

#### Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc. P.O. Box 16620 Little Rock, AR 72231 Phone 501-834-3320 Fax 501-834-5416

Date: 2/21/2024

Return Request: 3/28/2024

Project: Little Rock West High School

**Supplier:** Sanders Supply **Manufacturer:** Various

Submittal: Plumbing (Sanitary Waste Piping Specialties)

**Submittal Number:** 

**Drawing # and Installation:** Plumbing Drawings

#### **ARCHITECT**

Lewis Architects Engineers 11225 Huron Lane, Suite 104 Little Rock, AR 72211 501-223-9302

#### **GENERAL CONTRACTOR**

Baldwin & Shell 1000 W. Capitol Ave. Little Rock, AR 72201 501-374-8677

#### **ENGINEER**

Lewis Architects Engineers 11225 Huron Lane, Suite 104 Little Rock, AR 72211 501-223-9302

#### **MECHANICAL SUBCONTRACTOR**

Comfort Systems USA (Arkansas), Inc. 9924 Landers Rd. N. Little Rock, AR 72117 501-834-3320

chowell@comfortar.com

# PT-1

Job Name LR West HS	Contractor Comfort Systems USA
Job Location LR	Approval
Engineer Ragsdale	Contractor's P.O. No.
Approval	Representative Sanders Supply
_ PT-1	

# SI-742

# Hair, Plaster & Sediment

### Interceptor

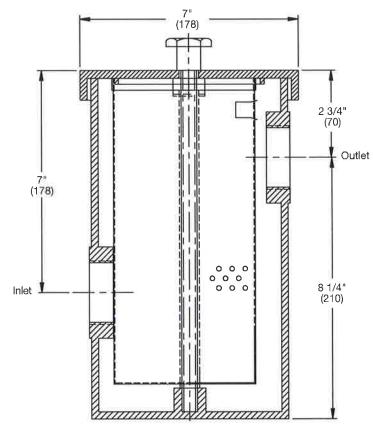
#### Specification

Watts SI-742 floor mounted epoxy coated cast aluminum sediment interceptor with removable stainless steel sediment basket, gasketed cover, and 2"(51) IPS threaded connections.

**Note:** 10"(254) clearance required above cover to remove sediment basket.

O <sub>l</sub> Suffix	otions (Select One or More)  Description	
-SS	Stainless Steel	





#### NOTICE

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Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.



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# FD-1

Job Name LR West HS	Contractor Comfort Systems USA
Job Location LR	
Engineer Ragsdale	Contractor's P.O. No.
ApprovalFD-1	Representative Sanders Supply

# FD-100-A

### Floor Drain with Round Strainer

#### **Specification**

Watts FD-100-A epoxy coated cast iron floor drain with anchor flange, reversible clamping collar with primary and secondary weepholes, adjustable round heel proof nickel bronze strainer, and no hub (standard) outlet.

	Pipe Sizing	
Suffix	Description	
2	2"(51) Pipe Size	
3	3"(76) Pipe Size	
4	4"(102) Pipe Size	
6	6"(152) Pipe Size (NH Only)	
	Outlet Type	
Suffix	Description	
NH	No Hub (MJ)	
Р	Push On	•
7	Inreaded Uullet	
Х	Inside Caulk	
	Strainer	
Suffix	Description	
A5	5"(127) Dia., Niekel Brenze	0
A6	6"(127) Dia., Nickel Bronze	•

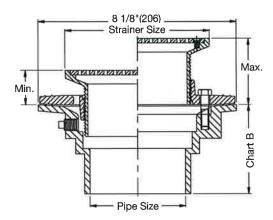
7"(179) Dia., Nickel Bronze 8"(203) Dia., Nickel Bronze

10"(254) Dia., Nickel Bronze

	Options	
Suffix	Description	
-5	Sediment Bucket	
6	Vandal Proof	-
-7	Trap Primer Tapping	V
-0	Backwater valve (2, 3, 4 Only)	
-13	Galvanized Body	
-15	Strainer Extension (DD-50)	
-F4-50	4" Round Cast Iron Funnel	
-F4-1	4" Round Nickel Bronze Funnel	
-F6-1	6" Round Nickel Bronze Funnel	
-G-50	4x9" Oval Cast Iron Funnel	
-G-1	4x9" Oval Nickel Bronze Funnel	
-S0	Side Outlet	

Optional Body Material		
Suffix	Description	
-60	PVC Body w/Socket Outlet (2, 3, 4" Only)	
-61	ABS Body w/Socket Outlet (2, 3, 4" Only)	





Strainer Size				
Str. Dia.	Min.	Max.	Load Rating	Free Area Sq. In.
5"(127)	13/16"(21)	3 1/4"(83)	*MD	8
6"(152)	7/8"(22)	3 3/8"(86)	*MD	9
7"(178)	11/16"(17)	3 1/4"(83)	*MD	12
8"(203)	7/8"(22)	3 1/4"(83)	*MD	18
10"(254)	1 1/4"(32)	3 1/4"(83)	*MD	28

#### NOTICE

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		Ch	art B		
Pipe Size	Std. No Hub	P Push On	T Female Thread	X Inside Caulk	60/61 PVC/ ABS
2"(52)	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)				

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# FD-2

Job Name LR West HS	Contractor Comfort Systems USA
Job Location LR	Approval
Engineer Ragsdale	Contractor's P.O. No.
Approval	Representative Sanders Supply

# FD-100-A

## Floor Drain with Round Strainer

#### Specification

Watts FD-100-A epoxy coated cast iron floor drain with anchor flange, reversible clamping collar with primary and secondary weepholes, adjustable round heel proof nickel bronze strainer, and no hub (standard) outlet.

	Pipe Sizing	
Suffix	Description	
2	2"(51) Pipe Size	
3	3"(76) Pipe Size	
4	4"(102) Pipe Size	
6	6"(152) Pipe Size (NH Only)	

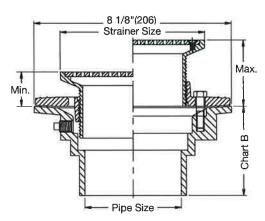
	Outlet Type	4.5
Suffix	Description	
NH	No Hub (MJ)	
Р	Push On	•
1	Ihreaded Uutlet	
Χ	Inside Caulk	

	Strainer	
Suffix	Description	
A5	5"(127) Dia., Wekel Brenze	0
A6	6"(127) Dia., Nickel Bronze	•
A7	7"(178) Dia., Nickel Bronze	
A8	8"(203) Dia., Nickel Bronze	
A10	10"(254) Dia., Nickel Bronze	

	Options	
Suffix	Description	
-5	Sediment Bucket	
-6	Vandal-Proof	0
-7	Trap Primer Tapping	Ø
-8	Backwater valve (2, 3, 4 Offly)	
-13	Galvanized Body	
-15	Strainer Extension (DD-50)	
-F4-50	4" Round Cast Iron Funnel	
-F4-1	4" Round Nickel Bronze Funnel	
-F6-1	6" Round Nickel Bronze Funnel	
-G-50	4x9" Oval Cast Iron Funnel	
-G-1	4x9" Oval Nickel Bronze Funnel	
-S0	Side Outlet	

	Optional Body Material	
Suffix	Description	
-60	PVC Body w/Socket Outlet (2, 3, 4" Only)	
-61	ABS Body w/Socket Outlet (2, 3, 4" Only)	





Strainer Size				
Str. Dia.	Min.	Max.	Load Rating	Free Area Sq. In.
5"(127)	13/16"(21)	3 1/4"(83)	*MD	8
6"(152)	7/8"(22)	3 3/8"(86)	*MD	9
7"(178)	11/16"(17)	3 1/4"(83)	4MD	12
8"(203)	7/8"(22)	3 1/4"(83)	*MD	18
10"(254)	1 1/4"(32)	3 1/4"(83)	*MD	28

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	Chart B					
Pipe Size	Std. No Hub	P Push On	T Female Thread	X Inside Caulk	60/61 PVC/ ABS	
2"(52)	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)					

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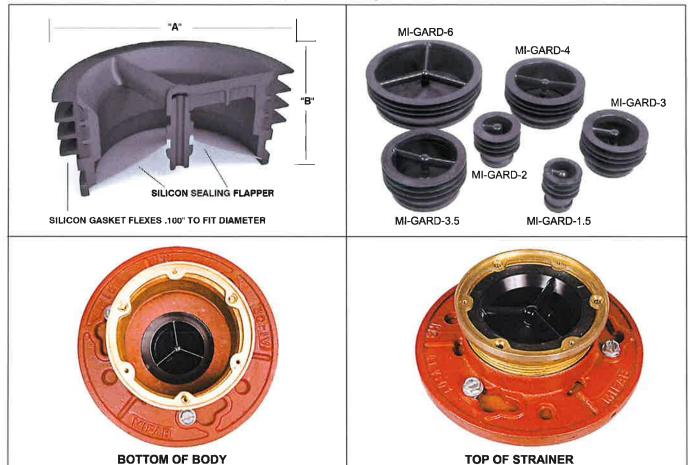
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#### FLOOR DRAIN TRAP SEAL

**Specification:** MIFAB® MI-GARD® Series inline floor drain trap seal with UV resistant ABS plastic frame, silicon rubber sealing flapper and four flexible sealing ribs. Tested and certified to the ASSE 1072 Standard and listed with IAPMO and I.P.C. Specify connection size (1 1/2", 2", 3", 3 1/2", 4" or 6"). 10 year warranty is included.

**Function:** Used in the outlet connections of floor drain bodies, or the inside of floor drain strainers to seal the opening to prevent odors, sewer gases, and insects from entering up through the floor drain grate. The MI-GARD® solution into openings that have variations in size. The MI-GARD® will open to allow drainage and close when there is no water flow.



MODEL NO.	"A" (PIPE SIZE)	"B" (HEIGHT)
MI-GARD-1.5	1-1/2" (38)	2" (51)
○ MI-GARD-2	2" (51)	2" (51)
○ MI-GARD-3	3" (76)	2" (51)
MI-GARD-3.5	3 1/2" (89)	2" (51)
MI-GARD-4	4" (102)	2" (51)
MI-GARD-6	6" (152)	2" (51)

MI-GARD® prevents the following from entering through the top of floor drains:

Odors and sewer gases
 Insects

Not intended to be used in lieu of a trap seal primer. 6" MI-GARD not IAPMO certified. Note: The MI-GARD-6 is designed in accordance with industry standards but is not listed. MI-GARD

Floor Drain Trap Seals are in compliance with International Plumbing Code (I.P.C.)





MI-GARD-1.5

CALIFORNIA PROPOSITION 65 WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.		
Job Name: LR West HS	Page No:	
Section No:	Contractor: Comfort Systems USA	
Schedule No:	Purchase Order No:	

# FD-3

Job Name LR West HS	Contractor Comfort Systems USA
Job Location LR	Approval
Engineer Ragsdale	Contractor's P.O. No.
Approval	Representative Sanders Supply

# FD-100-ER

### Floor Drain with Extended Rim

#### Strainer

Suffix

NH

χ

Suffix

-5

-6

-13

-15

-S0

#### **Specification**

Watts FD-100-ER epoxy coated cast iron floor drain with anchor flange, reversible clamping collar with primary & secondary weepholes, adjustable round nickel bronze extended rim strainer, and no hub (standard) outlet.

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Pipe Sizing		
Suffix	Description	
2	2"(51) Pipe Size	
3	3"(76) Pipe Size	
4	4"(102) Pipe Size	
6	6"(152) Pipe Size	
	No Hub Only	

**Outlet Type** 

Description

No Hub (M.I) Push On

I hreaded Outlet

Inside Caulk

**Options** 

Description

Sediment Bucket

Vandal Proof

**Trap Primer Tapping** Backwater Valve (2, 3, 4" Uniy)

Galvanized Body

Strainer Extension (DD-50)

Side Outlet



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Strainer S

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	Strainer Size	
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Min	M.	ax
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		L
	Pipe Size —	

Strainer S	Size			
Str. Dia.	Min.	Max.	Load Rating	Free Area Sq. In.
5*(127)	1 1/2"(38)	4"(102)	NA	7
7*(178)	2 1/2"(64)	4*(102)	NA	13
9"(229)	2 1/2"(64)	4"(102)	NA	22

#### Chart B

	Std.	P	T	X	60/61
Pipe	No	Push	Female	Inside	PVC/
Size	Hub	On	Thread	Caulk	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)				

#### NOTICE

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Suffix Description -60 PVC Body w/Socket Outlet ABS Body w/Socket Outlet

**Optional Body Material** 

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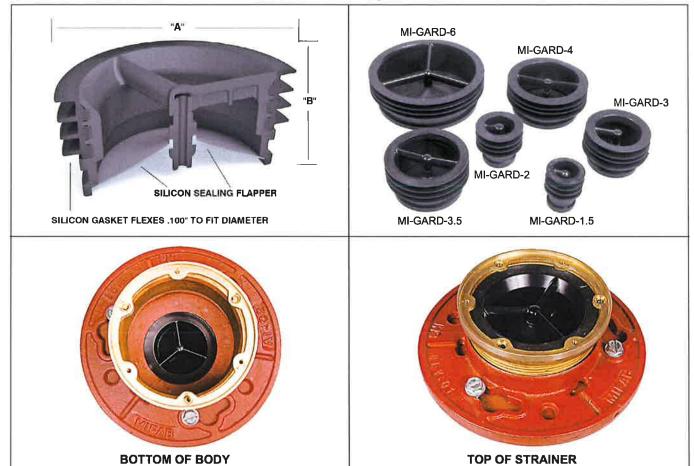
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#### FLOOR DRAIN TRAP SEAL

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Function: Used in the outlet connections of floor drain bodies, or the inside of floor drain strainers to seal the opening to prevent odors, sewer gases, and insects from entering up through the floor drain grate. The MI-GARD®'s four flexible silicone sealing ribs ensure easy installation into openings that have variations in size. The MI-GARD® will open to allow drainage and close when there is no water flow.



MODEL NO.	"A" (PIPE SIZE)	"B" (HEIGHT)
MI-GARD-1.5	1-1/2" (38)	2" (51)
○ MI-GARD-2	2" (51)	2" (51)
MI-GARD-3	3" (76)	2" (51)
MI-GARD-3.5	3 1/2" (89)	2" (51)
MI-GARD-4	4" (102)	2" (51)
MI-GARD-6	6" (152)	2" (51)

MI-GARD® prevents the following from entering through the top of floor drains:

• Odors and sewer gases • Insects

Not intended to be used in lieu of a trap seal primer. 6" MI-GARD not IAPMO certified. Note: The MI-GARD-6 is designed in accordance with industry standards but is not listed. MI-GARD Floor Drain Trap Seals are in compliance with International Plumbing Code (I.P.C.)





MI-GARD-1.5

CALIFORNIA PROPOSITION 65 WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.				
Job Name: LR West HS Page No:				
Section No:	Contractor: Comfort Systems USA			
Schedule No:	Purchase Order No:			

# FD-4

Job Name LR West HS	Contractor Comfort Systems USA
Job Location LR	Approval
Engineer Ragsdale	Contractor's P.O. No.
Approval	Representative Sanders Supply
FD-4	

# FD-100-A

## Floor Drain with Round Strainer

#### **Specification**

Watts FD-100-A epoxy coated cast iron floor drain with anchor flange, reversible clamping collar with primary and secondary weepholes, adjustable round heel proof nickel bronze strainer, and no hub (standard) outlet.

Pipe Sizing				
Suffix	Description			
2	2"(51) Pipe Size			
3	3"(76) Pipe Size	•		
4	4"(102) Pipe Size			
6	6"(152) Pipe Size (NH Only)			

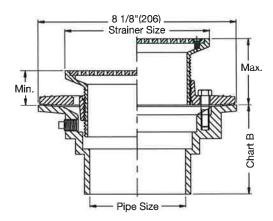
	Outlet Type	
Suffix	Description	
NH	No Hub (MJ)	
Р	Push On	•
1	Ihreaded Outlet	
Χ	Inside Caulk	

Strainer				
Suffix	Description			
A5	5"(127) Dia., Niekel Brenze	0		
A6	6"(127) Dia., Nickel Bronze	•		
A7	711(179) Dia., Nickel Bronze			
A8	8"(203) Dia., Nickel Bronze			
A10	10"(254) Dia., Nickel Bronze			

	Options	
Suffix	Description	
-5	Sediment Bucket	
-0-	Vandal Proof	
-7	Trap Primer Tapping	Į
-8	Backwater valve (2, 3, 4 Uniy)	
-13	Galvanized Body	
-15	Strainer Extension (DD-50)	
-F4-50	4" Round Cast Iron Funnel	
-F4-1	4" Round Nickel Bronze Funnel	
-F6-1	6" Round Nickel Bronze Funnel	
-G-50	4x9" Oval Cast Iron Funnel	
-G-1	4x9" Oval Nickel Bronze Funnel	
-S0	Side Outlet	

	Optional Body Material	
Suffix	Description	
-60	PVC Body w/Socket Outlet (2, 3, 4" Only)	
-61	ABS Body w/Socket Outlet (2, 3, 4" Only)	





Strainer Size						
Str. Dia.	Min.	Max.	Load Rating	Free Area Sq. In.		
5"(127)	13/16"(21)	3 1/4"(83)	⁴MD	8		
6"(152)	7/8"(22)	3 3/8"(86)	"MD	9		
7"(178)	11/16"(17)	3 1/4"(83)	*MD	12		
8"(203)	7/8"(22)	3 1/4"(83)	*MD	18		
10"(254)	1 1/4"(32)	3 1/4"(83)	*MD	28		

#### NOTICE

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	Chart B							
Pipe Size	Std. No Hub	P Push On	T Female Thread	X Inside Caulk	60/61 PVC/ ABS			
2"(52)	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)							

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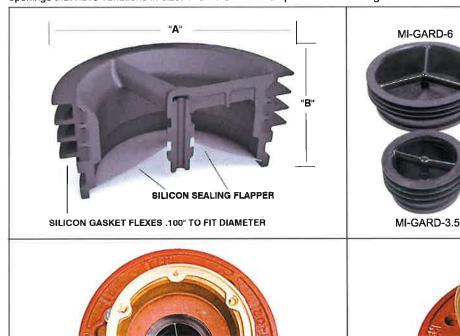
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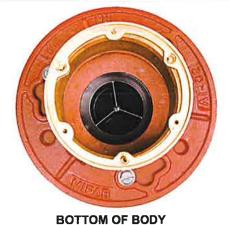
#### FLOOR DRAIN TRAP SEAL

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Function: Used in the outlet connections of floor drain bodies, or the inside of floor drain strainers to seal the opening to prevent odors, sewer gases, and insects from entering up through the floor drain grate. The MI-GARD®'s four flexible silicone sealing ribs ensure easy installation into openings that have variations in size. The MI-GARD® will open to allow drainage and close when there is no water flow.









MODEL NO.	"A" (PIPE SIZE)	"B" (HEIGHT)
○ MI-GARD-1.5	1-1/2" (38)	2" (51)
MI-GARD-2	2" (51)	2" (51)
○ MI-GARD-3	3" (76)	2" (51)
MI-GARD-3.5	3 1/2" (89)	2" (51)
○ MI-GARD-4	4" (102)	2" (51)
MI-GARD-6	6" (152)	2" (51)

MI-GARD® prevents the following from entering through the top of floor drains:

Odors and sewer gases
 Insects

Not intended to be used in lieu of a trap seal primer. 6" MI-GARD not IAPMO certified. Note:

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Floor Drain Trap Seals are in compliance with International Plumbing Code (I.P.C.)





MI-GARD-1.5

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Job Name: LR West HS	Page No:	
Section No:	Contractor: Comfort Systems USA	
Schedule No:	Purchase Order No:	

# FD-5

Job Name LR West HS	Contractor Comfort Systems USA
Job Location LR	Approval
Engineer Ragsdale	Contractor's P.O. No.
Approval	Representative Sanders Supply
FD-5	

# FD-100-A

### Floor Drain with Round Strainer

#### **Specification**

Watts FD-100-A epoxy coated cast iron floor drain with anchor flange, reversible clamping collar with primary and secondary weepholes, adjustable round heel proof nickel bronze strainer, and no hub (standard) outlet.

Pipe Sizing		
Suffix	Description	
2	2"(51) Pipe Size	
3	3"(76) Pipe Size	•
4	4"(102) Pipe Size	
6	6"(152) Pipe Size (NH Only)	

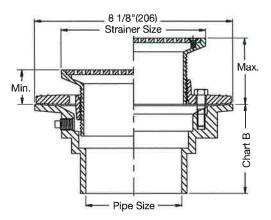
Outlet Type			
Suffix	Description		
NH	No Hub (MJ)		
Р	Push On	•	
	Threaded Outlet		
Χ	Inside Caulk		

Strainer		
Suffix	Description	
A5	5"(127) Dia., Niekel Bronze	0
A6	6"(127) Dia., Nickel Bronze	•
A7	711(179) Bia., Nickel Branze	
A8	8"(203) Dia., Nickel Bronze	
A10	10"(254) Dia., Nickel Bronze	

	Options	
Suffix	Description	
-5	Sediment Bucket	
-8-	Vandal Proof	
-7	Trap Primer Tapping	<b>V</b>
-8	backwater valve (2, 3, 4 Unity)	
-13	Galvanized Body	
-15	Strainer Extension (DD-50)	
-F4-50	4" Round Cast Iron Funnel	
-F4-1	4" Round Nickel Bronze Funnel	
-F6-1	6" Round Nickel Bronze Funnel	
-G-50	4x9" Oval Cast Iron Funnel	
-G-1	4x9" Oval Nickel Bronze Funnel	
-S0	Side Outlet	

Optional Body Material			
Suffix	Description		
-60	PVC Body w/Socket Outlet (2, 3, 4" Only)		
-61_	ABS Body w/Socket Outlet (2, 3, 4" Only)		





e Area
q. In.
в
9
12
18
28

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Chart B					
Pipe Size	Std. No Hub	P Push On	T Female Thread	X Inside Caulk	60/61 PVC/ ABS
2"(52)	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)				

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.



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Latin America: T: (52) 55-4122-0138 • Watts.com



#### **FLOOR DRAIN TRAP SEAL**

**Specification:** MIFAB® MI-GARD® Series inline floor drain trap seal with UV resistant ABS plastic frame, silicon rubber sealing flapper and four flexible sealing ribs. Tested and certified to the ASSE 1072 Standard and listed with IAPMO and I.P.C. Specify connection size (1 1/2", 2", 3", 3 1/2", 4" or 6"). 10 year warranty is included.

Function: Used in the outlet connections of floor drain bodies, or the inside of floor drain strainers to seal the opening to prevent odors, sewer gases, and insects from entering up through the floor drain grate. The MI-GARD®'s four flexible silicone sealing ribs ensure easy installation into openings that have variations in size. The MI-GARD® will open to allow drainage and close when there is no water flow.



MODEL NO.	"A" (PIPE SIZE)	"B" (HEIGHT)
MI-GARD-1.5	1-1/2" (38)	2" (51)
◯ MI-GARD-2	2" (51)	2" (51)
○ MI-GARD-3	3" (76)	2" (51)
MI-GARD-3.5	3 1/2" (89)	2" (51)
MI-GARD-4	4" (102)	2" (51)
MI-GARD-6	6" (152)	2" (51)

MI-GARD® prevents the following from entering through the top of floor drains:

Odors and sewer gases
 Insects

Not intended to be used in lieu of a trap seal primer. 6" MI-GARD not IAPMO certified. Note:

The MI-GARD-6 is designed in accordance with industry standards but is not listed. MI-GARD

Floor Drain Trap Seals are in compliance with International Plumbing Code (I.P.C.)





MI-GARD-1.5

CALIFORNIA PROPOSITION 65 WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.		
Job Name: LR West HS	Page No:	
Section No:	Contractor: Comfort Systems USA	
Schedule No:	Purchase Order No:	

# AWFD-1

#### 

# FD-1PR

### Floor Drain with Grate, Plug

### and Trap Primer Connection

#### **Specification**

Orion FD-1PR corrosion resistant floor drain manufactured from fire retardant polypropylene material conforming to ASTM D4101. 1/2" trap primer connection in lower body. Grate (load rated to 10,000 lbs.), plug, and cover manufactured from fiber-filled polypropylene for strength and durability.

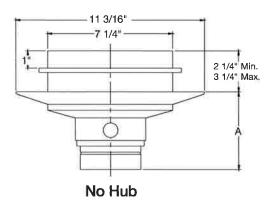
Note: Funnel replaces plug in FD-1PR grate.

#### **No Hub Connection**

		FRPP	Size (in.)	Α	9
٢		/10154	2	4.40	٦
ı	<u> </u>	710255	3	4.61	П
L		710359	4	4.66	Ц
		710444	6	3.58	

Γ	EDP	Options
l	808098	Flashing Clamp
Ī	808096	Funnel 4"x 9"
	808097	Sediment Bucket
	808099	Solid Covers
	902145	Vandal Proof





#### 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.

Orion product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Orion Technical Service. Orion reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Orion products previously or subsequently sold.

DRION®

A WATTS Brand

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Latin America: T: (52) 55-4122-0138 • OrionFittings.com

# **FS-1**

Job Name LR West HS	Contractor Comfort Systems USA
Job Location LR	Approval
Engineer Ragsdale	Contractor's P.O. No.
Approval	Representative Sanders Supply
FS-1	

# FS-710

# 8" Square x 6" Deep Sanitary Floor Sink

#### Specification

Watts FS-710 8"(203) square  $\times$  6"(152) deep sanitary floor sink with white acid resistant porcelain enamel coated interior, loose set porcelain enamel coated cast iron grate, polypropylene dome bottom strainer, and no hub (standard) outlet.

	Pipe Sizing	4
Suffix	Description	ш
2	2"(51) Pipe Size	
3	3"(76) Pipe Size	
4	4"(102) Pipe Size	

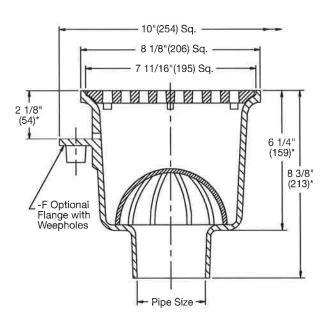
	Outlet Type	
Suffix	Description	
NH	No Hub (MJ)	
Р	Push-On	Z

	Options	
Suffix	Description	
-F	Flange with Weepholes	Ø
-FC	Flange w/Weepholes & Flashing Clamo	
-1	Nickel Bronze Top	Ø
-3	Stainless Him & Grate	Ш
-5	Sediment Bucket	
-6	Vandal Proof (-1 Only)	
-7	Trap Primer Tapping	
-9	Hinged Grate (-1 Only)	Ø
-21	Secondary Strainer	U
-33	Less Grate	
-150	1/2 Grate	
-175	3/4 Grate	
-F4-1	4" Round Nickel Bronze Funnel	
-F6-1	6" Round Nickel Bronze Funnel	
-G-1	4x9" Oval Nickel Bronze Funnel	

	e Area q. In.
Standard Grate	With -1/-3 Grate
16	19

# Please refer to watts.com for BAA information on specific models.





\*Add 5/8"(16) for -1 Nickel Bronze Top or -3 Stainless Steel Top

#### NOTICE

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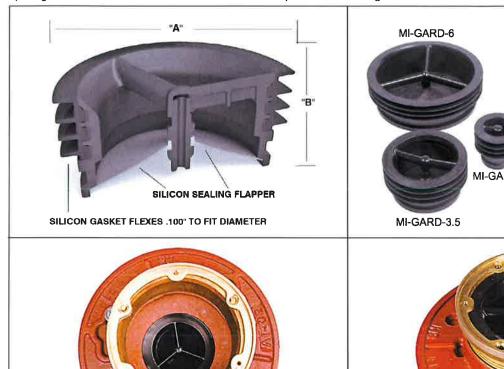




#### FLOOR DRAIN TRAP SEAL

**Specification:** MIFAB® MI-GARD® Series inline floor drain trap seal with UV resistant ABS plastic frame, silicon rubber sealing flapper and four flexible sealing ribs. Tested and certified to the ASSE 1072 Standard and listed with IAPMO and I.P.C. Specify connection size (1 1/2", 2", 3", 3 1/2", 4" or 6"). 10 year warranty is included.

Function: Used in the outlet connections of floor drain bodies, or the inside of floor drain strainers to seal the opening to prevent odors, sewer gases, and insects from entering up through the floor drain grate. The MI-GARD®'s four flexible silicone sealing ribs ensure easy installation into openings that have variations in size. The MI-GARD® will open to allow drainage and close when there is no water flow.







MODEL NO.	"A" (PIPE SIZE)	"B" (HEIGHT)
○ MI-GARD-1.5	1-1/2" (38)	2" (51)
○ MI-GARD-2	2" (51)	2" (51)
○ MI-GARD-3	3" (76)	2" (51)
MI-GARD-3.5	3 1/2" (89)	2" (51)
MI-GARD-4	4" (102)	2" (51)
MI-GARD-6	6" (152)	2" (51)

MI-GARD® prevents the following from entering through the top of floor drains:

**BOTTOM OF BODY** 

Odors and sewer gases
 Insects

Not intended to be used in lieu of a trap seal primer. 6" MI-GARD not IAPMO certified. Note:

The MI-GARD-6 is designed in accordance with industry standards but is not listed. MI-GARD

Floor Drain Trap Seals are in compliance with International Plumbing Code (I.P.C.)





MI-GARD-1.5

CALIFORNIA PROPOSITION 65 WARNING. This product contains chemicals known	to the State of California to cause cancer and birth defects or other reproductive harm.
Job Name: LR West HS	Page No:
Section No:	Contractor: Comfort Systems USA
Schedule No:	Purchase Order No:

# **FS-2**

Job Name LR West HS	Contractor Comfort Systems USA
Job Location LR	Approval
Engineer Ragsdale	Contractor's P.O. No.
Approval	Representative Sanders Supply
FS-2	

# **FS-710**

# 8" Square x 6" Deep Sanitary Floor Sink

#### Specification

Watts FS-710 8"(203) square  $\times$  6"(152) deep sanitary floor sink with white acid resistant porcelain enamel coated interior, loose set porcelain enamel coated cast iron grate, polypropylene dome bottom strainer, and no hub (standard) outlet.

	Pipe Sizing	П
Suffix	Description	
2	2"(51) Pipe Size	
3	3"(76) Pipe Size	
4	4"(102) Pipe Size	

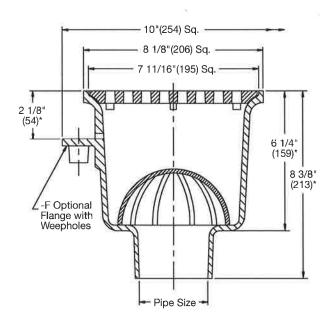
	Outlet Type	
Suffix	Description	
NH	No Hub (MJ)	
р	Push-On	Z

Options		
Suffix	Description	
-F	Flange with Weepholes	Ø
-FC	Flange w/Weepholes & Flashing Clamp	
-1	Nickel Bronze Top	Z
-3	Stainless Him & Grate	
-5	Sediment Bucket	
-6	Vandal Proof (-1 Only)	
:=7	Trap Primer Tapping	
-9	Hinged Grate (-1 Only)	
-21	Secondary Strainer	
-33	Less Grate	
-150	1/2 Grate	
-175	3/4 Grate	Ø
-F4-1	4" Hound Nickel Bronze Funnel	U
-F6-1	6" Round Nickel Bronze Funnel	
-G-1	4x9" Oval Nickel Bronze Funnel	

Free Area Sq. In.		
Standard Grate	With -1/-3 Grate	
16	19	

# Please refer to watts.com for BAA information on specific models.





\*Add 5/8"(16) for -1 Nickel Bronze Top or -3 Stainless Steel Top

#### NOTICE

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

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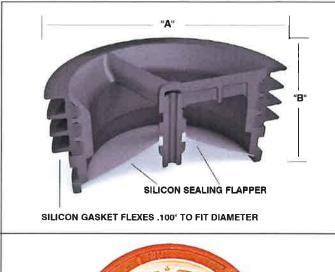




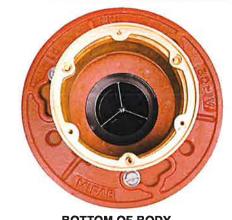
#### FLOOR DRAIN TRAP SEAL

**Specification:** MIFAB® MI-GARD® Series inline floor drain trap seal with UV resistant ABS plastic frame, silicon rubber sealing flapper and four flexible sealing ribs. Tested and certified to the ASSE 1072 Standard and listed with IAPMO and I.P.C. Specify connection size (1 1/2", 2", 3", 3 1/2", 4" or 6"). 10 year warranty is included.

Function: Used in the outlet connections of floor drain bodies, or the inside of floor drain strainers to seal the opening to prevent odors, sewer gases, and insects from entering up through the floor drain grate. The MI-GARD®'s four flexible silicone sealing ribs ensure easy installation into openings that have variations in size. The MI-GARD® will open to allow drainage and close when there is no water flow.









BUI	I CIVI C	r bQD1	

MODEL NO.	"A" (PIPE SIZE)	"B" (HEIGHT)
MI-GARD-1.5	1-1/2" (38)	2" (51)
MI-GARD-2	2" (51)	2" (51)
MI-GARD-3	3" (76)	2" (51)
MI-GARD-3.5	3 1/2" (89)	2" (51)
MI-GARD-4	4" (102)	2" (51)
MI-GARD-6	6" (152)	2" (51)

MI-GARD® prevents the following from entering through the top of floor drains:

Odors and sewer gases
 Insects

Not intended to be used in lieu of a trap seal primer. 6" MI-GARD not IAPMO certified. Note:

The MI-GARD-6 is designed in accordance with industry standards but is not listed. MI-GARD

Floor Drain Trap Seals are in compliance with International Plumbing Code (I.P.C.)





MI-GARD-1.5

CALIFORNIA PROPOSITION 65 WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.		
Job Name: LR West HS	Page No:	
Section No:	Contractor: Comfort Systems USA	
Schedule No:	Purchase Order No:	

# FS-3

Job Name LR West HS	Contractor Comfort Systems USA
Job Location LR	Approval
Engineer Ragsdale	Contractor's P.O. No.
Approval	Representative Sanders Supply

# **FS-740**

# 12" Square x 8" Deep Sanitary Floor Sink

#### Specification

Watts FS-740 12" square x 8"deep sanitary floor sink with white acid resistant porcelain enamel coated interior, loose set porcelain enamel coated cast iron grate, polypropylene dome bottom strainer, and no hub (standard) outlet.

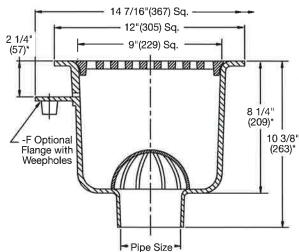
Call customer service at 1 (800) 338-2581 if you need assistance with technical details.

Pipe Sizing		
Suffix	Description	
2	2"(51) Pipe Size	
3	3"(76) Pipe Size	
4	4"(102) Pipe Size	

Outlet Type		
Suffix	Description	
NH	No Hub (MJ)	I.C.
Р	Push-On	•

Options			
Suffix	Description		4
-F	Flange with Weepholes		
-FC	Flange w/Weepholes & Flashing Clamp		
EG DG GG	Stainless Steel Dome Strainer		-
:=1	Nickle Bronze Top	<b>7</b>	ı
-3	Stainless Steel Rim & Grate		4
-5	Sediment Bucket		
-6	Vandal Proof (-1, -3 Only)		
-7	Trap Primer Tapping		
-9	Hinged Grate (-1 Only)		ı
-21	Secondary Strainer		ŀ
-33	Less Grate		۱
-128	Grate w/2 1/2"(64)		
-150	1/2 Grate	7	
-1/5	3/4 Grate		4
-F4-1	4" Round Nickel Bronze Funnel		
-F6-1	6" Round Nickel Bronze Funnel		
-G-1	4 x 9" Oval Nickel Bronze Funnel		





\*Add 5/8"(16) for -1 Nickel Bronze Top or -3 Stainless Steel Top

Free Area Sq. In.	
Standard Grate	With -1/-3 Rim & Grate
31	47

#### 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.

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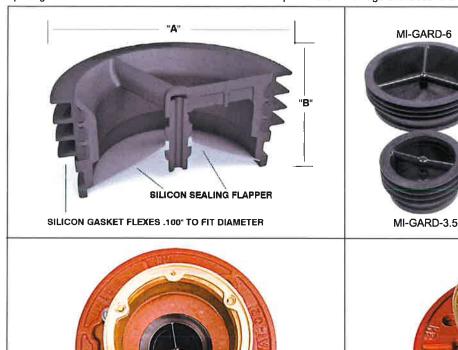
ES-WD-FS-740 2332 © 2023 Watts



#### FLOOR DRAIN TRAP SEAL

**Specification:** MIFAB® MI-GARD® Series inline floor drain trap seal with UV resistant ABS plastic frame, silicon rubber sealing flapper and four flexible sealing ribs. Tested and certified to the ASSE 1072 Standard and listed with IAPMO and I.P.C. Specify connection size (1 1/2", 2", 3", 3 1/2", 4" or 6"). 10 year warranty is included.

Function: Used in the outlet connections of floor drain bodies, or the inside of floor drain strainers to seal the opening to prevent odors, sewer gases, and insects from entering up through the floor drain grate. The MI-GARD®'s four flexible silicone sealing ribs ensure easy installation into openings that have variations in size. The MI-GARD® will open to allow drainage and close when there is no water flow.











**TOP OF STRAINER** 

MODEL NO.	"A" (PIPE SIZE)	"B" (HEIGHT)
MI-GARD-1.5	1-1/2" (38)	2" (51)
MI-GARD-2	2" (51)	2" (51)
○ MI-GARD-3	3" (76)	2" (51)
MI-GARD-3.5	3 1/2" (89)	2" (51)
MI-GARD-4	4" (102)	2" (51)
MI-GARD-6	6" (152)	2" (51)

MI-GARD® prevents the following from entering through the top of floor drains:

Odors and sewer gases Insects

Not intended to be used in lieu of a trap seal primer. 6" MI-GARD not IAPMO certified. Note:

The MI-GARD-6 is designed in accordance with industry standards but is not listed. MI-GARD

Floor Drain Trap Seals are in compliance with International Plumbing Code (I.P.C.)





MI-GARD-1.5

CALIFORNIA PROPOSITION 65 WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.	
Job Name: LR West HS	Page No:
Section No:	Contractor: Comfort Systems USA
Schedule No:	Purchase Order No:

# FS-4

Job Name LR West HS	Contractor Comfort Systems USA
Job Location LR	Approval
Engineer Ragsdale	Contractor's P.O. No.
Approval	Representative Sanders Supply

# FS-740 12" Square x 8" Deep Sanitary Floor Sink

#### **Specification**

Watts FS-740 12" square x 8"deep sanitary floor sink with white acid resistant porcelain enamel coated interior, loose set porcelain enamel coated cast iron grate, polypropylene dome bottom strainer, and no hub (standard) outlet.

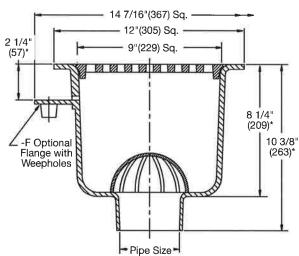
Call customer service at 1 (800) 338-2581 if you need assistance with technical details.

Pipe Sizing		
Suffix	Description	
2	2"(51) Pipe Size	
3	3"(76) Pipe Size	
4	4"(102) Pipe Size	

Outlet Type		
Suffix	Description	
NH	No Hub (MJ)	
Р	Push-On	•

Options		
Suffix Description		
-F	Flange with Weepholes	7
-FC	Flange w/Weepholes & Flashing Clamp	
EG-DG-GG	Stainless Steel Dome Strainer	
<u>-1</u>	Nickle Bronze Top	<b>7</b>
-3	Stainless Steel Rim & Grate	
-5	Sediment Bucket	
-6	Vandal Proof (-1, -3 Only)	
-7	Trap Primer Tapping	
-9	Hinged Grate (-1 Only)	
-21	Secondary Strainer	
-33	Less Grate	
-128	Grate w/2 1/2"(64) Center Opening	
-150	1/2 Grate	
-175	3/4 Grate	7
-1-4-1	4 Hound Nickel Bronze Funnei	
-F6-1	6" Round Nickel Bronze Funnel	
-G-1	4 x 9" Oval Nickel Bronze Funnel	





\*Add 5/8"(16) for -1 Nickel Bronze Top or -3 Stainless Steel Top

Free Area Sq. In.	
Standard With -1/-3 Grate Rim & Grate	
31	47

#### 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.

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Latin America: T: (52) 55-4122-0138 • Watts.com

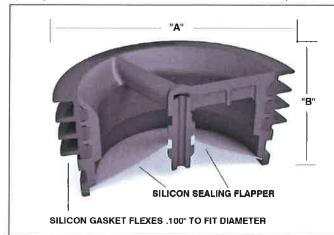
ES-WD-FS-740 2332



#### FLOOR DRAIN TRAP SEAL

Specification: MIFAB® MI-GARD® Series inline floor drain trap seal with UV resistant ABS plastic frame, silicon rubber sealing flapper and four flexible sealing ribs. Tested and certified to the ASSE 1072 Standard and listed with IAPMO and I.P.C. Specify connection size (1 1/2", 2", 3", 3 1/2", 4" or 6"). 10 year warranty is included.

Function: Used in the outlet connections of floor drain bodies, or the inside of floor drain strainers to seal the opening to prevent odors, sewer gases, and insects from entering up through the floor drain grate. The MI-GARD®'s four flexible silicone sealing ribs ensure easy installation into openings that have variations in size. The MI-GARD® will open to allow drainage and close when there is no water flow.









**BOTTOM OF BODY** 

**TOP OF STRAINER** 

MODEL NO.	"A" (PIPE SIZE)	"B" (HEIGHT)
◯ MI-GARD-1.5	1-1/2" (38)	2" (51)
MI-GARD-2	2" (51)	2" (51)
MI-GARD-3	3" (76)	2" (51)
MI-GARD-3.5	3 1/2" (89)	2" (51)
MI-GARD-4	4" (102)	2" (51)
MI-GARD-6	6" (152)	2" (51)

MI-GARD® prevents the following from entering through the top of floor drains:

 Odors and sewer gases Insects

Schedule No: =

Not intended to be used in lieu of a trap seal primer. 6" MI-GARD not IAPMO certified. Note:

The MI-GARD-6 is designed in accordance with industry standards but is not listed. MI-GARD

Floor Drain Trap Seals are in compliance with International Plumbing Code (I.P.C.)





CALIFORNIA PROPOSITION 65 WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Job Name: LR West HS Page No: \_\_ Section No: \_\_

Contractor: Comfort Systems USA

Purchase Order No:

MIFAB® reserves the right to make changes in material and design without formal notice and obligation.

USA: 1-800-465-2736 www.mifab.com CAN: 1-800-387-3880

# RD-1

Job Name LR West HS	Contractor Comfort Systems USA
Job Location LR	Approval
Engineer Ragsdale	Contractor's P.O. No.
Approval	Representative Sanders Supply
RD-1	

# **RD-300-F**

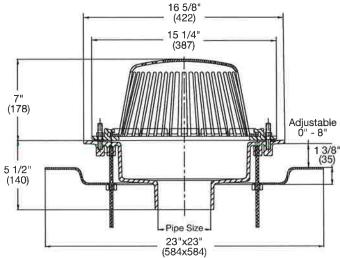
## Roof Drain with Deck Flange/ Adjustable Extension

#### Specification

Watts RD-300-F epoxy coated cast iron roof drain with flashing clamp with integral gravel stop, heavy 10 ga. zinc plated steel deck flange and adjustable extension, self-locking polyethylene dome (standard), and no hub (standard) outlet.

Suffix	Pipe Sizing Description	
2	2"(51) Pipe Size (NH Only)	
3	3"(76) Pipe Size	
4	4"(102) Pipe Size	
5	5"(127) Pipe Size (NH Only)	
6	6"(152) Pipe Size	
8	8"(203) Pipe Size	
10	10"(254) Pipe Size (NH Only)	





	C. Wi	Outlet Type Description	
K	NH	No Hub (MJ)	<b>∠</b>
٦	P	Push On	
	Х	Inside Caulk	

Suffix	Options Description	
-13	Galvanized Body & Clamp	
-85	IRMA Perf. SS Extension	
-AC	Compression Seal Extension	
-AE	Threaded Extension	
-D	Underdeck Clamp	V
-GSS	Stainless Steel Ballast Guard	
-K	Ductile Iron Dome	Z
-K13	Galvanized Dome	
-K40	Ductile Iron Low Dome (4" High)	
-K80	Aluminum Dome	
-K81	Rough Bronze Dome	
-K83	SS Mesh Covered Dome	
-L	Vandal Proof Dome	
-R	2" External Water Dam	
-W	Adj. Internal Water Dam	

Deck Ope	ening 18 1/2"(470))
Free Area	
Sq. In.	
107	I

#### NOTICE

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# ERD-1

Job Name LR West HS	
Job Location LR	
Engineer Ragsdale	
Approval	

# Contractor Comfort Systems USA Approval Contractor's P.O. No. Representative Sanders Supply

# **RD-300-W**

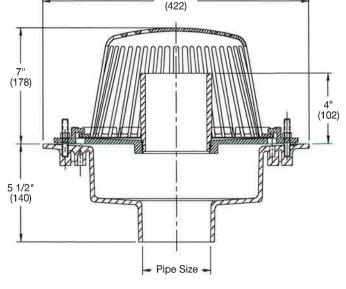
# Overflow Roof Drain with 4" Internal Water Dam

#### **Specification**

Watts RD-300-W epoxy coated cast iron overflow roof drain with 4"(102) high internal water dam, self-locking polyethylene dome (standard), and no hub (standard) outlet.

Suffix	Pipe Sizing Description	
2	2"(51) Pipe Size (NH Only)	
3	3"(76) Pipe Size	
4	4"(102) Pipe Size	
5	5"(127) Pipe Size (NH Only)	
6	6"(152) Pipe Size	
В	8"(203) Pipe Size	
10	10"(254) Pipe Size (NH Only)	





	Cuffix	Outlet Type	
K	NH	No Hub (MJ)	<b>V</b>
	P	Push On	
	х	Inside Caulk	

Suffix	Options Description	
-13	Galvanized Body & Clamp	
-85	IRMA Perf. SS Extension	
-AC	Compression Seal Extension	
-AE	Threaded Extension	
-B	Sump Receiver	
-D	Underdeck Clamp	$\mathbf{Z}$
-F	Deck Flange/Adj. Extension	
.RSS	Stainless Stool Ballast Guard	
-K	Ductile Iron Dome	Ø
-K13	Galvanized Dome	ш
-K40	Ductile Iron Low Dome (4" High)	
-K80	Aluminum Dome	
-K83	SS Mesh Covered Dome	
-L	Vandal Proof Dome	

Deck Opening 14 1/2"(368) with Sump Receiver 18"(457)					
Free Area	í				
Sq. In.					

137

#### NOTICE

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# EDN-1

Job Name LR West HS	Contractor Comfort Systems USA
Job Location LR	Approval
Engineer Ragsdale	Contractor's P.O. No.
Approval	Representative Sanders Supply

### **RD-940**

### **Downspout Nozzle**

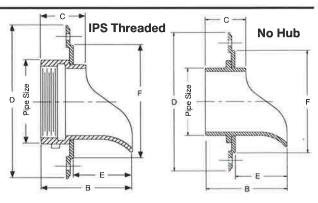
### **Specification**

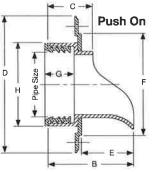
Watts RD-940 cast nickel bronze downspout nozzle with anchor flange, countersunk mounting holes, and IPS threaded (standard), no hub, or push-on connection.

	Options	
Suffix	Description	
-83	Stainless Steel Bird Screen	Z
-NH	No Hub	
-P	Push-On Connection (3, 4, 6, 8" Only) No Add	



IPS Threaded Connection						
Model	Pipe Size	В	С	D	E	F
RD-942	2"(51	5 1/4"(133)	2 1/4"(57)	6 3/4"(171)	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"(203)	6"(152)	3"(76)	12 1/2"(318)	4"(102)	11"(279)





### **No Hub Connection**

Model	Pipe Size	В	С	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"(127)	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"(203)	6"(152)	3"(76)	12 1/2"(318)	4"(102)	11"(279)
RD-9410-NH	10"(250)	5 3/4"(146)	3"(76)	15 1/4"(387)	3 3/4"(95)	13 1/16"(332)
HD-9412-NH	12"(305)	6*(152)	3 1/4 (83)	17 1/4 (438)	3 3/4 (95)	15 1/16 (383)

#### NOTICE

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#### **Push-On Connection**

usii Oi	1 COITICGE	1011						
Model	Pipe Size	В	С	D	Ē	F	G	H
RD-943P	3"(76)	5 3/4"(146)	3"(76)	8 1/4"(210)	3 1/2"(89)	6"(152)	1 3/4"(44)	4 3/4"(121)
RD-944-P	4"(102)	5 3/4"(146)	3"(76)	9 1/8"(232)	3 1/2"(89)	6 3/4"(171)	1 3/4"(44)	5 3/4"(146)
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)	34"(864)	10 3/4"(273)	2 1/2"(63)	10"(254)

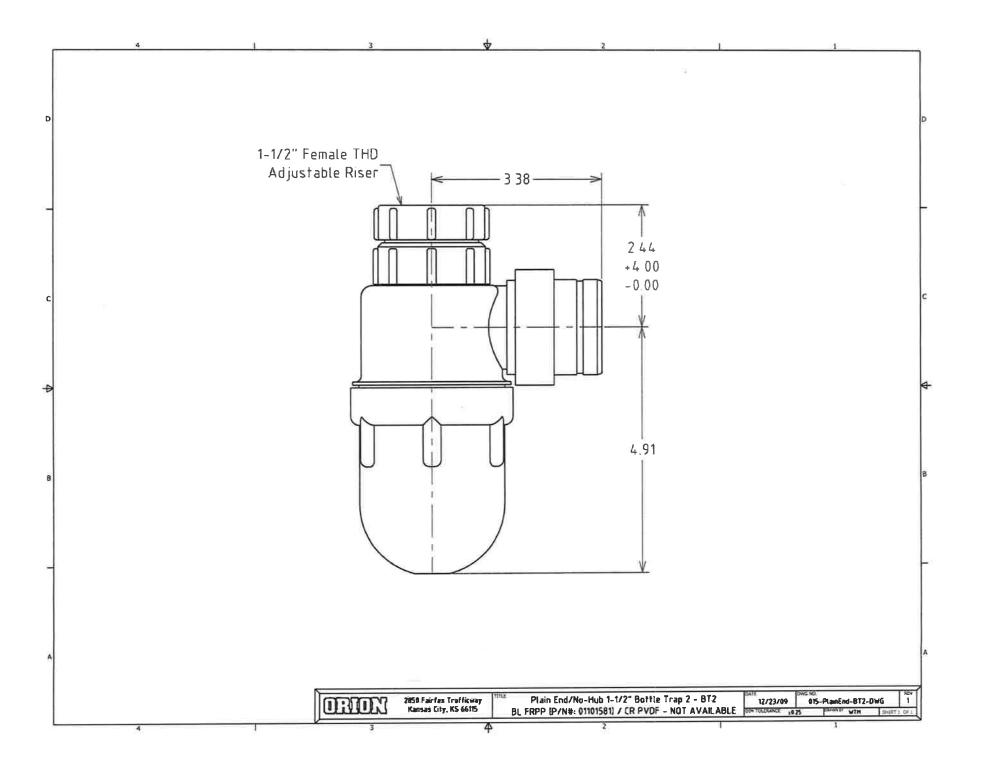
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**USA:** T: (800) 338-2581 • F: (828) 248-3929 • Watts.com **Canada:** T: (888) 208-8927 • F: (905) 481-2316 • Watts.ca **Latin America:** T: (52) 55-4122-0138 • Watts.com

ES-WD-RD-940 2142

# LS-1,2,3,CS-1





### McGuire Manufacturing Co., Inc.

60 Grandview Court P.O. Box 746 • Cheshire, CT 06410 203-699-1801 • Fax: 203-699-1813 www.mcguiremfg.com

### PRODUCT SPECIFICATION

Part No. LF2165. LF2165LK.

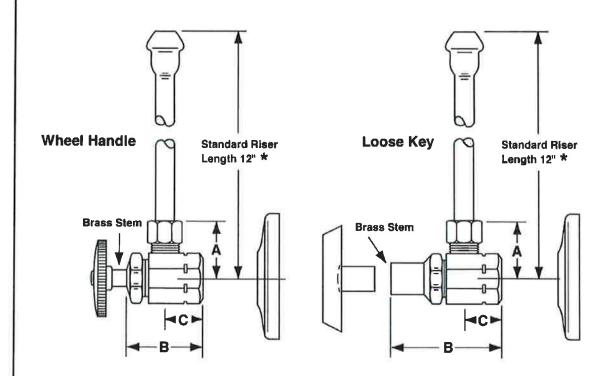
LF2167, LF2167LK

Lavatory Supply

1/2" I.P.S. x O.D.

Job Name:

**Submittal Number:** 



	NO.	DESCRIPTION	ROUGHIN	ING MEASUREMENTS		
	NO.	DESCRIPTION	A	В	С	
	LF2165	1/2" I.P.S. x 3/8" O.D.	1-3/16"	1-1/2"	3/4"	
$\geq$	LF2165LK	1/2" I.P.S. x 3/8" O.D.	1-3/16"	2-1/4"	3/4"	
	LF2167	1/2" I.P.S. x 1/2" O.D.	1-3/16"	1-1/2"	3/4"	
	LF2167LK	1/2" I.P.S. x 1/2" O.D.	1-3/16"	2-1/4"	3/4"	



LK designates Loose Key

\* See options and accessories section for details on product variations.

### **Specifications:**

Supply kit shall include low lead chrome plated brass supply stop valves with full turn brass stem, no plastic, (12, 15, 20) inch chrome plated risers and (shallow, deep, bell) (steel, brass) or (forged brass with set screw) flange. Inlet shall be (3/8, 1/2) inch (IPS, compression). Outlet shall be (3/8, 1/2) inch compression. Supply kit shall be McGuire \_\_\_\_\_\_. Supply kit shall be low lead certified by recognized authority and bear manufacturer and testing mark.

## **AAV**



#### **SPECIFICATIONS**

The purpose of an Air Admittance Valve is to provide a method of allowing air to enter the plumbing drainage system without the use of a vent extended to open air and to prevent sewer gases from escaping into a building. An Air Admittance Valve is a one way valve designed to allow air to enter the plumbing drainage system when negative pressures develop in the piping system. The device shall close by gravity and seal the vent terminal at zero differential pressure (no flow conditions) and under positive internal pressures.

### **APPROVALS & LISTINGS**

ASSE 1050 & 1051 ICC ESR-1664 NSF Standard 14 IAPMO – Classified Mark ASTM D 2665/D 2661

International Plumbing Code (IPC) 2003
International Residential Code (IRC) 2003









# Job Name Location LR Engineer Ragsdale Contractor Comfort Systems USA P0 # Tag AAV Representative Sanders Supply



### **FEATURES & MATERIALS**

Tension Membrane	Silicone
Sweet Spot™	Sweet Spot™ technology opens at -0.01 psi and seals at 0 psi and above
Screening	Screening on air inlets to guard the seal
Grip	Protective sleeve provides grip for installation and keeps valve free from debris
Tested	100% functionally tested at 1/4" $\rm H_2O$ and 30" $\rm H_2O$ ensuring trouble free performance
Warranty	Limited Warranty

### INSTALLATION

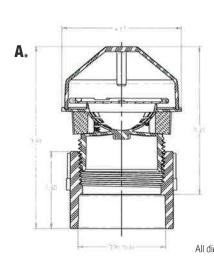
Read installation instructions prior to use of this product. Always consult local plumbing codes prior to installing an AAV. Individual, branch and circuit vents are permitted to terminate with a connection to a Sure-Vent® AAV. The Sure-Vent® AAV will only vent fixtures that are on the same floor and connect to a horizontal branch drain. The horizontal branch drain shall connect to the drainage stack a maximum of four branch intervals from the top of the stack. The Sure-Vent® AAV should be located within the maximum developed length permitted for the vent. The Sure-Vent® AAV must be located a minimum of 4 inches above the horizontal branch drain and 6 inches above any insulation material and within 15 degrees of vertical. Every structure in which plumbing is installed shall have at least one primary stack vent. The stack vent should run as directly as possible from the building drain through to the open air.

Apply approved pipe joint compound or thread seal tape to the male threads of the valve. Remove protective sleeve after installation.

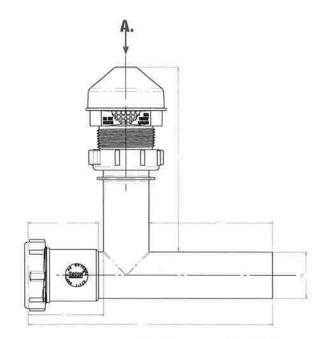


### AIR ADMITTANCE VALVES TECHNICAL SPECIFICATION

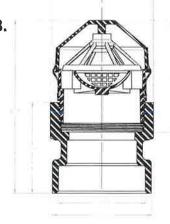
	DFU Rating	Connection	Membrane	Adapter
Α	20 Branch, 8 Stack	1.5" PVC NPT Threads	Silicone	1.5" PVC
В	160 Branch, 24 Stack	2" PVC NPT Threads	Silicone	1.5" x 2" PVC or ABS
С	160 Branch, 72 Stack	2" PVC NPT Threads	Silicone	2" x 3" PVC or ABS
D	160 Branch, 500 Stack	3" PVC NPT Threads	Silicone	3" x 4" PVC or ABS



All dimensions in inches

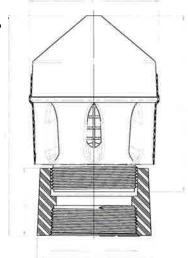




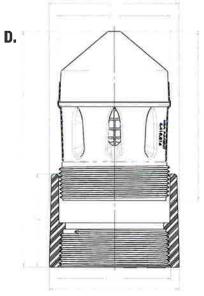


All dimensions in inches





All dimensions in inches



All dimensions in inches

Access BIM/Revit content through www.oatey.com

### **PRODUCT SELECTOR**

20 DDANCH OCTACH	DELICHDE VENT AL	R ADMITTANCE VALVE	WITH COURDING A	O ADADTED
20 BRANCH, 8 STACK	DEU SURF-VENT AU	K AHMIH IANCE VALVE	WITH SCHEDULE 4	MANAPIFR

ZU DI	TANGH, O STACK DI	O SUNE-VENT AIR ADMITTANGE VALVE WITH SCHEDULE 40 ADAPTER	
$\checkmark$	<b>Product Number</b>	Description	Pack
	39228	20 BRANCH, 8 STACK DFU SURE-VENT, 1.5 IN, W/PVC SCHED 40 ADAPTER	6
	39229	20 BRANCH, 8 STACK DFU SURE-VENT, 1.5 IN, W/ABS SCHED 40 ADAPTER	6
	39005	20 BRANCH, 8 STACK DFU SURE-VENT, 1.5 IN PVC SCHED 40 ADAPTER	50
	39227	20 BRANCH, 8 STACK DFU SURE-VENT, 1.5 IN W/ABS SCHED 40 ADAPTER	6
	39250	20 BRANCH, 8 STACK DFU SURE-VENT, 1.5 IN, 90 DEG PVC SCHED 40 ADAPTER	50
	39251	20 BRANCH, 8 STACK DFU SURE-VENT, 1.5 IN, 90 DEG ABS SCHED 40 ADAPTER	6
	39252	20 BRANCH, 8 STACK DFU SURE-VENT, 1.5 IN, 90 DEG PVC SCHED 40 ADAPTER	6
	39253	20 BRANCH, 8 STACK DFU SURE-VENT, 1.5 IN, W/90 DEG ABS SCHED 40 ADAPTER	6
	39254	20 BRANCH, 8 STACK DFU SURE-VENT, 1.5 IN, STRAIGHT PVC SCHED 40 ADAPTER	50
	39256	20 BRANCH, 8 STACK DFU SURE-VENT, 1.5 IN, STRAIGHT ABS SCHED 40 ADAPTER	50
	39255	20 BRANCH, 8 STACK DFU SURE-VENT, 1.5 IN, STRAIGHT PVC SCHED 40 ADAPTER	6
	39020	20 BRANCH, 8 STACK DFU SURE-VENT, 1.5 IN, NO ADAPTER	6
20 BF	RANCH, 8 STACK DE	U SURE-VENT AIR ADMITTANCE VALVE WITH TUBULAR ADAPTER	
$\checkmark$	<b>Product Number</b>	Description	Pack

### 2

$\checkmark$	<b>Product Number</b>	Description	Pack
	39225	20 BRANCH, 8 STACK DFU SURE-VENT, 1.5 IN WHITE TUBULAR ADAPTER	6
	39226	20 BRANCH, 8 STACK DFU SURE-VENT, 1.5 IN BLACK TUBULAR ADAPTER	6
	39239	20 BRANCH, 8 STACK DFU SURE-VENT, 1.5 IN, INSTALLATION PACK W/TUBULAR ADAPTER	6
	39020	20 BRANCH, 8 STACK DFU SURE-VENT, 1.5 IN, NO ADAPTER	50
	392393	20 BRANCH, 8 STACK DFU SURE-VENT, 1.5 IN, INSTALLATION PACK- 3 PACK	6
	39245	20 BRANCH, 8 STACK DFU SURE-VENT, 1.5 IN, TRAP PACK	20



### **PRODUCT SELECTOR**

### 160 BRANCH, 24 STACK DFU SURE-VENT AIR ADMITTANCE VALVE WITH SCHEDULE 40 ADAPTER

	<b>√</b> r	Product Number	Beceription	Pack
-	$\geq$	39016	160 BRANCH, 24 STACK DFU SURE-VENT, 1.5 X 2 IN PVC SCHED 40 ADAPTER	6
	l.	39018	160 BRANCH, 24 STACK DFU SURE-VENT, 1.5 X 2 IN ABS SCHED 40 ADAPTER	6
		39017	160 BRANCH, 24 STACK DFU SURE-VENT, 1.5 X 2 IN PVC SCHED 40 ADAPTER	50
		39019	160 BRANCH, 24 STACK DFU SURE-VENT, 1.5 X 2 IN ABS SCHED 40 ADAPTER	50
		39238	160 BRANCH, 24 STACK DFU SURE-VENT, 1.5 IN W/MECHANICAL ADAPTER	12
		39018C	160 BRANCH, 24 STACK DFU SURE-VENT, 1.5-2 IN ABS CANADA	6
	160 B	RANCH, 72 STACK	DFU SURE-VENT AIR ADMITTANCE VALVE WITH SCHEDULE 40 ADAPTER	
	$\checkmark$	<b>Product Number</b>	Description	Pack
		39220	160 BRANCH, 72 STACK DFU SURE-VENT, 2 X 3 IN PVC SCHED 40 ADAPTER	6
		39221	160 BRANCH, 72 STACK DFU SURE-VENT, 2 X 3 IN ABS SCHED 40 ADAPTER	6
	160 B	RANCH, 500 STACE	OFU SURE-VENT AIR ADMITTANCE VALVE WITH SCHEDULE 40 ADAPTER	
	$\checkmark$	<b>Product Number</b>	Description	Pack
		39223	160 BRANCH, 500 STACK DFU SURE-VENT, 3 X 4 IN PVC SCHED 40 ADAPTER	6
		39224	160 BRANCH, 500 STACK DFU SURE-VENT, 3 X 4 IN ABS SCHED 40 ADAPTER	6

Data is subject to manufacturing tolerances.

# DT-1

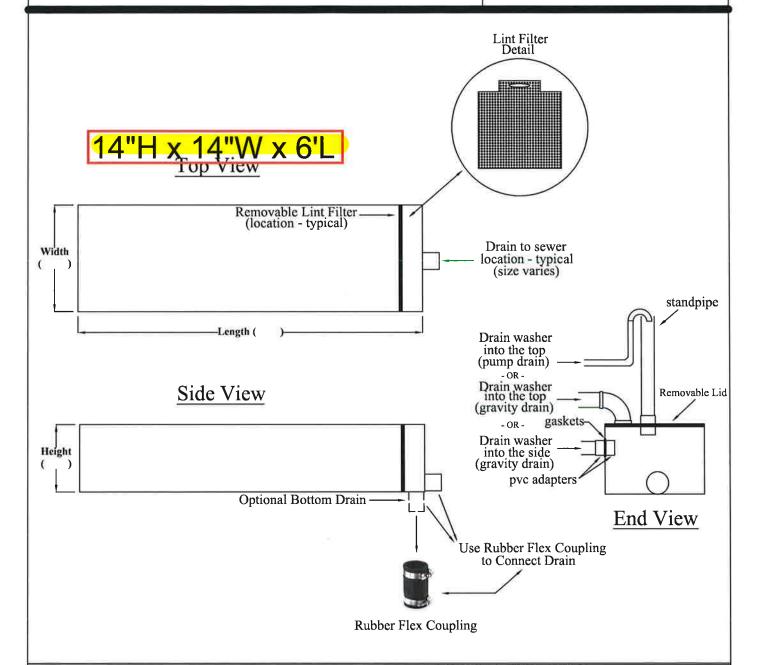
## Since 1957

### H-M COMPANY

2305 GILBERT AVENUE CINCINNATI, OHIO 45206 PHONE: (800) 365-1900 FAX: (513) 281-0572 WWW.DRAINTROUGHS.COM

### SUBMITTAL SHEET

DRAIN TROUGH







### ENGINEERING DATA

COMMERCIAL GRADE

BODY MATERIAL: 1/4" POLYPROPYLENE

LID MATERIAL: 3/8" POLYPROPYLENE

LINT FILTER MATERIAL: 1/4" PVC

LINT FILTER HOLES: 3/8"

CHEMICAL RESISTANT

MAXIMUM WATER TEMPERATURE: 165 DEGREES

LID ATTACHED WITH STAINLESS STEEL SCREWS

OPTIONAL SECOND FILTER CAN BE INSTALLED

CAN MANUFACTURE ANY SIZE NEEDED

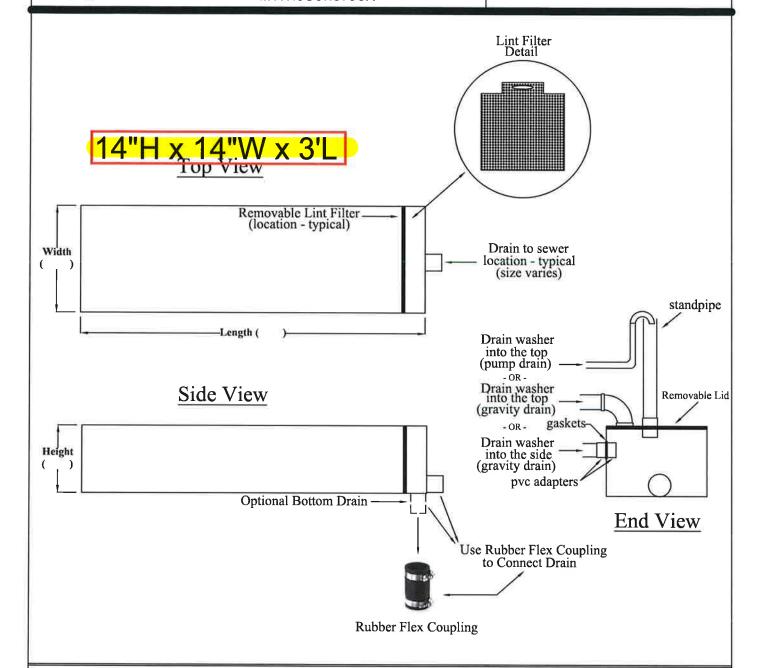
# **DT-2**

## Since 1957

### H-M COMPANY

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DRAIN TROUGH







ENGINEERING DATA

COMMERCIAL GRADE

BODY MATERIAL: 1/4" POLYPROPYLENE

LID MATERIAL: 3/8" POLYPROPYLENE

LINT FILTER MATERIAL: 1/4" PVC

LINT FILTER HOLES: 3/8"

CHEMICAL RESISTANT

MAXIMUM WATER TEMPERATURE: 165 DEGREES

LID ATTACHED WITH STAINLESS STEEL SCREWS

OPTIONAL SECOND FILTER CAN BE INSTALLED

CAN MANUFACTURE ANY SIZE NEEDED

# WCO

Job Name LR West HS	Contractor Comfort Systems USA
Job Location LR	Approval
Engineer Ragsdale	Contractor's P.O. No.
Approval	Representative Sanders Supply
_ WCO	

### CO-460-RD

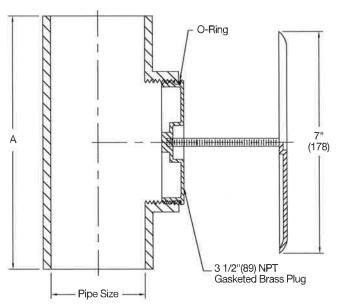
### Stack Cleanout with Brass Plug & Stainless Steel Cover

### Specification

Watts CO-460-RD cast iron stack cleanout with gasketed brass countersunk plug, stainless steel access cover, vandal proof stainless steel screw, and no hub connections.

PIPE SIZE	"A" HEIGHT
2"(51)	6 1/4"(159)
3"(76)	7 3/4"(197)
4"(102)	9"(229)





Please refer to watts.com for BAA information on specific models.

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ES-WD-CO-460-RD 2138

# **FCO**

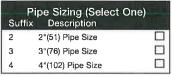
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Job Name LR West HS	Contractor Comfort Systems USA
Job Location LR	Approval
Engineer Ragsdale	Contractor's P.O. No.
Approval	Representative Sanders Supply
FCO	

### CO-200-R

### Floor Cleanout with Round Top

### Specification

Watts CO-200-R epoxy coated cast iron floor cleanout with 5"(127) round adjustable gasketed nickel bronze top, removable gas tight gasketed brass cleanout plug, and no hub (standard) outlet.

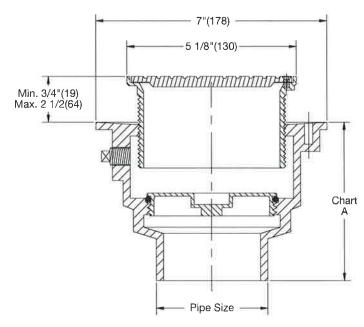


O Suffix	utlet Type (Select One) Description	
NH	No Hub (MJ)	
Р	Push On	V
Х	Inside Caulk	

Suffix	Options (Select One)  Description	
-C	Membrane Clamp	
-6	Vandal Proof	
-13	Galvanized Body	
-CF	Carpet Clamping Flange	
-SO	Side Outlet	

Optional Body Material (NH Only) Suffix Description		
-60	PVC Body w/Poly Plug	
-61	ABS Body w/Poly Plug	





#### Chart A

Pipe Size	NH	Push-On	PVC/ABS
2"(51)	4 3/4"(121)	5 1/2"(140)	4"(102)
3"(76)	4 3/4"(121)	5 1/2"(140)	4*(102
4"(102)	4 3/4"(121)	5 1/2"(140)	4"(102)

#### NOTICE

The load classifications are in accordance with the American National Standards ASME A112.36.2M-91(R2012) ASME Ratings are as follows:

MD - Safe Live Load 2000-4999 lbs. (900-2250 kg) The above categories are given as a guide only.

Please consult factory.

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# COTG

Job Name LR West HS	Contractor Comfort Systems USA
Job Location LR	
Engineer Ragsdale	Contractor's P.O. No.
Approval	Representative Sanders Supply
COTG	

### CO-200-RX-4

### Floor Cleanout with Ductile Iron Top

### Specification

Watts Drainage CO-200-RX-4 epoxy coated cast iron floor cleanout with 5"(127) round adjustable gasketed heavy duty ductile iron top, removable gas tight gasketed brass cleanout plug, and no hub (standard) outlet.

	Pipe Sizing	
Suffix	Description	
2	2"(51) Pipe Size	
3	3"(76) Pipe Size	
4	4"(102) Pipe Size	

	Outlet Type	
Suffix	Description	
NH	No Hub (MJ)	
Р	Push On	V
X	Inside Caulk	

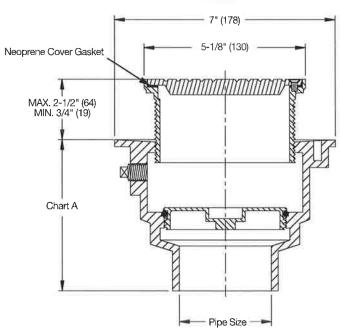
	Options	- + -
Suffix	Description	
-C	Membrane Clamp	
-6	Vandal Proof	
-13	Galvanized Body	

Optional Body Material		
Suffix	Description	
-60	PVC Body w/Poly Plug	
-61	AB\$ Body w/Poly Plug	

#### Chart A

1 77	NH(MJ)	Р	60/61
Pipe Size	No Hub	Push On	PVC/ABS
2*	4-1/2" (114)	5-1/2" (140)	4" (102)
3	4-1/2" (114)	5-1/2" (140)	4" (102)
4=	4-3/4" (121)	5-1/2" (140)	4" (102)







\*The load classifications are in accordance with the American National Standards ASME A112.21.1M ASME Ratings are as follows:

XHD - Safe Live Load 7500-10000 lbs.(3375-4500kg) The above categories are given as a guide only. Please consult factory.

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