze	1,103.00
CO-204-T	11	4"	nickel bronze	1,470.00





Options	for CO-200-SX/T:				
Suffix	Description	List Price	Suffix	Description	List Price
None P -X -C	No Hub Outlet Push-On Outlet Inside Caulk Membrane Clamp	No Add No Add No Add \$180.50	-6 -13 -60 -61	Vandal Proof Galvanized Body PVC Body w/Poly Plug ABS Body w/Poly Plug	\$162.00 367.00 No Add No Add

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	\$1,044.00
CO-203-TS	11	3"	nickel bronze	1,103.00
CO-204-TS	11	4"	nickel bronze	1.470.00



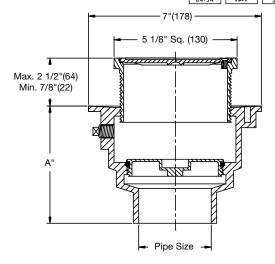
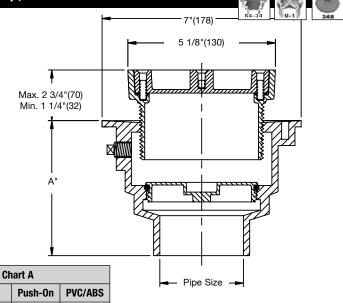


Chart A						
Pipe Size	NH	Push-On	PVC/ABS			
2"	4-3/4"	5-1/2"	4"			
3"	4-3/4"	5-1/2"	4"			
4"	4-3/4"	5-1/2"	4"			

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	\$1,633.00
CO-203-U	12	3"	nickel bronze	1,693.00
CO-204-U	12	4"	nickel bronze	2,059.00





PVC Body w/Poly Plug ABS Body w/Poly Plug

		4"	4-3/4"	5-1/2"	4"		
Options	for CO-200-TS/U:						
uffix	Description	Lis	t Price	Suffix		Description	List Price
one P	No Hub Outlet Push-On Outlet	ı	No Add No Add	-6 -13		Vandal Proof Galvanized Body	\$162.00 367.00

5-1/2"

4"

NH

4-3/4"

No Add

\$180.50

Pipe Size

3"

Inside Caulk

Membrane Clamp

No Add

No Add

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	\$1,633.00
CO-203-US	12	3"	nickel bronze	1,693.00
C0-204-US	12	4"	nickel bronze	2,059.00



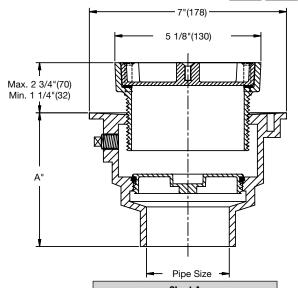


Chart A							
Pipe Size	PVC/ABS						
2"	4-3/4"	5-1/2"	4"				
3"	4-3/4"	5-1/2"	4"				
4"	4-3/4"	5-1/2"	4"				

CO-200-H Floor Cleanout with Elastomeric Flange

Model Number	Wt., Lbs.	Pipe Size	Cover	List Price
CO-202-H	11	2"	nickel bronze	\$2,296.00
СО-203-Н	11	3"	nickel bronze	2,356.00
CO-204-H	11	4"	nickel bronze	2,722.00



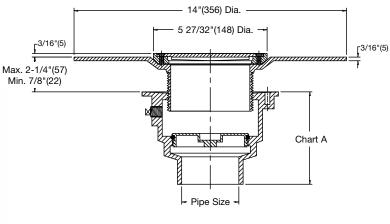


Chart A							
Pipe Size	PVC/ABS						
2"	4-3/4"	5-1/2"	4"				
3"	4-3/4"	5-1/2"	4"				
4"	4-3/4"	5-1/2"	4"				

Options	for CO-200-US/H:				
Suffix	Description	List Price	Suffix	Description	List Price
None P -X -C	No Hub Outlet Push-On Outlet Inside Caulk Membrane Clamp	No Add No Add No Add \$180.50	-6 -13 -60 -61	Vandal Proof Galvanized Body PVC Body w/Poly Plug ABS Body w/Poly Plug	\$162.00 367.00 No Add No Add



CO-260

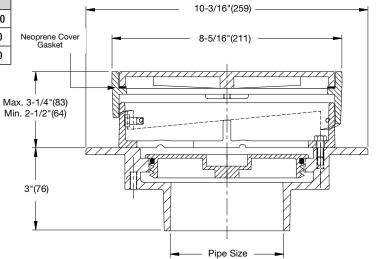
Floor Cleanout with 8" Round Adjustable Top

Model Number	Wt., Lbs.	Pipe Size	Cover	List Price
CO-263, 4, 6, 8	20	3, 4, 6, 8"	ductile iron	\$2,018.00
CO-263, 4, 6, 8-1	20	3, 4, 6, 8"	nickel bronze	2,395.00
CO-263, 4, 6, 8-S-1	20	3, 4, 6, 8"	sq. nickel bronze	2,395.00





Options for CO-260					
Suffix	Description	List Price			
-None	No Hub Outlet	No Add			
Р	Push-On Outlet	No Add			
-X	Inside Caulik (6" only)	No Add			
-3	Round Stainless Steel	\$984.00			
-6	Vandal Proof	162.00			
10	All Colvenized	020 EU			

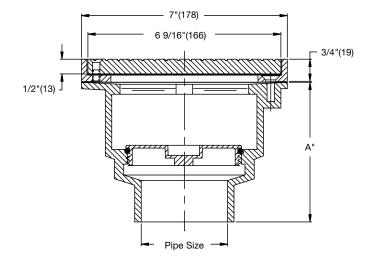


CO-270

Floor Cleanout with Fixed Top

Model Number	Wt., Lbs.	Pipe Size	Cover	List Price
CO-272, 3, 4	12	2, 3, 4"	ductile iron	757.00
CO-272, 3, 4-1	12	2, 3, 4"	nickel bronze	1,073.00





Options for CO-270					
Suffix	Description	List Price			
-None	No Hub Outlet	No Add			
Р	Push-On Outlet	No Add			
-X	Inside Caulik (6" only)	No Add			
-6	Vandal Proof	\$162.00			
-13	All Galvanized	449.50			

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"		



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	\$2,320.00

Note: Use CO-380 cleanout if required.



-	11"(279	9) ———		
	8 3/4"(222	·) ———		
			A	1
			3"(76)	
			5 1/2" (140)	11.5/01
				11 5/8" (295)

Options for CO-300-MF				
Suffix	Description	List Price		
-6	Vandal Proof	\$162.00		
-13	All Galvanized	1,292.00		

CO-600-R Isolation Cleanout

Model Number	Wt., Lbs.	Pipe Size	Cover	List Price
CO-602-R	25	2"(51)	nickel bronze	\$2,917.00
CO-603-R	25	3"(76)	nickel bronze	2,917.00
CO-604-R	26	4"(102)	nickel bronze	2,917.00
CO-606-R	28	6"(152)	nickel bronze	3,123.00



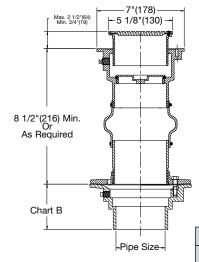


Chart A					
Pipe Size	NH	Push-On	PVC/ABS		
2"	4-3/4"	5-1/2"	4"		
3"	4-3/4"	5-1/2"	4"		
4"	4-3/4"	5-1/2"	4"		

Options	s for CO-600				
Suffix	Description	List Price	Suffix	Description	List Price
None	No Hub Outlet	No Add	-6	Vandal Proof	\$147.00
P	Push-On Outlet	No Add	-13	Galvanized Body	665.50
-X	Inside Caulk	No Add	-60	PVC Body w/Poly Plug	No Add
-C	Membrane Clamp	\$180.50	-61	ABS Body w/Poly Plug	No Add
-CF	Carnet Clamping Flange	476 00		, , ,	



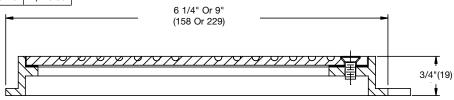
Access Covers

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	\$584.50
CO-300-R9	8100586	10	9"	nickel bronze	1,475.00





Options for CO-300-R Series:

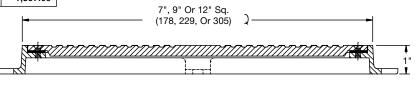
Suffix	Description	List Price
-6	Vandal Proof	\$162.00

CO-300-S

Square Serrated Access Cover

Model Number	EDP#	Wt., Lbs.	Pipe Size	•	
CO-300-S7	8134075	5	7"x7"	nickel bronze	\$1,008.00
CO-300-S8-9	8188398	9	8"x8"	nickel bronze	1,385.00
CO-300-S9	8134081	10	9"x9"	nickel bronze	1,482.00
CO-300-S12	8134067	13	12"x12"	nickel bronze	1,597.00





Options for CO-300-S Series:

Suffix	Description	List Price
-6	Vandal Proof	\$162.00



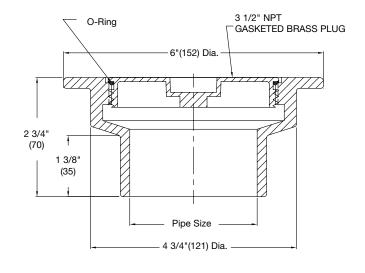
General Purpose Floor Cleanouts

CO-380

Cleanout Ferrule with Brass Plug

Model Number	EDP#	Wt., Lbs.	Pipe Size	List Price
CO-382	8185255	2	2"	\$164.50
CO-383	8185014	4	3"	249.00
CO-384	8185015	5	4"	345.00
CO-386	8185016	8	6"	703.00



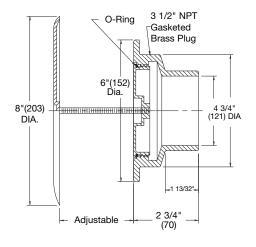


CO-380-RD

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"	\$389.00
CO-383-RD	8186180	5	3"	8"	478.00
CO-384-RD	8186181	6	4"	8"	574.50
CO-386-RD	8186183	9	6"	8"	1,273.00







General Purpose Floor Cleanouts

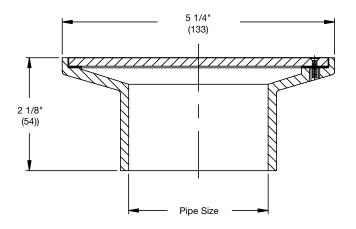
CO-390-E

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	\$357.00
CO-392, 3, 4-E-1	8133713	4	2, 3, 4"	nickel bronze	473.00



Options for CO-390-E:					
Suffix	Description	List Price			
-6	Vandal Proof	\$162.00			
-60	PVC Body w/Socket Outlet	No Add			
-61	ABS Body w/Socket Outlet	No Add			
01	ADO DOUY W/OOCKCI OULICE	NO Auu			



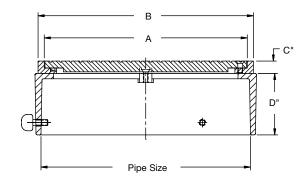
CO-410

Floor Access Housing

Model Number	EDP#	Wt., Lbs.	Pipe Size	Cover	List Price
CO-413, 4	8152171	5	3, 4"	ductile iron	\$707.50
CO-413, 4-1	8152170	5	3, 4"	nickel bronze	932.00
CO-416	8152175	9	6"	ductile iron	970.00
CO-416-1	8152174	9	6"	nickel bronze	1,244.00



Optio	ons for CO-410:	
Suffix	Description	List Price
-6	Vandal Proof	\$162.00



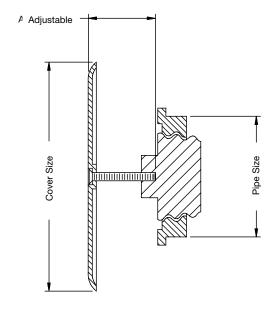
Dimensions in Inches							
Model Number	Pipe Size A B C D						
CO-413	3	5	5-1/4	3/8	2-5/8		
CO-414	4	7	7-1/4	1/2	2-3/4		
CO-416	6	8-3/4	9	1/2	3		

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"	\$309.00
CO-442-RD	8185248	2	2"	5"	325.50
CO-443-RD	8185249	2	3"	7"	398.00
CO-444-RD	8185262	2	4"	7"	525.50



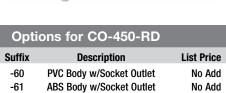


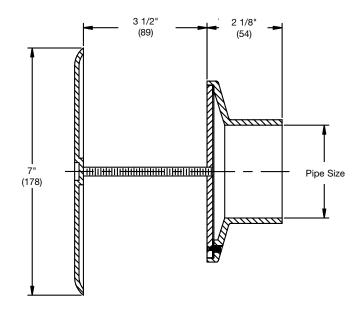
CO-450-RD

Line Cleanout with Stainless Steel Cover

Model Number	EDP#	Wt., Lbs.	Pipe Size	List Price
CO-452-RD	8185219	5	2"	\$398.00
CO-453-RD	8185220	5	3"	490.50
CO-454-RD	8185221	5	4"	578.50









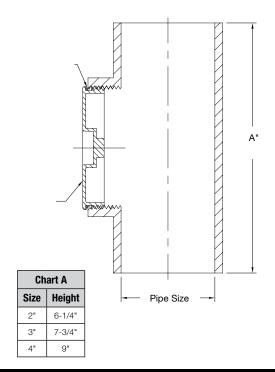
Wall Cleanouts

CO-460

Stack Cleanout with Brass Plug

Model Number	EDP#	Wt., Lbs.	Pipe Size	List Price
CO-462	8134183	8	2"	\$382.50
CO-463	8134190	15	3"	475.00
CO-464	8134196	17	4"	737.00





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	\$609.00
CO-463-RD	8134193	16	3"	stainless steel	697.50
CO-464-RD	8134199	18	4"	stainless steel	1,021.00



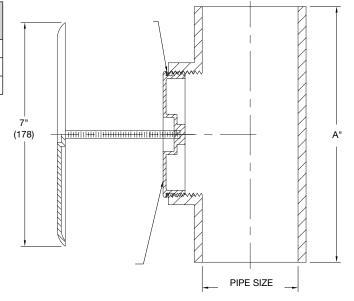


Chart A		
Size	Height	
2"	6-1/4"	
3"	7-3/4"	
4"	9"	

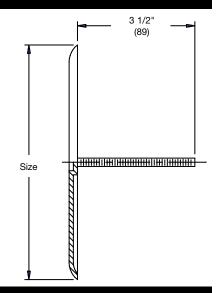


Wall Cleanouts

CO-480-RD Stainless Steel Access Cover with Screw

Model Number	EDP#	Wt., Lbs.	Pipe Size	List Price
CO-480-RD5	8134232	1	5"	\$225.50
CO-480-RD6	8134234	1	6"	225.50
CO-480-RD7	8134236	1	7"	285.00
CO-480-RD8	8134238	1	8"	502.50
CO-480-RD10	8134228	1	10"	793.50

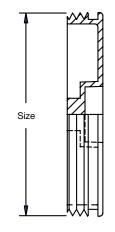




CO-590 Brass Cleanout Plug

Model Number	EDP#	Wt., Lbs.	Size	List Price
CO-591.5	8185019	1/2	1-1/2"	\$78.25
CO-592	8134262	3/4	2"	91.75
CO-593	8134269	1	3"	164.50
CO-594	8134279	1-1/2	4"	281.50
CO-595	8134284	1-1/2	5"	435.00
CO-596	8185020	3	6"	584.50

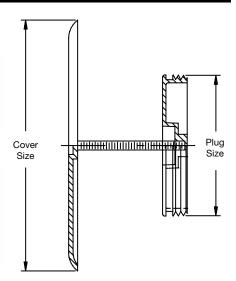




CO-590-RD Wall Cleanout with Brass Plug, Stainless Steel Cover

Model Number	EDP#	Wt., Lbs.	Pipe Size	Cover Size	List Price
CO-591.5-RD	8185225	1	1-1/2"	5"	\$309.00
CO-592-RD	8134264	1-1/4	2"	5"	316.00
CO-593-RD	8134270	1-1/2	3"	7"	389.00
CO-594-RD	8134280	2	4"	7"	514.00
CO-595-RD	8185229	2	5"	8"	716.50
CO-596-Rd	8185230	3-1/2	6"	8"	1,103.00





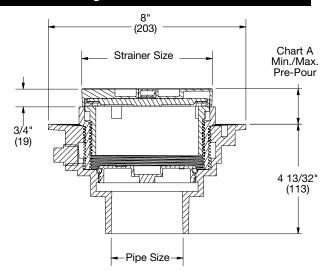


Stainless Steel Top Floor Cleanouts

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	\$1,823.00
CO-1192-PR6	16	2"(51)	6"(152)	stainless steel	1,862.00
CO-1193-PR5	14	3"(76)	5"(127)	stainless steel	1,862.00
CO-1193-PR6	16	3"(76)	6"(152)	stainless steel	1,944.00
CO-1194-PR5	14	4"(102)	5"(127)	stainless steel	2,025.00
CO-1194-PR6	16	4"(102)	6"(152)	stainless steel	1,944.00
CO-1192P-PR5	13	2"(51)	5"(127)	stainless steel	1,823.00
CO-1192P-PR6	15	2"(51)	6"(152)	stainless steel	1,862.00
CO-1193P-PR5	13	3"(76)	5"(127)	stainles steel	1,862.00
CO-1193P-PR6	15	3"(76)	6"(152)	stainless steel	1,862.00
CO-1194P-PR5	13	4"(102)	5"(127)	stainless steel	2,025.00
CO-1194P-PR6	15	4"(102)	6"(152)	stainless steel	2,166.00



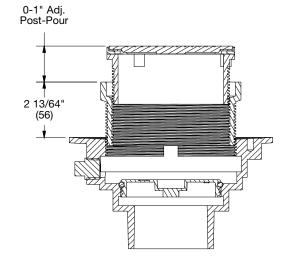


PATENTED

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. 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	\$379.00

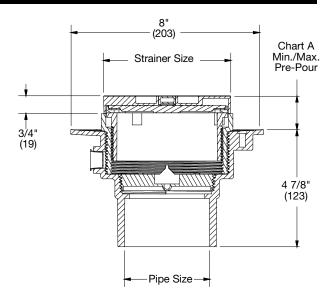


Stainless Steel Top Floor Cleanouts

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	\$1,337.00
CO-1192-PR6-60	6	2"(51)	6"(152)	stainless steel	1,377.00
CO-1193-PR5-60	5	3"(76)	5"(127)	stainless steel	1,377.00
CO-1193-PR6-60	6	3"(76)	6"(152)	stainless steel	1,459.00
CO-1194-PR5-60	5	4"(102)	5"(127)	stainless steel	1,617.00
CO-1194-PR6-60	6	4"(102)	6"(152)	stainless steel	1,617.00
CO-1192N-PR5-60	4	2"(51)	5"(127)	stainless steel	1,337.00
CO-1192N-PR6-60	5	2"(51)	6"(152)	stainless steel	1,377.00
CO-1193N-PR5-60	4	3"(76)	5"(127)	stainless steel	1,377.00
CO-1193N-PR6-60	5	3"(76)	6"(152)	stainless steel	1,459.00
CO-1194N-PR5-60	4	4"(102)	5"(127)	stainless steel	1,617.00
CO-1194N-PR6-60	5	4"(102)	6"(152)	stainless steel	1,694.00





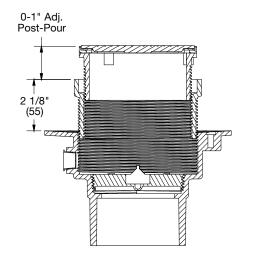
PATENTED

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	\$379.00



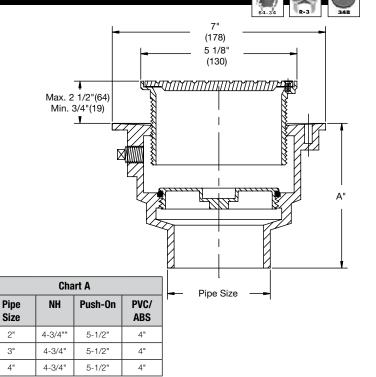


Stainless Steel Top Floor Cleanouts

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	\$1,397.00
CO-1203-R	11	3"	stainless steel	1,458.00
CO-1204-R	11	4"	stainless steel	1,825.00





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	\$1,655.00
CO-1203-RX	12	3"	stainless steel	1,716.00
CO-1204-RX	12	4"	stainless steel	2,082.00



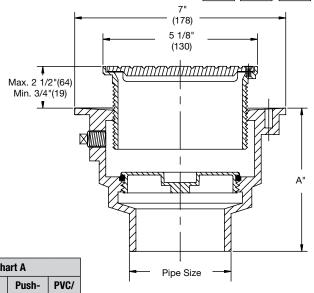


Chart A					
Pipe Size	NH	Push- On	PVC/ ABS		
2"	4-3/4""	5-1/2"	4"		
3"	4-3/4"	5-1/2"	4"		
4"	4-3/4"	5-1/2"	4"		

Options for CO-1200:							
Suffix	Description	List Price	Suffix	Description	List Price		
None P -X -C	No Hub Outlet Push-On Outlet Inside Caulk Membrane Clamp	No Add No Add No Add \$180.50	-6 -13 -28 -60 -61	Vandal Proof Galvanized Body 304 SS Body & Plug PVC Body w/Poly Plug ABS Body & Poly Plug	\$162.00 367.00 1,526.00 No Add No Add		

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	\$1,397.00
CO-1203-S	11	3"	stainless steel	1,458.00
CO-1204-S	11	4"	stainless steel	1,825.00



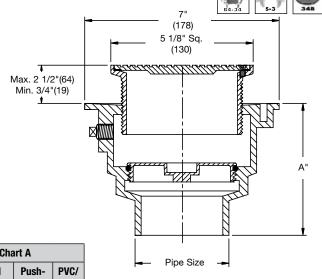


Chart A						
Pipe Size	NH	Push- On	PVC/ ABS			
2"	4-3/4""	5-1/2"	4"			
3"	4-3/4"	5-1/2"	4"			
4"	4-3/4"	5-1/2"	4"			

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	\$1,655.00
CO-1203-SX	12	3"	stainless steel	1,716.00
CO-1204-SX	12	4"	stainless steel	2,082.00



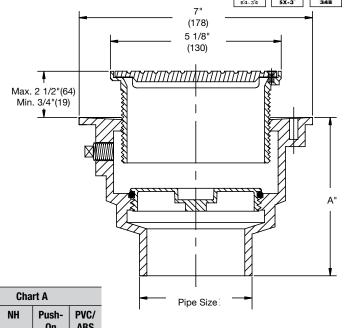
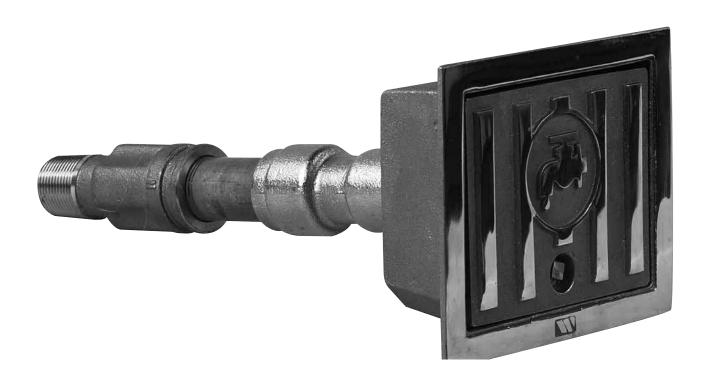


Chart A						
Pipe Size	NH	Push- On	PVC/ ABS			
2"	4-3/4""	5-1/2"	4"			
3"	4-3/4"	5-1/2"	4"			
4"	4-3/4"	5-1/2"	4"			

Options	Options for CO-1200							
Suffix	Description	List Price	Suffix	Description	List Price			
None P -X -C	No Hub Outlet Push-On Outlet Inside Caulk Membrane Clamp	No Add No Add No Add \$180.50	-6 -13 -28 -60 -61	Vandal Proof Galvanized Body 304 SS Body & Plug PVC Body w/Poly Plug ABS Body & Poly Plug	\$162.00 367.00 1,526.00 No Add No Add			

Table Of Contents

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





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-700 Dual-Temp



HY-800 Non-Freeze Yard Hydrant



HY-900 Non-Freeze Roof Hydrant



FS-890 Water Supply Control Box



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.

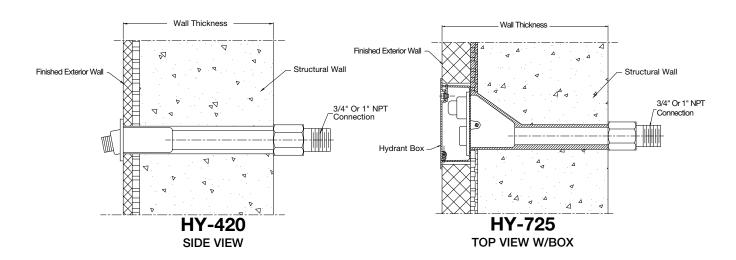
Non-freeze (frost-proof)

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

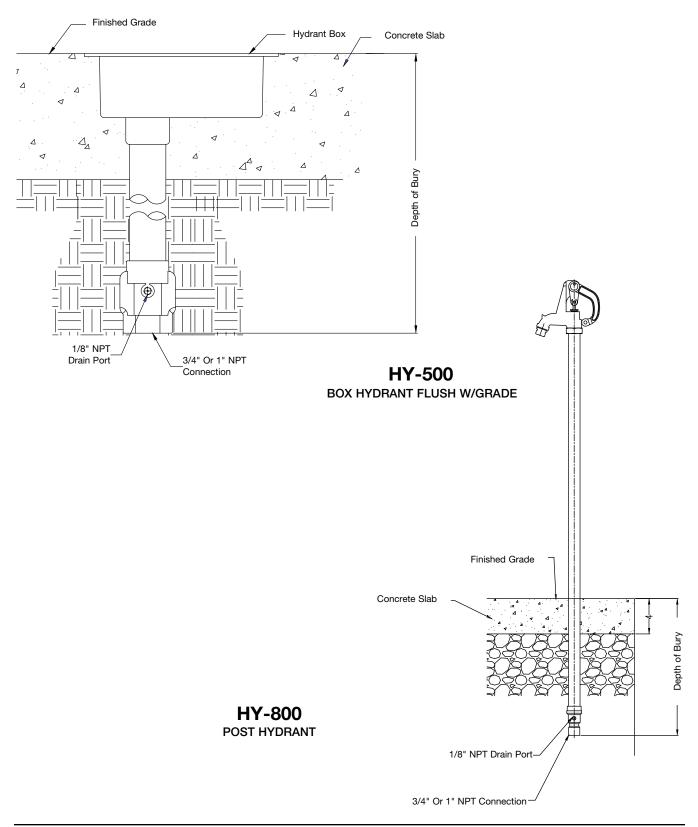
Operating range

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



Typical Installations



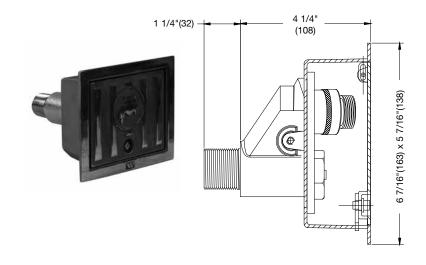
Wall Hydrants

HY-330

Moderate Climate Wall Hydrant with NB Box, Integral Vacuum Breaker

Model Number	Hose Conn.	List Price
HY-330	3/4"	\$2,292.00

EDP#	Description	List Price
8142413	HY-400-PVB Vacuum Breaker	\$465.00
8142272	HY-430-CIA Repair Kit	\$829.50

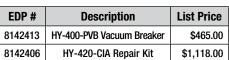


Options for HY-330					
Suffix	Description	List Price			
-K	Cylinder Lock	\$321.50			
-3	Stainless Steel Box	No Add			

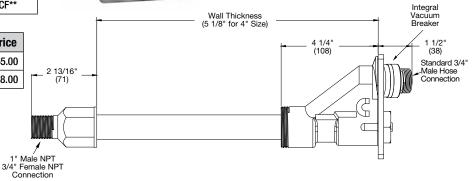
HY-420

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

Model Number	Wt. Lbs.	Wall Thickness	List Price
HY-420-4, 6, 8	5	4, 6, 8"	\$CF**
HY-420-10, 12, 14	6	10, 12, 14"	CF**
HY-420-16, 18	7	16, 18"	CF**
HY-420-20, 22, 24	8	20, 22, 24"	CF**







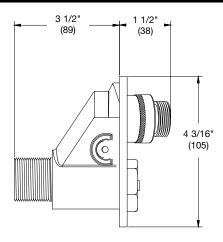
HY-430

Moderate Climate Wall Hydrant with Chrome Face, Integral Vacuum Breaker

Model Number	Hose Conn.	List Price
HY-430	3/4"	\$1,132.00

EDP#	Description	List Price
8142413	HY-400-PVB Vacuum Breaker	\$465.00
8142272	HY-430-CIA Repair Kit	\$829.50







Wall Hydrants

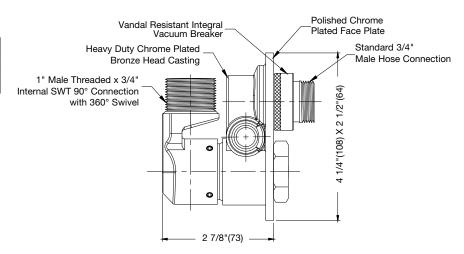
HY-440

Moderate Climate Narrow Wall Hydrant

Model Number	EDP#	Hose Conn.	List Price
HY-440	8187868	3/4"	\$1,132.00

EDP#	Description	List Price
8142413	HY-400-PVB Vacuum Breaker	\$465.00
8188776	HY-440-CIA Repair Kit	\$829.50



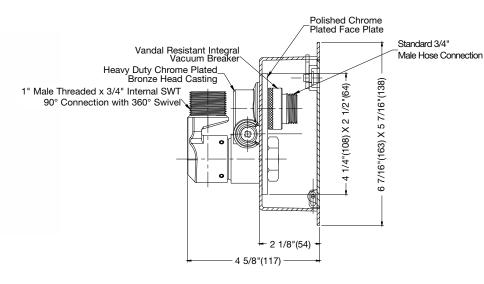


HY-450

Moderate Climate Narrow Wall Hydrant w/NB Box

Model Number	Hose Conn.	List Price
HY-450	3/4"	\$2,292.00





Options for HY-450

Suffix	Description	List Price
-K	Cylinder Lock	\$321.50
-R	Round Box For Tilt-Up Construction (Stainless	Steel Only) No Add
-3	Stainless Steel Box	No Add



Ground Hydrants

HY-500

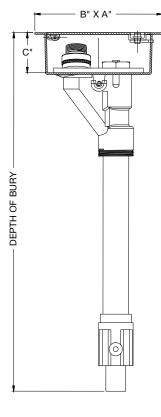
Non-Freeze Deck Hydrant with NB Box

Model Number	Depth	Wt. Lbs.	3/4" Conn.	1" Conn.	1-1/4" Conn.	1-1/2" Conn.	2" Conn.
HY-502	2'	10	\$3,425.00	\$4,122.00	\$14,529.00	\$15,953.00	\$18,619.00
HY-503	3'	14	3,691.00	4,394.00	15,012.00	16,558.00	19,411.00
HY-504	4'	18	3,960.00	4,661.00	15,497.00	17,164.00	20,208.00
HY-505	5'	22	4,229.00	4,930.00	15,983.00	17,766.00	21,004.00
HY-506	6'	26	4,496.00	5,194.00	16,464.00	18,380.00	21,802.00
HY-508	8'	30	5,032.00	5,733.00	17,433.00	19,592.00	23,392.00

EDP#	Description	List Price
8142413	HY-400-PVB Vacuum Breaker	\$465.00
8188774	HY-500-RK (Repair Kit)	\$1,052.00

Conn. Size	Α	В	С
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





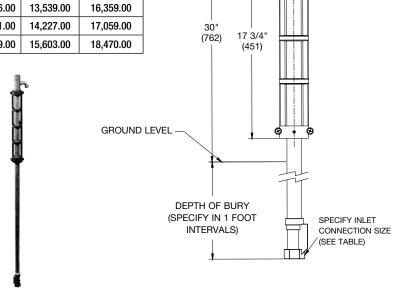
Note: Vacuum Breaker STD on 3/4"- 1"

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'	\$3,428.00	\$4,637.00	\$8,227.00	\$11,461.00	\$14,245.00
HY-600-3	8142550	3'	3,714.00	4,930.00	9,070.00	12,155.00	14,955.00
HY-600-4	8142558	4'	4,003.00	5,220.00	9,916.00	12,846.00	15,654.00
HY-600-5	8142565	5'	4,296.00	5,510.00	10,766.00	13,539.00	16,359.00
HY-600-6	8142574	6'	4,589.00	5,802.00	11,611.00	14,227.00	17,059.00
HY-600-8	8142588	8'	5,163.00	6,377.00	13,309.00	15,603.00	18,470.00

EDP#	Description	List Price
8154686	HY-600-CIA Repair Kit	\$1,672.00





Wall Hydrants

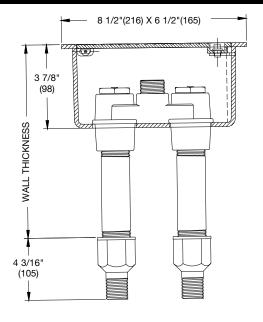
HY-700

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"	\$6,564.00
HY-700-16, 18	8185525	19	16, 18"	3/4"	7,336.00



Options for HY-700					
Suffix	Description	List Price			
-K	Cylinder Lock	\$321.50			
-LB	Less Box	-1,550.85			
VR	Vacuum Breaker	236 50			

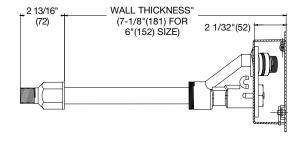


HY-725

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"	\$2,630.00
HY-725-10, 12, 14	8	10, 12, 14"	3/4"	2,870.00
HY-725-16, 18	9	16, 18"	3/4"	3,107.00
HY-725-20, 22, 24	10	20, 22, 24	3/4"	3,188.00





STANDARD FINISH IS POLISHED NICKEL BRONZE

Options for HY-725					
Suffix	Description	List Price			
-K	Cylinder Lock	\$321.50			
-R	Round Box For Tilt-Up Construction (Stainless Steel Only)	No Add			
-3	Stainless Steel Box	No Add			
-88	Wall Clamp	No Add			



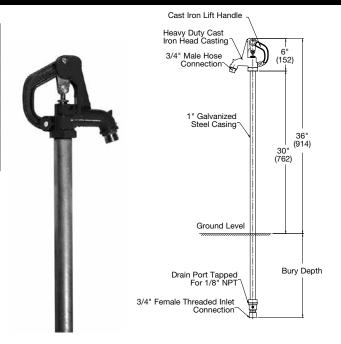
Yard Hydrants

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"	\$1,871.00
HY-800-2	8187658	15	2'	3/4"	1,976.00
HY-800-3	8187659	19	3'	3/4"	2,081.00
HY-800-4	8187660	23	4'	3/4"	2,194.00
HY-800-5	8187661	27	5'	3/4"	2,292.00
HY-800-6	8187662	31	6'	3/4"	2,398.00

EDP#	Description	List Price
8188777	HY-800/900 Repair Kit	\$829.50



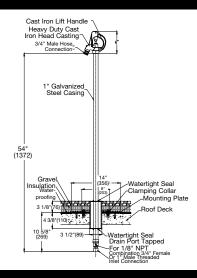
HY-900

Non-Freeze Roof Hydrant

Model	EDP#	Wt.	Hose	List
Number		Lbs.	Conn.	Price
HY-900	8188208	28	3/4"	\$5,365.00

EDP#	Description	List Price
8188777	HY-800/900 Repair Kit	\$829.50

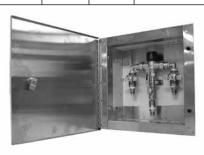




FS-890

Water Supply Control Box

Model Number	EDP#	Weight (lbs.)	Material	List Price
FS-890	8100741	15	stainless steel	\$9,056.00



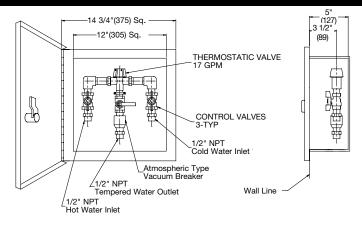




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LF15M2-DR Series Copper Water Hammer Arrestor



SS Series Stainless Steel Water Hammer Arrestor



BV-200 Cast Iron In-Line **Backwater Valve**



BV-240 In-Line Backwater Valve With Access Housing



BV-300 Ball Float Backwater Valve



BV-600 Pit Drain With Backwater Valve



LFTP300-DR **Trap Primer & Distribution** Unit



MS-930 Trap Primer Adaptor



MS-940-SS Stainless Steel Trap **Primer Adaptor**



MS-950 Funnel Trap Adaptor



MS-8000 Fresh Air Inlet



PS-Series Plastic Pipe Sleeves

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).

<u>Note:</u> 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 Unit Weight				
Fixture	Type Of Supply	Pub	olic	Priv	vate	
	Control	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	

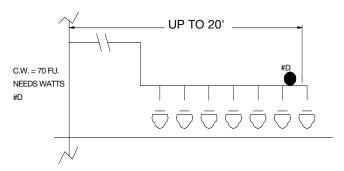


Water Hammer Arrestors

Sizing & Placement

Table 2						
Fixture Unit Weight	1-11	12-32	33-60	61-113	114-154	155-330
PDI Symbol	Α	В	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		Nominal Pipe Size					
of Pipe	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	
25'	Α	Α	В	С	D	Е	
50'	Α	С	С	D	E	F	
75'	В	С	D	A + E	F	E+F	
100'	С	D	Е	F	C + F	2-F	
125'	С	D	F	A + F	E+F	E + 2-F	
150'	D	E	F	D + F	2-F	3-F	



C.W. = 52 FU.
NEEDS TWO
WATTS B UNITS

H.W. = 12 FU.
NEEDS TWO
WATTS A UNITS

Figure A

Figure B

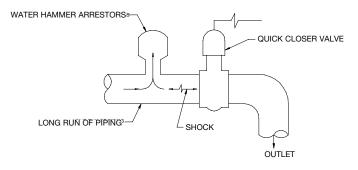


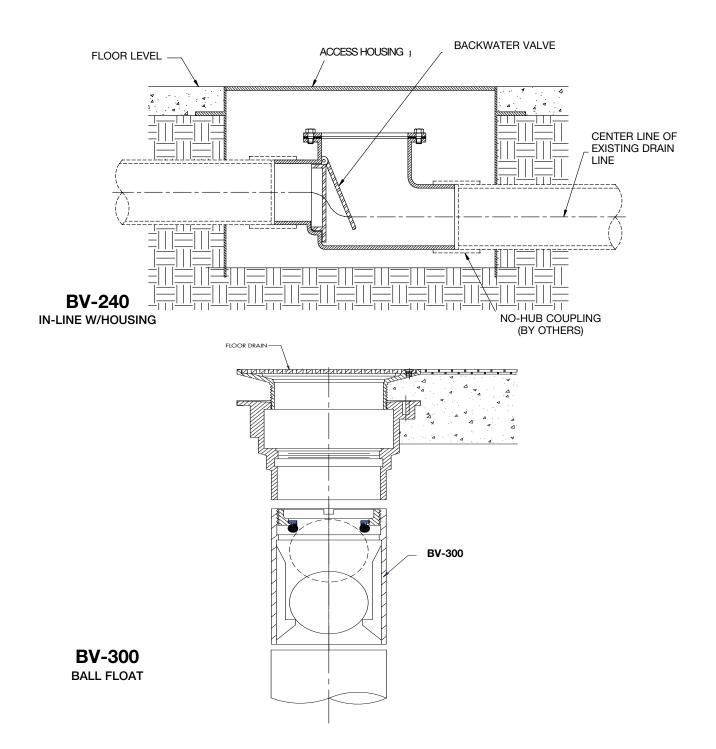
Figure C

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



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

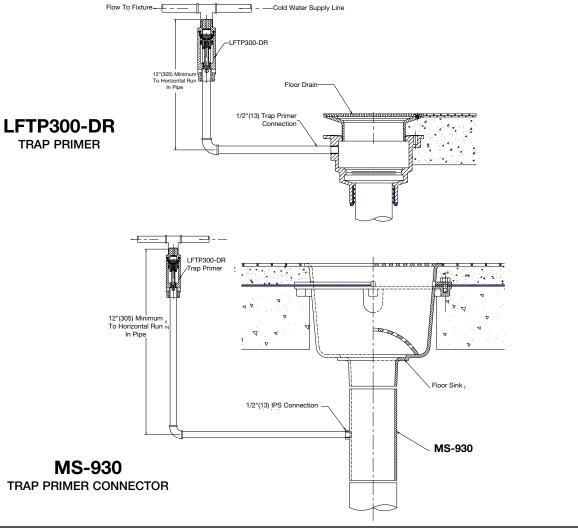
INLET PRESSU	50	75	100	125	
*GPM	1.1	1.6	2.0	2.3	2.4
*LPM	4.2	6.1	7.6	8.7	9.1

^{*} 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





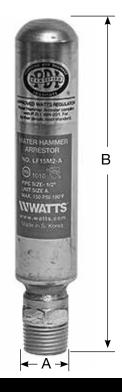
Water Hammer Arrestors

LF15M2-DR Series Copper Water Hammer Arrestors

Model Number	EDP#	PDI Size	List Price
LF15M2-A-DR	8188366	Α	\$300.00
LF15M2-B-DR	8188367	В	572.00
LF15M2-C-DR	8188368	С	900.00
LF15M2-D-DR	8188369	D	1,902.00
LF15M2-E-DR	8188370	E	2,365.00
LF15M2-F-DR	8188371	F	2,813.00



Technical Data							
Model No.	Connection Threaded	Dimensions				PDI Size	Fixture Units
		A B					
		ln.	ММ	ln.	MM		
LF15M2-A-DR	1/2"	1 1/8"	28.5	5 15/16"	150.9	Α	1-11
LF15M2-B-DR	3/4"	1 3/8"	34.9	8 9/16"	218.0	В	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



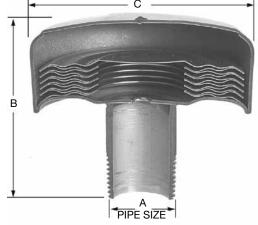
SS Series

Stainless Steel Shock Arrestors

Model Number	EDP#	PDI SIZE.	Conn. Size	Height	List Price
SS-AA	8201139	Α	3/4"	3 1/4"	\$934.00
SS-BB	8201140	В	1"	4 1/4"	1,903.00
SS-CC	8201141	С	1"	5 3/4"	2,842.00
SS-DD	8201142	D	1"	6 1/2"	7,112.00
SS-EE	8201143	E	1"	6 3/4"	8,030.00



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	Α	В	С	D	E	F	



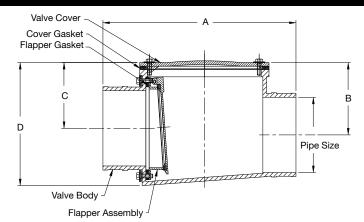
Backwater Valves

BV-200

Cast Iron In-Line Backwater Valve

Model Number	EDP#	Wt. Lbs.	Size	List Price
BV-203	8132724	16	3"	\$3,459.00
BV-204	8132727	22	4"	4,253.00
BV-206	8132731	30	6"	6,104.00





Pipe Size	A	В	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"	\$7,440.00
BV-244	22	4"	8,238.00
BV-246	30	6"	10,086.00

Note: Epoxy-coated Steel Access Housing

20" (Length) x 16" (Width) Finished Floor	
Specify Center Line Of Existing D 3" 4" 8" No-Hub Coupling 3 (By Others)	rain Line

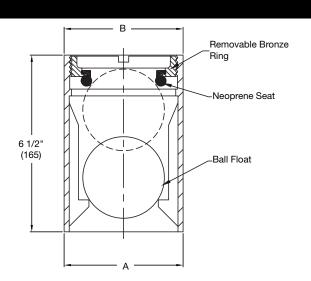
Options for BV-240				
Suffix	Description	List Price		
-HD	Heavy Duty Traffic Cover	\$8,773.00		

BV-300

Ball Float Backwater Valve

Model Number	EDP#	Wt. Lbs.	Size	List Price
BV-302	8187804	5	3"x2"	\$643.00
BV-303	8187805	5	3"	643.00
BV-304	8187806	5	4"	643.00

Size	A	В
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)





Backwater Valves/Trap Primers

BV-600

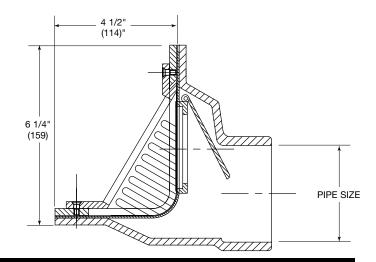
Pit Drain with Backwater Valve

Model	Wt.	Size	List
Number	Lbs.		Price
BV-602,3,4	40	2,3,4"	\$3,115.00



Options for BV-600

Suffix	Description	List Price
-1	Nickel Bronze Grate & Frame	\$1,470.00
-6	Vandal Proof Grate	251.00



LFTP300-DR

Trap Primer & Distribution Unit

Model Number	EDP#	Wt. Lbs.	Size	List Price
LFTP300T-DR	8188354	1	1/2"	\$459.00
LFTP300S-DR	8188353	1	1/2"	459.00
LFTP300-DU-DR	8188355	1	1/2"	323.00





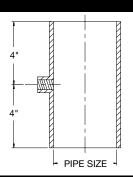


Miscellaneous Specialties

MS-930 **Trap Primer Adaptor**

Model Number	EDP#	Size	Material	List Price
MS-932, 3, 4	8143303	2, 3, 4"	cast iron	\$327.50



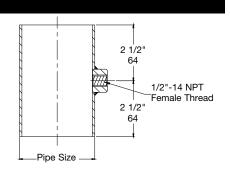


MS-940-SS

Stainless Steel Trap Primer Adaptor

Model Number	EDP#	Size	Material	List Price
MS-942, 3, 4	8189052	2, 3, 4"	stainless steel	\$617.00







Miscellaneous Specialties

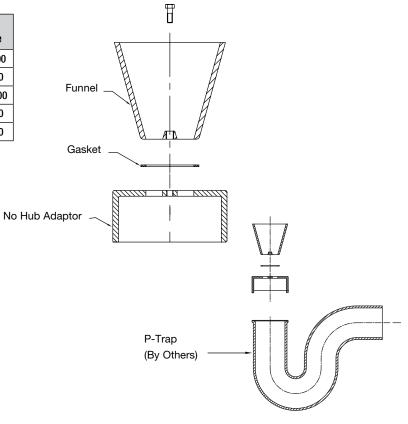
MS-950

Funnel/Trap Adaptor

Model Number	Size	Funnel	List Price
MS-952,3-F4-50	2, 3,"	4" Cast Iron	\$500.00
MS-952,3-F4-1	2, 3"	4" Nickel Bronze	921.00
MS-952,3-F6-1	2, 3"	6" Nickel Bronze	1,257.00
MS-952,3-G-50	2, 3"	4x9" Cast Iron	913.00
MS-952,3-G-1	2, 3"	4x9" Nickel Bronze	913.00



Opti	ons for MS-950:	
Suffix	Description	List Price
-8	Ball Flat Backwater Valve	\$642.50



Typical Installation

MS-8000

Fresh Air Inlet

Model Number	EDP#	Size	Material	Wt., Lbs.	List Price
MS-8034	8186273	3" to 4"	Nickel Bronze	3	\$1,028.00
MS-8056	8186274	5" to 6"	Nickel Bronze	4	1,767.00



PS Series

Plastic Pipe Sleeves

Model Number	EDP#	Size	Taper Degree	Carton Qty.	List Price
PS-0151	8143770	1-1/2"	3	336	\$17.50
PS-021	8143771	2"	3	280	21.00
PS-033	8143773	3"	3	168	23.50
PS-043	8143775	4"	3	96	33.75
PS-053	8143777	5"	3	72	36.25
PS-063	8143779	6"	3	40	42.75
PS-083	8143780	8"	3	n/a	71.00
PS-101	8143781	10"	3	n/a	92.25
PS-121	8143782	12"	3	n/a	149.50

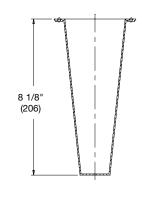






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Wall Hung Fixture Carriers
 Lavatory Carriers
 Urinal & Water Cooler Carriers
 Service Sink Carriers





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 - QuickTum™



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 - QuickTum™



QT-101-D-TAS Back-to-Back Horiz. for 4" Back-to-Back Horiz. for 4" Rough-In Compression Seal Rough-In QickTurn™



ISCA-121 Single Vertical Compression Seal



QT-121 Single Vertical QuickTurn™





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



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



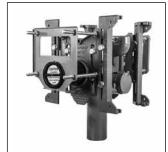
ISCA-131 Single Vertical w/Side Inlet(s) Compression Seal



QT-131Single Vertical w/Side Inlet(s)
QuickTurn™



ISCA-131-D
Back-to-Back Vertical w/Side
Inlet(s) - Compression Seal



QT-131-DBack-to-Back Vertical w/Side Inlet(s) - QuickTurn™



ISCA-141 Single Thin Wall Vertical Compression Seal



QT-141Single Thin Wall Vertical QuickTurn™



ISCA-141-4-D Back-to-Back Thin Wall Vertical - Compression Seal



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



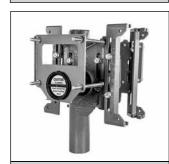
ISCA-151-L/R Single Offset Thin Wall Vertical Compression Seal



QT-151-L/R Single Offset Thin Wall Vertical QuickTurn™



ISCA-151-D
Back-to-Back Offset Thin Wall
Vertical - Compression Seal



QT-151-DBack-to-Back Offset Thin Wall Vertical - QuickTurn™



QT-161-L/RSingle Thin Wall Horizontal
QuickTurn™

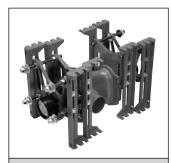




ISCA-102-L/R 1000 lb. Single Horizontal Compression Seal



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) - QuickTum™



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™





ISCA-123 750 lb. Single Vertical Compression Seal



QT-123 750 lb. Single Verrtical 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-EXTWater Closet Auxiliary Support
Compression Seal



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

Prices do not include applicable taxes.



Pictorial Index

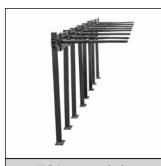


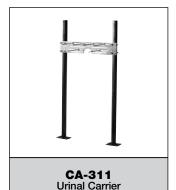






Back-to-Back Concealed Arm







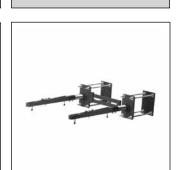
Urinal Carrier w/Bearing Plate



TCA-411-2/3/4 Extended Concealed Arm "Track" Lavatory Carrier







Exposed Arm Lavatory Carrier

CA-421 Plate Type Lavatory/Water Cooler Carrier



TCA-440/TCA-450 Wall Mounted Concealed Arm "Track" Lavatory Carrier

CA-461 Wall Mounted Concealed Arm Lavatory Carrier











3-Bolt Service Sink Carrier

ISCA-560 4-Bolt Service Sink Carrier



Lavatory Carrier



TCA-411-WLAFM Concealed Arm Lavatory
Carrier w/Waste Line Access



WCA-411-WLAFM 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

Recommendations

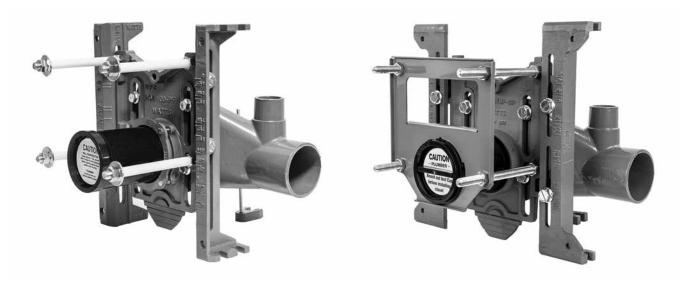
Application	Product
Water closet standard 500 lb	ISCA/QT-101, ISCA/QT-121, ISCA/QT-131 Series
Water closet 750 lb	
Water closet bariatric 1000 lb	ISCA/QT-102, ISCA/QT-122, ISCA/QT-132 Series
Water closet/urinal back-to-back	· · · · · · · · · · · · · · · · · · ·
Water closet thin wall horizontal	. QT-161 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	
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 mechaical 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 specifially for pre-fabrication, QT Carriers promote pre-fab assembly speed and jobsite reliability.



Industry Standard Compression Seal Carrier

QT QuickTurn™ Carrier

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

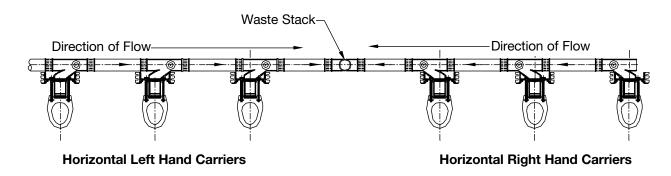
Closet carriers are often installed in groups (batteries) to accommodate multiple fixture and back-to-back bathroom groups. These factors should be considered in the specification of carrier batteries:

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.

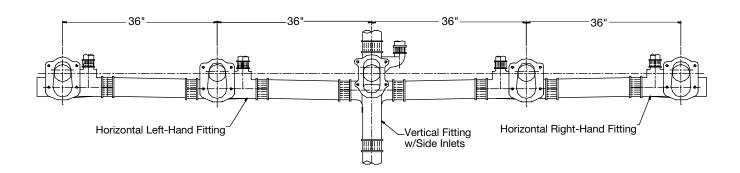
2. Horizontal carrier direction

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





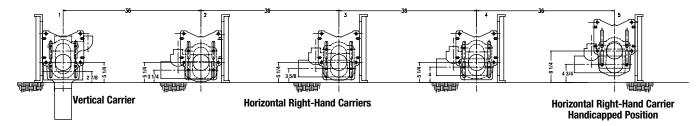
Recommendations

Carrier Selection & Battery Set-Up

4.) Battery pitch & rough-in requirements

Standard bowl installations are typically 15" from the floor to the rim of the bowl, and "Physically Handicapped" (ANSI A112.19.2) installations 18" to the rim of the bowl. Assuming standard rough-in specifications of 1/8" pitch on the horizontal waste line, and 36" between fixtures, batteries can typically be constructed with up to 9 fixtures, provided a stack fitting is used in the center position. Handicapped fixtures can be incorporated into the batteries, and should be placed at the high end of the fixture run. The table below indicates minimum and maximum horizontal waste line positions, dependent upon the specified rough-in height of the bowl outlet.

C/Bowl Outlet From Floor	Min. C/L Horiz, Waste from Floor	Max. C/L Horiz.Waste from Floor
4 1/2"(115)	3"(76)	4 1/12"(115)
5"(127)	3"(76)	5"(127)
5 1/2"(140)	3"(76)	5 1/2"(140)
6"(152)	3"(76)	6"(152)
6 1/2"(165)	3 1/4"(82)	6 1/2"(165)
7"(178)	3 5/8"(92)	7"(178)
7 1/2"(191)	4 1/8"(105)	7 1/2"(191)
8"(203)	4 5/8"(118)	8"(203)
8 1/2"(203)	5"(127)	8 1/2"(203)
9"(229)	5 3/8"(137)	9"(229)
9 3/8"(239)	5 3/4"(146)	9 3/8"(239)



Stud & Nipple Adjustment

Closet horn depths and flange thicknesses from different fixture manufacturers may vary slightly. The closet nipple is usually set 5/16" beyond the face of the finished wall to allow for sufficient closet gasket compression, and ensure a gas and water tight seal (Fig. 2). Carrier studs generally extend 2-1/4" beyond the finished wall, with the back-up nut set flush with the finished wall, and 1/16" back-up washer between the wall and the fixture. Three cap nuts must tighten fully to properly load the carrier (Fig. 3). The fourth cap nut is typically left hand-tight, to avoid stress on the bowl.

Note: Watts adhesive backed neoprene closet gaskets do not require an additional sealant to form a proper seal.

These formulas can be used to calculate exact nipple and stud positions:

Nipple Position:

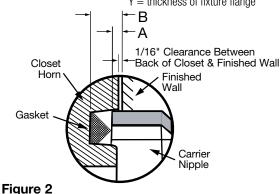
A = B - 7/16" A = distance nipple should extend beyond finished wall

B = depth of closet horn

Stud Position:

X = Y + 5/8" x = distance stud should extend beyond finished wall

Y = thickness of fixture flange



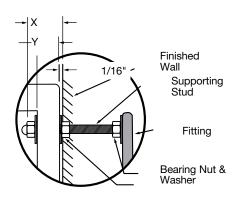


Figure 3



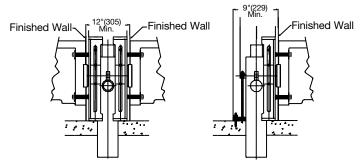
Recommendations

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)

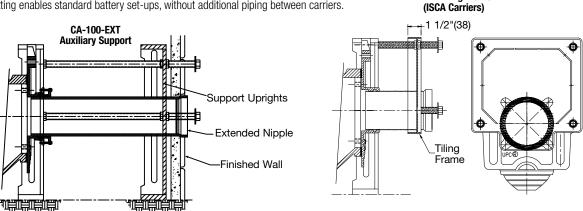
Additional support at the finished wall for wide pipe chases, recommended when the 'X' dimension exceeds 16". Supplied standard with a 24" nipple (cut to size). Extended 5/8" support rods are supplied by others.

-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.





-M11 Tiling Frame

ISCA-101 Horizontal Adjustable 500 lb.Closet Carrier

Model Number	Wt. Lbs.	Description	List Price
ISCA-101-L	77	Single Horizontal - Left Hand	\$2,614.00
ISCA-101-R	77	Single Horizontal - Right Hand	2,614.00
ISCA-101-L-AUX	77	Single Horizontal - LH - 2" Aux Conn.	3,253.00
ISCA-101-R-AUX	77	Single Horizontal - RH - 2" Aux Conn.	3,253.00
ISCA-101-D	135	Back-to-Back Horizontal	4,884.00



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	\$2,968.00
ISCA-121-D	160	Back-to-Back Vertical	5,238.00



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)	\$3,468.00
ISCA-131-D	160	Back to Back Vertical - w/Side Inlet(s)	5,624.00



ISCA-131

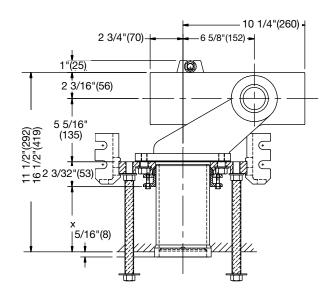


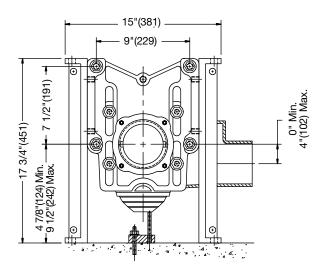
ISCA-131-D

See Pg. 212 for options & parts for all ISCA & QT models.

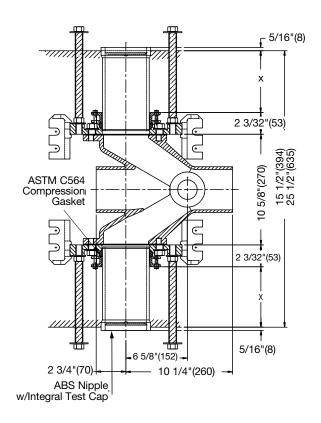


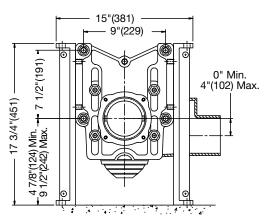
Water Clos	et Carrier Options & Par	ts			
Suffix	Description	List Price	Suffix	Description	List Price
-3	3" Horizontal Fitting	-\$243.00	-M11	Tiling Frame - Single (ISCA)	\$120.00
-36	Horizontal Long Barrel (36")	759.50		Tiling Frame - Double (ISCA)	237.00
-BF	Assy. For Back Outlet Bowl	No Add	-M16	Vandal Proof Cap Nuts - Single	190.00
CA/QT-100-EXT	Auxiliary Support- Single	869.00		Vandal Proof Cap Nuts - Double	378.00
	Auxiliary Support - Double	1,737.00	-M20	Flush Valve Support - Single	128.50
-CI	8" Cast Iron Nipple	No Add		Flush Valve Support - Double	256.50
-HS	Hub & Spigot Connections	No Add	-M23	RH Side Inlet (141/151)	646.50
-CA-N8-50-QT	8" Cast Iron Nipple (QT)	262.50	-M24	LH Side Inlet (141/151)	646.50
-CA-N24-50-QT	24" Cast Iron Nipple (QT)	734.50	-TAS	Faceplate for 4" Rough-In	No Add
-M1	24" Nipple - Single	350.50			
	24" Nipple - Double	699.00			





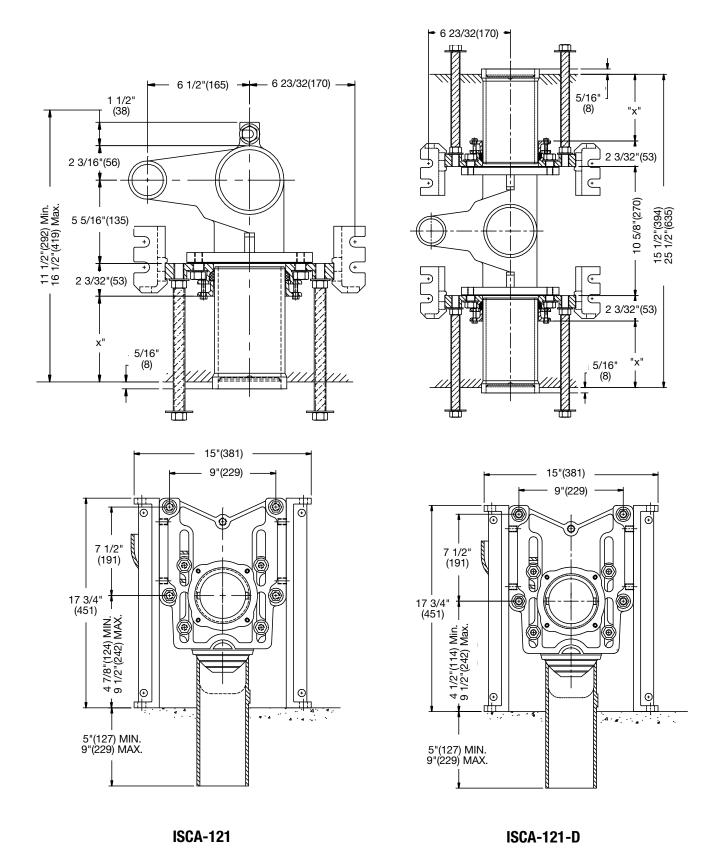
ISCA-101-L/R



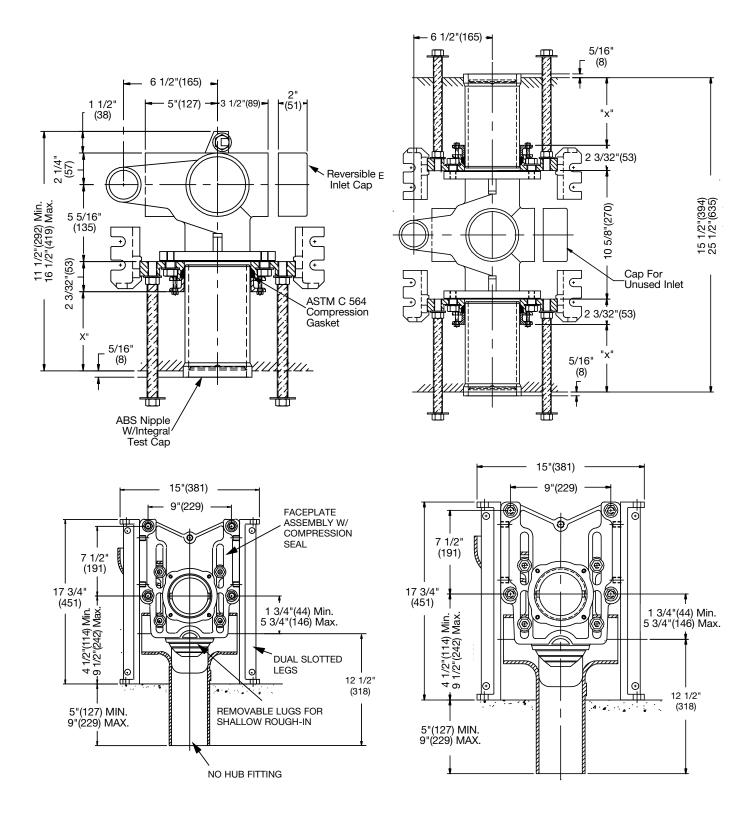


ISCA-101-D









ISCA-131 ISCA-131-D

ISCA-102 Horizontal 1000 lb. Bariatric Closet Carrier

Model Number	Wt. Lbs.	Description	List Price
ISCA-102-L	108	Single Horizontal - Left Hand	\$7,502.00
ISCA-102-R	108	Single Horizontal - Right Hand	7,502.00
ISCA-102-D	186	Back-to-Back Horizontal	14,457.00



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	\$8,253.00
ISCA-122-D	195	Back to Back Vertical	15,905.00



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)	\$8,749.00
ISCA-132-D	199	Back to Back Vertical w/Side Inlet(s)	16,389.00

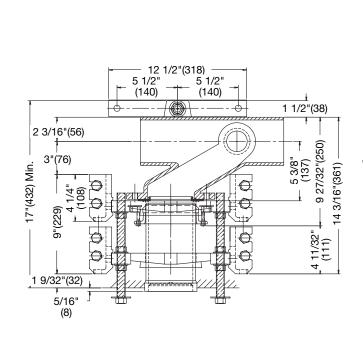


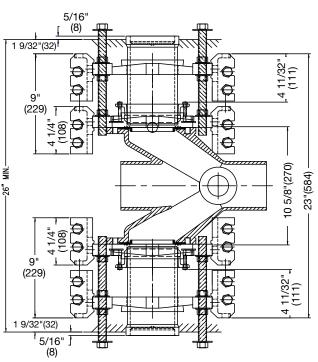
ISCA-132

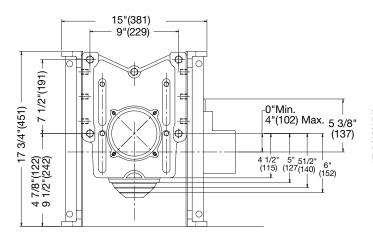


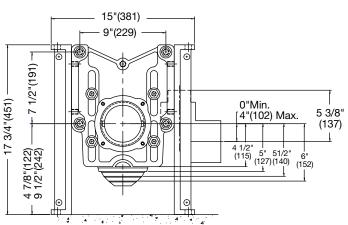
ISCA-132-D



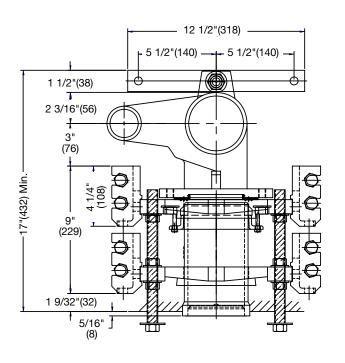


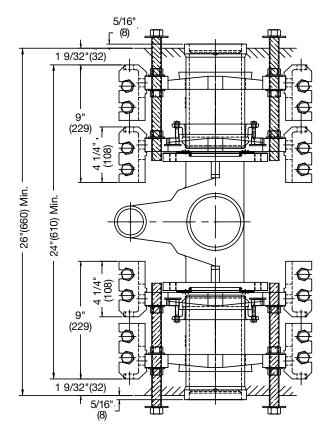


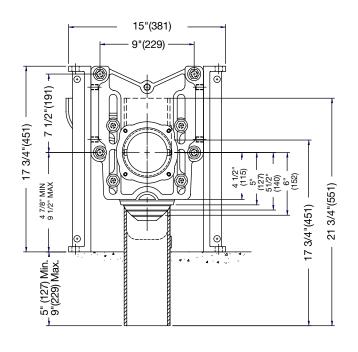


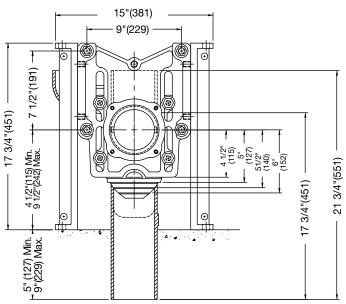


ISCA-102-L/R ISCA-102-D

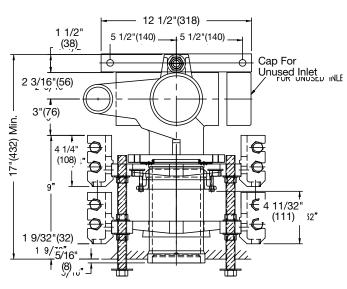


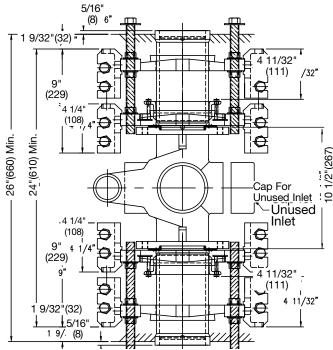


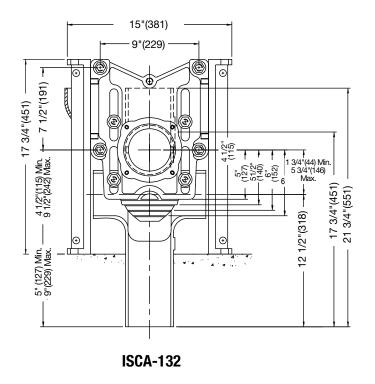


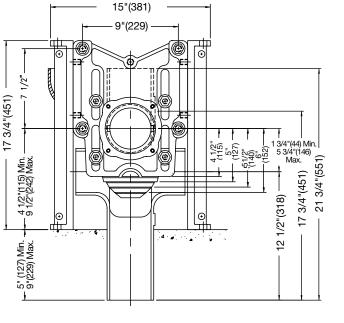


ISCA-122 ISCA-122-D









ISCA-132-D

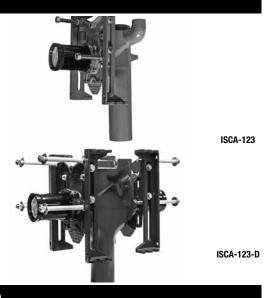
ISCA-103 Horizontal 750 lb. Closet Carrier

Model Number	Wt. Lbs.	Description	List Price
ISCA-103-L	77	Single Horizontal - Left Hand	\$5,404.00
ISCA-103-R	77	Single Horizontal - Right Hand	5,404.00
ISCA-103-D	135	Back-to-Back Horizontal	10,224.00



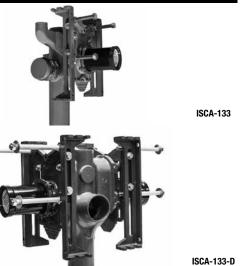
ISCA-123 Vertical 750 lb. Bariatric Carrier

	Model Number	Wt. Lbs.	Description	List Price
	ISCA-123	97	Single Vertical	\$6,001.00
Ī	ISCA-123-D	160	Back-to-Back Vertical	11,558.00



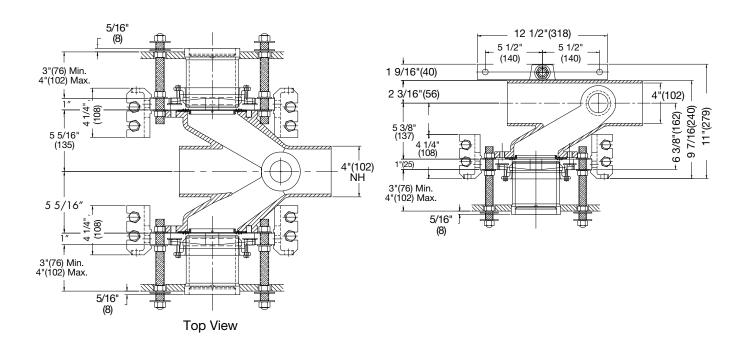
ISCA-133 Vertical 750 lb. Closet Carrier With Side Inlet(s)

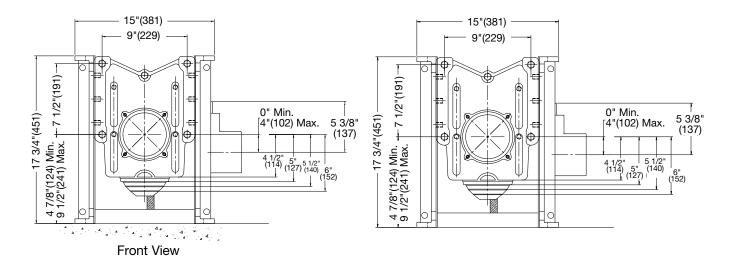
Model Number	Wt. Lbs.	Description	List Price
ISCA-133	97	Single Vertical w/Side Inlet(s)	\$6,494.00
ISCA-133-D	160	Back-to-Back Vertical w/Side Inlet(s)	12,042.00



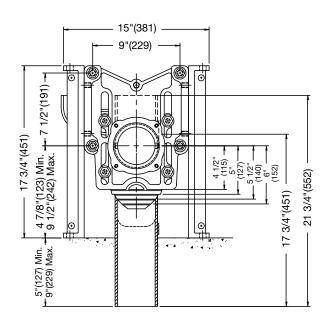
See Pg. 212 for options & parts for all ISCA & QT models.

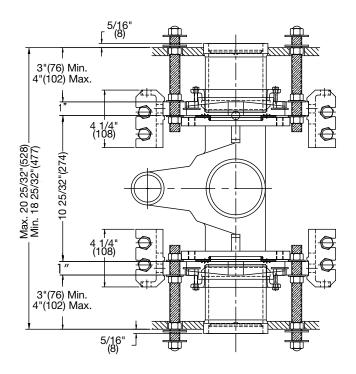


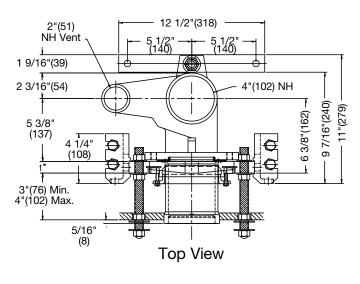


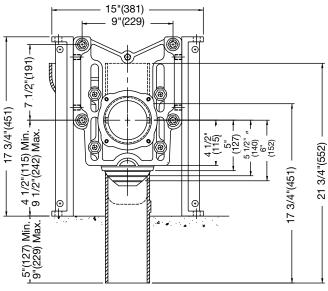


ISCA-103-D ISCA-103-L/R

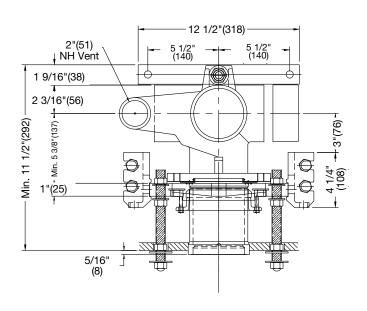


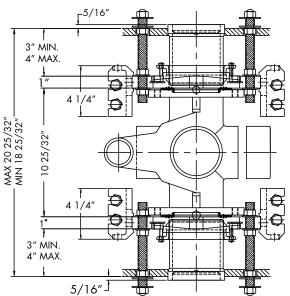


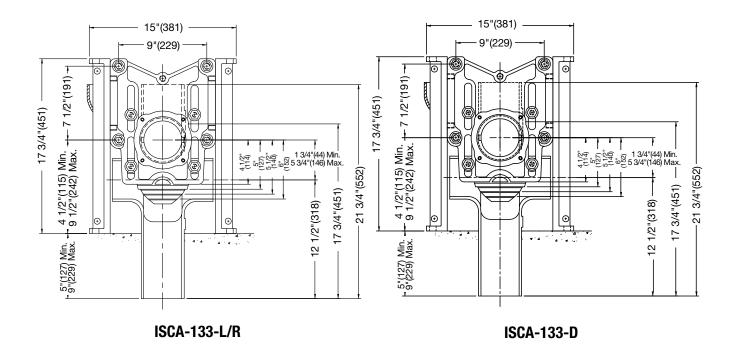




ISCA-123-D







Industry Standard Thin Wall Water Closet Carriers

ISCA-141 Thin Wall 500 lb. Closet Carrier

Model Number	Wt. Lbs.	Description	List Price
ISCA-141-3	52	3" Waste, 2" Vent	\$2,352.00
ISCA-141-4-V2	62	4" Waste, 2" Vent	2,352.00
ISCA-141-4-V4	62	4" Waste, 4" Vent	2,352.00
ISCA-141-4-D-V2	94	Back-to-Back, 4" Waste, 2" Vent	4,025.00
ISCA-141-4-D-V4	94	Back-to-Back, 4" Waste, 4" Vent	4,025.00



ISCA-141



ISCA-141-D

Thin Wall 500 lb. Offset Closet Carrier ISCA-151

Model Number	Wt. Lbs.	Description	List Price
ISCA-151-L	72	Single - Left Hand	\$2,352.00
ISCA-151-R	72	Single - Right Hand	2,352.00
ISCA-151-D	107	Back-to-Back	4,025.00



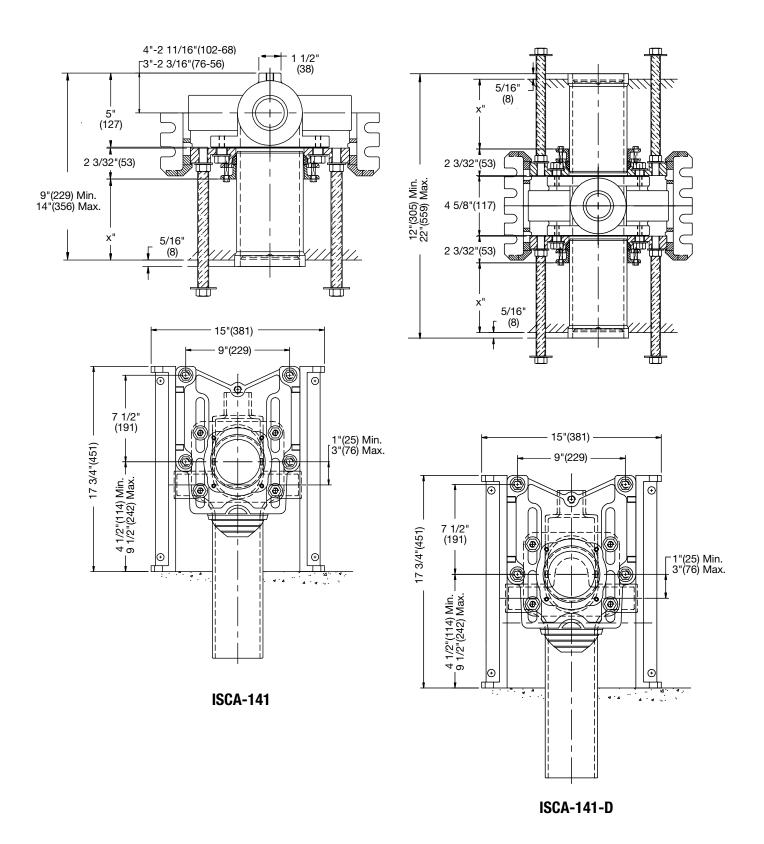
ISCA-151



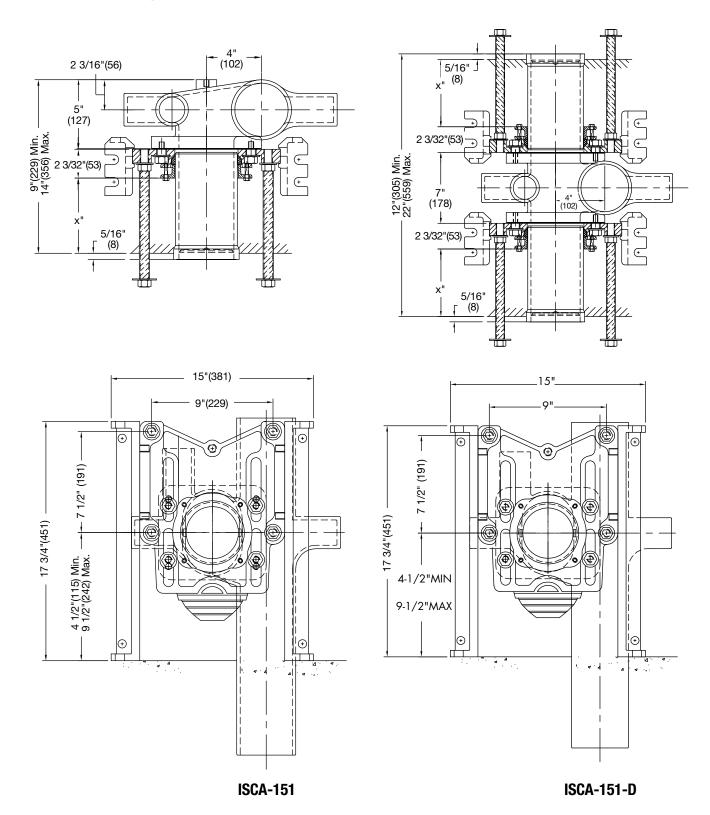
ISCA-151-D



Industry Standard Thin Wall Water Closet Carriers

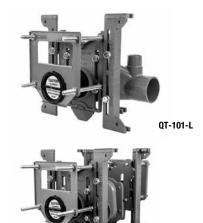


Industry Standard Thin Wall Water Closet Carriers



QT-101 Horizontal Adjustable 500 lb. Closet Carrier

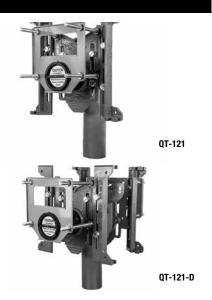
Model Number	Wt. Lbs.	Description	List Price
QT-101-L	66	Single Horizontal - Left Hand	\$2,809.00
QT-101-R	66	Single Horizontal - Right Hand	2,809.00
QT-101-L-AUX	67	Single Horizontal - LH - 2" Aux Conn.	3,561.00
QT-101-R-AUX	67	Single Horizontal - RH - 2" Aux Conn.	3,561.00
QT-101-D	122	Back-to-Back Horizontal	5,252.00



QT-101-D

QT-121 Vertical Adjustable 500 lb. Closet Carrier

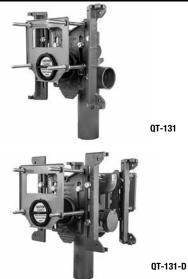
Model Number	Wt. Lbs.	Description	List Price
QT-121	81	Single Vertical	\$3,188.00
QT-121-D	132	Back-to-Back Vertical	5,631.00



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)	\$3,727.00
QT-131-D	138	Back to Back Vertical - w/Side Inlet(s)	6,157.00

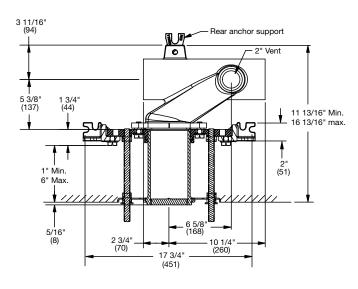
See Pg. 212 for options & parts for all ISCA & QT models.

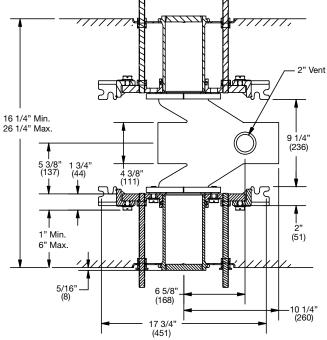


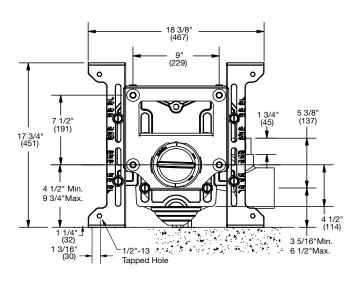
QT-CFP-5.5T-KIT QT Carrier Trim Kits

Model Number	EDP	Wt. Lbs.	Description	List Price
QT-CFP-5.5-KIT	8201721	44	QT Carrier FP Pack 5.5T-KIT	\$2,567.00





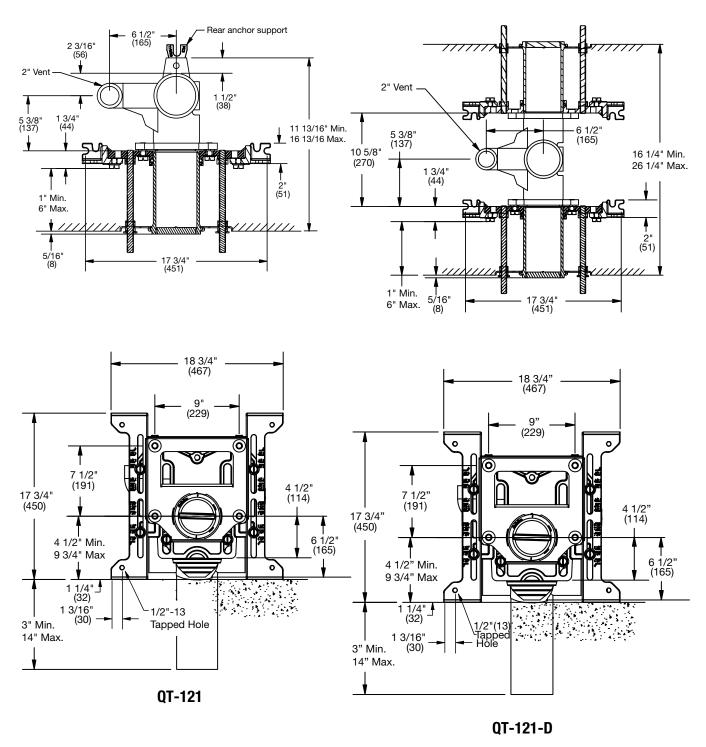


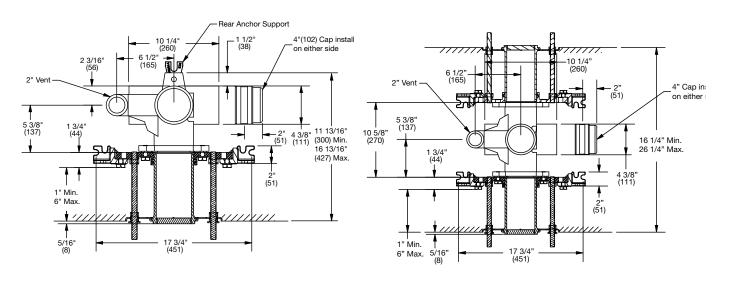


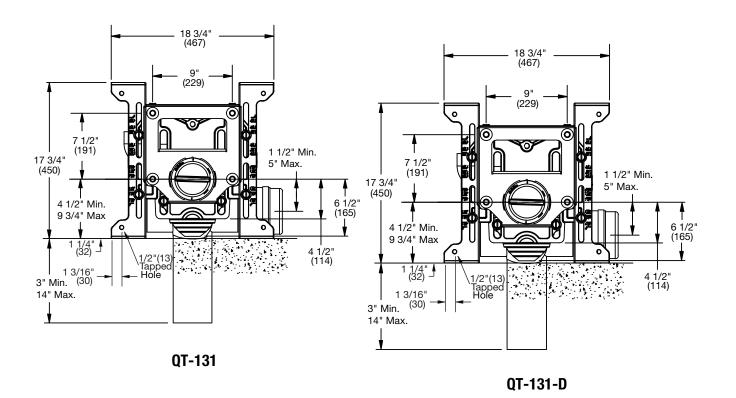
18 3/8" (467) 9" (229)0 5 3/8" (137) 1 3/4" 7 1/2" (45)17 3/4" (191) (451) 4 1/2" Min. 9 3/4" Max. 4 1/2" - (114) 3 5/16" Min. 6 1/2" Max. 1 1/4" (32) 1/2"-13 1 3/16" (30) Tapped Hole

QT-101-L/R

QT-101-D







QT-102 Horizontal Adjustable 1000 lb. Bariatric Closet Carrier

Model Number	Wt. Lbs.	Description	List Price
QT-102-L	104	Single Horizontal - Left Hand	\$7,048.00
QT-102-R	104	Single Horizontal - Right Hand	7,048.00
QT-102-D	198	Back-to-Back Horizontal	13,587.00



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	\$7,756.00
QT-122-D	208	Back-to-Back Vertical	14,948.00



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)	\$8,220.00
QT-132-D	214	Back-to-Back Vertical w/Side Inlet(s)	15,401.00

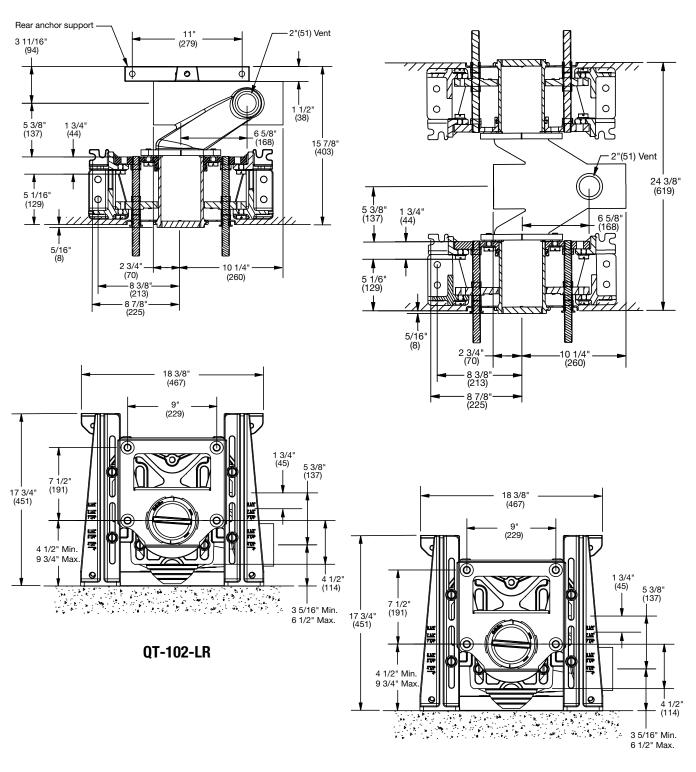
QT-132



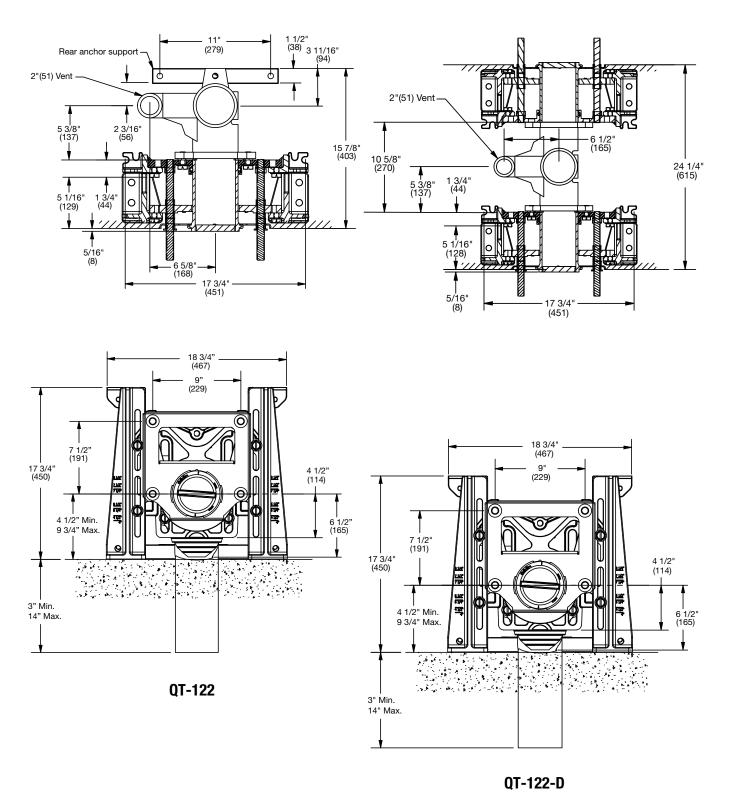
QT-132-D

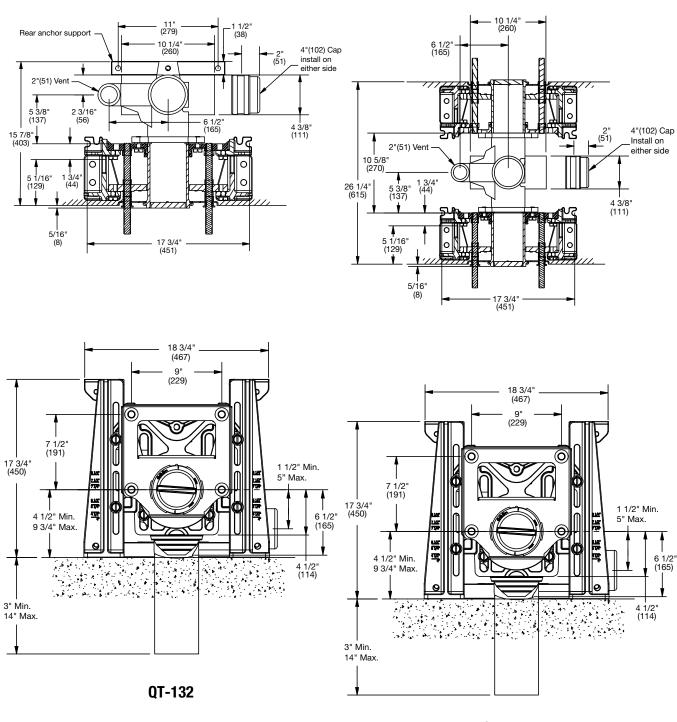
See Pg. 212 for options & parts for all ISCA & QT models.





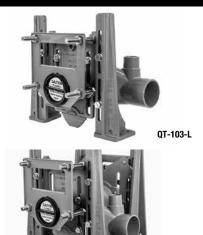
QT-102-D





QT-103 Horizontal Adjustable 750 lb. Closet Carrier

Model Number	Wt. Lbs.	Description	List Price
QT-103-L	81	Single Horizontal - Right Hand	\$4,989.00
QT-103-R	81	Single Horizontal - Left Hand	4,989.00
QT-103-D	152	Back-to-Back Horizontal.	9,606.00



QT-123 Vertical Adjustable 750 lb. Closet Carrier

Model Number	Wt. Lbs.	Description	List Price
QT-123	96	Single Vertical	\$6,176.00
QT-123-D	162	Back-to-Back Vertical	11,893.00



QT-123

QT-103-D

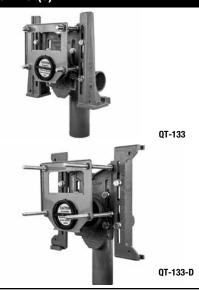


QT-123-D

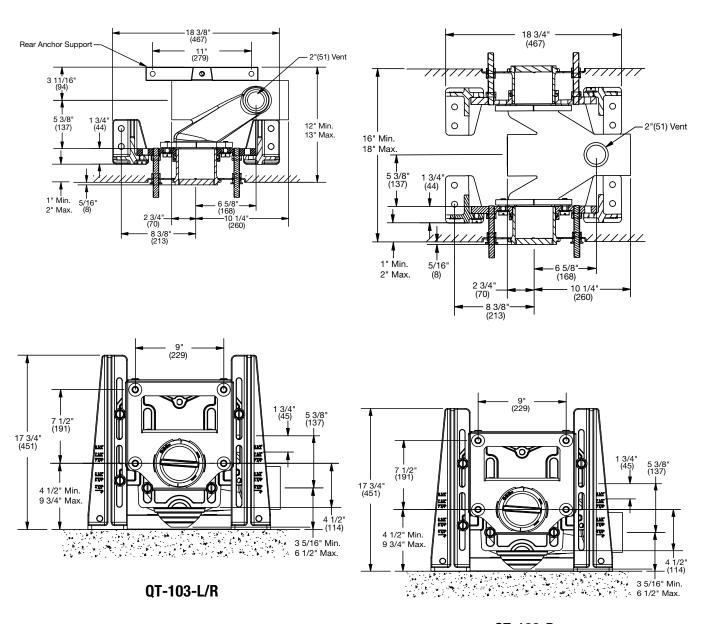
QT-133 Vertical Adjustable 750 lb. Closet Carrier with Side Inlet(s)

Model Number	Wt. Lbs.	Description	List Price
QT-133	97	Single Vertical - w/Side Inlet(s)	\$6,102.00
QT-133-D	168	Back to Back Vertical - w/Side Inlet(s)	11,317.00

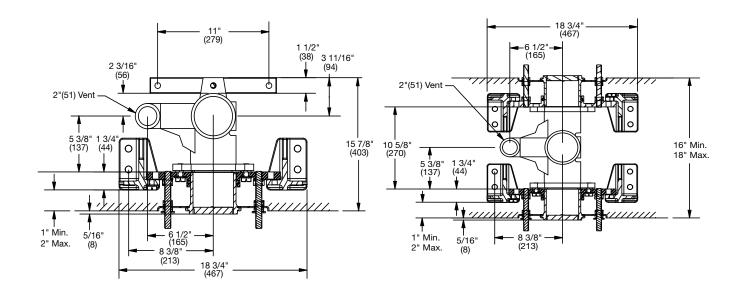
See Pg. 212 for options & parts for all ISCA & QT models.

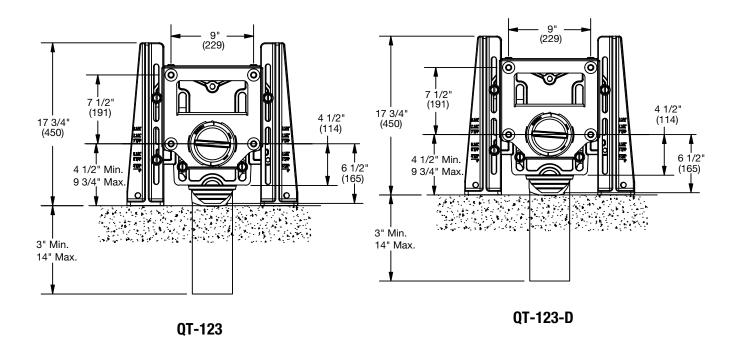


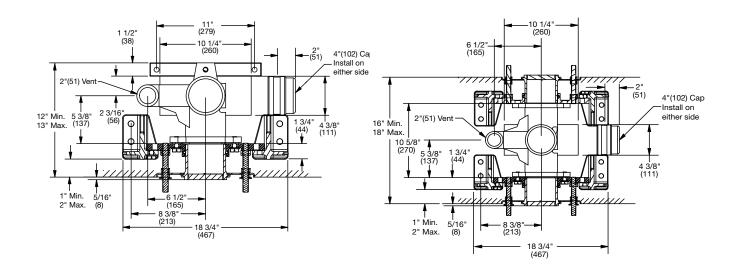


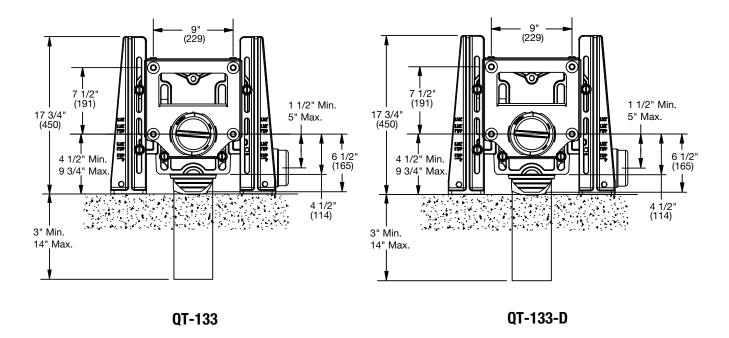


QT-103-D









QT QuickTurn™ Thin Wall Water Closet Carriers

QT-141 Thin Wall 500 lb. Closet Carrier

Model Number	Wt. Lbs.	Description	List Price
QT-141-3	76	3" Waste, 2" Vent	\$2,274.00
QT-141-4-V2	76	4" Waste, 2" Vent	2,274.00
QT-141-4-V4	76	4" Waste, 4" Vent	2,274.00
QT-141-4-D-V2	120	Back-to-Back, 4" Waste, 2" Vent	3,891.00
QT-141-4-D-V4	127	Back-to-Back, 4" Waste, 4" Vent	3,891.00



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	\$2,741.00
QT-151-R	77	Single - Right Hand	2,741.00
QT-151-D	128	Back to Back	4,688.00



QT-151-L



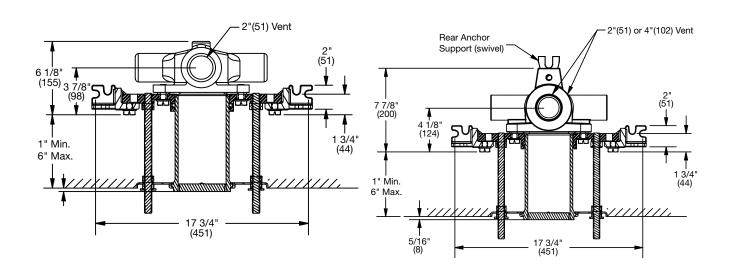
QT-151-D

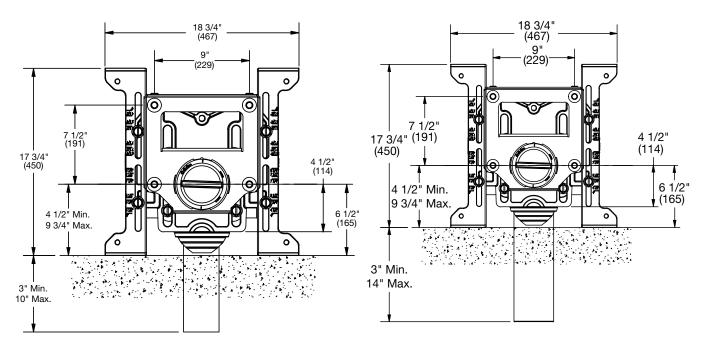
QT-161-L/R Thin Wall 500 lb. Horizontal Closet Carrier

Model Number	Wt. Lbs.	Description	List Price
QT-161-L	78	Single - Left Hand	\$3,119.00
QT-161-R	78	Single - Right Hand	3,119.00

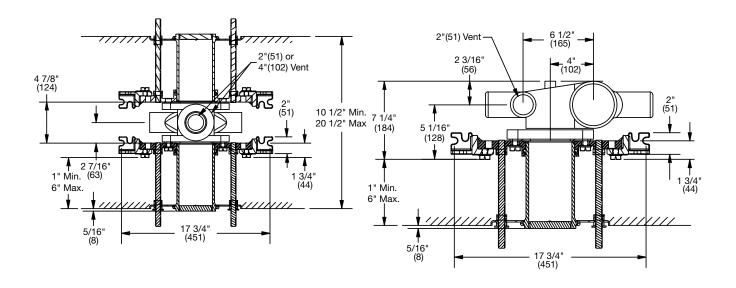


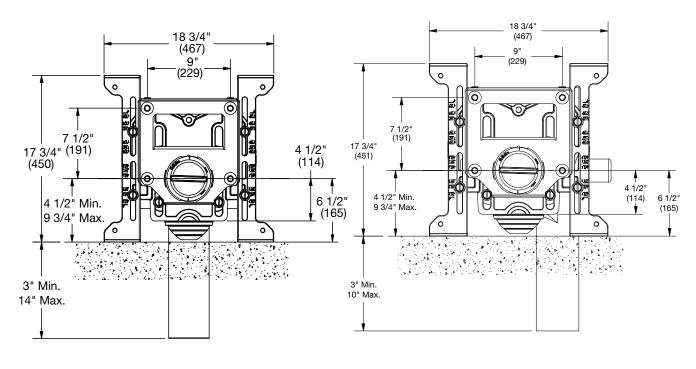




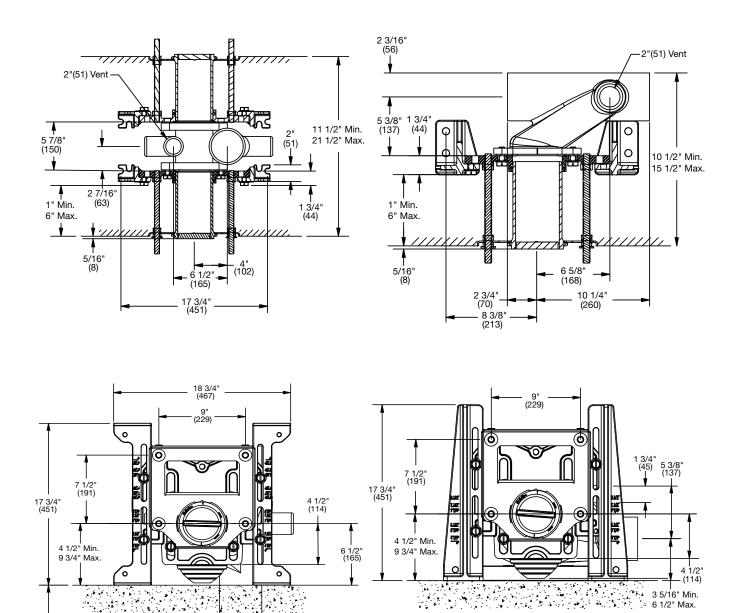


QT-141-3 QT-141-4





QT-141-4-D QT-151-L/R



QT-151-D QT-161-L/R

3" Min. 14" Max.

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

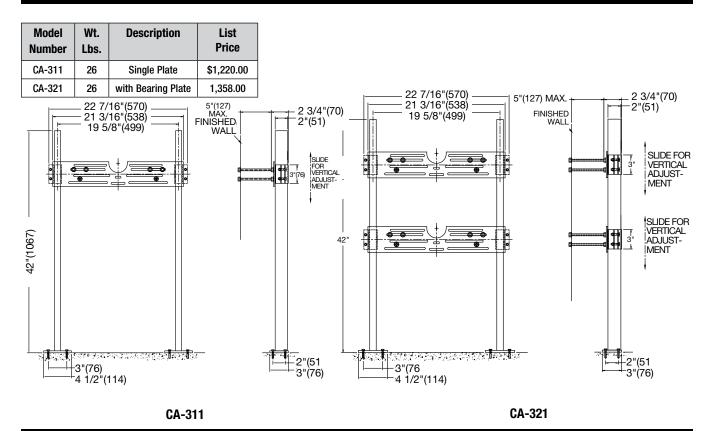
Service sink carriers are specified in clinical applications, to support flushing rim, or surgical scrub sinks. Similar in function to water closet carriers, service sink carriers provide structural support, and facilitate a connection to the waste line.





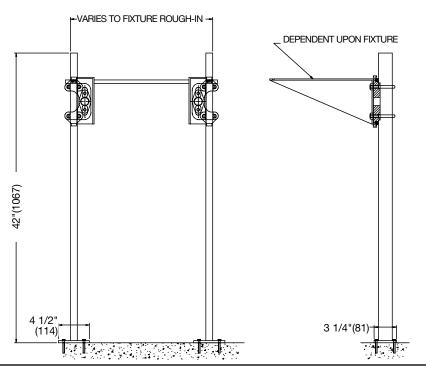
Lavatory/Urinal Carriers

CA-311, 321 Urinal Carriers



CA-401 Floor Mounted Lavatory Carrier with Exposed Arms

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

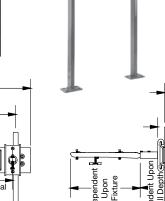




Lavatory Carriers

Floor Mounted "Track" Lavatory Carrier w/Concealed Arms TCA-411

Model Number	EDP#	Wt., Lbs.	Description	List Price
TCA-411	8201149	35	Single, Concealed Arms	\$2,003.00
TCA-411-D	8201150	60	Back to Back, Concealed Arms	2,925.00
TCA-411-WC	8201560	37	Single, Concealed Arms, 27 x 20 Lavatory	2,106.00
TCA-411-D-WC	8201303	64	Double, Concealed Arms, 27x20 Lavatory	3,128.00

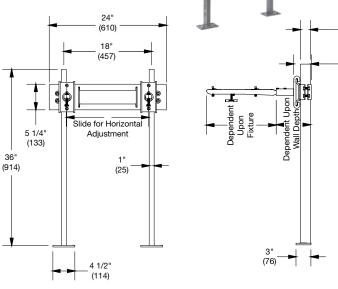


Hex Bolt-UNC

2" (51)

3 1/2" (89)

Options for TCA-411						
Suffix	Description	List Price				
-CI	Arms for Cast Iron Lavatory	No Add				
-M54	2" Chrome Plated Escutcheons, Single	\$267.50				
	2" Chrome Plated Escutcheons, Double	533.00				
-M55	4" Chrome Plated Escutcheons, Single	485.00				
	4" Chrome Plated Escutcheons, Double	968.50				
-M60	Valve Support Plate, Single	245.00				
	Valve Support Plate Double	484 00				



TCA-411-2/3/4 Floor Mounted "Track" Extended Lavatory Carrier with Concealed Arms

Model Number	EDP#	Wt., Lbs.	Description	List Price	10" Long (Regular Thread-Inch) Bracket Carrier Arm Cross Plate
TCA-411-2	8190012	80	2 Sink w/Concealed Arms	\$4,000.00	
TCA-411-3	8190011	120	3 Sink w/Concealed Arms	5,998.00	
TCA-411-4	8190010	160	4 Sink w/Concealed Arms	7,995.00	
	Long locket	Cr	-Inch) oss Plate CA-411-3	(Regulation (Regul	TCA-411-2



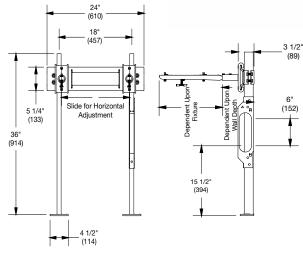
Lavatory Carriers

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	\$2,682.00
TCA-411-D-WLA	8201172	60	Back to Back, Concealed Arms w/Waste Line Access	3,473.00
WCA-411-WLA	8201200	37	Single, Concealed Arms, 27 x 20 Lavatory w/Waste Line Access	2,564.00
WCA-411-D-WLA	8201201	64	Double, Concealed Arms, 27x20 Lavatory w/Waste Line Access	3,243.00



Options for TCA-411-WLA							
Suffix	Description	List Price					
-CI	Arms for Cast Iron Lavatory	No Add					
-M54	2" Chrome Plated Escutcheons, Single	\$267.50					
	2" Chrome Plated Escutcheons, Double	533.00					
-M55	4" Chrome Plated Escutcheons, Single	485.00					
	4" Chrome Plated Escutcheons, Double	968.50					
-M60	Valve Support Plate, Single	245.00					
	Valve Support Plate Double	484.00					

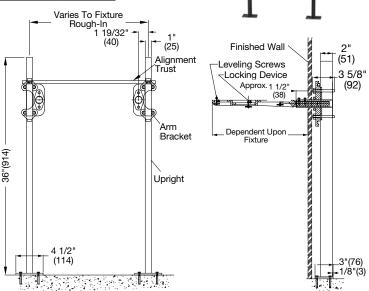


WCA-411 Floor Mounted Lavatory Carrier w/Concealed Arms

Model Number	EDP#	Wt., Lbs.	Description	List Price
WCA-411	8133205	35	Single, Concealed Arms	\$1,604.00
WCA-411-D	8133213	60	Back to Back, Concealed Arms	2,283.00
WCA-411-WC	8133225	37	Single, Concealed Arms, 27 x 20 Lavatory	1,712.00
WCA-411-D-WC	8133212	64	Double, Concealed Arms, 27x20 Lavatory	2,497.00



Options for WCA-411						
Suffix	Description	List Price				
-CI	Arms for Cast Iron Lavatory	No Add				
-M54	2" Chrome Plated Escutcheons, Single	\$267.50				
	2" Chrome Plated Escutcheons, Double	533.00				
-M55	4" Chrome Plated Escutcheons, Single	485.00				
	4" Chrome Plated Escutcheons, Double	968.50				
-M60	Valve Support Plate, Single	245.00				
	Valve Support Plate Double	484.00				

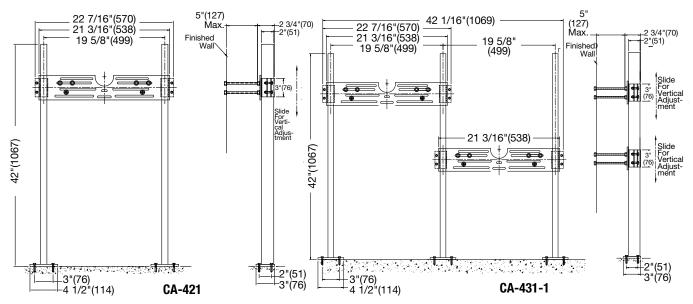




Lavatory/Water Cooler Carriers

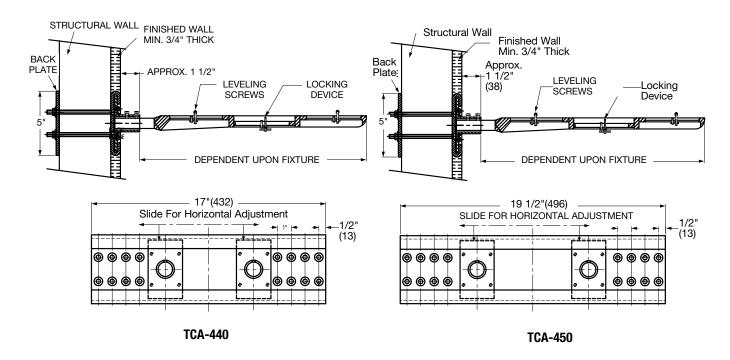
CA-421 Floor Mounted Plate Type Lavatory/
CA-431-1 Water Cooler Carrier

Model Number Wt., Lbs.		Description	List Price	
CA-421 28		Plate Type for Lavatory/Water Cooler	\$1,220.00	
CA-431-1	50	Plate Type for Hi-Low Water Cooler	1,966.00	



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	\$1,238.00
TCA-450	8187153	30	Concealed Arms, 27x20 Lavatory	1,305.00

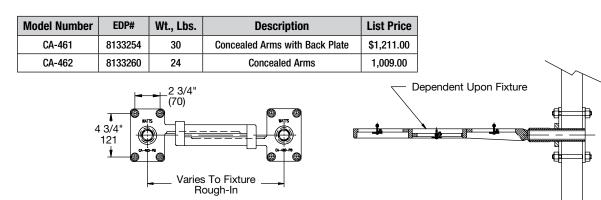




Lavatory/Service Sink Carriers

CA-461 CA-462

Wall Mounted Concealed Arm Lavatory Carriers



Note: See CA-411 Options page 208.

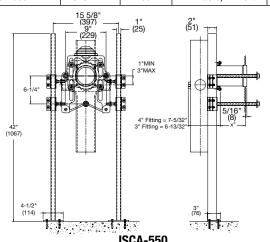
CA-481

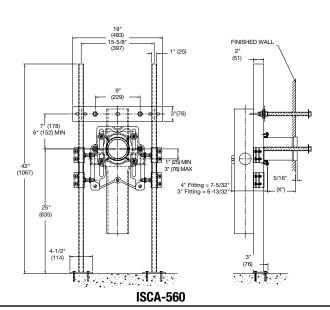
Wall Plate

Model Numbe	r EDP#	Description	List Price
CA-481	8133262	Wall Plate with Studs	\$338.50
4		23 1/2"(521)
⊕ ⊕			
			>
⊕ ⊕			

ISCA-550, ISCA-560 Service Sink Carriers

Model Number	EDP#	Wt., Lbs.	Description	List Price
ISCA-550-3	8187116	60	3" Waste, 2" Vent	\$2,315.00
ISCA-550-4-V2	8187117	60	4" Waste, 2" Vent	2,315.00
ISCA-550-4-V4	8187118	60	4" Waste, 4" Vent	2,315.00
ISCA-560-3	8187119	60	3" Waste, 2" Vent	2,315.00
ISCA-560-4-V2	8187120	60	4" Waste, 2" Vent	2,315.00
ISCA-560-4-V4	8187121	60	4" Waste, 4" Vent	2,315.00







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

Notes



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 Drainge, 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

To locate your nearest Watts representative, please click on our *find a sales rep* locator on watts.com.

Represented by:						

