



200 Tesma Way,  
Concord, ON, L4K 5C2  
(905) 738-1400

## Submittal Package 23-214 - 010

Feb 6, 2024

PROJECT NAME	PROJECT NUMBER	PROJECT ADDRESS	DUE DATE
CHRIS GIBSON REC CENTRE	23-214	125 McLaughlin Rd N, Brampton, ON, L6X 1N9	Dec 15, 2023

### To

NAME	EMAIL
Hassan Zaid	hzaidi@corebuildconstruction.com
COMPANY	ADDRESS
RAFAT GENERAL CON-TRACTOR INC.	8850 GEORGE BOLTON PKWY, BOLTON, ON, L7E 2Y4

### From

NAME	EMAIL
JOSHUA STEPHENSON	josh.s@consultmechanical.com
COMPANY	ADDRESS
Consult Mechanical	200 Tesma Way, Vaughan, ON, L4K 5C2

### Subject

Plumbing fixtures, drains and hose bibs

### Notes

Drains for SH-1, SH-2  
FD-1, FD-2, FFD, TD-1  
Carriers for BF-1, DF-1, LAV-2, LAV-3, LAV-4, WC-1, WC-2, WC-3  
HB-1, HB-2, HB-3, HB-4

### Package Items

Spec	Subsection	Description	Type
<b>Mechanical</b>	Plumbing	Drains and hose bibs: carrier for BF-1, carrier for DF-1, carriers for Lav-2, Lav-3 & Lav-4, carriers (various) for WC-1, WC-2 & WC-3 FD-1, FD-2, FFD, TD-1 HB-1, HB-2, HB-3, HB-4	Shop Drawings
<b>Mechanical</b>	Plumbing	Shower Drains, SH-1 & SH-2	Shop Drawings

384 Adelaide Street West, Suite 100  
Toronto, ON M5V 1R7

t: 416 862 8800

1050 West Pender Street, Suite 2010  
Vancouver, BC V6E 3S7

t: 604 674 0866

1776 Broadway, Suite 2200  
New York, NY 10019

t: 212 710 4329

www.dsai.ca  
info@dsai.ca

<b>To:</b>	<b>Rafat General Contractor Inc.</b>	<b>Submittal No:</b>	<b>024</b>
	<b>8850 George Bolton Parkway</b>	<b>Project No:</b>	<b>201014</b>
	<b>Caledon, ON L7E 2Y4</b>	<b>File No:</b>	<b>4-6-22</b>
<b>Attention:</b>	<b>Pino Antelope, Bashar Mikha</b>	<b>Date:</b>	<b>December-18-23</b>

**Project:** **Chris Gibson Recreation Centre**

The Architect's review is for the sole purpose of ascertaining conformance with the general design concept and for general arrangement. This review shall not mean approval of the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawings or of his responsibility for meeting all requirements of the Contract Documents. The Contractor is responsible for all dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes, quantities or to techniques of construction and installation and for co-ordination with related work.

Contractor Package #	Spec Section	Description	Reviewed by	Status
024	22 40 00	Plumbing Fixture Package 2 - Drains, Carriers, Hose Bib, & Trench Drain	DSA	<b>RN</b>

Status Legend: **R** – Reviewed **RN** – Reviewed As Noted **RR** – Revise and Resubmit **N** – Not Reviewed

Comments: Reviewed for Architectural intent only. Refer to Mechanical Consultant's review comments throughout Submittal.

Per: Patrick Johnson



8850 GEORGE BOLTON PARKWAY, CALEDON, ONTARIO L7E 2Y4

**Shop Drawings  
Transmittal No:**

<b>Project Name:</b>	Renovation of Chris Gibson Recreation Centre Drive	<b>Project No.</b>	T2023-125
		<b>DATE:</b>	
		<b>Submittal Required Return Date:</b>	
<b>Submittal No:</b>			

<b>Title:</b>	
---------------	--

<b>To:</b>	Patrick Johnson Contract Administrator Halima Namugga Admin Project Coordinator 384 Adelaide Street West, Suite 100 Toronto, Ontario, Canada M5V 1R7 PJohnson@dsai.ca
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<b>Checked by:</b>	<b>Hasan Zaidi (Rafat General Contractor Inc/Corebuild)</b>	<b>To Be Reviewed By the Following Consultants</b>	1. IG 2. DSI
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<b>Submitted for:</b>	REVIEW
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<b>Consultants Response</b>	
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**SUBMITTAL REVIEW**

For general compliance with the design concept and contract documents. Subcontractor is solely responsible for jobite correlation and correctness of all ratings, ratings, type, style, dimensions, finish, quantities and satisfactory fitting to other work and equipment. This review does not change the intent of the contract document.

☒ Reviewed  
☐ Make Corrections  
☐ Resubmit  
☐ Rejected

Pre: HasanZaidi  
Date: 06-Dec-2023

**SUBMITTAL REVIEW**

☐ REVIEWED  
☒ REVIEWED AS NOTED  
☐ REJECTED - REVISE AND RESUBMIT  
☐ NOT REVIEWED

**CHECKED BY:** ILITTLEY  
**DISCIPLINE:** Mechanical  
**DATE:** 12/7/2023

REVIEWED FOR GENERAL DESIGN AND COMPLIANCE WITH CONTRACT DOCUMENTS. DIMENSIONS AND SUITABILITY FOR SITE CONDITIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THIS REVIEW OF THE DRAWING SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE CONDITIONS OF THE CONTRACT DOCUMENTS.

**IRB Comments:**  
- Install as per manufacturers recommendations.



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## Submittal Package 23-214 - 010

Dec 1, 2023

PROJECT NAME	PROJECT NUMBER	PROJECT ADDRESS	DUE DATE
23-214 CHRIS GIBSON REC CENTRE	23-214	125 McLaughlin Rd N, Brampton, ON, L6X 1N9	Dec 15, 2023

### To

NAME	EMAIL
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COMPANY	ADDRESS
RAFAT GENERAL CON-TRACTOR INC.	8850 GEORGE BOLTON PKWY, BOLTON, ON, L7E 2Y4

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### Subject

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### Notes

Drains for SH-1, SH-2  
FD-1, FD-2, FFD, TD-1  
Carriers for BF-1, DF-1, LAV-2, LAV-3, LAV-4, WC-1, WC-2, WC-3  
HB-1, HB-2, HB-3, HB-4

### Package Items

Spec	Subsection	Description	Type
<b>Mechanical</b>	Plumbing	Drains and hose bibs: carrier for BF-1, carrier for DF-1, carriers for Lav-2, Lav-3 & Lav-4, carriers (various) for WC-1, WC-2 & WC-3 FD-1, FD-2, FFD, TD-1 HB-1, HB-2, HB-3, HB-4	Shop Drawings
<b>Mechanical</b>	Plumbing	Shower Drains, SH-1 & SH-2	Shop Drawings





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# Submittal Item Information

Dec 1, 2023

## Spec Section

Mechanical

## Sub Section

Plumbing

## Type

Shop Drawings

## Description

Shower Drains, SH-1 & SH-2



**SHOP DRAWING SUBMITTAL PACKAGE**

**CHRIS GIBSON RECREATION CENTRE  
- RENOVATION AND ADDITION - 125  
MCLAUGHLIN ROAD NORTH  
BRAMPTON**

**125 MCLAUGHLIN ROAD, Brampton, Ontario, Canada**

---

**QUOTE NUMBER**

**Q-75262-S-2**

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**PREPARED FOR**

**GTA WHOLESALE**

**12/01/2023**

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THIS BOOK IS PREPARED TO  
THE BEST OF OUR ABILITY  
AND IS OUR INTERPRETATION  
OF THE INFORMATION  
PERTAINING TO THIS JOB AS  
PRESENTED TO US

**BLÜCHER®****BWC-100**

Tag: SH-1 &amp; SH-2

**WaterLine Shower Channel  
w/Membrane Clamp**

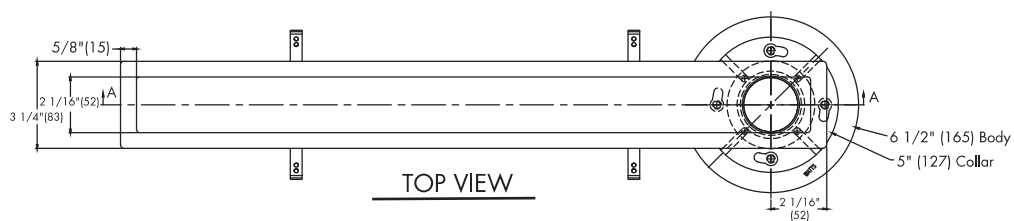
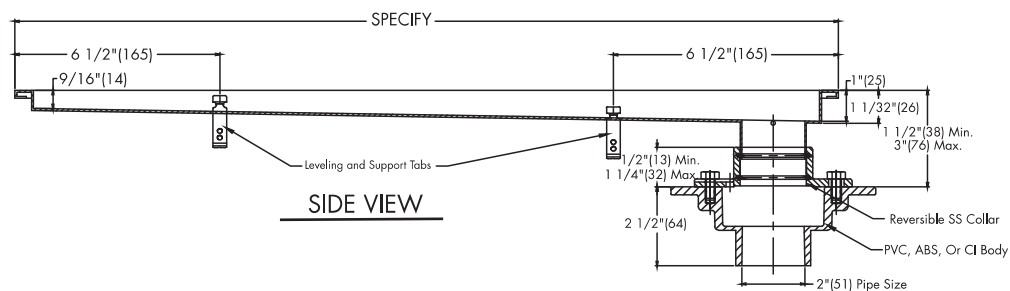
**SPECIFICATION:** BLÜCHER BWC-100 AISI Type 304 stainless steel 3-1/4" (83) wide x (specify) long WaterLine Shower Channel with reversible cast stainless steel collar with dual O-ring seals, weepholes, and 2" (50) no hub epoxy coated cast iron (standard), PVC, or ABS body.

**Optional Gratings**

Suffix	Description	
-None	Vienna (Standard)	<input type="checkbox"/>
-C	Copenhagen	<input checked="" type="checkbox"/>
-Q	Special (Specify - 100pc Minimum)	<input type="checkbox"/>

**Dimensional Chart**

Model	Pipe Size D	Top Size W x L
BWC-126	2" (50) No Hub	3-1/4" x 26" (82x660)
BWC-130	2" (50) No Hub	3-1/4" x 30" (82x762)
BWC-136	2" (50) No Hub	3-1/4" x 36" (82x914)
BWC-142	2" (50) No Hub	3-1/4" x 42" (82x1067)
BWC-148	2" (50) No Hub	3-1/4" x 48" (82x1220)
BWC-160	2" (50) No Hub	3-1/4" x 60" (82x1524)
BWC-172	2" (50) No Hub	3-1/4" x 72" (82x1829)

**TOP VIEW****SIDE VIEW****Options**

-60	2" (50)	PVC Socket	<input checked="" type="checkbox"/>
-61	2" (50)	ABS Socket	<input type="checkbox"/>
-THD	2" (50)	Threaded	<input type="checkbox"/>
-VP	Vandal Proof Grate		<input checked="" type="checkbox"/>

Job Name \_\_\_\_\_ Contractor \_\_\_\_\_

Job Location \_\_\_\_\_ Approval \_\_\_\_\_

Engineer \_\_\_\_\_ Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_ Representative \_\_\_\_\_

**BLÜCHER®**

A Watts Water Technologies Company

USA: Tel: (828) 248-3995 • Fax: (828) 248-3929 • BLUCHERDrains.com

Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • BLUCHERDrains.ca





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# Submittal Item Information

Dec 1, 2023

## Spec Section

Mechanical

## Sub Section

Plumbing

## Type

Shop Drawings

## Description

Drains and hose bibs:  
carrier for BF-1, carrier for DF-1, carriers for Lav-2, Lav-3 & Lav-4, carriers (various) for WC-1, WC-2 & WC-3  
FD-1, FD-2, FFD, TD-1  
HB-1, HB-2, HB-3, HB-4



**SHOP DRAWING SUBMITTAL PACKAGE**

**CHRIS GIBSON RECREATION CENTRE  
- RENOVATION AND ADDITION - 125  
MCLAUGHLIN ROAD NORTH  
BRAMPTON**

**125 MCLAUGHLIN ROAD, Brampton, Ontario, Canada**

---

**QUOTE NUMBER**

**Q-75261-S-2**

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**PREPARED FOR**

**GTA WHOLESALE**

**12/01/2023**

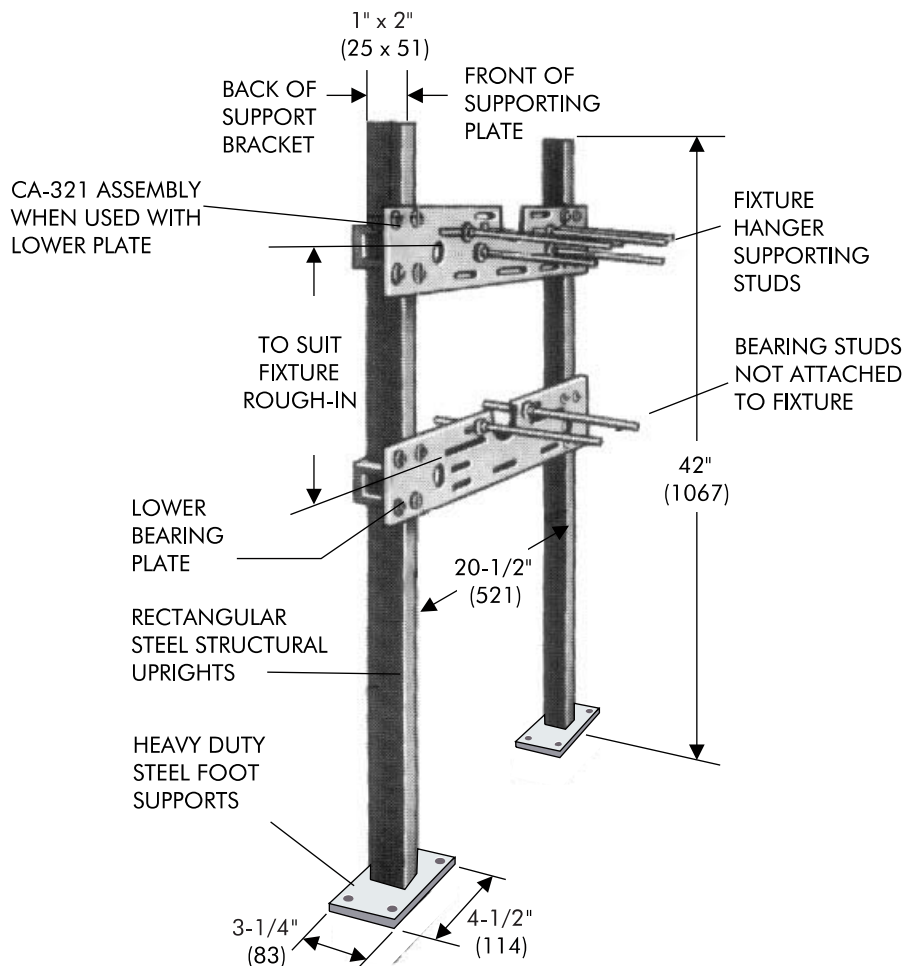
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OF THE INFORMATION  
PERTAINING TO THIS JOB AS  
PRESENTED TO US


**CA-321**

 Tag: BF-1
**Urinal Carriers**
**CA-321**

**SPECIFICATION:** Watts Drainage Products CA-321 floor mounted urinal carrier with heavy gauge steel uprights with integral welded feet, universal steel hanger support plate and bottom bearing plate, and plated hardware.


 Order Code: **CA-321-**

Ex. CA-321-M51

Options (Select One or More)		
Suffix	Description	
-M51	Wall Thickness over 5", per add inch (single)	<input type="checkbox"/>
-M52	Wall Thickness over 12", per inch (Back to Back)	<input type="checkbox"/>
-M53	Vandal Proof Trim, Single	<input type="checkbox"/>
-M59	Floor to Ceiling Adaptor, Single	<input type="checkbox"/>
-M60	Valve Supporting Plate, Single	<input type="checkbox"/>
-M61	Valve Supporting Bar, Single	<input type="checkbox"/>
-M62	Flush Valve Piping Support, Single	<input type="checkbox"/>

**NOTE: FOOT SUPPORTS SHOULD BE SECURELY ANCHORED TO FLOOR WITH 1/2" BOLTS AND ANCHORS BY OTHERS.**

**NOTE: Recommended for support of wall-hung urinals independent of wall.**

Job Name \_\_\_\_\_ Contractor \_\_\_\_\_

Job Location \_\_\_\_\_ Contractor's P.O. No. \_\_\_\_\_

Engineer \_\_\_\_\_ Representative \_\_\_\_\_

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. Dimensions are subject to manufacturing tolerances.


 CANADA: 5435 North Service Road, Burlington, ON, L7L 5H7 TEL: 905-332-6718 TOLL-FREE: 1-888-208-8927 Website: [www.wattsdrainage.ca](http://www.wattsdrainage.ca)




**CA-311**

Tag: DF-1

**Floor Mounted Plate Type  
Lavatory/Water Cooler Carrier**

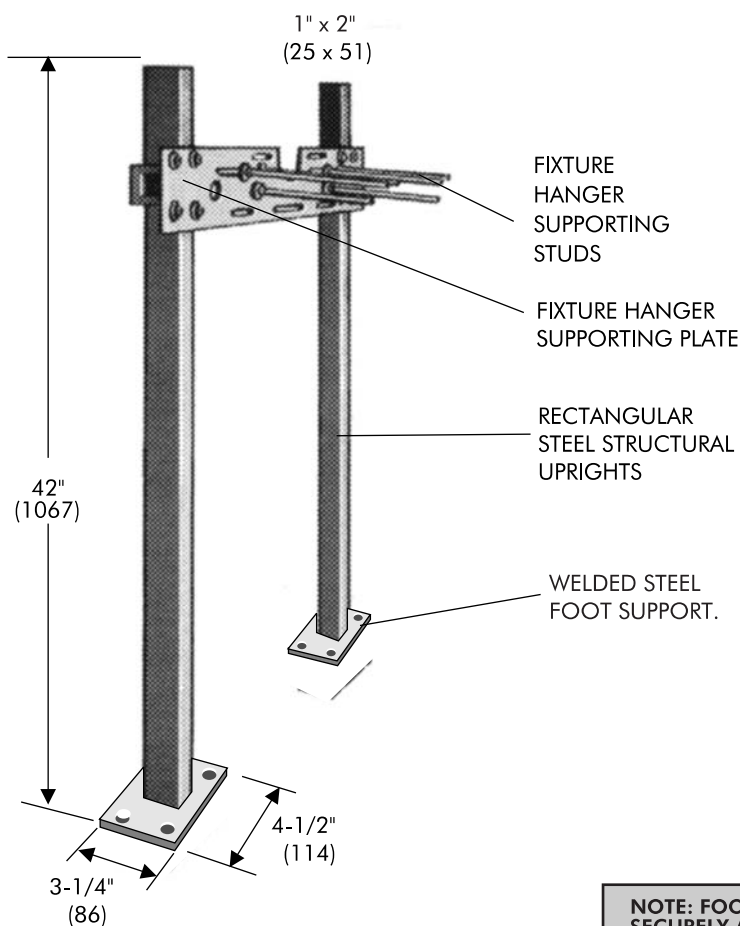
**SPECIFICATION:** Watts Drainage Products CA-311 fixture carrier with heavy duty foot support, heavy duty rectangular steel structural uprights and heavy duty fixture hanger supporting plate.

**FUNCTION:** Recommended for support of wall-hung fixtures independent of wall. Designed for use in conjunction with fixtures with hanger plate supplied by fixture manufacturer.

Order Code: **CA-311**

**Ex. CA-311-M51**

Options (Select One or More)		
Suffix	Description	
-M51	Wall Thickness over 5", per add inch (single)	<input type="checkbox"/>
-M52	Wall Thickness over 12", per inch (Back to Back)	<input type="checkbox"/>
-M53	Vandal Proof Trim, Single	<input type="checkbox"/>
-M59	Floor to Ceiling Adaptor, Single	<input type="checkbox"/>
-M60	Valve Supporting Plate, Single	<input type="checkbox"/>
-M61	Valve Supporting Bar, Single	<input type="checkbox"/>
-M62	Flush Valve Piping Support, Single	<input type="checkbox"/>



**NOTE: FOOT SUPPORTS SHOULD BE SECURELY ANCHORED TO FLOOR WITH 1/2" BOLTS AND ANCHORS BY OTHERS.**

Job Name \_\_\_\_\_ Contractor \_\_\_\_\_

Job Location \_\_\_\_\_ Contractor's P.O. No. \_\_\_\_\_

Engineer \_\_\_\_\_ Representative \_\_\_\_\_

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## Engineering Specification

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

Tag \_\_\_\_\_

**Consultants** ← **IRB: Acceptable.**  
 please advise  
 if FD-1 also  
 acceptable for  
 EW-1 drain.  
**Rafat**

# FD-100-C-L

## Floor Drain With Square Heavy Duty Strainer

### Specification

Watts FD-100-C-L epoxy coated cast iron floor drain with anchor flange, reversible membrane clamp with primary and secondary weepholes, 1/2"(13) thick reinforced (specify size) adjustable square nickel bronze (standard) strainer, and no hub (MJ) (standard) outlet.

Pipe Sizing		
Suffix	Description	
2	2"(51) Pipe Size	<input type="checkbox"/>
3	3"(76) Pipe Size	<input type="checkbox"/>
4	4"(102) Pipe Size	<input type="checkbox"/>
6	6"(152) Pipe Size	<input type="checkbox"/>

Outlet Type		
Suffix	Description	
NH	No Hub (MJ)	<input type="checkbox"/>
P	Push On	<input type="checkbox"/>
T	Threaded Outlet	<input type="checkbox"/>
X	Inside Caulk	<input type="checkbox"/>

Strainer		
Suffix	Description	
L5-1	5" x 5"(127x127), Nickel Bronze	<input checked="" type="checkbox"/>
L5-4	5" x 5"(127x127), Ductile Iron	<input type="checkbox"/>
L6-1	6" x 6"(152x152), Nickel Bronze	<input type="checkbox"/>
L8-1	8" x 8"(203x203), Nickel Bronze	<input type="checkbox"/>

Options		
Suffix	Description	
-5	Sediment Bucket	<input type="checkbox"/>
-6	Vandal Proof	<input checked="" type="checkbox"/>
-8	Backwater Valve (3, 4" Only)	<input type="checkbox"/>
-12	Galvanized Top	<input type="checkbox"/>
-13	All Galvanized	<input type="checkbox"/>
-15	Strainer Extension (DD-50)	<input type="checkbox"/>
-113M	Special Epoxy from 3M Range	<input type="checkbox"/>
-F4-50	4" Round Cast Iron Funnel	<input type="checkbox"/>
-F4-1	4" Round Nickel Bronze Funnel	<input type="checkbox"/>
-F6-1	6" Round Nickel Bronze Funnel	<input type="checkbox"/>
-G-50	4x9" Oval Cast Iron Funnel	<input type="checkbox"/>
-G-1	4x9" Oval Nickel Bronze Funnel	<input type="checkbox"/>
-S0	Side Outlet	<input type="checkbox"/>
-Z	Elastomeric Flange	<input type="checkbox"/>

Optional Body Material		
Suffix	Description	
-60	PVC Body w/Socket Outlet	<input type="checkbox"/>
-61	ABS Body w/Socket Outlet	<input checked="" type="checkbox"/>

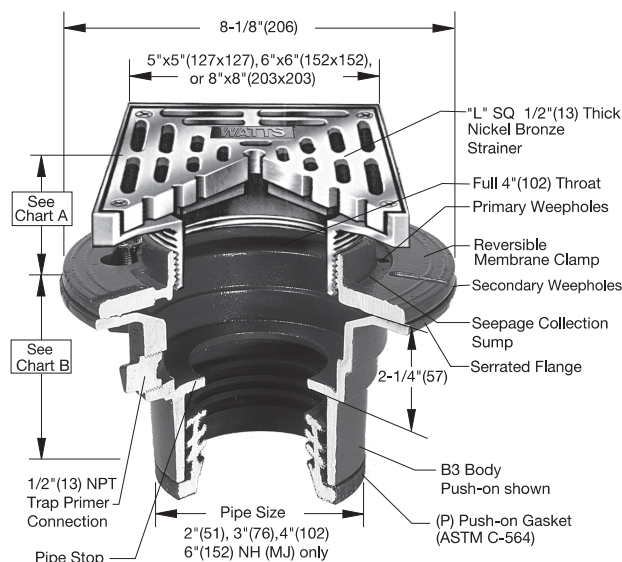


Chart A					
Str. Dia.	Min.	Max.	Load Rating	Free Area Sq. In.	
5" x 5" (127)	13/16" (21)	2 1/2" (64)	*XHD	9	
6" x 6" (152)	7/8" (22)	2 3/4" (70)	*HD	12	
8" x 8" (203)	1" (25)	2-1/4" (57)	*HD	26	

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

### 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.

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.

### NOTICE

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

ASME Ratings are as follows:

HD - Safe Live Load 5000-749 9lbs.(2250-3375kg)

XHD - Safe Live Load 7500-10000 lbs.(3375-4500kg)

The above categories are given as a guide only.

Please consult factory.



USA: T: (800) 338-2581 • Watts.com

Canada: T: (888) 208-8927 • Watts.ca

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

ES-WD-FD-100-C-L-CAN 2239

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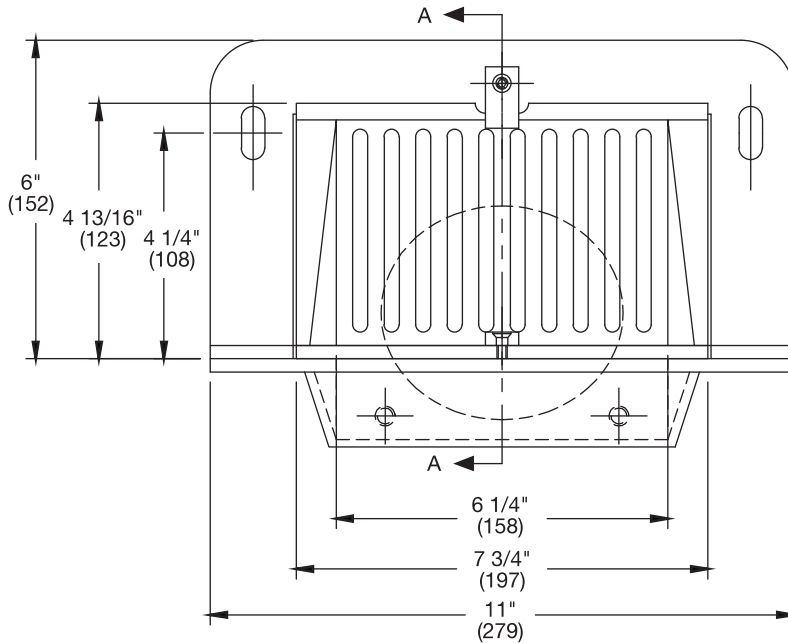


**BV-600**

Tag: FD-2

**Pit Drain with  
Backwater Valve**

**SPECIFICATION:** Watts Drainage BV-600 epoxy coated cast iron pit drain with backwater valve with bronze seat and flapper, secured grate, and no hub outlet.



Front View

Pipe Sizing (Select One)		
Suffix	Description	
2	2"(51) Pipe Size	<input type="checkbox"/>
3	3"(76) Pipe Size	<input type="checkbox"/>
4	4"(102) Pipe Size	<input type="checkbox"/>
6	6"(152) Pipe Size	<input type="checkbox"/>

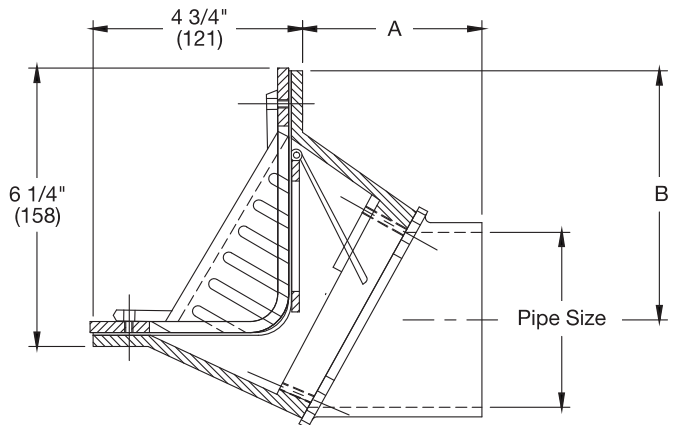
Options (Select One or More)		
Suffix	Description	
-1	Nickel Bronze Grate & Frame	<input type="checkbox"/>
-6	Vandal Proof	<input type="checkbox"/>
-13	Galvanized	<input type="checkbox"/>
-T	Threaded Outlet	<input type="checkbox"/>
-US	Buy American Compliant	<input type="checkbox"/>

Pipe Size	No Hub (MJ)	
	A	B
2"(51)	5-1/8"(130)	6-1/2"(165)
3"(76)	4-1/2"(114)	5-3/4"(146)
4"(102)	4"(102)	5-1/8"(130)
6"(152)	3-1/2"(90)	4-13/16"(122)

Free Area Sq. In.
15

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Side View

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Engineer \_\_\_\_\_

Representative \_\_\_\_\_

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**Latin America:** Tel: (52) 81-1001-8600 • Fax: (52) 81-8000-7091 • Watts.com

ES-WD-BV-600-USA 1637



A Watts Water Technologies Company

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## Engineering Specification

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

Tag \_\_\_\_\_

# FD-100-C-A

## Floor Drain With Round Strainer Specification

Watts FD-100-C-A epoxy coated cast iron floor drain with anchor flange, reversible membrane clamp with primary and secondary weepholes, 1/4"(6) thick (specify diameter) adjustable nickel bronze (standard) strainer, and no hub (MJ) (standard) outlet.

Pipe Sizing			Options		
Suffix	Description		Suffix	Description	
2	2"(51) Pipe Size	<input type="checkbox"/>	-5	Sediment Bucket	<input type="checkbox"/>
3	3"(76) Pipe Size	<input type="checkbox"/>	-6	Vandal Proof	<input checked="" type="checkbox"/>
4	4"(102) Pipe Size	<input type="checkbox"/>	-8	Backwater Valve (2, 3, 4" Only)	<input type="checkbox"/>
6	6"(152) Pipe Size	<input type="checkbox"/>	-12	Galvanized Top	<input type="checkbox"/>
Outlet Type			-13	All Galvanized	<input type="checkbox"/>
Suffix	Description		-15	Strainer Extension (DD-50)	<input type="checkbox"/>
NH	No Hub (MJ)	<input type="checkbox"/>	-113M	Special Epoxy from 3M Range	<input type="checkbox"/>
P	Push On	<input type="checkbox"/>	-F4-50	4" Round Cast Iron Funnel	<input type="checkbox"/>
T	Threaded Outlet	<input type="checkbox"/>	-F4-1	4" Round Nickel Bronze Funnel	<input checked="" type="checkbox"/>
X	Inside Caulk	<input type="checkbox"/>	-F6-1	6" Round Nickel Bronze Funnel	<input type="checkbox"/>
Strainer			-G-50	4x9" Oval Cast Iron Funnel	<input type="checkbox"/>
Suffix	Description		-G-1	4x9" Oval Nickel Bronze Funnel	<input type="checkbox"/>
A5-1	5"(127) Dia., Nickel Bronze	<input checked="" type="checkbox"/>	-S0	Side Outlet	<input type="checkbox"/>
A6-1	6"(152) Dia., Nickel Bronze	<input type="checkbox"/>	-Z	Elastomeric Flange	<input type="checkbox"/>
A7-1	7"(178) Dia., Nickel Bronze	<input type="checkbox"/>	Optional Body Material		
A8-1	8"(206) Dia., Nickel Bronze	<input type="checkbox"/>	Suffix	Description	
			-60	PVC Body w/Socket Outlet	<input type="checkbox"/>
			-61	ABS Body w/Socket Outlet	<input type="checkbox"/>

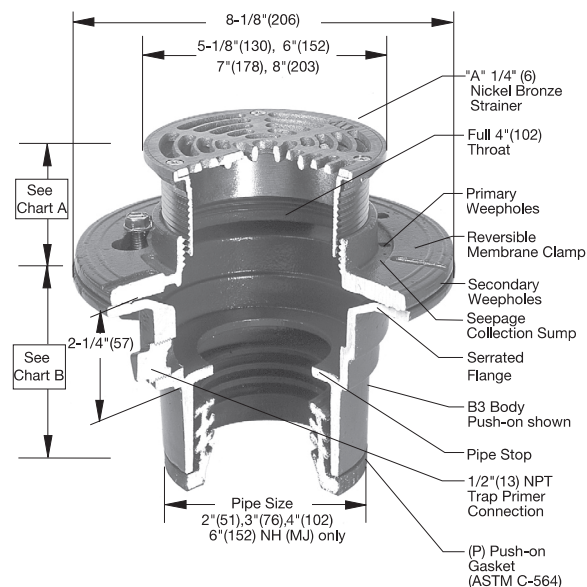


Chart A				
Str. Dia.	Min.	Max.	Load Rating	Free Area Sq. In.
5" (127)	13/16" (21)	2-1/2" (64)	*MD	8
6" (152)	7/8" (22)	2-3/4" (70)	*MD	9
7" (178)	11/16" (17)	2-1/2" (64)	*MD	12
8" (203)	7/8" (22)	2-7/8" (73)	*MD	18

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

### NOTICE

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ES-WD-FD-100-C-A 2238

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# HY-725

Tag: HB-1

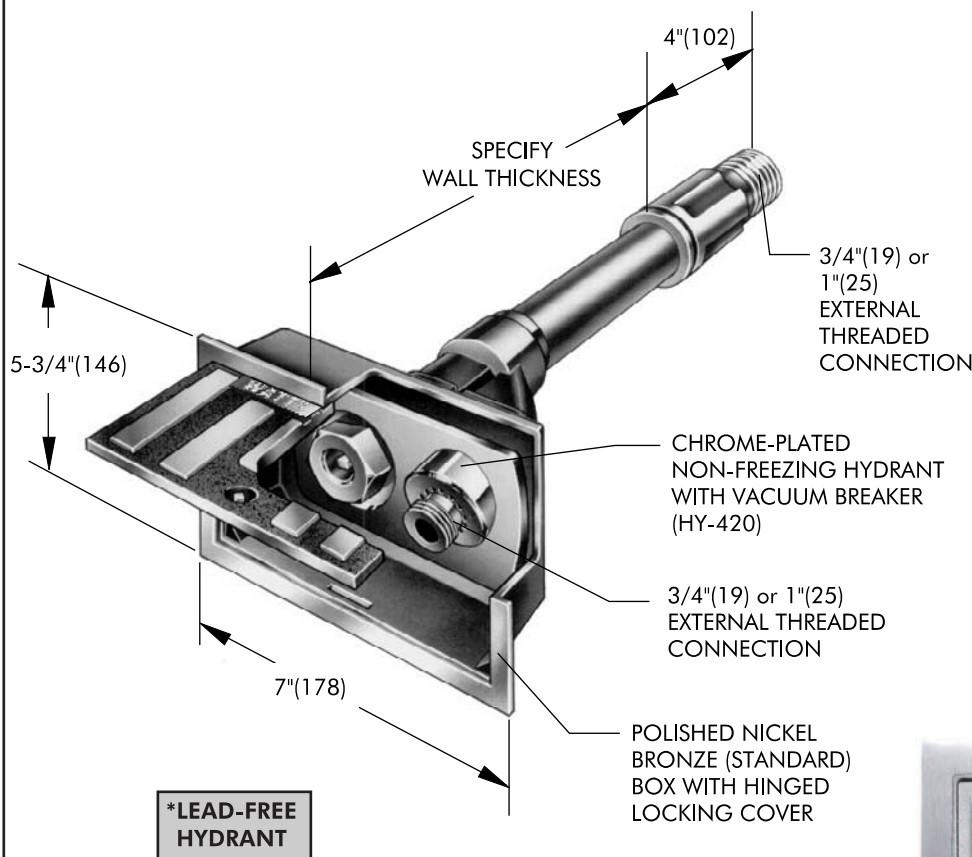
## Non-Freeze Wall Hydrant with NB Box, Integral Vacuum Breaker

**SPECIFICATION:** Watts Drainage Products HY-725 concealed non-freeze key operated wall hydrant with nickel bronze (standard) box and door, chrome plated hydrant face, integral vacuum breaker, 3/4"(19) hose connection, all bronze head, seat casting and internal working parts, galvanized wall casing, and hydrant key.

**FUNCTION:** For recessed installation in exterior walls where self-draining integral vacuum breaker is required in areas subject to freezing.

Order Code: HY-725- ☐ - ☐

Ex. HY-725-10-K



Recommended Wall Opening:  
5-1/4" x 6-1/4" (133 x 158)

Wall Thickness (Select One)		
Suffix	Description	
6	6"(152) Thick	<input type="checkbox"/>
8	8"(203) Thick	<input type="checkbox"/>
10	10"(254) Thick	<input type="checkbox"/>
12	12"(305) Thick	<input type="checkbox"/>
14	14"(356) Thick	<input type="checkbox"/>
16	16"(406) Thick	<input type="checkbox"/>
18	18"(457) Thick	<input type="checkbox"/>
20	20"(508) Thick	<input type="checkbox"/>
22	22"(559) Thick	<input type="checkbox"/>
24	24"(610) Thick	<input type="checkbox"/>
Other	Specify _____	

Options (Select One or More)		
Suffix	Description	
-1"	1" Hose Connection	<input type="checkbox"/>
-88	Wall Clamp	<input type="checkbox"/>
-K	Keyed Custodian Operation Cylinder Lock	<input checked="" type="checkbox"/>
-SS	Cast Stainless Steel Box	<input checked="" type="checkbox"/>



Standard finish is polished nickel bronze.

Job Name \_\_\_\_\_ Contractor \_\_\_\_\_

Job Location \_\_\_\_\_ Contractor's P.O. No. \_\_\_\_\_

Engineer \_\_\_\_\_ Representative \_\_\_\_\_

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. Dimensions are subject to manufacturing tolerances.



CANADA: 5435 North Service Road, Burlington, ON, L7L 5H7 TEL: 905-332-6718 TOLL-FREE: 1-888-208-8927 Website: [www.wattsdrainage.ca](http://www.wattsdrainage.ca)



## Engineering Specification

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

# LEAD FREE\*

## Series LFSC-8

### Lead Free\* Cast Brass Hose Bibbs with Separate Tamper-proof Vacuum Breaker

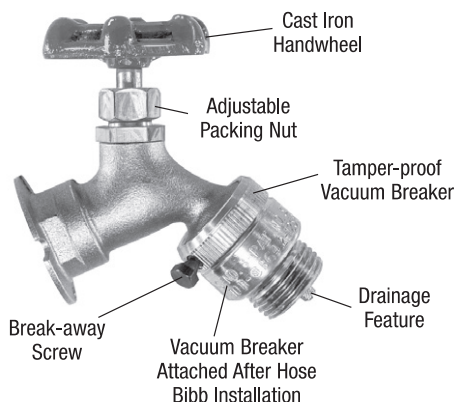
Watts offers six styles of hose bibbs which are supplied with separate vacuum breaker to be attached to the hose bibb after hose bibb installation. Once the vacuum breaker is properly installed to the hose bibb it is tamper-proof. This provides backsiphonage protection for potable hoses connected to hose thread faucets. Garden hoses are an extension of the plumbing system and have been known to cause illness or death when unprotected in uses such as with chemical sprayers, flushing of tanks or pipes, or the filling of pools.

#### Models

- LFSC8-1** No kink faucet, ½" male NPT or copper sweat connection with vacuum breaker.
- LFSC8-2** No kink hose faucet, ¾" copper sweat connection with vacuum breaker.
- LFSC8-3** Lawn faucet, ½" or ¾" regular pattern, dual sweat connection with vacuum breaker.
- ☒ **LFSC8-4** Lawn faucet, ¾" female NPT regular pattern with vacuum breaker.
- LFSC8-5** Hose bibb hex shoulder, ½" male NPT with tee handle and vacuum breaker.
- LFSC8-6** Hose bibb hex shoulder, ¾" male NPT with tee handle and vacuum breaker.

#### Features

- Backflow backsiphonage protection
- Separate non-removable vacuum breaker (with break-away screw)



LFSC8-1



LFSC8-2



LFSC8-3



LFSC8-4



LFSC8-5



LFSC8-6

#### 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.

\*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

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.

## Standards

Tamper-proof vacuum breaker (Watts Model LF8B) is tested and approved in conformance with Standard 1011 of the American Society of Sanitary Engineers and by all principal cities, states and areas having these requirements. Additionally listed with IAPMO Uniform Plumbing Code, as well as NSF (National Sanitation Foundation) to Standard NSF/ANSI 372.

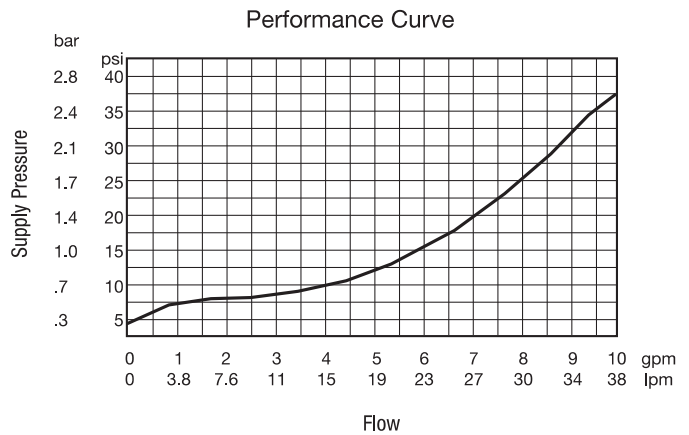
Please refer to ES-LF8 and ES-LFSC for independent listings.

## How it Works

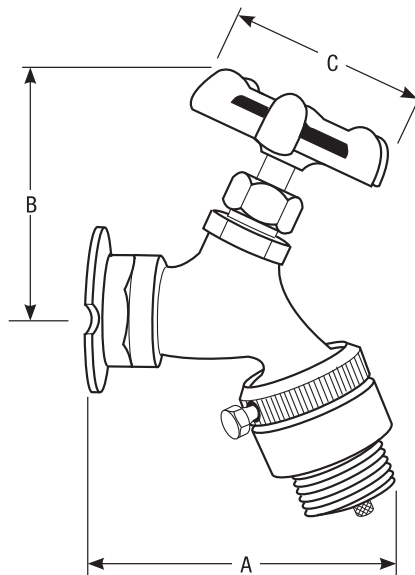
Series LFSC-8 is a combination hose bibb with separate tamper-proof vacuum breaker - to be attached after installation. Under normal conditions, the inner diaphragm opens to permit generous flow, while the circumferential diaphragm closes the air vents.

Should supply pressure drop and a backflow begin, the inner diaphragm immediately closes to prevent backflow into the main line, while the circumferential diaphragm opens the air vents to break the vacuum.

## Capacity



## Dimensions – Weight



MODEL	ORDER NO.	SIZE in.	DESCRIPTION	DIMENSIONS						WEIGHT	
				A		B		C		lbs.	kgs.
				in.	mm.	in.	mm.	in.	mm.		
<b>NO KINK HOSE FAUCET with tee handle and vacuum breaker</b>											
LFSC8-1	0124294	1/2	Male I.P. or Copper Connection	3 3/8	79	2 1/2	64	2 1/4	57	.75	.34
LFSC8-2	0124295	3/4	Copper Connection	3 3/8	79	2 1/2	64	2 1/4	57	.75	.34
<b>LAWN FAUCET (Silcock) with cast iron handwheel and vacuum breaker</b>											
LFSC8-3	0124296	1/2 or 3/4	Regular Pattern, Dual Connections	3 3/4	83	2 1/2	64	2 1/4	57	.75	.34
LFSC8-4	0124297	3/4	I.P. Regular Pattern	3 3/4	83	2 1/2	64	2 1/4	57	.75	.34
<b>HOSE BIBB HEX SHOULDER with tee handle</b>											
LFSC8-5	0124298	1/2	I.P. Inlet Hose End	3 3/8	92	2	51	2 1/4	57	.75	.34
LFSC8-6	0124299	3/4	I.P. Inlet Hose End	3 3/4	95	2	51	2 1/4	57	.75	.34

**Note:** Models LFSC8-1 through LFSC8-5 are packaged with the Model LF8B vacuum breaker with break-away set screw. The LFSC8-6 model is packaged with the Model LF8 which has an allen head set screw.





## For Commercial Applications

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

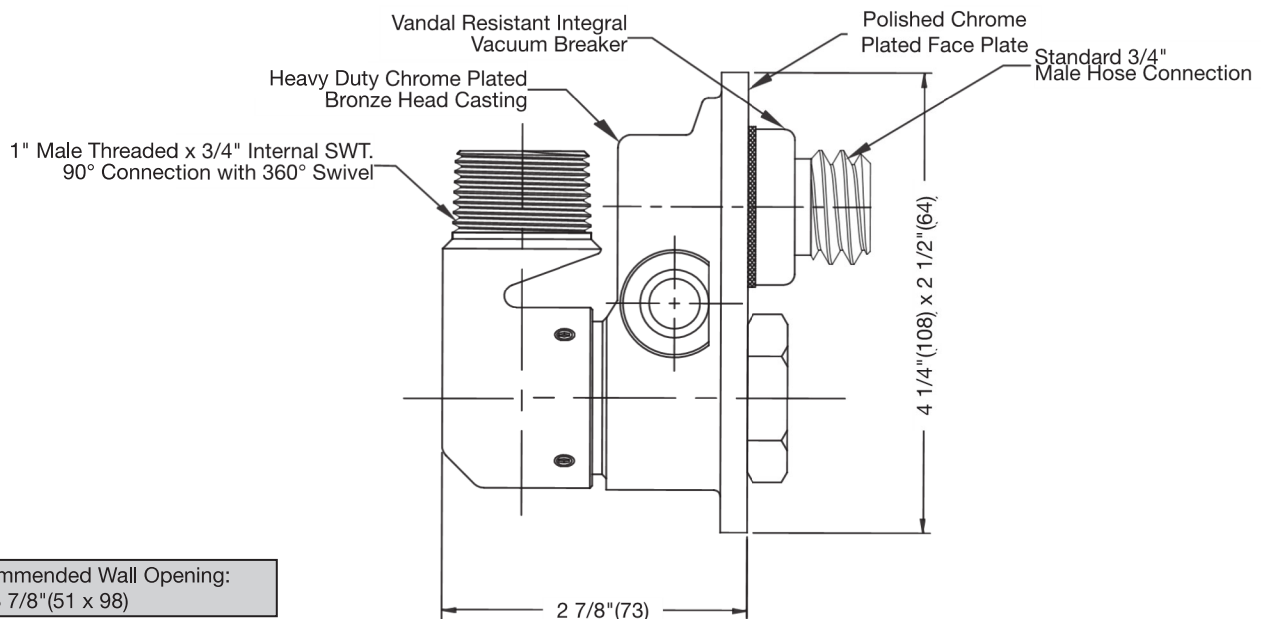
Tag \_\_\_\_\_

# HY-440

## Moderate Climate Narrow Wall Hydrant

### Specification

Watts HY-440 moderate climate anti-siphon narrow wall hydrant with chrome plated face, integral vacuum breaker, 3/4" hose connection, 360 degree swivel pipe connection with 3/4" female / 1" male threads. Bronze head, seat casting, internal working parts, and loose key. Complies with ASSE 1019-2004, UPC/IAPMO Listed. Max. operating pressure 125 psi.



Recommended Wall Opening:  
2" x 3 7/8" (51 x 98)

### NOTICE

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### Approvals:



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ES-WD-HY-440-USA 1825

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## Engineering Specification

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

# LEAD FREE\*

## Series LFSC-8

### Lead Free\* Cast Brass Hose Bibbs with Separate Tamper-proof Vacuum Breaker

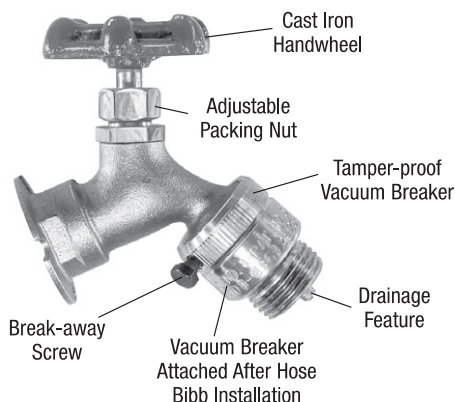
Watts offers six styles of hose bibbs which are supplied with separate vacuum breaker to be attached to the hose bibb after hose bibb installation. Once the vacuum breaker is properly installed to the hose bibb it is tamper-proof. This provides backsiphonage protection for potable hoses connected to hose thread faucets. Garden hoses are an extension of the plumbing system and have been known to cause illness or death when unprotected in uses such as with chemical sprayers, flushing of tanks or pipes, or the filling of pools.

#### Models

- LFSC8-1** No kink faucet, ½" male NPT or copper sweat connection with vacuum breaker.
- LFSC8-2** No kink hose faucet, ¾" copper sweat connection with vacuum breaker.
- LFSC8-3** Lawn faucet, ½" or ¾" regular pattern, dual sweat connection with vacuum breaker.
- ☒ **LFSC8-4** Lawn faucet, ¾" female NPT regular pattern with vacuum breaker.
- LFSC8-5** Hose bibb hex shoulder, ½" male NPT with tee handle and vacuum breaker.
- LFSC8-6** Hose bibb hex shoulder, ¾" male NPT with tee handle and vacuum breaker.

#### Features

- Backflow backsiphonage protection
- Separate non-removable vacuum breaker (with break-away screw)



LFSC8-1



LFSC8-2



LFSC8-3



LFSC8-4



LFSC8-5



LFSC8-6

#### NOTICE

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\*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

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.

## Standards

Tamper-proof vacuum breaker (Watts Model LF8B) is tested and approved in conformance with Standard 1011 of the American Society of Sanitary Engineers and by all principal cities, states and areas having these requirements. Additionally listed with IAPMO Uniform Plumbing Code, as well as NSF (National Sanitation Foundation) to Standard NSF/ANSI 372.

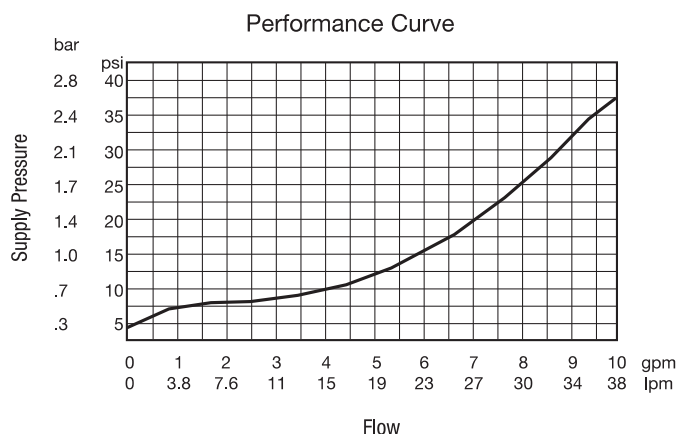
Please refer to ES-LF8 and ES-LFSC for independent listings.

## How it Works

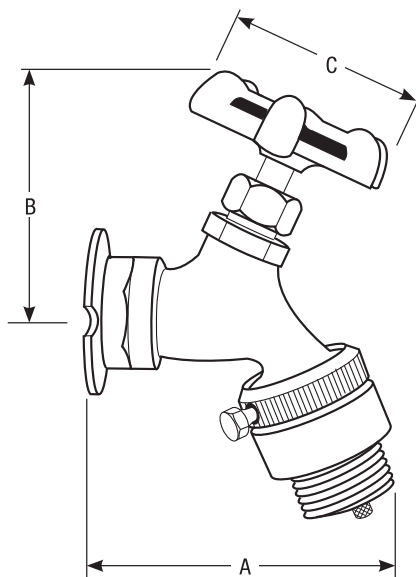
Series LFSC-8 is a combination hose bibb with separate tamper-proof vacuum breaker - to be attached after installation. Under normal conditions, the inner diaphragm opens to permit generous flow, while the circumferential diaphragm closes the air vents.

Should supply pressure drop and a backflow begin, the inner diaphragm immediately closes to prevent backflow into the main line, while the circumferential diaphragm opens the air vents to break the vacuum.

## Capacity



## Dimensions – Weight



MODEL	ORDER NO.	SIZE in.	DESCRIPTION	DIMENSIONS						WEIGHT	
				A		B		C		lbs.	kgs.
				in.	mm.	in.	mm.	in.	mm.		
<b>NO KINK HOSE FAUCET with tee handle and vacuum breaker</b>											
LFSC8-1	0124294	1/2	Male I.P. or Copper Connection	3 3/8	79	2 1/2	64	2 1/4	57	.75	.34
LFSC8-2	0124295	3/4	Copper Connection	3 3/8	79	2 1/2	64	2 1/4	57	.75	.34
<b>LAWN FAUCET (Silcock) with cast iron handwheel and vacuum breaker</b>											
LFSC8-3	0124296	1/2 or 3/4	Regular Pattern, Dual Connections	3 3/4	83	2 1/2	64	2 1/4	57	.75	.34
LFSC8-4	0124297	3/4	I.P. Regular Pattern	3 3/4	83	2 1/2	64	2 1/4	57	.75	.34
<b>HOSE BIBB HEX SHOULDER with tee handle</b>											
LFSC8-5	0124298	1/2	I.P. Inlet Hose End	3 3/8	92	2	51	2 1/4	57	.75	.34
LFSC8-6	0124299	3/4	I.P. Inlet Hose End	3 3/4	95	2	51	2 1/4	57	.75	.34

**Note:** Models LFSC8-1 through LFSC8-5 are packaged with the Model LF8B vacuum breaker with break-away set screw. The LFSC8-6 model is packaged with the Model LF8 which has an allen head set screw.







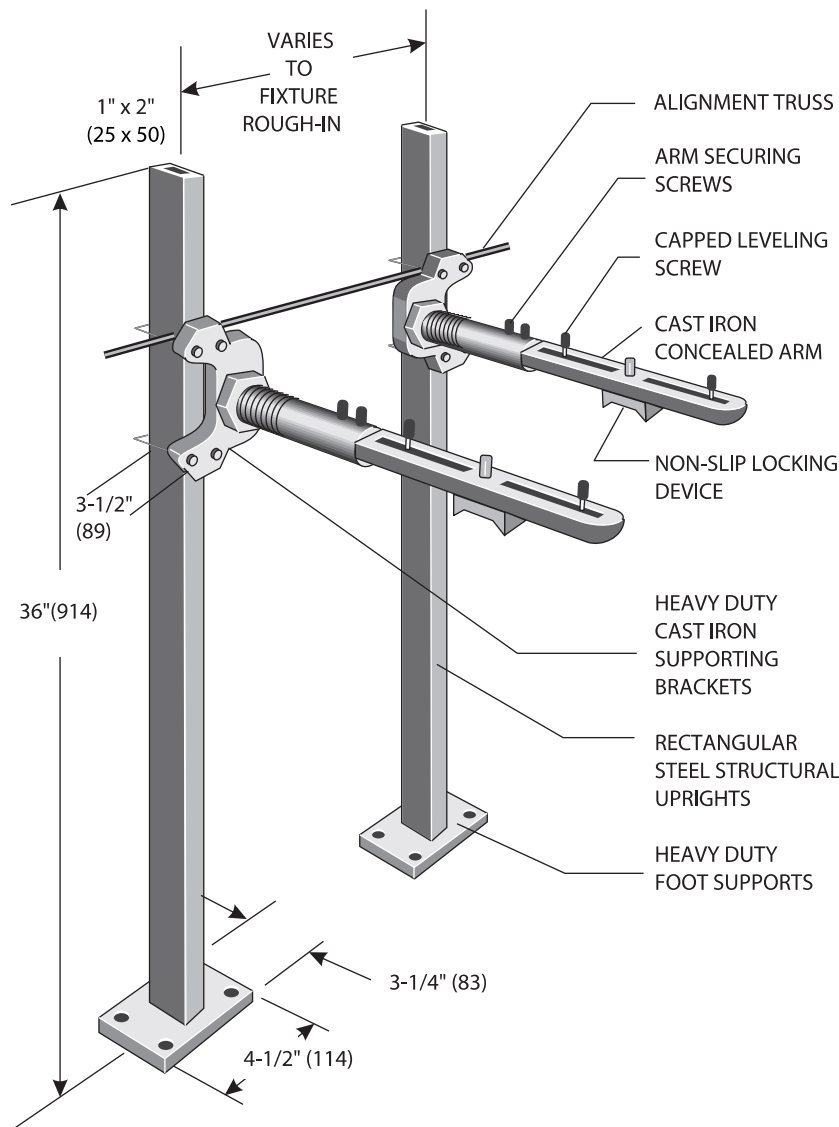
# CA-411 - CA-481

Tag: LAV-2

## Floor Mounted Lavatory Carrier with Concealed Arms and Support Plate

**SPECIFICATION:** Watts Drainage Products CA-411-CA-481 floor mounted concealed arm lavatory carrier with heavy gauge steel uprights with integral welded feet, adjustable epoxy coated cast iron arms with levelling screws and basin locking device, upper tie rod, and plated hardware with wall support plate (CA-481)

**FUNCTION:** Recommended for installation where added security of an independent foot supported carrier is required for lavatories designed for installation with concealed arms.



Order Code: CA-411- ☐

### EX. CA-411-M55

#### Options (Select One or More)

Suffix	Description	
-WC	Wheelchair Access	<input type="checkbox"/>
	Lavatory Extended Arms	<input type="checkbox"/>
-M42	42"(1067) Long Carrier Leg	<input type="checkbox"/>
-M51	Wall Thickness over 5", per add inch (single)	<input type="checkbox"/>
-M53	Vandal Proof Trim, Single	<input type="checkbox"/>
-M54	2" Chrome Plated Escutcheons, Single	<input type="checkbox"/>
-M55	4" Chrome Plated Escutcheons, Single	<input type="checkbox"/>
-M56	6" Chrome Plated Escutcheons, Single	<input type="checkbox"/>
-M59	Floor to Ceiling Adaptor, Single	<input type="checkbox"/>
-M60	Valve Supporting Plate, Single	<input type="checkbox"/>
-CA-481	Support Plate with Studs	<input checked="" type="checkbox"/>

NOTE: FOOT SUPPORTS SHOULD BE SECURELY ANCHORED TO FLOOR WITH 1/2" BOLTS AND ANCHORS BY OTHERS.

Job Name \_\_\_\_\_ Model No. \_\_\_\_\_

Job Location \_\_\_\_\_ Contractor \_\_\_\_\_

Engineer \_\_\_\_\_ Representative \_\_\_\_\_

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. Dimensions are subject to manufacturing tolerances.



Specification Drainage Products

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ES-WD-CA-411 Canada 1417

(Dimension) Denotes Millimeters

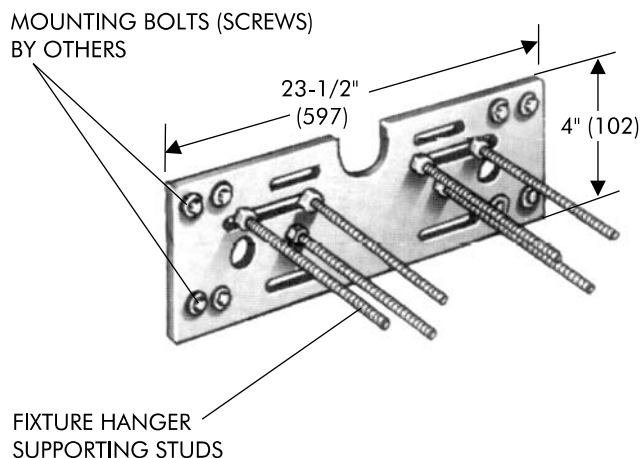
**SPECIFICATION:** Watts Drainage Products CA-481 wall mounted steel support plate with plated hardware.

**FUNCTION:** Plate type support for installation of wall mounted fixtures.

Order Code: **CA-481-** ☐

**Ex. CA-481-M55**

Options (Select One or More)		
Suffix	Description	
-M51	Wall Thickness over 5", per add inch (single)	<input type="checkbox"/>
-M52	Wall Thickness over 12", per inch (Back to Back)	<input type="checkbox"/>
-M53	Vandal Proof Trim, Single	<input type="checkbox"/>
-M59	Floor to Ceiling Adaptor, Single	<input type="checkbox"/>
-M60	Valve Supporting Plate, Single	<input type="checkbox"/>
-M61	Valve Supporting Bar, Single	<input type="checkbox"/>
-M62	Flush Valve Piping Support, Single	<input type="checkbox"/>



Job Name \_\_\_\_\_ Contractor \_\_\_\_\_

Job Location \_\_\_\_\_ Contractor's P.O. No. \_\_\_\_\_

Engineer \_\_\_\_\_ Representative \_\_\_\_\_

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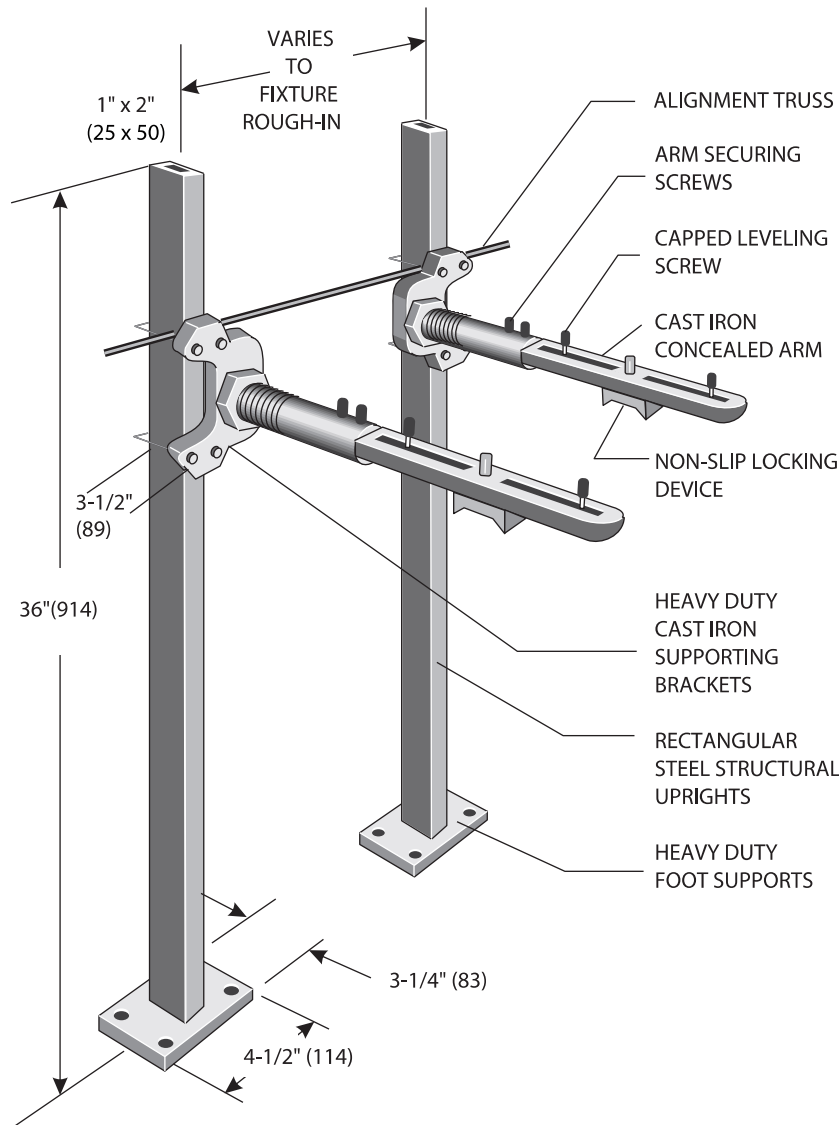
# CA-411 - CA-481

Tag: LAV-3

## Floor Mounted Lavatory Carrier with Concealed Arms and Support Plate

**SPECIFICATION:** Watts Drainage Products CA-411-CA-481 floor mounted concealed arm lavatory carrier with heavy gauge steel uprights with integral welded feet, adjustable epoxy coated cast iron arms with levelling screws and basin locking device, upper tie rod, and plated hardware with wall support plate (CA-481)

**FUNCTION:** Recommended for installation where added security of an independent foot supported carrier is required for lavatories designed for installation with concealed arms.



Order Code: CA-411- ☐

### EX. CA-411-M55

#### Options (Select One or More)

Suffix	Description	
-WC	Wheelchair Access	<input type="checkbox"/>
	Lavatory Extended Arms	<input type="checkbox"/>
-M42	42"(1067) Long Carrier Leg	<input type="checkbox"/>
-M51	Wall Thickness over 5", per add inch (single)	<input type="checkbox"/>
-M53	Vandal Proof Trim, Single	<input type="checkbox"/>
-M54	2" Chrome Plated Escutcheons, Single	<input type="checkbox"/>
-M55	4" Chrome Plated Escutcheons, Single	<input type="checkbox"/>
-M56	6" Chrome Plated Escutcheons, Single	<input type="checkbox"/>
-M59	Floor to Ceiling Adaptor, Single	<input type="checkbox"/>
-M60	Valve Supporting Plate, Single	<input type="checkbox"/>
-CA-481	Support Plate with Studs	<input checked="" type="checkbox"/>

NOTE: FOOT SUPPORTS SHOULD BE SECURELY ANCHORED TO FLOOR WITH 1/2" BOLTS AND ANCHORS BY OTHERS.

Job Name \_\_\_\_\_ Model No. \_\_\_\_\_

Job Location \_\_\_\_\_ Contractor \_\_\_\_\_

Engineer \_\_\_\_\_ Representative \_\_\_\_\_

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Specification Drainage Products

CANADA: 5435 North Service Road, Burlington, ON L7L5H7 TEL: 905-332-6718 TOLL FREE: 1-888-208-8927 Website: [www.wattscanada.ca](http://www.wattscanada.ca)

ES-WD-CA-411 Canada 1417

(Dimension) Denotes Millimeters

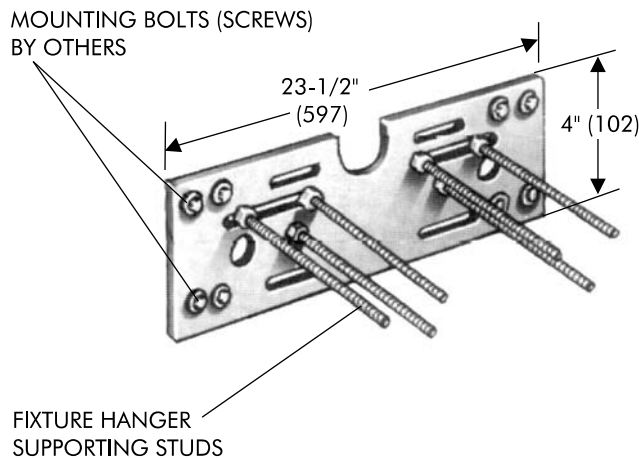
**SPECIFICATION:** Watts Drainage Products CA-481 wall mounted steel support plate with plated hardware.

**FUNCTION:** Plate type support for installation of wall mounted fixtures.

Order Code: **CA-481-** ☐

**Ex. CA-481-M55**

Options (Select One or More)		
Suffix	Description	
-M51	Wall Thickness over 5", per add inch (single)	<input type="checkbox"/>
-M52	Wall Thickness over 12", per inch (Back to Back)	<input type="checkbox"/>
-M53	Vandal Proof Trim, Single	<input type="checkbox"/>
-M59	Floor to Ceiling Adaptor, Single	<input type="checkbox"/>
-M60	Valve Supporting Plate, Single	<input type="checkbox"/>
-M61	Valve Supporting Bar, Single	<input type="checkbox"/>
-M62	Flush Valve Piping Support, Single	<input type="checkbox"/>



Job Name \_\_\_\_\_ Contractor \_\_\_\_\_

Job Location \_\_\_\_\_ Contractor's P.O. No. \_\_\_\_\_

Engineer \_\_\_\_\_ Representative \_\_\_\_\_

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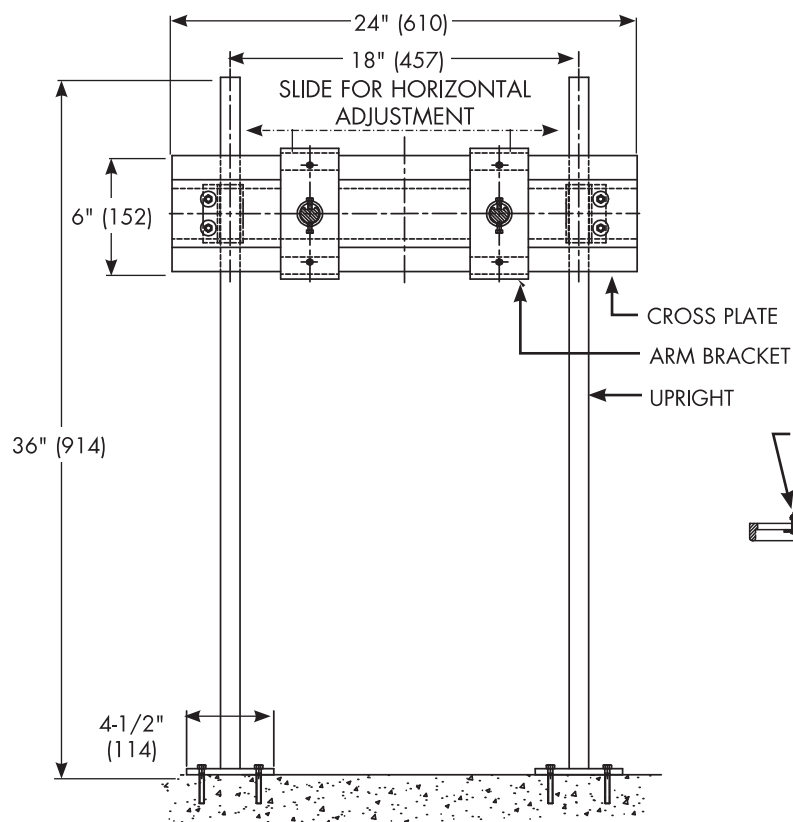


TCA-411

Tag: LAV-4

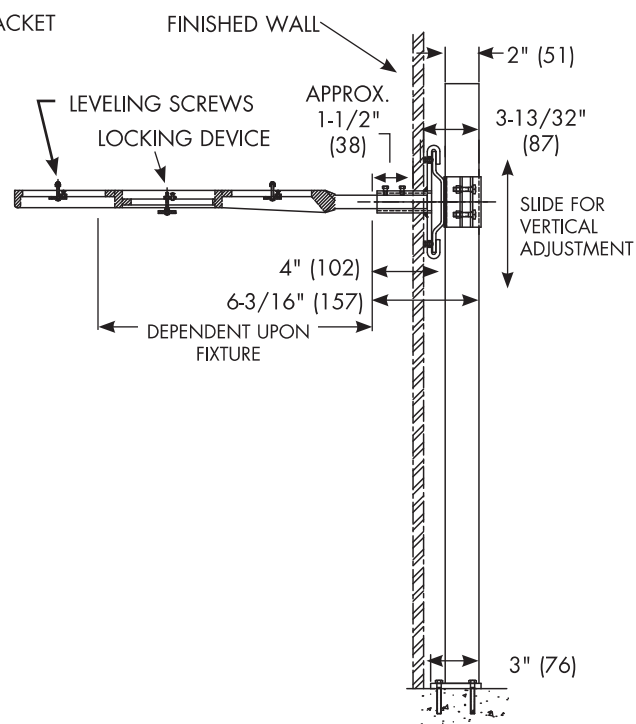
## Floor Mounted Concealed Arm "Track" Lavatory Carrier

**SPECIFICATION:** Watts Drainage TCA-411 epoxy coated floor mounted concealed arm track lavatory carrier with heavy gauge steel offset uprights with welded feet, steel cross plate with integral mounting brackets, sliding adjustable arm brackets, and adjustable cast iron concealed arms with mounting clips, leveling screws, and basin locking device.



Options (Select One or More)		
Suffix	Description	
-M42	42" Long Carrier Leg	<input type="checkbox"/>
-M54	2" Chrome Plated Escutcheons, Single	<input type="checkbox"/>
-M55	4" Chrome Plated Escutcheons, Single	<input type="checkbox"/>
-M60	Knee Operated Valve Support Plate Single	<input type="checkbox"/>
-US	Buy American Compliant	<input type="checkbox"/>

**NOTE: ANCHOR LEGS TO CONCRETE FLOOR WITH MINIMUM 1/2" (13) ANCHOR BOLTS (BY OTHERS)**



\*Patent Pending

Job Name \_\_\_\_\_ Contractor \_\_\_\_\_

Job Location \_\_\_\_\_ Contractor's P.O. No. \_\_\_\_\_

Engineer \_\_\_\_\_ Representative \_\_\_\_\_

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Specification Drainage Products

USA: 100 Watts Road, Spindale, NC, 28160-2298; TEL: 828-288-2179 TOLL-FREE: 1-800-338-2581 [www.watts.com](http://www.watts.com)

## For Commercial Applications

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

Tag \_\_\_\_\_

# Dead Level® P

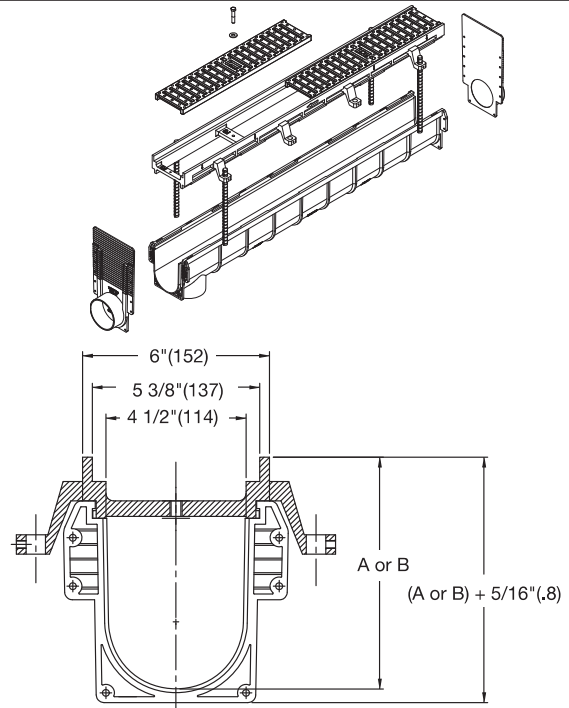
## Pre-Sloped Polypropylene Trench Drain System with Polypropylene Frame.

### Specification

Watts Dead Level® P Pre-Sloped Trench Drain System with 6"(152) wide x 48"(1219) long (standard) UV stabilized glass-filled polypropylene frame, UV stabilized talc-filled polypropylene channels with integral 4"(102) No Hub bottom outlet(s). System shall be frame-anchored, with (specify) grating to suit DIN Class (specify) load rating. System to include frame connectors, grate lockdowns, and construction covers. Installation to be performed in accordance with manufacturer's instructions and building code.

Grate Options		
Suffix	Description	
-BK	Stainless Steel Brickslot	Class E <input type="checkbox"/>
-BR	Decorative Bronze**	Class B <input type="checkbox"/>
-DI	Ductile Iron	Class C* <input type="checkbox"/>
-DI-ADA	Ductile Iron ADA	Class C* <input type="checkbox"/>
-FG	Fiberglass*	Class A <input type="checkbox"/>
-GDI	Galvanized Ductile Iron**	Class C* <input type="checkbox"/>
-GP	Galvanized Perforated	Class A <input type="checkbox"/>
-GS	Galvanized Slotted	Class A <input type="checkbox"/>
-PP	Polypropylene**	Class C <input type="checkbox"/>
-RGP	Reinforced Galvanized Perforated	Class C* <input type="checkbox"/>
-RGS	Reinforced Galvanized Slotted	Class C* <input type="checkbox"/>
-RSP	Reinforced Stainless Steel Perforated	Class C* <input type="checkbox"/>
-RSS	Reinforced Stainless Steel Slotted	Class C* <input checked="" type="checkbox"/>
-SP	Stainless Steel Perforated	Class A <input type="checkbox"/>
-SS	Stainless Steel Slotted	Class A <input type="checkbox"/>
-SCI	Solid Cast Iron**	Class C* <input type="checkbox"/>

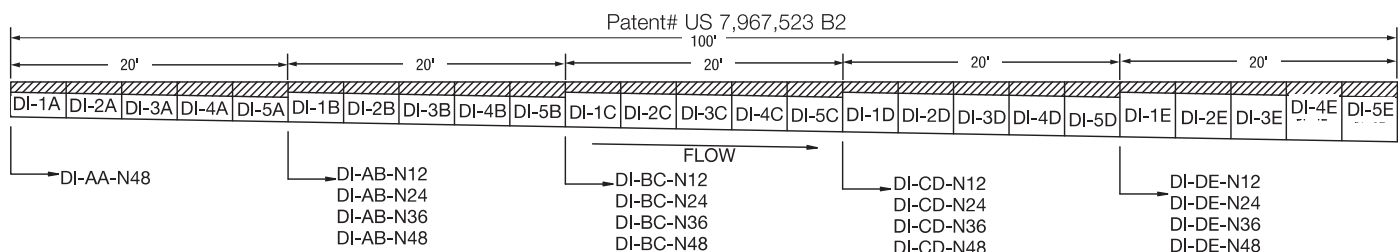
\*Load Class E with Frame Guards



Options		
Suffix	Description	
-B6	6"x24"x24" Catch Basin	<input type="checkbox"/>
-B6T	6"x24"x24" Catch Basin w/Trash Basket	<input type="checkbox"/>
-B24	24"x24"x24" Catch Basin (DI Grate Only)	<input type="checkbox"/>
-B24T	24"x24"x24" Catch Basin w/Trash Basket (DI Grate Only)	<input type="checkbox"/>
-FB	Bronze Frame Guard	<input type="checkbox"/>
-FG	Galvanized Steel Frame Guard	<input type="checkbox"/>
-FS	Stainless Steel Frame Guard	<input checked="" type="checkbox"/>
-OS	Outlet Strainer	<input type="checkbox"/>
-US	Buy American Compliant	<input type="checkbox"/>
-VP	Vandal Proof Grate Lockdowns	<input type="checkbox"/>

Ordered Sperate:

EDP	Part No.	Description
8189344	DL-SB	Outlet Strainer/Sediment Bucket



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## Dead Level® P Dimensional Data

Part #	Configuration	Length	Weight (lbs.)	Dim. A	Dim. B
PP-AA-N48	Neutral	48" (1219)	9	5-5/8" (143)	5-5/8" (143)
PP-1A	Sloped	48" (1219)	9	5-5/8" (143)	5-15/16" (151)
PP-2A	Sloped	48" (1219)	9	5-15/16" (151)	6-1/4" (159)
PP-3A	Sloped	48" (1219)	9	6-1/4" (159)	6-9/16" (167)
PP-4A	Sloped	48" (1219)	10	6-9/16" (167)	6-7/8" (175)
PP-5A	Sloped	48" (1219)	10	6-7/8" (175)	7-3/16" (183)
PP-AB-N12	Neutral	12" (305)	3	7-3/16" (183)	7-3/16" (183)
PP-AB-N24	Neutral	24" (610)	6	7-3/16" (183)	7-3/16" (183)
PP-AB-N36	Neutral	36" (914)	9	7-3/16" (183)	7-3/16" (183)
PP-AB-N48	Neutral	48" (1219)	10	7-3/16" (183)	7-3/16" (183)
PP-1B	Sloped	48" (1219)	10	7-3/16" (183)	7-1/2" (191)
PP-2B	Sloped	48" (1219)	10	7-1/2" (191)	7-13/16" (198)
PP-3B	Sloped	48" (1219)	10	7-13/16" (198)	8-1/8" (206)
PP-4B	Sloped	48" (1219)	11	8-1/8" (206)	8-7/16" (214)
PP-5B	Sloped	48" (1219)	11	8-7/16" (214)	8-3/4" (222)
PP-BC-N12	Neutral	12" (305)	3	8-3/4" (222)	8-3/4" (222)
PP-BC-N24	Neutral	24" (610)	6	8-3/4" (222)	8-3/4" (222)
PP-BC-N36	Neutral	36" (914)	9	8-3/4" (222)	8-3/4" (222)
PP-BC-N48	Neutral	48" (1219)	10	8-3/4" (222)	8-3/4" (222)
PP-1C	Sloped	48" (1219)	11	8-3/4" (222)	9-1/16" (230)
PP-2C	Sloped	48" (1219)	11	9-1/16" (230)	9-3/8" (238)
PP-3C	Sloped	48" (1219)	11	9-3/8" (238)	9-11/16" (246)
PP-4C	Sloped	48" (1219)	12	9-11/16" (246)	10" (254)
PP-5C	Sloped	48" (1219)	12	10" (254)	10-5/16" (262)
PP-CD-N12	Neutral	12" (305)	3	10-5/16" (262)	10-5/16" (262)
PP-CD-N24	Neutral	24" (610)	6	10-5/16" (262)	10-5/16" (262)
PP-CD-N36	Neutral	36" (914)	9	10-5/16" (262)	10-5/16" (262)
PP-CD-N48	Neutral	48" (1219)	10	10-5/16" (262)	10-5/16" (262)
PP-1D	Sloped	48" (1219)	12	10-5/16" (262)	10-5/8" (270)
PP-2D	Sloped	48" (1219)	12	10-5/8" (270)	10-15/16" (278)
PP-3D	Sloped	48" (1219)	12	10-15/16" (278)	11-1/4" (286)
PP-4D	Sloped	48" (1219)	13	11-1/4" (286)	11-9/16" (294)
PP-5D	Sloped	48" (1219)	13	11-9/16" (294)	11-7/8" (302)
PP-DE-N12	Neutral	12" (305)	4	11-7/8" (302)	11-7/8" (302)
PP-DE-N24	Neutral	24" (610)	7	11-7/8" (302)	11-7/8" (302)
PP-DE-N36	Neutral	36" (914)	10	11-7/8" (302)	11-7/8" (302)
PP-DE-N48	Neutral	48" (1219)	11	11-7/8" (302)	11-7/8" (302)
PP-1E	Sloped	48" (1219)	13	11-7/8" (302)	12-3/16" (310)
PP-2E	Sloped	48" (1219)	13	12-3/16" (310)	12-1/2" (318)
PP-3E	Sloped	48" (1219)	13	12-1/2" (318)	12-13/16" (325)
PP-4E	Sloped	48" (1219)	14	12-13/16" (325)	13-1/8" (333)
PP-5E	Sloped	48" (1219)	14	13-1/8" (333)	13-7/16" (341)

### NOTICE

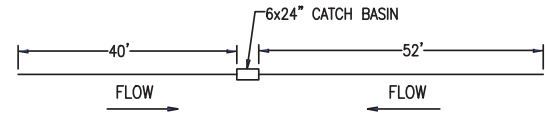
The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation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



## How to Configure & Order Dead Level® Trench System

### 1. Sketch General Layout

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



### 2. Specify Frame

Ductile Iron  
Polypropylene

### Ordering Code

D or DX  
P

### 3. Specify Length in Feet

(Do not include Catch Basins)

Numeric

### 4. Specify Outlet

Straight Run End Outlet  
Straight Run Center Outlet  
Other Configuration

EO  
CO  
XO

### 5. Specify Grating

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

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

### 6. Specify Catch Basin

(If Required)  
6x6x24" Catch Basin  
24x24x24" Catch Basin

B6  
B24

### 7. Specify Frame Guards

(If Required)  
Galvanized Steel  
Stainless Steel

FG  
FS

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

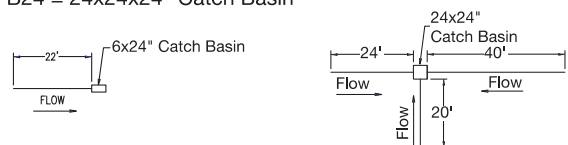
EX. P22-EO-RSS-B6-FS

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

### 8b. Configure Special Run (XO)

EX. D84-XO-DI-B24

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





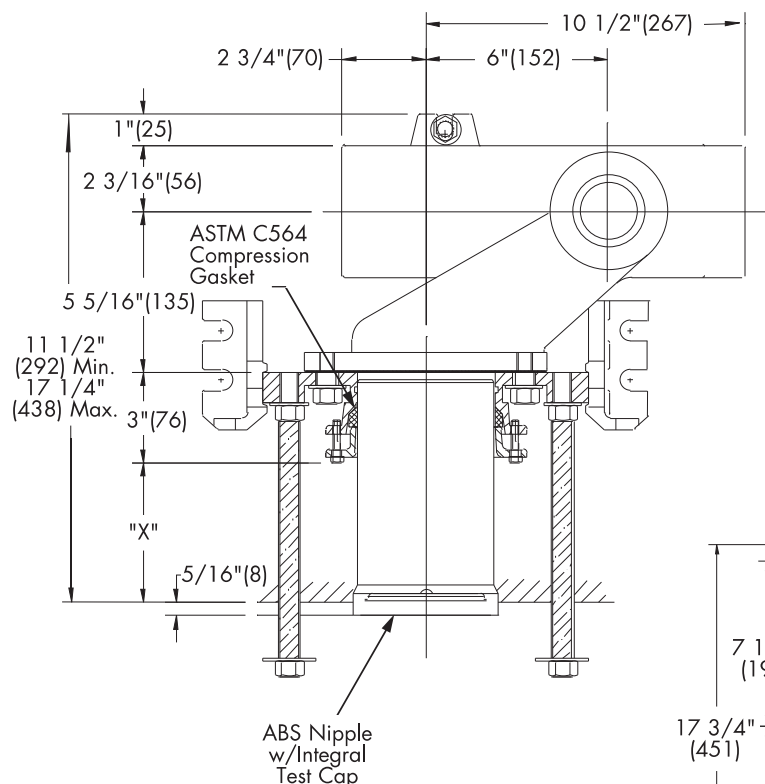


## ISCA-101-L/R

Tag: WC-1 TO WC-3

**Industry Standard  
Single Horizontal  
Adjustable Closet Carrier**

**SPECIFICATION:** Watts Drainage Products ISCA-101-L/R *Industry Standard* single horizontal adjustable water closet carrier with epoxy coated cast iron fitting, 4" (102) no hub waste and 2" (51) no hub vent connections, epoxy coated cast iron patent pending compression seal faceplate assembly, epoxy coated cast iron foot supports adjustable for standard and wheelchair height, adjustable ABS nipple with integral test cap and neoprene bowl gasket, plated hardware and chrome cap nuts.



**Note:**  
Left hand carrier shown; right hand carrier is mirror image.

**NOTICE**

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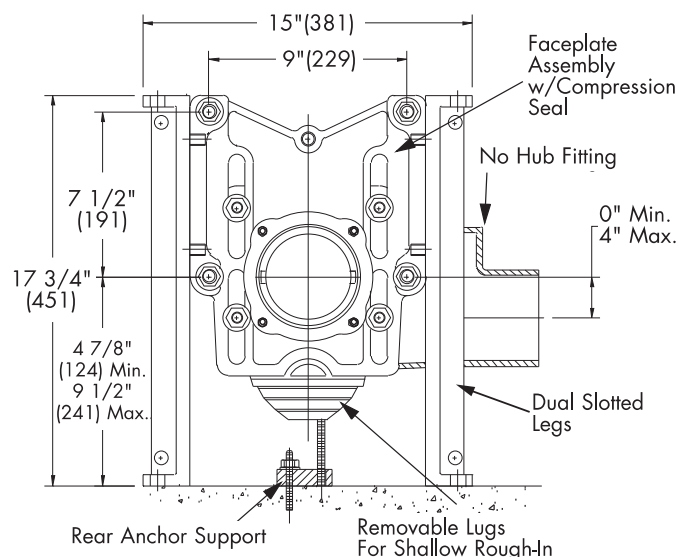
Suffix	Options (Select One or More) Description	
-3	3" No Hub Fitting	<input type="checkbox"/>
-36	36" Long Barrel Fitting	<input type="checkbox"/>
-CA-100-EXT	Aux. Support System w/Extended Nipple	<input type="checkbox"/>
-M1	ABS Extended Nipple (Up to 24")	<input type="checkbox"/>
-M3	Galvanized Steel Nipple 7"	<input type="checkbox"/>
-M11	Tiling Frame	<input type="checkbox"/>
-M20	Flush Valve Support	<input type="checkbox"/>

**NOTICE**

Siphon jet (4 bolt) arrangement shown. Invert faceplate assembly for blow-out (3 bolt) bowls.

Anchor legs to concrete floor with minimum 1/2" (13) anchor bolts (by others).

**X = 5-3/4" (146) Maximum with Standard Nipple**



Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Engineer \_\_\_\_\_

Representative \_\_\_\_\_

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**USA:** Tel: (800) 338-2581 • Fax: (828) 248-3929 • Watts.com

**Canada:** Tel: (905) 332-4090 • Fax: (905) 332-7068 • Watts.ca

**Latin America:** Tel: (52) 81-1001-8600 • Fax: (52) 81-8000-7091 • Watts.com

ES-WD-ISCA-101-L/R-CAN 1705



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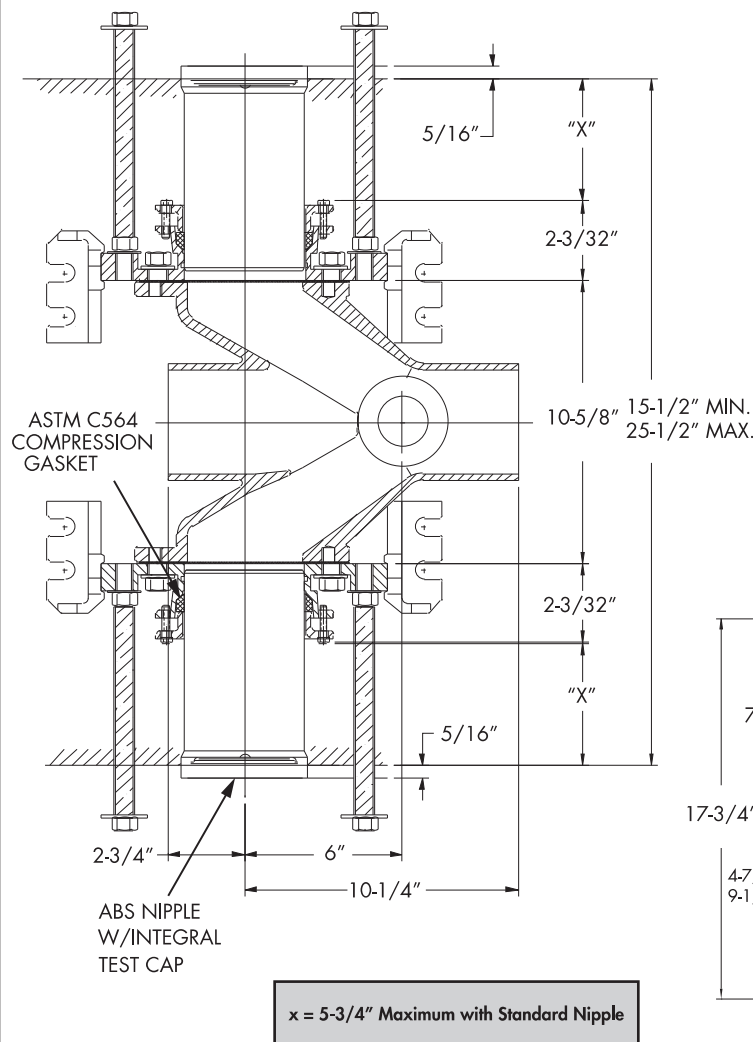


# ISCA-101-D

Tag: WC-1 TO WC-3

## Industry Standard Back-To-Back Horizontal Adjustable Closet Carrier

**SPECIFICATION:** Watts Drainage Products ISCA-101-D *Industry Standard* back-to-back horizontal adjustable water closet carrier with epoxy coated cast iron fitting, 4"(102) no hub waste and 2"(51) no hub vent connections, epoxy coated cast iron patent pending compression seal faceplate assembly, epoxy coated cast iron foot supports adjustable for standard and wheelchair height, adjustable ABS nipple with integral test cap and neoprene bowl gasket, plated hardware and chrome cap nuts.



Options (Select One or More)		
Suffix	Description	
-36	36" Long Barrel Fitting	<input type="checkbox"/>
CA-100-EXT	Aux. Support System w/Extended Nipple	<input type="checkbox"/>
-M1	ABS Extended Nipple (Up to 24")	<input type="checkbox"/>
-M3	Galvanized Steel Nipple 7"	<input type="checkbox"/>
-M11	Tiling Frame	<input type="checkbox"/>
-M20	Flush Valve Support	<input type="checkbox"/>

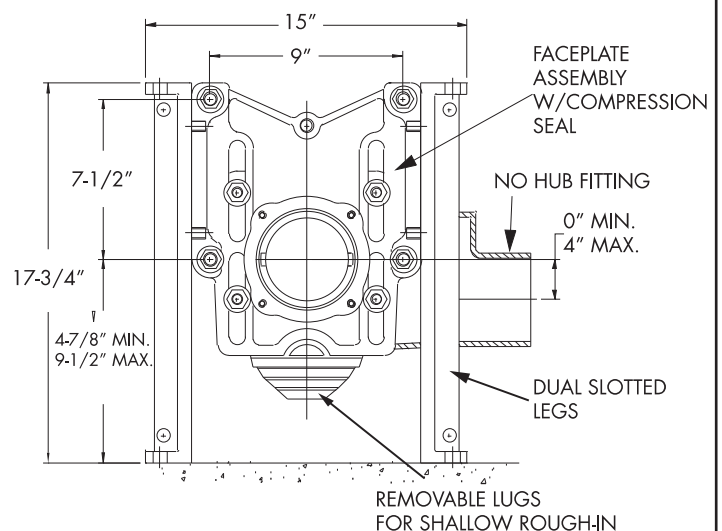
### NOTICE

Siphon jet (4 bolt) arrangement shown. Invert faceplate assembly for blow-out (3 bolt) bowls.

Anchor legs to concrete floor with minimum 1/2" lag bolts (by others).

### NOTICE

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Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Engineer \_\_\_\_\_

Representative \_\_\_\_\_

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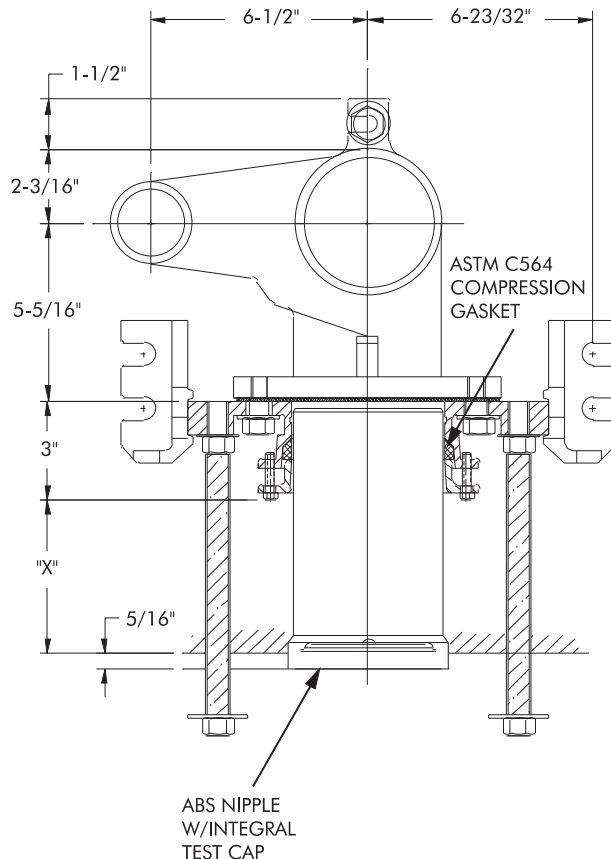


# ISCA-121

Tag: WC-1 TO WC-3

## Industry Standard Single Vertical Adjustable Closet Carrier

**SPECIFICATION:** Watts Drainage Products ISCA-121 *Industry Standard* single vertical adjustable water closet carrier with epoxy coated cast iron fitting, 4"(102) no hub waste and 2"(51) no hub vent connections, epoxy coated cast iron patent pending compression seal faceplate assembly, epoxy coated cast iron foot supports adjustable for standard and wheelchair height, adjustable ABS nipple with integral test cap and neoprene bowl gasket, plated hardware and chrome cap nuts.

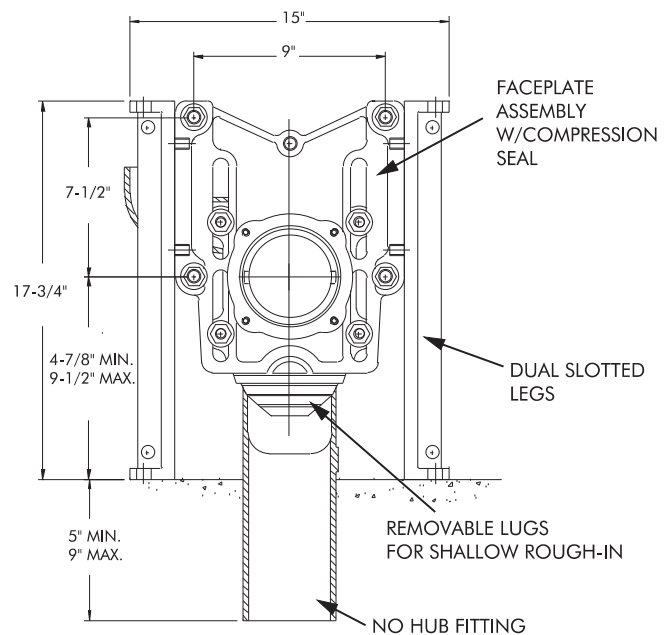


Options (Select One or More)		
Suffix	Description	
CA-100-EXT	Aux. Support System w/Extended Nipple	<input type="checkbox"/>
-M1	ABS Extended Nipple (Up to 24")	<input type="checkbox"/>
-M3	Galvanized Steel Nipple 7"	<input type="checkbox"/>
-M11	Tiling Frame	<input type="checkbox"/>
-M20	Flush Valve Support	<input type="checkbox"/>

**Notes:**  
Siphon jet (4 bolt) arrangement shown. Invert faceplate assembly for blow-out (3 bolt) bowls.

Anchor legs to concrete floor with minimum 1/2" lag bolts (by others).

**X = 5-3/4" Maximum with Standard Nipple**



Job Name \_\_\_\_\_ Contractor \_\_\_\_\_

Job Location \_\_\_\_\_ Contractor's P.O. No. \_\_\_\_\_

Engineer \_\_\_\_\_ Representative \_\_\_\_\_

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. Dimensions are subject to manufacturing tolerances.



CANADA: 5435 North Service Road, Burlington, ON, L7L 5H7 TEL: 905-332-6718 TOLL-FREE: 1-888-208-8927 Website: [www.wattsdrainage.ca](http://www.wattsdrainage.ca)



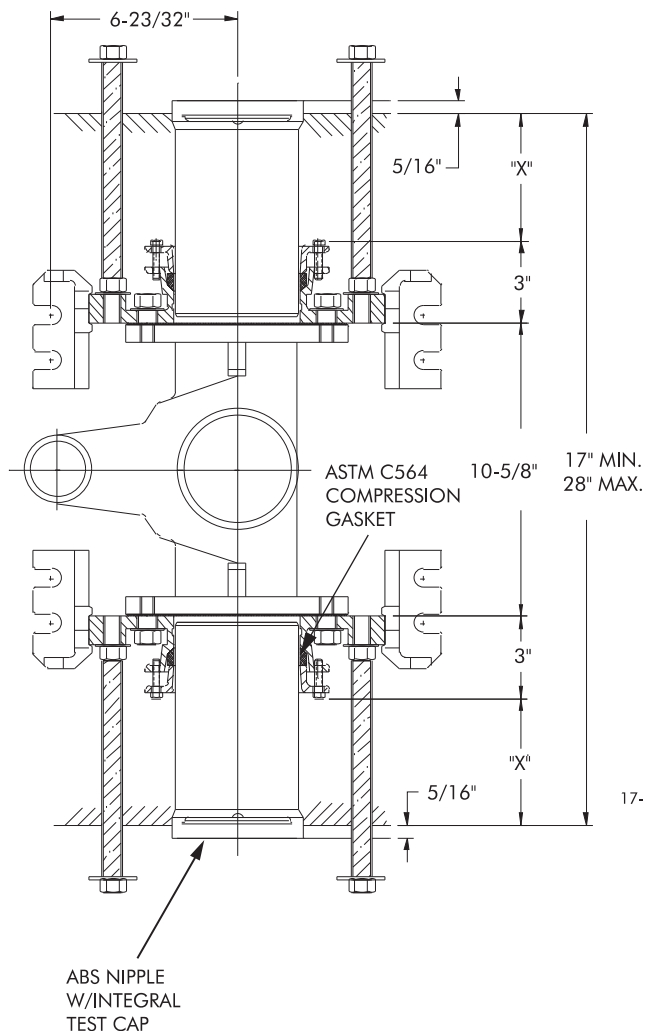


# ISCA-121-D

Tag: WC-1 TO WC-3

## Industry Standard Back-To-Back Vertical Adjustable Closet Carrier

**SPECIFICATION:** Watts Drainage Products ISCA-121-D *Industry Standard* back-to-back vertical adjustable water closet carrier with epoxy coated cast iron fitting, 4"(102) no hub waste and 2"(51) no hub vent connections, epoxy coated cast iron patent pending compression seal faceplate assembly, epoxy coated cast iron foot supports adjustable for standard and wheelchair height, adjustable ABS nipple with integral test cap and neoprene bowl gasket, plated hardware and chrome cap nuts.



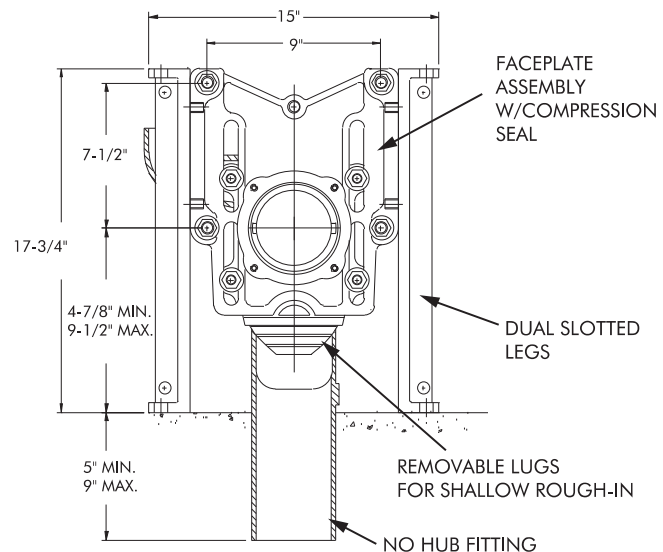
Options (Select One or More)		
Suffix	Description	
CA-100-EXT	Aux. Support System w/Extended Nipple	<input type="checkbox"/>
-M1	ABS Extended Nipple (Up to 24")	<input type="checkbox"/>
-M3	Galvanized Steel Nipple 7"	<input type="checkbox"/>
-M11	Tiling Frame	<input type="checkbox"/>
-M20	Flush Valve Support	<input type="checkbox"/>

**Notes:**

Siphon jet (4 bolt) arrangement shown. Invert faceplate assembly for blow-out (3 bolt) bowls.

Anchor legs to concrete floor with minimum 1/2" lag bolts (by others).

**X = 5-3/4" Maximum with Standard Nipple**



Job Name \_\_\_\_\_ Contractor \_\_\_\_\_

Job Location \_\_\_\_\_ Contractor's P.O. No. \_\_\_\_\_

Engineer \_\_\_\_\_ Representative \_\_\_\_\_

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200 Tesma Way,  
Concord, ON, L4K 5C2  
(905) 738-1400

# Submittal Item Information

Feb 6, 2024

## Spec Section

Mechanical

## Sub Section

Plumbing

## Type

Shop Drawings

## Description

Shower Drains, SH-1 & SH-2



**SHOP DRAWING SUBMITTAL PACKAGE**

**CHRIS GIBSON RECREATION CENTRE  
- RENOVATION AND ADDITION - 125  
MCLAUGHLIN ROAD NORTH  
BRAMPTON**

**125 MCLAUGHLIN ROAD, Brampton, Ontario, Canada**

---

**QUOTE NUMBER**

**Q-75262-S-2**

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**PREPARED FOR**

**GTA WHOLESALE**

**12/01/2023**

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THIS BOOK IS PREPARED TO  
THE BEST OF OUR ABILITY  
AND IS OUR INTERPRETATION  
OF THE INFORMATION  
PERTAINING TO THIS JOB AS  
PRESENTED TO US

**BLÜCHER®****BWC-100**

Tag: SH-1 &amp; SH-2

**WaterLine Shower Channel  
w/Membrane Clamp**

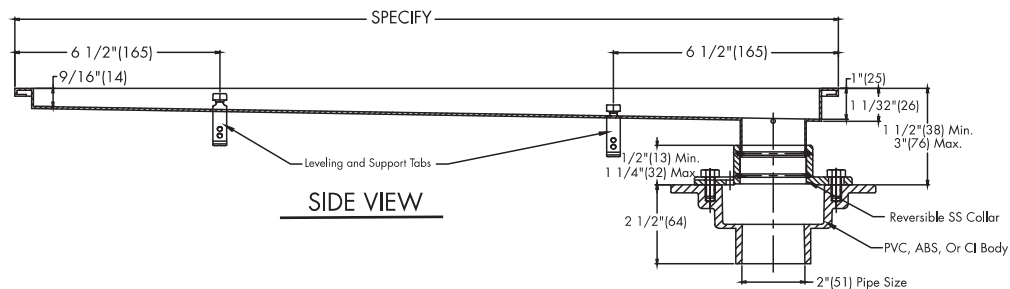
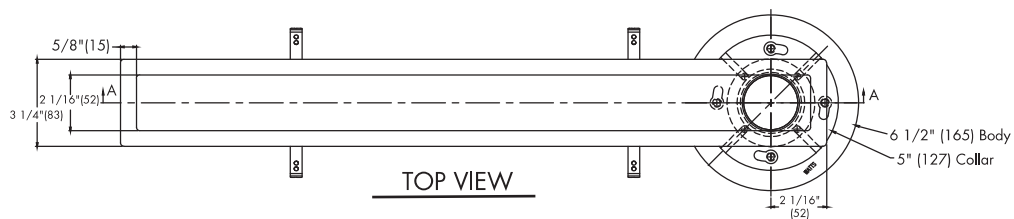
**SPECIFICATION:** BLÜCHER BWC-100 AISI Type 304 stainless steel 3-1/4" (83) wide x (specify) long WaterLine Shower Channel with reversible cast stainless steel collar with dual O-ring seals, weepholes, and 2" (50) no hub epoxy coated cast iron (standard), PVC, or ABS body.

**Optional Gratings**

Suffix	Description	
-None	Vienna (Standard)	<input type="checkbox"/>
-C	Copenhagen	<input checked="" type="checkbox"/>
-Q	Special (Specify - 100pc Minimum)	<input type="checkbox"/>

**Dimensional Chart**

Model	Pipe Size D	Top Size W x L
BWC-126	2" (50) No Hub	3-1/4" x 26" (82x660)
BWC-130	2" (50) No Hub	3-1/4" x 30" (82x762)
BWC-136	2" (50) No Hub	3-1/4" x 36" (82x914)
BWC-142	2" (50) No Hub	3-1/4" x 42" (82x1067)
BWC-148	2" (50) No Hub	3-1/4" x 48" (82x1220)
BWC-160	2" (50) No Hub	3-1/4" x 60" (82x1524)
BWC-172	2" (50) No Hub	3-1/4" x 72" (82x1829)

**Options**

-60	2" (50)	PVC Socket	<input checked="" type="checkbox"/>
-61	2" (50)	ABS Socket	<input type="checkbox"/>
-THD	2" (50)	Threaded	<input type="checkbox"/>
-VP		Vandal Proof Grate	<input checked="" type="checkbox"/>

Job Name \_\_\_\_\_ Contractor \_\_\_\_\_

Job Location \_\_\_\_\_ Approval \_\_\_\_\_

Engineer \_\_\_\_\_ Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_ Representative \_\_\_\_\_

**BLÜCHER®**

A Watts Water Technologies Company

USA: Tel: (828) 248-3995 • Fax: (828) 248-3929 • BLUCHERDrains.com

Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • BLUCHERDrains.ca





200 Tesma Way,  
Concord, ON, L4K 5C2  
(905) 738-1400

# Submittal Item Information

Feb 6, 2024

## Spec Section

Mechanical

## Sub Section

Plumbing

## Type

Shop Drawings

## Description

Drains and hose bibs:  
carrier for BF-1, carrier for DF-1, carriers for Lav-2, Lav-3 & Lav-4, carriers (various) for WC-1, WC-2 & WC-3  
FD-1, FD-2, FFD, TD-1  
HB-1, HB-2, HB-3, HB-4



**SHOP DRAWING SUBMITTAL PACKAGE**

**CHRIS GIBSON RECREATION CENTRE  
- RENOVATION AND ADDITION - 125  
MCLAUGHLIN ROAD NORTH  
BRAMPTON**

**125 MCLAUGHLIN ROAD, Brampton, Ontario, Canada**

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**QUOTE NUMBER**

**Q-75261-S-2**

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**PREPARED FOR**

**GTA WHOLESALE**

**12/01/2023**

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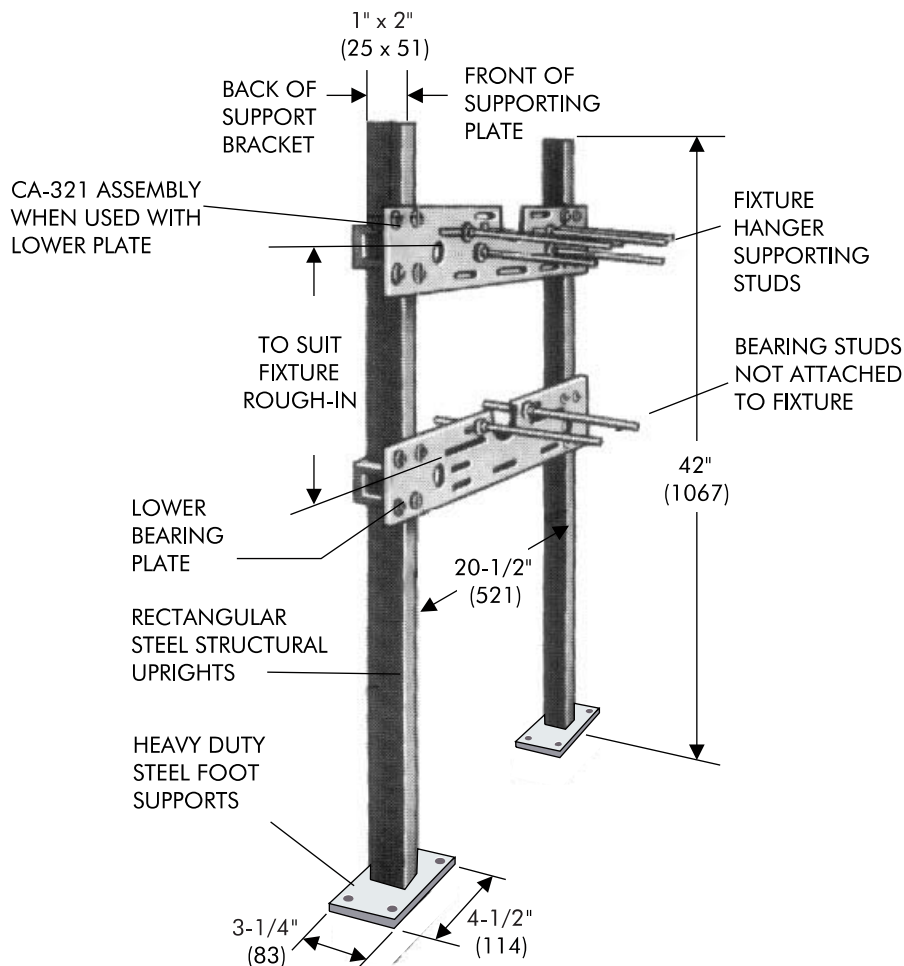
THIS BOOK IS PREPARED TO  
THE BEST OF OUR ABILITY  
AND IS OUR INTERPRETATION  
OF THE INFORMATION  
PERTAINING TO THIS JOB AS  
PRESENTED TO US




**CA-321**

 Tag: BF-1
**Urinal Carriers**
**CA-321**

**SPECIFICATION:** Watts Drainage Products CA-321 floor mounted urinal carrier with heavy gauge steel uprights with integral welded feet, universal steel hanger support plate and bottom bearing plate, and plated hardware.


 Order Code: **CA-321-**

Ex. CA-321-M51

Options (Select One or More)		
Suffix	Description	
-M51	Wall Thickness over 5", per add inch (single)	<input type="checkbox"/>
-M52	Wall Thickness over 12", per inch (Back to Back)	<input type="checkbox"/>
-M53	Vandal Proof Trim, Single	<input type="checkbox"/>
-M59	Floor to Ceiling Adaptor, Single	<input type="checkbox"/>
-M60	Valve Supporting Plate, Single	<input type="checkbox"/>
-M61	Valve Supporting Bar, Single	<input type="checkbox"/>
-M62	Flush Valve Piping Support, Single	<input type="checkbox"/>

**NOTE: FOOT SUPPORTS SHOULD BE SECURELY ANCHORED TO FLOOR WITH 1/2" BOLTS AND ANCHORS BY OTHERS.**

**NOTE: Recommended for support of wall-hung urinals independent of wall.**

Job Name \_\_\_\_\_ Contractor \_\_\_\_\_

Job Location \_\_\_\_\_ Contractor's P.O. No. \_\_\_\_\_

Engineer \_\_\_\_\_ Representative \_\_\_\_\_

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. Dimensions are subject to manufacturing tolerances.


 CANADA: 5435 North Service Road, Burlington, ON, L7L 5H7 TEL: 905-332-6718 TOLL-FREE: 1-888-208-8927 Website: [www.wattsdrainage.ca](http://www.wattsdrainage.ca)




**CA-311**

Tag: DF-1

**Floor Mounted Plate Type  
Lavatory/Water Cooler Carrier**

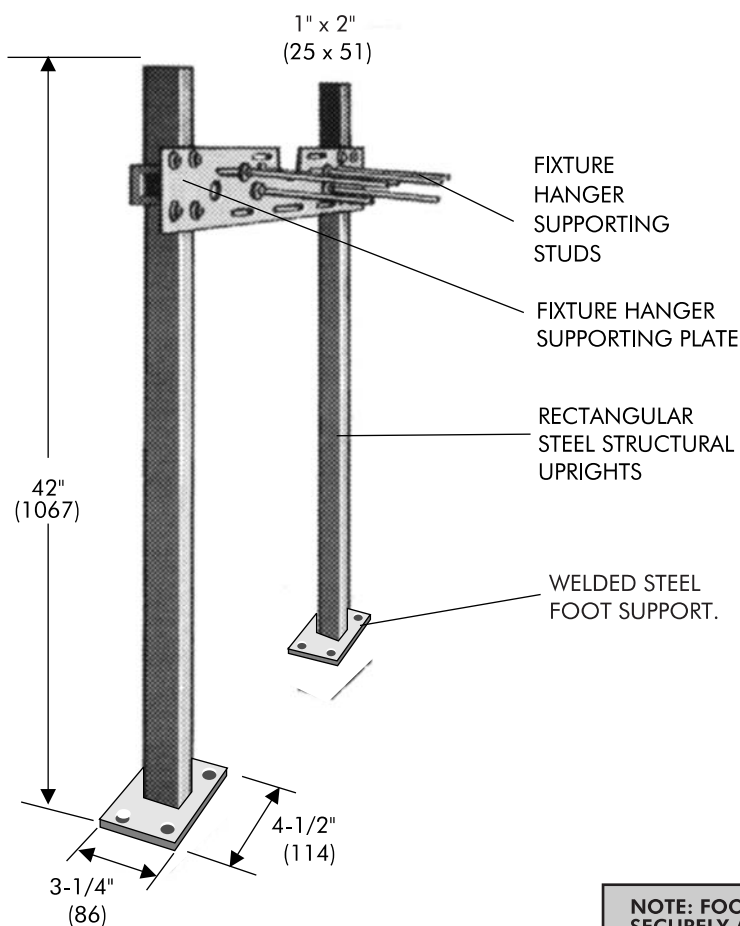
**SPECIFICATION:** Watts Drainage Products CA-311 fixture carrier with heavy duty foot support, heavy duty rectangular steel structural uprights and heavy duty fixture hanger supporting plate.

**FUNCTION:** Recommended for support of wall-hung fixtures independent of wall. Designed for use in conjunction with fixtures with hanger plate supplied by fixture manufacturer.

Order Code: **CA-311**

**Ex. CA-311-M51**

Options (Select One or More)		
Suffix	Description	
-M51	Wall Thickness over 5", per add inch (single)	<input type="checkbox"/>
-M52	Wall Thickness over 12", per inch (Back to Back)	<input type="checkbox"/>
-M53	Vandal Proof Trim, Single	<input type="checkbox"/>
-M59	Floor to Ceiling Adaptor, Single	<input type="checkbox"/>
-M60	Valve Supporting Plate, Single	<input type="checkbox"/>
-M61	Valve Supporting Bar, Single	<input type="checkbox"/>
-M62	Flush Valve Piping Support, Single	<input type="checkbox"/>



**NOTE: FOOT SUPPORTS SHOULD BE SECURELY ANCHORED TO FLOOR WITH 1/2" BOLTS AND ANCHORS BY OTHERS.**

Job Name \_\_\_\_\_ Contractor \_\_\_\_\_

Job Location \_\_\_\_\_ Contractor's P.O. No. \_\_\_\_\_

Engineer \_\_\_\_\_ Representative \_\_\_\_\_

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## Engineering Specification

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

Tag \_\_\_\_\_

# FD-100-C-L

## Floor Drain With Square Heavy Duty Strainer

### Specification

Watts FD-100-C-L epoxy coated cast iron floor drain with anchor flange, reversible membrane clamp with primary and secondary weepholes, 1/2"(13) thick reinforced (specify size) adjustable square nickel bronze (standard) strainer, and no hub (MJ) (standard) outlet.

Pipe Sizing		
Suffix	Description	
2	2"(51) Pipe Size	<input type="checkbox"/>
3	3"(76) Pipe Size	<input type="checkbox"/>
4	4"(102) Pipe Size	<input type="checkbox"/>
6	6"(152) Pipe Size	<input type="checkbox"/>

Outlet Type		
Suffix	Description	
NH	No Hub (MJ)	<input type="checkbox"/>
P	Push On	<input type="checkbox"/>
T	Threaded Outlet	<input type="checkbox"/>
X	Inside Caulk	<input type="checkbox"/>

Strainer		
Suffix	Description	
L5-1	5" x 5"(127x127), Nickel Bronze	<input checked="" type="checkbox"/>
L5-4	5" x 5"(127x127), Ductile Iron	<input type="checkbox"/>
L6-1	6" x 6"(152x152), Nickel Bronze	<input type="checkbox"/>
L8-1	8" x 8"(203x203), Nickel Bronze	<input type="checkbox"/>

Options		
Suffix	Description	
-5	Sediment Bucket	<input type="checkbox"/>
-6	Vandal Proof	<input checked="" type="checkbox"/>
-8	Backwater Valve (3, 4" Only)	<input type="checkbox"/>
-12	Galvanized Top	<input type="checkbox"/>
-13	All Galvanized	<input type="checkbox"/>
-15	Strainer Extension (DD-50)	<input type="checkbox"/>
-113M	Special Epoxy from 3M Range	<input type="checkbox"/>
-F4-50	4" Round Cast Iron Funnel	<input type="checkbox"/>
-F4-1	4" Round Nickel Bronze Funnel	<input type="checkbox"/>
-F6-1	6" Round Nickel Bronze Funnel	<input type="checkbox"/>
-G-50	4x9" Oval Cast Iron Funnel	<input type="checkbox"/>
-G-1	4x9" Oval Nickel Bronze Funnel	<input type="checkbox"/>
-S0	Side Outlet	<input type="checkbox"/>
-Z	Elastomeric Flange	<input type="checkbox"/>

Optional Body Material		
Suffix	Description	
-60	PVC Body w/Socket Outlet	<input type="checkbox"/>
-61	ABS Body w/Socket Outlet	<input checked="" type="checkbox"/>

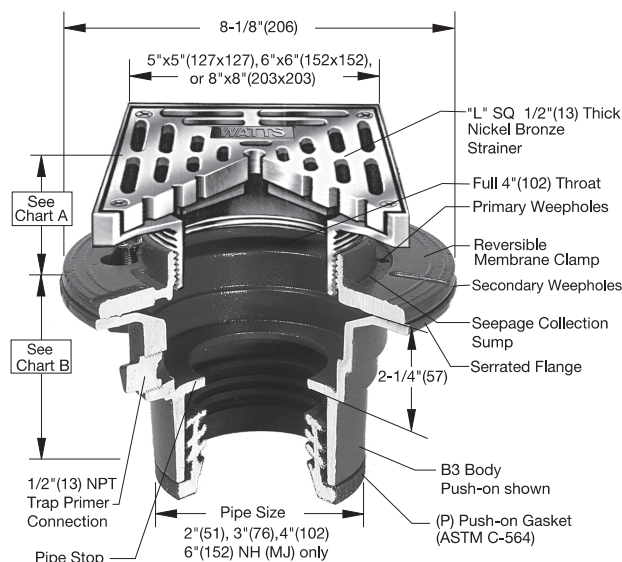


Chart A					
Str. Dia.	Min.	Max.	Load Rating	Free Area Sq. In.	
5" x 5" (127)	13/16" (21)	2 1/2" (64)	*XHD	9	
6" x 6" (152)	7/8" (22)	2 3/4" (70)	*HD	12	
8" x 8" (203)	1" (25)	2-1/4" (57)	*HD	26	

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

### 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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### NOTICE

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

ASME Ratings are as follows:

HD - Safe Live Load 5000-749 9lbs.(2250-3375kg)

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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ES-WD-FD-100-C-L-CAN 2239

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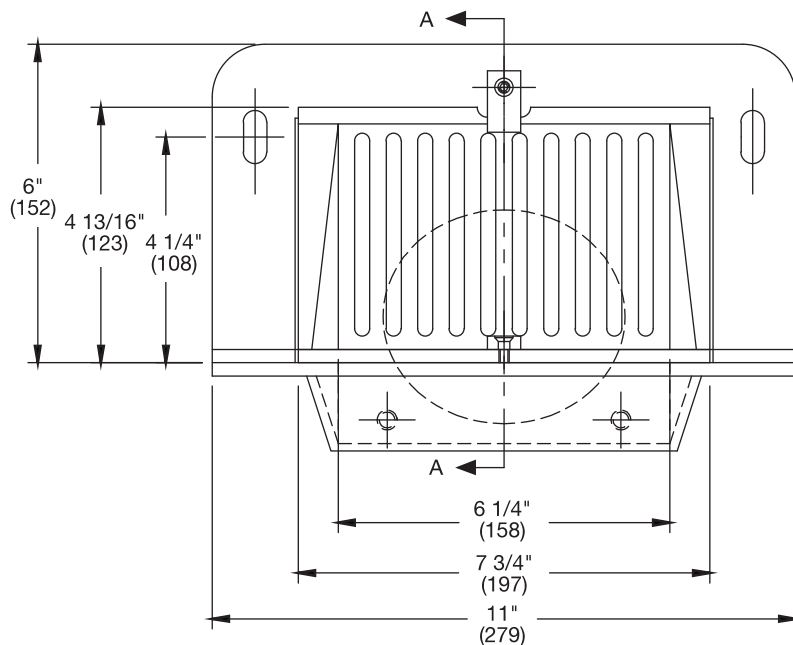


# BV-600

Tag: FD-2

## Pit Drain with Backwater Valve

**SPECIFICATION:** Watts Drainage BV-600 epoxy coated cast iron pit drain with backwater valve with bronze seat and flapper, secured grate, and no hub outlet.



Front View

Pipe Size	No Hub (MJ)	
	A	B
2"(51)	5-1/8"(130)	6-1/2"(165)
3"(76)	4-1/2"(114)	5-3/4"(146)
4"(102)	4"(102)	5-1/8"(130)
6"(152)	3-1/2"(90)	4-13/16"(122)

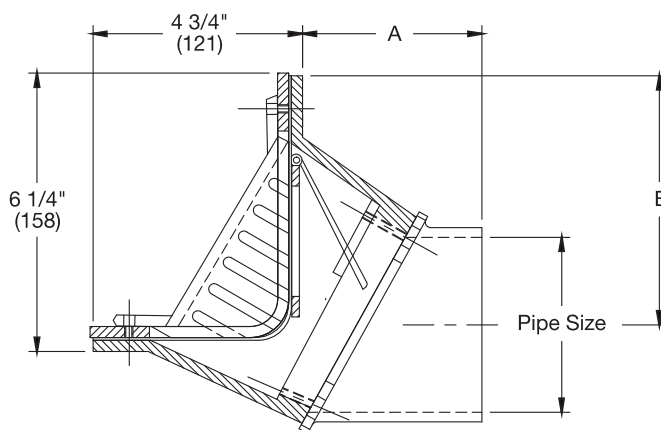
Free Area Sq. In.	15
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Pipe Sizing (Select One)		
Suffix	Description	
2	2"(51) Pipe Size	<input type="checkbox"/>
3	3"(76) Pipe Size	<input type="checkbox"/>
4	4"(102) Pipe Size	<input type="checkbox"/>
6	6"(152) Pipe Size	<input type="checkbox"/>

Options (Select One or More)		
Suffix	Description	
-1	Nickel Bronze Grate & Frame	<input type="checkbox"/>
-6	Vandal Proof	<input type="checkbox"/>
-13	Galvanized	<input type="checkbox"/>
-T	Threaded Outlet	<input type="checkbox"/>
-US	Buy American Compliant 	<input type="checkbox"/>



Side View

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Engineer \_\_\_\_\_

Representative \_\_\_\_\_

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*A Watts Water Technologies Company*

## Engineering Specification

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

Tag \_\_\_\_\_

# FD-100-C-A

## Floor Drain With Round Strainer Specification

Watts FD-100-C-A epoxy coated cast iron floor drain with anchor flange, reversible membrane clamp with primary and secondary weepholes, 1/4"(6) thick (specify diameter) adjustable nickel bronze (standard) strainer, and no hub (MJ) (standard) outlet.

Pipe Sizing			Options		
Suffix	Description		Suffix	Description	
2	2"(51) Pipe Size	<input type="checkbox"/>	-5	Sediment Bucket	<input type="checkbox"/>
3	3"(76) Pipe Size	<input type="checkbox"/>	-6	Vandal Proof	<input checked="" type="checkbox"/>
4	4"(102) Pipe Size	<input type="checkbox"/>	-8	Backwater Valve (2, 3, 4" Only)	<input type="checkbox"/>
6	6"(152) Pipe Size	<input type="checkbox"/>	-12	Galvanized Top	<input type="checkbox"/>
Outlet Type			-13	All Galvanized	<input type="checkbox"/>
Suffix	Description		-15	Strainer Extension (DD-50)	<input type="checkbox"/>
NH	No Hub (MJ)	<input type="checkbox"/>	-113M	Special Epoxy from 3M Range	<input type="checkbox"/>
P	Push On	<input type="checkbox"/>	-F4-50	4" Round Cast Iron Funnel	<input type="checkbox"/>
T	Threaded Outlet	<input type="checkbox"/>	-F4-1	4" Round Nickel Bronze Funnel	<input checked="" type="checkbox"/>
X	Inside Caulk	<input type="checkbox"/>	-F6-1	6" Round Nickel Bronze Funnel	<input type="checkbox"/>
Strainer			-G-50	4x9" Oval Cast Iron Funnel	<input type="checkbox"/>
Suffix	Description		-G-1	4x9" Oval Nickel Bronze Funnel	<input type="checkbox"/>
A5-1	5"(127) Dia., Nickel Bronze	<input checked="" type="checkbox"/>	-S0	Side Outlet	<input type="checkbox"/>
A6-1	6"(152) Dia., Nickel Bronze	<input type="checkbox"/>	-Z	Elastomeric Flange	<input type="checkbox"/>
A7-1	7"(178) Dia., Nickel Bronze	<input type="checkbox"/>	Optional Body Material		
A8-1	8"(206) Dia., Nickel Bronze	<input type="checkbox"/>	Suffix	Description	
			-60	PVC Body w/Socket Outlet	<input type="checkbox"/>
			-61	ABS Body w/Socket Outlet	<input type="checkbox"/>

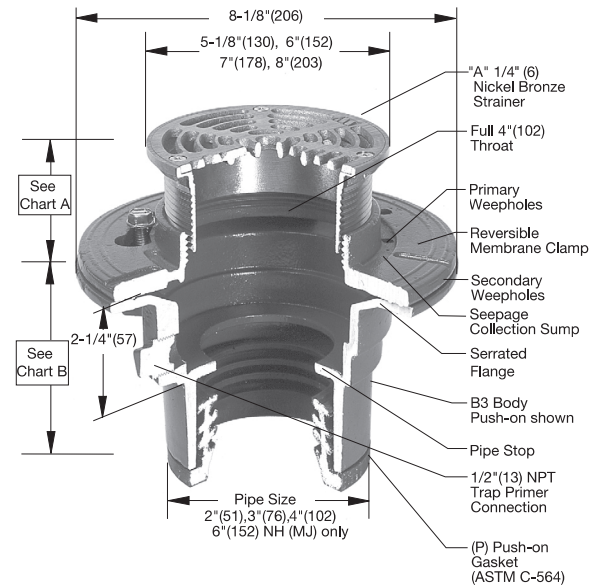


Chart A				
Str. Dia.	Min.	Max.	Load Rating	Free Area Sq. In.
5"(127)	13/16"(21)	2-1/2"(64)	*MD	8
6"(152)	7/8"(22)	2-3/4"(70)	*MD	9
7"(178)	11/16"(17)	2-1/2"(64)	*MD	12
8"(203)	7/8"(22)	2-7/8"(73)	*MD	18

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

### NOTICE

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ES-WD-FD-100-C-A 2238

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# HY-725

Tag: HB-1

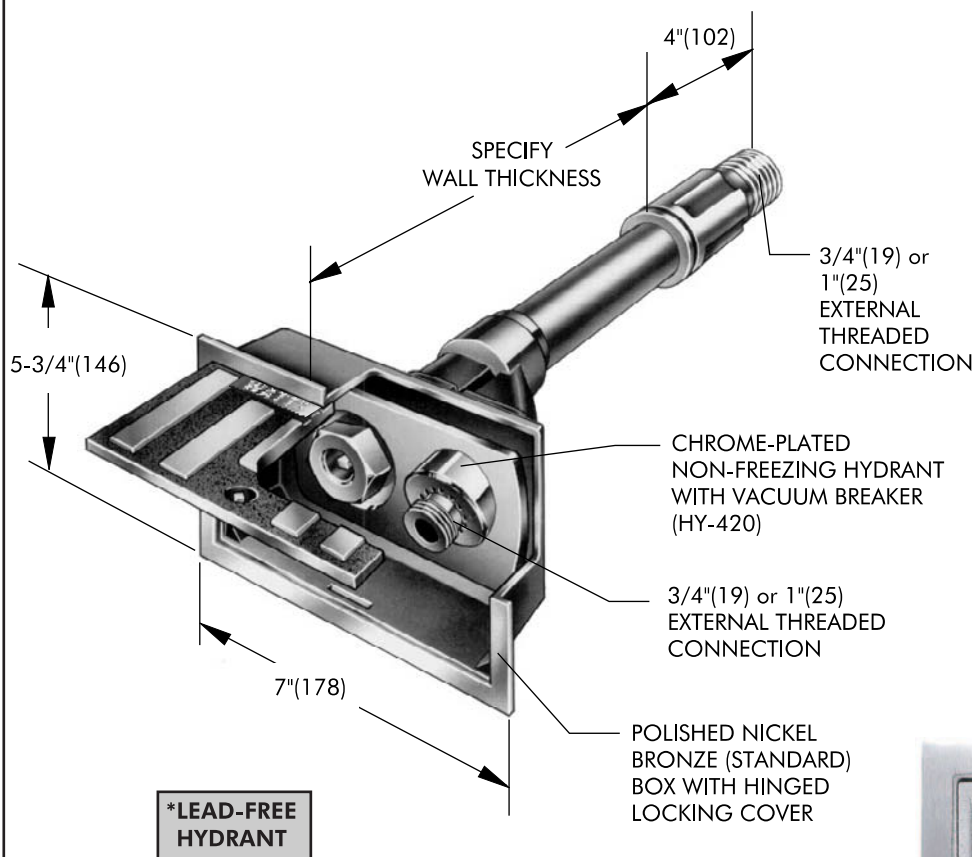
## Non-Freeze Wall Hydrant with NB Box, Integral Vacuum Breaker

**SPECIFICATION:** Watts Drainage Products HY-725 concealed non-freeze key operated wall hydrant with nickel bronze (standard) box and door, chrome plated hydrant face, integral vacuum breaker, 3/4"(19) hose connection, all bronze head, seat casting and internal working parts, galvanized wall casing, and hydrant key.

**FUNCTION:** For recessed installation in exterior walls where self-draining integral vacuum breaker is required in areas subject to freezing.

Order Code: HY-725- ☐ - ☐

Ex. HY-725-10-K



Recommended Wall Opening:  
5-1/4" x 6-1/4" (133 x 158)

Wall Thickness (Select One)		
Suffix	Description	
6	6"(152) Thick	<input type="checkbox"/>
8	8"(203) Thick	<input type="checkbox"/>
10	10"(254) Thick	<input type="checkbox"/>
12	12"(305) Thick	<input type="checkbox"/>
14	14"(356) Thick	<input type="checkbox"/>
16	16"(406) Thick	<input type="checkbox"/>
18	18"(457) Thick	<input type="checkbox"/>
20	20"(508) Thick	<input type="checkbox"/>
22	22"(559) Thick	<input type="checkbox"/>
24	24"(610) Thick	<input type="checkbox"/>
Other	Specify _____	

Options (Select One or More)		
Suffix	Description	
-1"	1" Hose Connection	<input type="checkbox"/>
-88	Wall Clamp	<input type="checkbox"/>
-K	Keyed Custodian Operation Cylinder Lock	<input checked="" type="checkbox"/>
-SS	Cast Stainless Steel Box	<input checked="" type="checkbox"/>



Standard finish is polished nickel bronze.

Job Name \_\_\_\_\_ Contractor \_\_\_\_\_

Job Location \_\_\_\_\_ Contractor's P.O. No. \_\_\_\_\_

Engineer \_\_\_\_\_ Representative \_\_\_\_\_

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. Dimensions are subject to manufacturing tolerances.



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## Engineering Specification

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

# LEAD FREE\*

## Series LFSC-8

### Lead Free\* Cast Brass Hose Bibbs with Separate Tamper-proof Vacuum Breaker

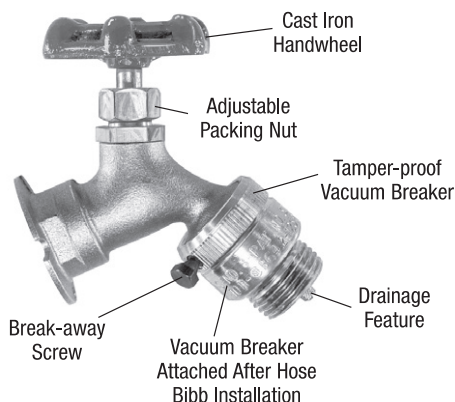
Watts offers six styles of hose bibbs which are supplied with separate vacuum breaker to be attached to the hose bibb after hose bibb installation. Once the vacuum breaker is properly installed to the hose bibb it is tamper-proof. This provides backsiphonage protection for potable hoses connected to hose thread faucets. Garden hoses are an extension of the plumbing system and have been known to cause illness or death when unprotected in uses such as with chemical sprayers, flushing of tanks or pipes, or the filling of pools.

#### Models

- LFSC8-1** No kink faucet, 1/2" male NPT or copper sweat connection with vacuum breaker.
- LFSC8-2** No kink hose faucet, 3/4" copper sweat connection with vacuum breaker.
- LFSC8-3** Lawn faucet, 1/2" or 3/4" regular pattern, dual sweat connection with vacuum breaker.
- ☒ **LFSC8-4** Lawn faucet, 3/4" female NPT regular pattern with vacuum breaker.
- LFSC8-5** Hose bibb hex shoulder, 1/2" male NPT with tee handle and vacuum breaker.
- LFSC8-6** Hose bibb hex shoulder, 3/4" male NPT with tee handle and vacuum breaker.

#### Features

- Backflow backsiphonage protection
- Separate non-removable vacuum breaker (with break-away screw)



LFSC8-1



LFSC8-2



LFSC8-3



LFSC8-4



LFSC8-5



LFSC8-6

#### 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.

\*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

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## Standards

Tamper-proof vacuum breaker (Watts Model LF8B) is tested and approved in conformance with Standard 1011 of the American Society of Sanitary Engineers and by all principal cities, states and areas having these requirements. Additionally listed with IAPMO Uniform Plumbing Code, as well as NSF (National Sanitation Foundation) to Standard NSF/ANSI 372.

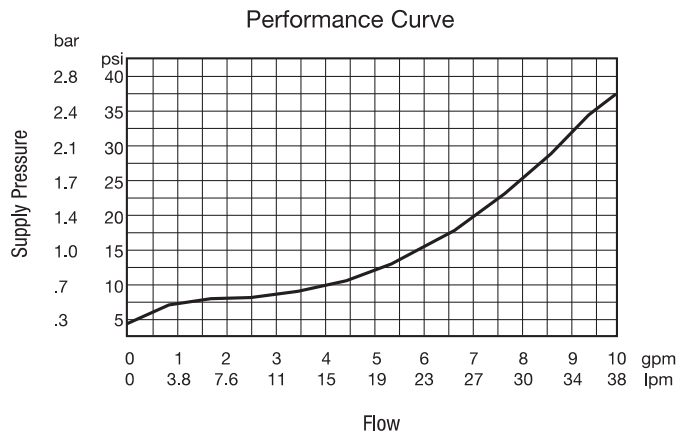
Please refer to ES-LF8 and ES-LFSC for independent listings.

## How it Works

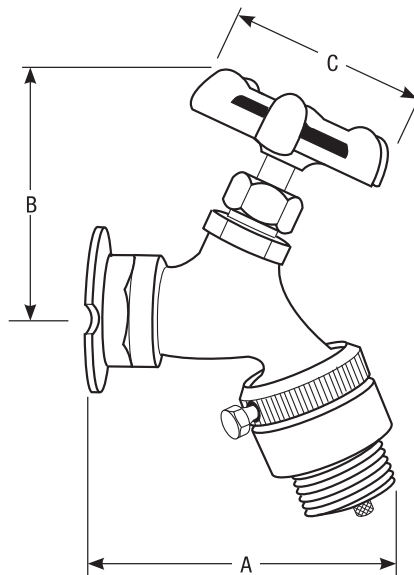
Series LFSC-8 is a combination hose bibb with separate tamper-proof vacuum breaker - to be attached after installation. Under normal conditions, the inner diaphragm opens to permit generous flow, while the circumferential diaphragm closes the air vents.

Should supply pressure drop and a backflow begin, the inner diaphragm immediately closes to prevent backflow into the main line, while the circumferential diaphragm opens the air vents to break the vacuum.

## Capacity



## Dimensions – Weight



MODEL	ORDER NO.	SIZE in.	DESCRIPTION	DIMENSIONS						WEIGHT	
				A		B		C		lbs.	kgs.
				in.	mm.	in.	mm.	in.	mm.		
<b>NO KINK HOSE FAUCET with tee handle and vacuum breaker</b>											
LFSC8-1	0124294	1/2	Male I.P. or Copper Connection	3 3/8	79	2 1/2	64	2 1/4	57	.75	.34
LFSC8-2	0124295	3/4	Copper Connection	3 3/8	79	2 1/2	64	2 1/4	57	.75	.34
<b>LAWN FAUCET (Silcock) with cast iron handwheel and vacuum breaker</b>											
LFSC8-3	0124296	1/2 or 3/4	Regular Pattern, Dual Connections	3 3/4	83	2 1/2	64	2 1/4	57	.75	.34
LFSC8-4	0124297	3/4	I.P. Regular Pattern	3 3/4	83	2 1/2	64	2 1/4	57	.75	.34
<b>HOSE BIBB HEX SHOULDER with tee handle</b>											
LFSC8-5	0124298	1/2	I.P. Inlet Hose End	3 3/8	92	2	51	2 1/4	57	.75	.34
LFSC8-6	0124299	3/4	I.P. Inlet Hose End	3 3/4	95	2	51	2 1/4	57	.75	.34

**Note:** Models LFSC8-1 through LFSC8-5 are packaged with the Model LF8B vacuum breaker with break-away set screw. The LFSC8-6 model is packaged with the Model LF8 which has an allen head set screw.





## For Commercial Applications

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

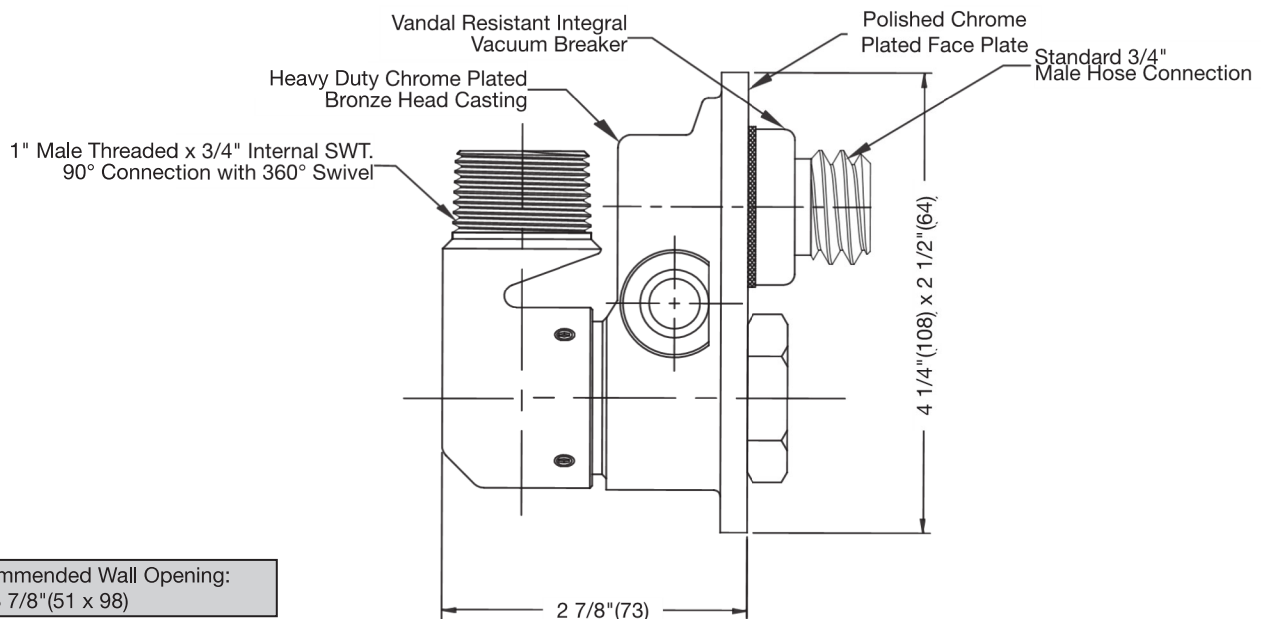
Tag \_\_\_\_\_

# HY-440

## Moderate Climate Narrow Wall Hydrant

### Specification

Watts HY-440 moderate climate anti-siphon narrow wall hydrant with chrome plated face, integral vacuum breaker, 3/4" hose connection, 360 degree swivel pipe connection with 3/4" female / 1" male threads. Bronze head, seat casting, internal working parts, and loose key. Complies with ASSE 1019-2004, UPC/IAPMO Listed. Max. operating pressure 125 psi.



Recommended Wall Opening:  
2" x 3 7/8" (51 x 98)

### NOTICE

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### Approvals:



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ES-WD-HY-440-USA 1825

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## Engineering Specification

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

# LEAD FREE\*

## Series LFSC-8

### Lead Free\* Cast Brass Hose Bibbs with Separate Tamper-proof Vacuum Breaker

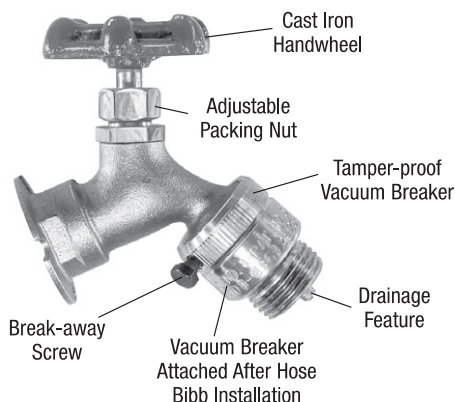
Watts offers six styles of hose bibbs which are supplied with separate vacuum breaker to be attached to the hose bibb after hose bibb installation. Once the vacuum breaker is properly installed to the hose bibb it is tamper-proof. This provides backsiphonage protection for potable hoses connected to hose thread faucets. Garden hoses are an extension of the plumbing system and have been known to cause illness or death when unprotected in uses such as with chemical sprayers, flushing of tanks or pipes, or the filling of pools.

#### Models

- LFSC8-1** No kink faucet, ½" male NPT or copper sweat connection with vacuum breaker.
- LFSC8-2** No kink hose faucet, ¾" copper sweat connection with vacuum breaker.
- LFSC8-3** Lawn faucet, ½" or ¾" regular pattern, dual sweat connection with vacuum breaker.
- ☒ **LFSC8-4** Lawn faucet, ¾" female NPT regular pattern with vacuum breaker.
- LFSC8-5** Hose bibb hex shoulder, ½" male NPT with tee handle and vacuum breaker.
- LFSC8-6** Hose bibb hex shoulder, ¾" male NPT with tee handle and vacuum breaker.

#### Features

- Backflow backsiphonage protection
- Separate non-removable vacuum breaker (with break-away screw)



LFSC8-1



LFSC8-2



LFSC8-3



LFSC8-4



LFSC8-5



LFSC8-6

#### 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.

\*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

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.

## Standards

Tamper-proof vacuum breaker (Watts Model LF8B) is tested and approved in conformance with Standard 1011 of the American Society of Sanitary Engineers and by all principal cities, states and areas having these requirements. Additionally listed with IAPMO Uniform Plumbing Code, as well as NSF (National Sanitation Foundation) to Standard NSF/ANSI 372.

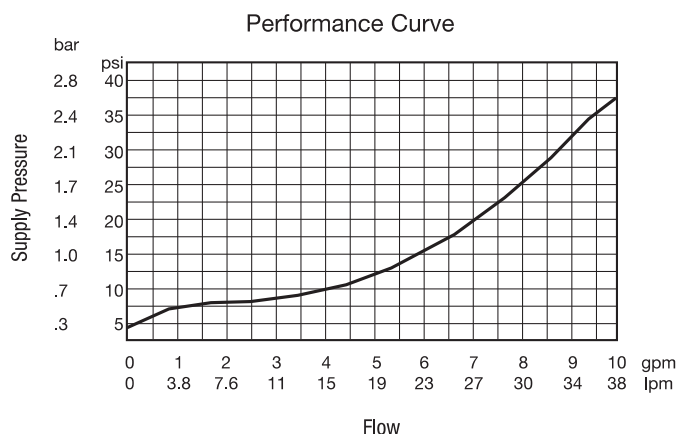
Please refer to ES-LF8 and ES-LFSC for independent listings.

## How it Works

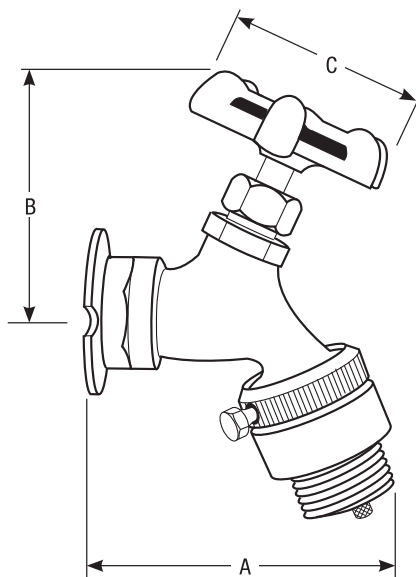
Series LFSC-8 is a combination hose bibb with separate tamper-proof vacuum breaker - to be attached after installation. Under normal conditions, the inner diaphragm opens to permit generous flow, while the circumferential diaphragm closes the air vents.

Should supply pressure drop and a backflow begin, the inner diaphragm immediately closes to prevent backflow into the main line, while the circumferential diaphragm opens the air vents to break the vacuum.

## Capacity



## Dimensions – Weight



MODEL	ORDER NO.	SIZE in.	DESCRIPTION	DIMENSIONS						WEIGHT	
				A		B		C		lbs.	kgs.
				in.	mm.	in.	mm.	in.	mm.		
<b>NO KINK HOSE FAUCET with tee handle and vacuum breaker</b>											
LFSC8-1	0124294	1/2	Male I.P. or Copper Connection	3 3/8	79	2 1/2	64	2 1/4	57	.75	.34
LFSC8-2	0124295	3/4	Copper Connection	3 3/8	79	2 1/2	64	2 1/4	57	.75	.34
<b>LAWN FAUCET (Silcock) with cast iron handwheel and vacuum breaker</b>											
LFSC8-3	0124296	1/2 or 3/4	Regular Pattern, Dual Connections	3 3/4	83	2 1/2	64	2 1/4	57	.75	.34
LFSC8-4	0124297	3/4	I.P. Regular Pattern	3 3/4	83	2 1/2	64	2 1/4	57	.75	.34
<b>HOSE BIBB HEX SHOULDER with tee handle</b>											
LFSC8-5	0124298	1/2	I.P. Inlet Hose End	3 3/8	92	2	51	2 1/4	57	.75	.34
LFSC8-6	0124299	3/4	I.P. Inlet Hose End	3 3/4	95	2	51	2 1/4	57	.75	.34

**Note:** Models LFSC8-1 through LFSC8-5 are packaged with the Model LF8B vacuum breaker with break-away set screw. The LFSC8-6 model is packaged with the Model LF8 which has an allen head set screw.





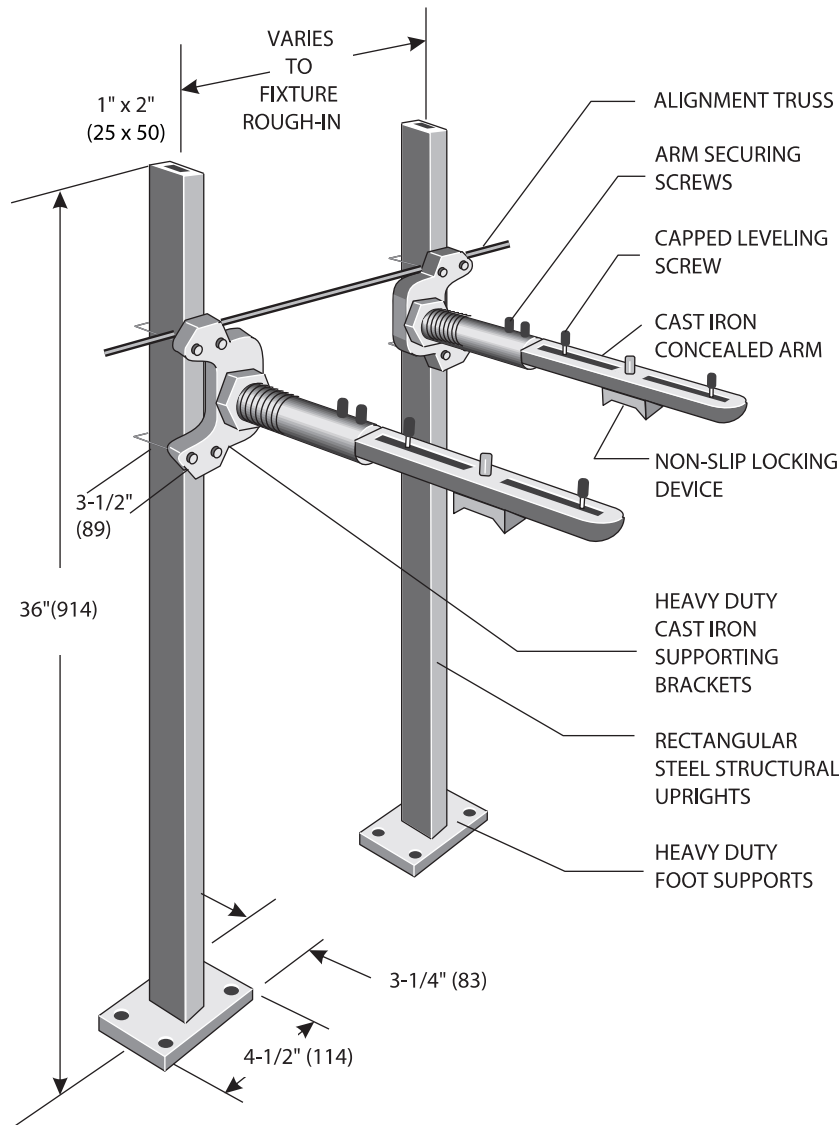
# CA-411 - CA-481

Tag: LAV-2

## Floor Mounted Lavatory Carrier with Concealed Arms and Support Plate

**SPECIFICATION:** Watts Drainage Products CA-411-CA-481 floor mounted concealed arm lavatory carrier with heavy gauge steel uprights with integral welded feet, adjustable epoxy coated cast iron arms with levelling screws and basin locking device, upper tie rod, and plated hardware with wall support plate (CA-481)

**FUNCTION:** Recommended for installation where added security of an independent foot supported carrier is required for lavatories designed for installation with concealed arms.



Order Code: CA-411- ☐

### EX. CA-411-M55

#### Options (Select One or More)

Suffix	Description	
-WC	Wheelchair Access	<input type="checkbox"/>
	Lavatory Extended Arms	<input type="checkbox"/>
-M42	42"(1067) Long Carrier Leg	<input type="checkbox"/>
-M51	Wall Thickness over 5", per add inch (single)	<input type="checkbox"/>
-M53	Vandal Proof Trim, Single	<input type="checkbox"/>
-M54	2" Chrome Plated Escutcheons, Single	<input type="checkbox"/>
-M55	4" Chrome Plated Escutcheons, Single	<input type="checkbox"/>
-M56	6" Chrome Plated Escutcheons, Single	<input type="checkbox"/>
-M59	Floor to Ceiling Adaptor, Single	<input type="checkbox"/>
-M60	Valve Supporting Plate, Single	<input type="checkbox"/>
-CA-481	Support Plate with Studs	<input checked="" type="checkbox"/>

NOTE: FOOT SUPPORTS SHOULD BE SECURELY ANCHORED TO FLOOR WITH 1/2" BOLTS AND ANCHORS BY OTHERS.

Job Name \_\_\_\_\_ Model No. \_\_\_\_\_

Job Location \_\_\_\_\_ Contractor \_\_\_\_\_

Engineer \_\_\_\_\_ Representative \_\_\_\_\_

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. Dimensions are subject to manufacturing tolerances.



Specification Drainage Products

CANADA: 5435 North Service Road, Burlington, ON L7L5H7 TEL: 905-332-6718 TOLL FREE: 1-888-208-8927 Website: [www.wattscanada.ca](http://www.wattscanada.ca)

ES-WD-CA-411 Canada 1417

(Dimension) Denotes Millimeters

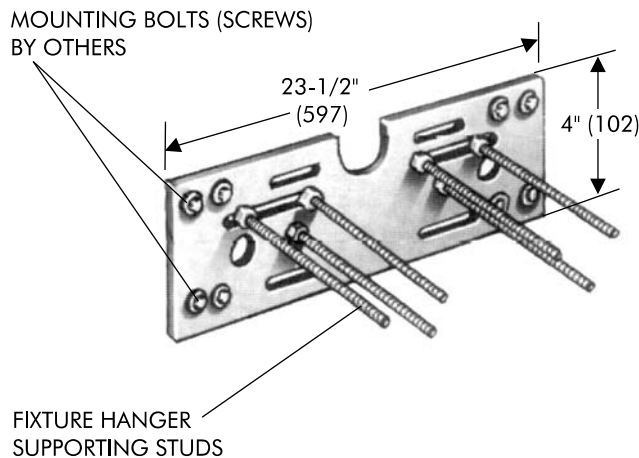
**SPECIFICATION:** Watts Drainage Products CA-481 wall mounted steel support plate with plated hardware.

**FUNCTION:** Plate type support for installation of wall mounted fixtures.

Order Code: **CA-481-** ☐

**Ex. CA-481-M55**

Options (Select One or More)		
Suffix	Description	
-M51	Wall Thickness over 5", per add inch (single)	<input type="checkbox"/>
-M52	Wall Thickness over 12", per inch (Back to Back)	<input type="checkbox"/>
-M53	Vandal Proof Trim, Single	<input type="checkbox"/>
-M59	Floor to Ceiling Adaptor, Single	<input type="checkbox"/>
-M60	Valve Supporting Plate, Single	<input type="checkbox"/>
-M61	Valve Supporting Bar, Single	<input type="checkbox"/>
-M62	Flush Valve Piping Support, Single	<input type="checkbox"/>



Job Name \_\_\_\_\_ Contractor \_\_\_\_\_

Job Location \_\_\_\_\_ Contractor's P.O. No. \_\_\_\_\_

Engineer \_\_\_\_\_ Representative \_\_\_\_\_

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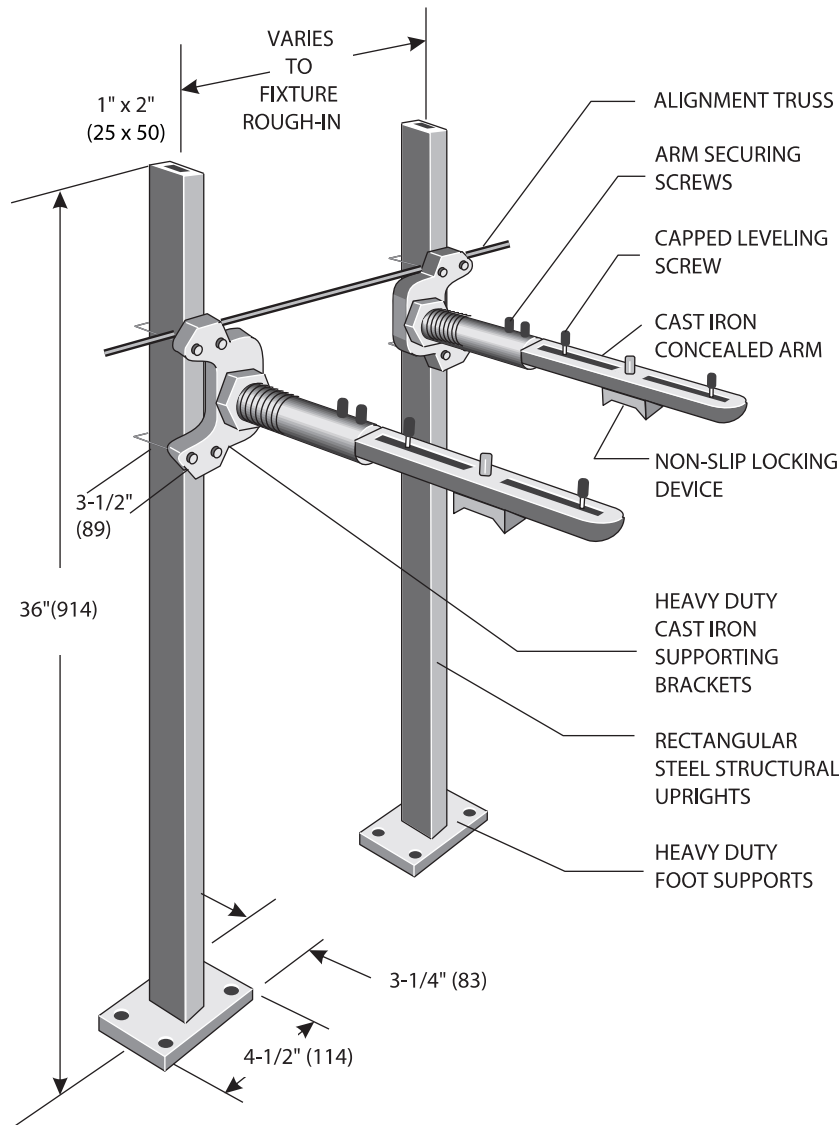
# CA-411 - CA-481

Tag: LAV-3

## Floor Mounted Lavatory Carrier with Concealed Arms and Support Plate

**SPECIFICATION:** Watts Drainage Products CA-411-CA-481 floor mounted concealed arm lavatory carrier with heavy gauge steel uprights with integral welded feet, adjustable epoxy coated cast iron arms with levelling screws and basin locking device, upper tie rod, and plated hardware with wall support plate (CA-481)

**FUNCTION:** Recommended for installation where added security of an independent foot supported carrier is required for lavatories designed for installation with concealed arms.



Order Code: CA-411- ☐

### EX. CA-411-M55

#### Options (Select One or More)

Suffix	Description	
-WC	Wheelchair Access	<input type="checkbox"/>
	Lavatory Extended Arms	<input type="checkbox"/>
-M42	42"(1067) Long Carrier Leg	<input type="checkbox"/>
-M51	Wall Thickness over 5", per add inch (single)	<input type="checkbox"/>
-M53	Vandal Proof Trim, Single	<input type="checkbox"/>
-M54	2" Chrome Plated Escutcheons, Single	<input type="checkbox"/>
-M55	4" Chrome Plated Escutcheons, Single	<input type="checkbox"/>
-M56	6" Chrome Plated Escutcheons, Single	<input type="checkbox"/>
-M59	Floor to Ceiling Adaptor, Single	<input type="checkbox"/>
-M60	Valve Supporting Plate, Single	<input type="checkbox"/>
-CA-481	Support Plate with Studs	<input checked="" type="checkbox"/>

NOTE: FOOT SUPPORTS SHOULD BE SECURELY ANCHORED TO FLOOR WITH 1/2" BOLTS AND ANCHORS BY OTHERS.

Job Name \_\_\_\_\_ Model No. \_\_\_\_\_

Job Location \_\_\_\_\_ Contractor \_\_\_\_\_

Engineer \_\_\_\_\_ Representative \_\_\_\_\_

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Specification Drainage Products

CANADA: 5435 North Service Road, Burlington, ON L7L5H7 TEL: 905-332-6718 TOLL FREE: 1-888-208-8927 Website: [www.wattscanada.ca](http://www.wattscanada.ca)

ES-WD-CA-411 Canada 1417

(Dimension) Denotes Millimeters



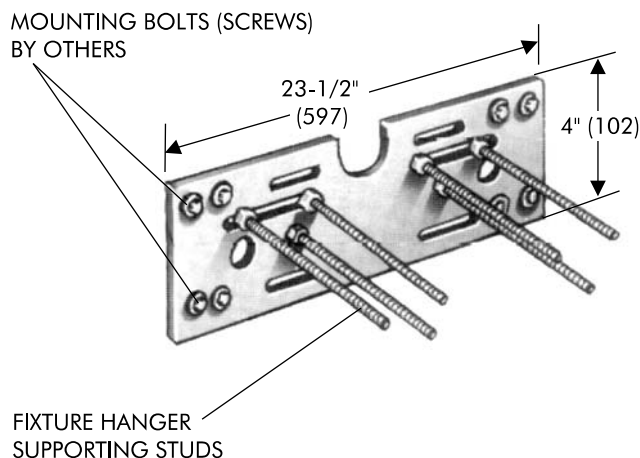
**SPECIFICATION:** Watts Drainage Products CA-481 wall mounted steel support plate with plated hardware.

**FUNCTION:** Plate type support for installation of wall mounted fixtures.

Order Code: **CA-481-** ☐

**Ex. CA-481-M55**

Options (Select One or More)		
Suffix	Description	
-M51	Wall Thickness over 5", per add inch (single)	<input type="checkbox"/>
-M52	Wall Thickness over 12", per inch (Back to Back)	<input type="checkbox"/>
-M53	Vandal Proof Trim, Single	<input type="checkbox"/>
-M59	Floor to Ceiling Adaptor, Single	<input type="checkbox"/>
-M60	Valve Supporting Plate, Single	<input type="checkbox"/>
-M61	Valve Supporting Bar, Single	<input type="checkbox"/>
-M62	Flush Valve Piping Support, Single	<input type="checkbox"/>



Job Name \_\_\_\_\_ Contractor \_\_\_\_\_

Job Location \_\_\_\_\_ Contractor's P.O. No. \_\_\_\_\_

Engineer \_\_\_\_\_ Representative \_\_\_\_\_

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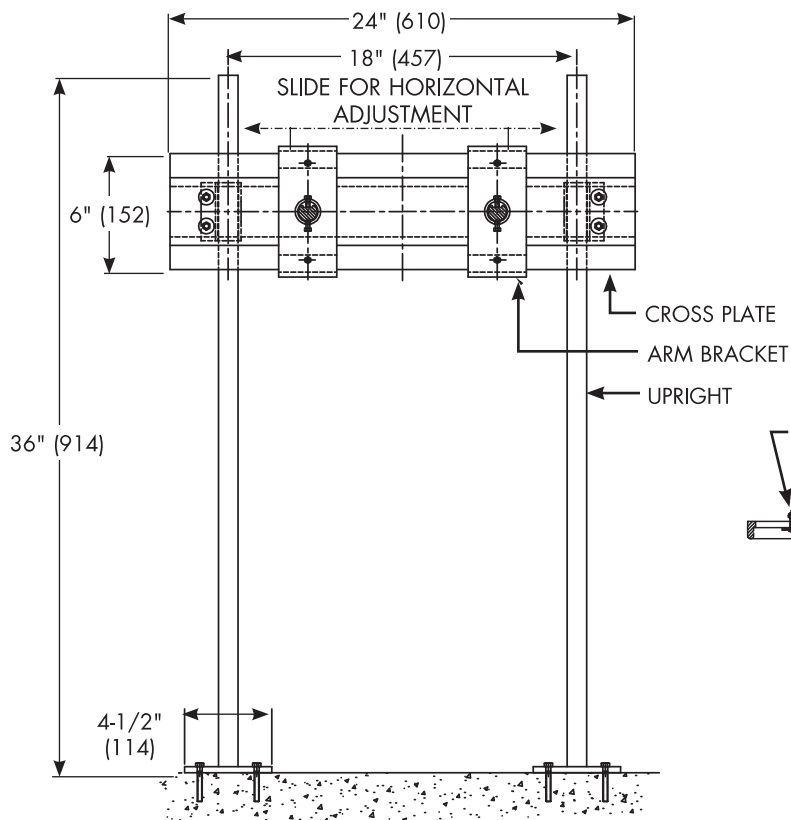


TCA-411

Tag: LAV-4

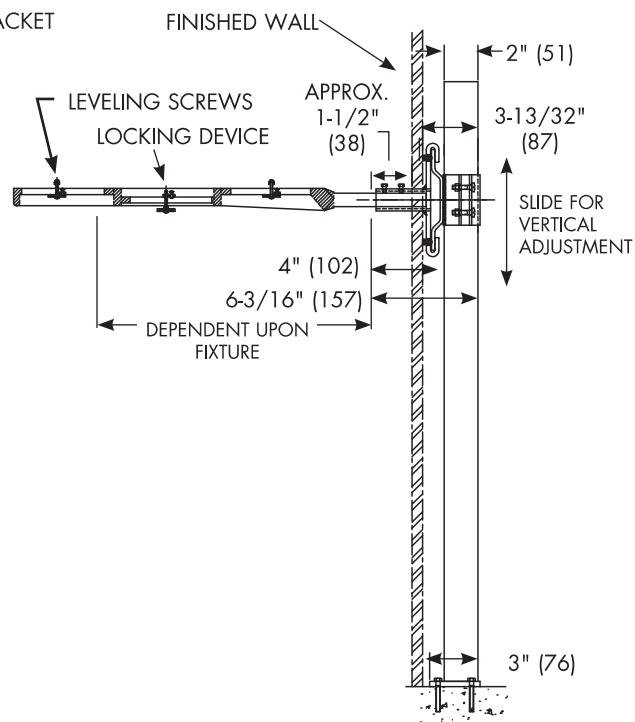
## Floor Mounted Concealed Arm "Track" Lavatory Carrier

**SPECIFICATION:** Watts Drainage TCA-411 epoxy coated floor mounted concealed arm track lavatory carrier with heavy gauge steel offset uprights with welded feet, steel cross plate with integral mounting brackets, sliding adjustable arm brackets, and adjustable cast iron concealed arms with mounting clips, leveling screws, and basin locking device.



Options (Select One or More)		
Suffix	Description	
-M42	42" Long Carrier Leg	<input type="checkbox"/>
-M54	2" Chrome Plated Escutcheons, Single	<input type="checkbox"/>
-M55	4" Chrome Plated Escutcheons, Single	<input type="checkbox"/>
-M60	Knee Operated Valve Support Plate Single	<input type="checkbox"/>
-US	Buy American Compliant	<input type="checkbox"/>

**NOTE: ANCHOR LEGS TO CONCRETE FLOOR WITH MINIMUM 1/2" (13) ANCHOR BOLTS (BY OTHERS)**



\*Patent Pending

Job Name \_\_\_\_\_ Contractor \_\_\_\_\_

Job Location \_\_\_\_\_ Contractor's P.O. No. \_\_\_\_\_

Engineer \_\_\_\_\_ Representative \_\_\_\_\_

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Specification Drainage Products

USA: 100 Watts Road, Spindale, NC, 28160-2298; TEL: 828-288-2179 TOLL-FREE: 1-800-338-2581 [www.watts.com](http://www.watts.com)



## For Commercial Applications

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

Tag \_\_\_\_\_

# Dead Level® P

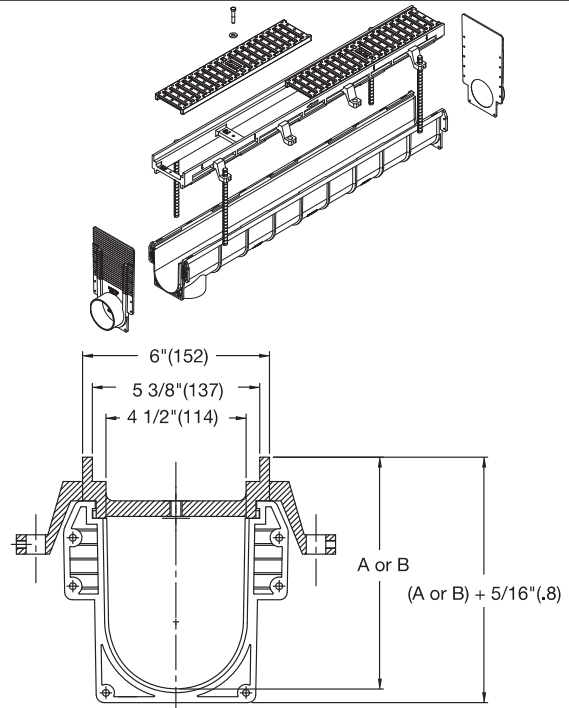
## Pre-Sloped Polypropylene Trench Drain System with Polypropylene Frame.

### Specification

Watts Dead Level® P Pre-Sloped Trench Drain System with 6"(152) wide x 48"(1219) long (standard) UV stabilized glass-filled polypropylene frame, UV stabilized talc-filled polypropylene channels with integral 4"(102) No Hub bottom outlet(s). System shall be frame-anchored, with (specify) grating to suit DIN Class (specify) load rating. System to include frame connectors, grate lockdowns, and construction covers. Installation to be performed in accordance with manufacturer's instructions and building code.

Grate Options		
Suffix	Description	
-BK	Stainless Steel Brickslot	Class E <input type="checkbox"/>
-BR	Decorative Bronze**	Class B <input type="checkbox"/>
-DI	Ductile Iron	Class C* <input type="checkbox"/>
-DI-ADA	Ductile Iron ADA	Class C* <input type="checkbox"/>
-FG	Fiberglass*	Class A <input type="checkbox"/>
-GDI	Galvanized Ductile Iron**	Class C* <input type="checkbox"/>
-GP	Galvanized Perforated	Class A <input type="checkbox"/>
-GS	Galvanized Slotted	Class A <input type="checkbox"/>
-PP	Polypropylene**	Class C <input type="checkbox"/>
-RGP	Reinforced Galvanized Perforated	Class C* <input type="checkbox"/>
-RGS	Reinforced Galvanized Slotted	Class C* <input type="checkbox"/>
-RSP	Reinforced Stainless Steel Perforated	Class C* <input type="checkbox"/>
-RSS	Reinforced Stainless Steel Slotted	Class C* <input checked="" type="checkbox"/>
-SP	Stainless Steel Perforated	Class A <input type="checkbox"/>
-SS	Stainless Steel Slotted	Class A <input type="checkbox"/>
-SCI	Solid Cast Iron**	Class C* <input type="checkbox"/>

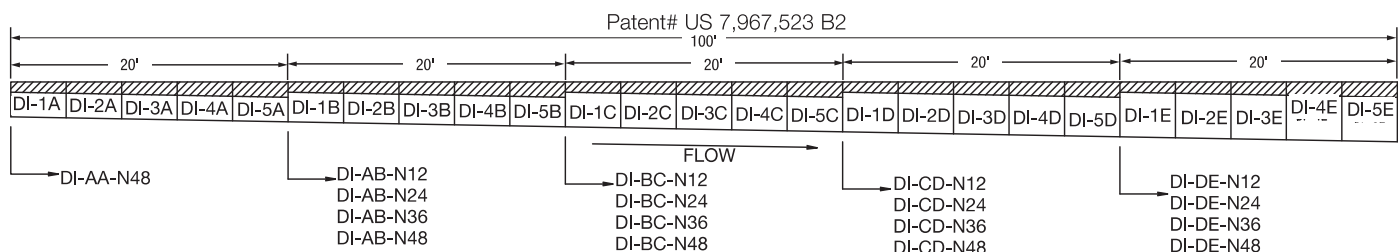
\*Load Class E with Frame Guards



Options		
Suffix	Description	
-B6	6"x24"x24" Catch Basin	<input type="checkbox"/>
-B6T	6"x24"x24" Catch Basin w/Trash Basket	<input type="checkbox"/>
-B24	24"x24"x24" Catch Basin (DI Grate Only)	<input type="checkbox"/>
-B24T	24"x24"x24" Catch Basin w/Trash Basket (DI Grate Only)	<input type="checkbox"/>
-FB	Bronze Frame Guard	<input type="checkbox"/>
-FG	Galvanized Steel Frame Guard	<input type="checkbox"/>
-FS	Stainless Steel Frame Guard	<input checked="" type="checkbox"/>
-OS	Outlet Strainer	<input type="checkbox"/>
-US	Buy American Compliant	<input type="checkbox"/>
-VP	Vandal Proof Grate Lockdowns	<input type="checkbox"/>

Ordered Sperate:

EDP	Part No.	Description
8189344	DL-SB	Outlet Strainer/Sediment Bucket



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## Dead Level® P Dimensional Data

Part #	Configuration	Length	Weight (lbs.)	Dim. A	Dim. B
PP-AA-N48	Neutral	48" (1219)	9	5-5/8" (143)	5-5/8" (143)
PP-1A	Sloped	48" (1219)	9	5-5/8" (143)	5-15/16" (151)
PP-2A	Sloped	48" (1219)	9	5-15/16" (151)	6-1/4" (159)
PP-3A	Sloped	48" (1219)	9	6-1/4" (159)	6-9/16" (167)
PP-4A	Sloped	48" (1219)	10	6-9/16" (167)	6-7/8" (175)
PP-5A	Sloped	48" (1219)	10	6-7/8" (175)	7-3/16" (183)
PP-AB-N12	Neutral	12" (305)	3	7-3/16" (183)	7-3/16" (183)
PP-AB-N24	Neutral	24" (610)	6	7-3/16" (183)	7-3/16" (183)
PP-AB-N36	Neutral	36" (914)	9	7-3/16" (183)	7-3/16" (183)
PP-AB-N48	Neutral	48" (1219)	10	7-3/16" (183)	7-3/16" (183)
PP-1B	Sloped	48" (1219)	10	7-3/16" (183)	7-1/2" (191)
PP-2B	Sloped	48" (1219)	10	7-1/2" (191)	7-13/16" (198)
PP-3B	Sloped	48" (1219)	10	7-13/16" (198)	8-1/8" (206)
PP-4B	Sloped	48" (1219)	11	8-1/8" (206)	8-7/16" (214)
PP-5B	Sloped	48" (1219)	11	8-7/16" (214)	8-3/4" (222)
PP-BC-N12	Neutral	12" (305)	3	8-3/4" (222)	8-3/4" (222)
PP-BC-N24	Neutral	24" (610)	6	8-3/4" (222)	8-3/4" (222)
PP-BC-N36	Neutral	36" (914)	9	8-3/4" (222)	8-3/4" (222)
PP-BC-N48	Neutral	48" (1219)	10	8-3/4" (222)	8-3/4" (222)
PP-1C	Sloped	48" (1219)	11	8-3/4" (222)	9-1/16" (230)
PP-2C	Sloped	48" (1219)	11	9-1/16" (230)	9-3/8" (238)
PP-3C	Sloped	48" (1219)	11	9-3/8" (238)	9-11/16" (246)
PP-4C	Sloped	48" (1219)	12	9-11/16" (246)	10" (254)
PP-5C	Sloped	48" (1219)	12	10" (254)	10-5/16" (262)
PP-CD-N12	Neutral	12" (305)	3	10-5/16" (262)	10-5/16" (262)
PP-CD-N24	Neutral	24" (610)	6	10-5/16" (262)	10-5/16" (262)
PP-CD-N36	Neutral	36" (914)	9	10-5/16" (262)	10-5/16" (262)
PP-CD-N48	Neutral	48" (1219)	10	10-5/16" (262)	10-5/16" (262)
PP-1D	Sloped	48" (1219)	12	10-5/16" (262)	10-5/8" (270)
PP-2D	Sloped	48" (1219)	12	10-5/8" (270)	10-15/16" (278)
PP-3D	Sloped	48" (1219)	12	10-15/16" (278)	11-1/4" (286)
PP-4D	Sloped	48" (1219)	13	11-1/4" (286)	11-9/16" (294)
PP-5D	Sloped	48" (1219)	13	11-9/16" (294)	11-7/8" (302)
PP-DE-N12	Neutral	12" (305)	4	11-7/8" (302)	11-7/8" (302)
PP-DE-N24	Neutral	24" (610)	7	11-7/8" (302)	11-7/8" (302)
PP-DE-N36	Neutral	36" (914)	10	11-7/8" (302)	11-7/8" (302)
PP-DE-N48	Neutral	48" (1219)	11	11-7/8" (302)	11-7/8" (302)
PP-1E	Sloped	48" (1219)	13	11-7/8" (302)	12-3/16" (310)
PP-2E	Sloped	48" (1219)	13	12-3/16" (310)	12-1/2" (318)
PP-3E	Sloped	48" (1219)	13	12-1/2" (318)	12-13/16" (325)
PP-4E	Sloped	48" (1219)	14	12-13/16" (325)	13-1/8" (333)
PP-5E	Sloped	48" (1219)	14	13-1/8" (333)	13-7/16" (341)

**NOTICE**

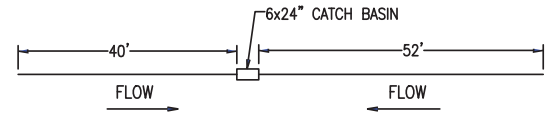
The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation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



## How to Configure & Order Dead Level® Trench System

### 1. Sketch General Layout

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



### 2. Specify Frame

Ductile Iron  
Polypropylene

### Ordering Code

D or DX  
P

### 3. Specify Length in Feet

(Do not include Catch Basins)

Numeric

### 4. Specify Outlet

Straight Run End Outlet  
Straight Run Center Outlet  
Other Configuration

EO  
CO  
XO

### 5. Specify Grating

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

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

### 6. Specify Catch Basin

(If Required)  
6x6x24" Catch Basin  
24x24x24" Catch Basin

B6  
B24

### 7. Specify Frame Guards

(If Required)  
Galvanized Steel  
Stainless Steel

FG  
FS

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

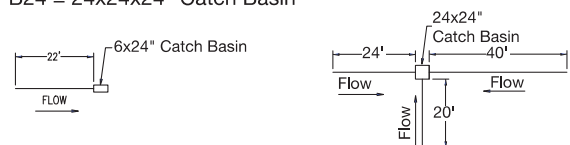
EX. P22-EO-RSS-B6-FS

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

### 8b. Configure Special Run (XO)

EX. D84-XO-DI-B24

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



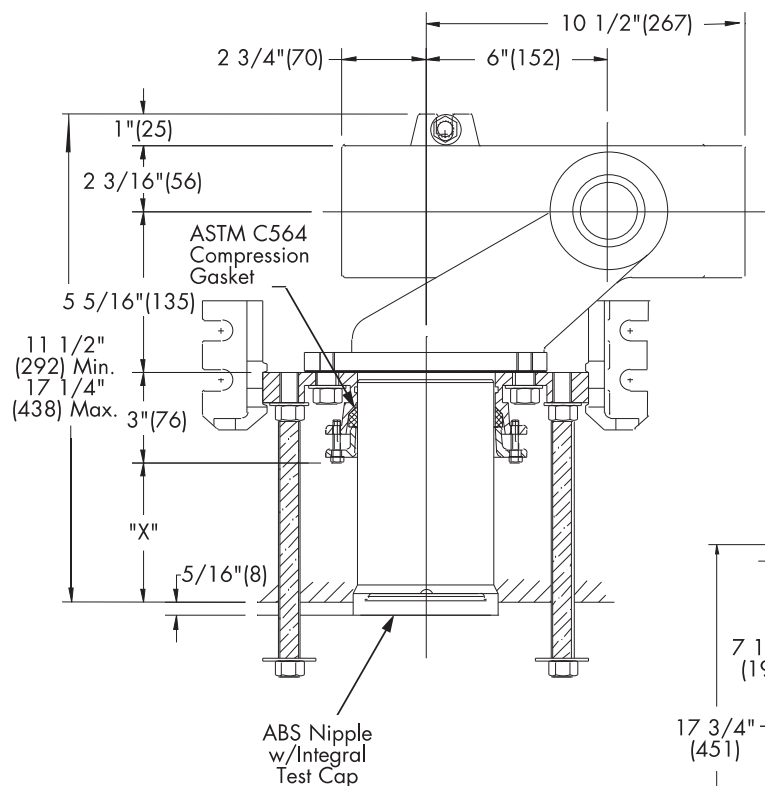


## ISCA-101-L/R

Tag: WC-1 TO WC-3

**Industry Standard  
Single Horizontal  
Adjustable Closet Carrier**

**SPECIFICATION:** Watts Drainage Products ISCA-101-L/R *Industry Standard* single horizontal adjustable water closet carrier with epoxy coated cast iron fitting, 4"(102) no hub waste and 2"(51) no hub vent connections, epoxy coated cast iron patent pending compression seal faceplate assembly, epoxy coated cast iron foot supports adjustable for standard and wheelchair height, adjustable ABS nipple with integral test cap and neoprene bowl gasket, plated hardware and chrome cap nuts.



**Note:**  
Left hand carrier shown; right hand carrier is mirror image.

**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.

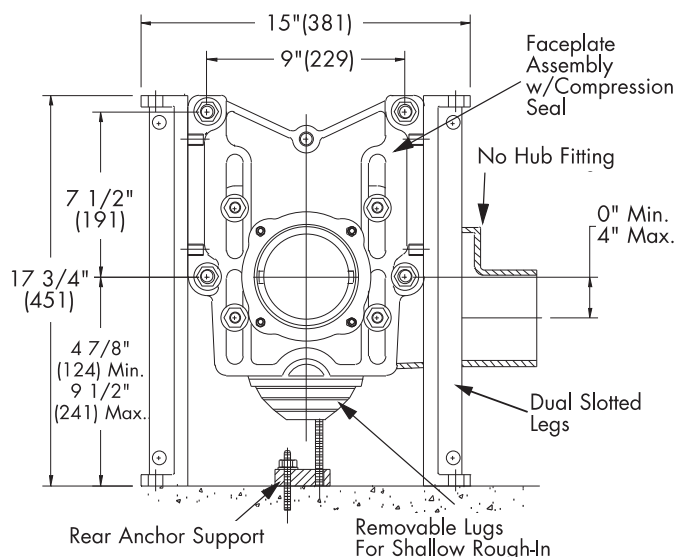
Suffix	Options (Select One or More) Description	
-3	3" No Hub Fitting	<input type="checkbox"/>
-36	36" Long Barrel Fitting	<input type="checkbox"/>
-CA-100-EXT	Aux. Support System w/Extended Nipple	<input type="checkbox"/>
-M1	ABS Extended Nipple (Up to 24")	<input type="checkbox"/>
-M3	Galvanized Steel Nipple 7"	<input type="checkbox"/>
-M11	Tiling Frame	<input type="checkbox"/>
-M20	Flush Valve Support	<input type="checkbox"/>

**NOTICE**

Siphon jet (4 bolt) arrangement shown. Invert faceplate assembly for blow-out (3 bolt) bowls.

Anchor legs to concrete floor with minimum 1/2" (13) anchor bolts (by others).

**X = 5-3/4" (146) Maximum with Standard Nipple**



Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Engineer \_\_\_\_\_

Representative \_\_\_\_\_

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:** Tel: (52) 81-1001-8600 • Fax: (52) 81-8000-7091 • Watts.com

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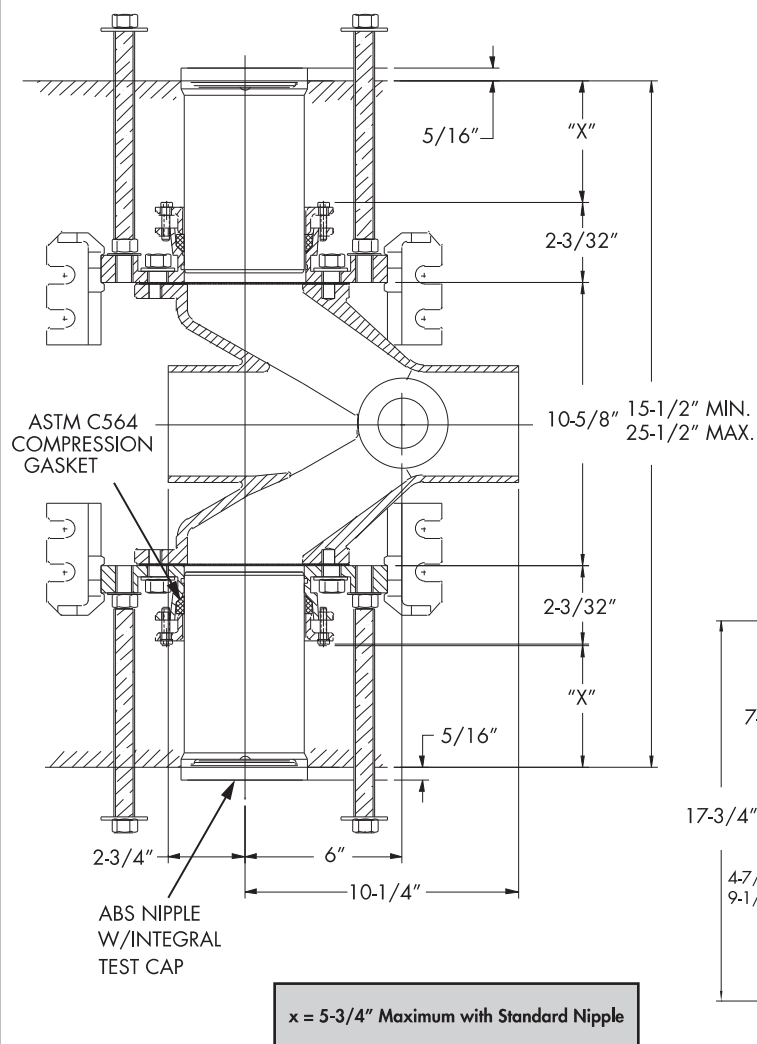


# ISCA-101-D

Tag: WC-1 TO WC-3

## Industry Standard Back-To-Back Horizontal Adjustable Closet Carrier

**SPECIFICATION:** Watts Drainage Products ISCA-101-D *Industry Standard* back-to-back horizontal adjustable water closet carrier with epoxy coated cast iron fitting, 4"(102) no hub waste and 2"(51) no hub vent connections, epoxy coated cast iron patent pending compression seal faceplate assembly, epoxy coated cast iron foot supports adjustable for standard and wheelchair height, adjustable ABS nipple with integral test cap and neoprene bowl gasket, plated hardware and chrome cap nuts.



### Options (Select One or More)

Suffix	Description	
-36	36" Long Barrel Fitting	<input type="checkbox"/>
CA-100-EXT	Aux. Support System w/Extended Nipple	<input type="checkbox"/>
-M1	ABS Extended Nipple (Up to 24")	<input type="checkbox"/>
-M3	Galvanized Steel Nipple 7"	<input type="checkbox"/>
-M11	Tiling Frame	<input type="checkbox"/>
-M20	Flush Valve Support	<input type="checkbox"/>

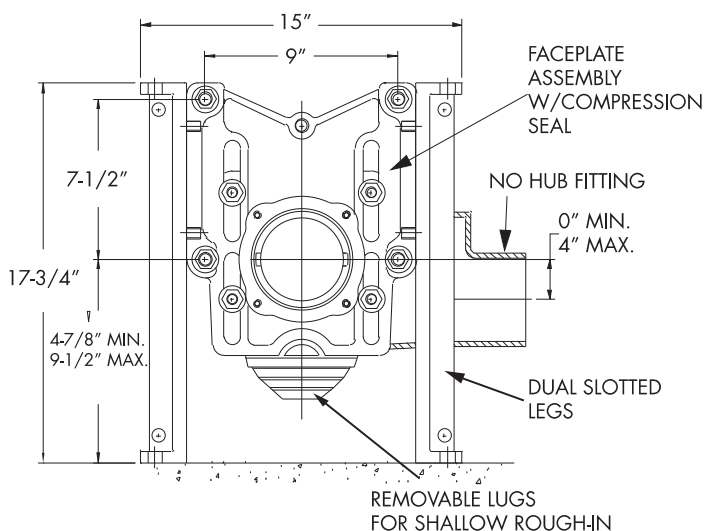
### NOTICE

Siphon jet (4 bolt) arrangement shown. Invert faceplate assembly for blow-out (3 bolt) bowls.

Anchor legs to concrete floor with minimum 1/2" lag bolts (by others).

### 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.



Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Engineer \_\_\_\_\_

Representative \_\_\_\_\_

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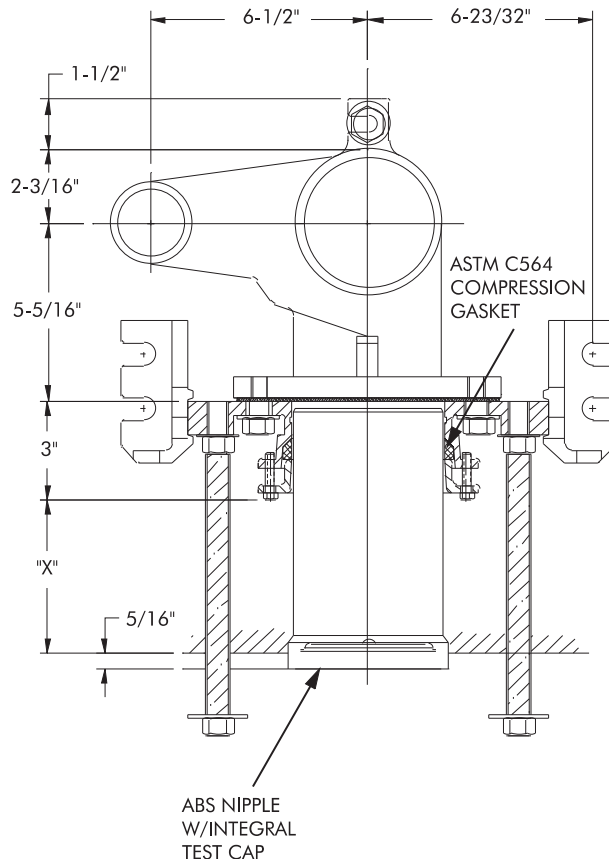


# ISCA-121

Tag: WC-1 TO WC-3

## Industry Standard Single Vertical Adjustable Closet Carrier

**SPECIFICATION:** Watts Drainage Products ISCA-121 *Industry Standard* single vertical adjustable water closet carrier with epoxy coated cast iron fitting, 4"(102) no hub waste and 2"(51) no hub vent connections, epoxy coated cast iron patent pending compression seal faceplate assembly, epoxy coated cast iron foot supports adjustable for standard and wheelchair height, adjustable ABS nipple with integral test cap and neoprene bowl gasket, plated hardware and chrome cap nuts.



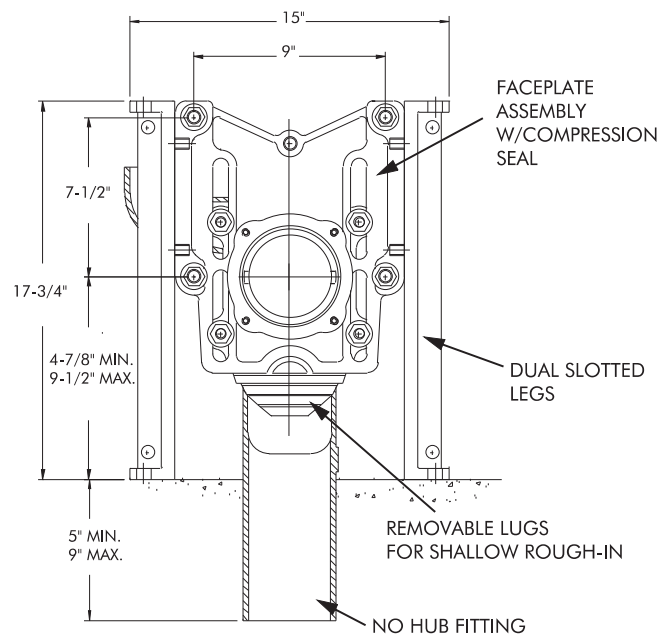
Options (Select One or More)		
Suffix	Description	
CA-100-EXT	Aux. Support System w/Extended Nipple	<input type="checkbox"/>
-M1	ABS Extended Nipple (Up to 24")	<input type="checkbox"/>
-M3	Galvanized Steel Nipple 7"	<input type="checkbox"/>
-M11	Tiling Frame	<input type="checkbox"/>
-M20	Flush Valve Support	<input type="checkbox"/>

### Notes:

Siphon jet (4 bolt) arrangement shown. Invert faceplate assembly for blow-out (3 bolt) bowls.

Anchor legs to concrete floor with minimum 1/2" lag bolts (by others).

**X = 5-3/4" Maximum with Standard Nipple**



Job Name \_\_\_\_\_ Contractor \_\_\_\_\_

Job Location \_\_\_\_\_ Contractor's P.O. No. \_\_\_\_\_

Engineer \_\_\_\_\_ Representative \_\_\_\_\_

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. Dimensions are subject to manufacturing tolerances.



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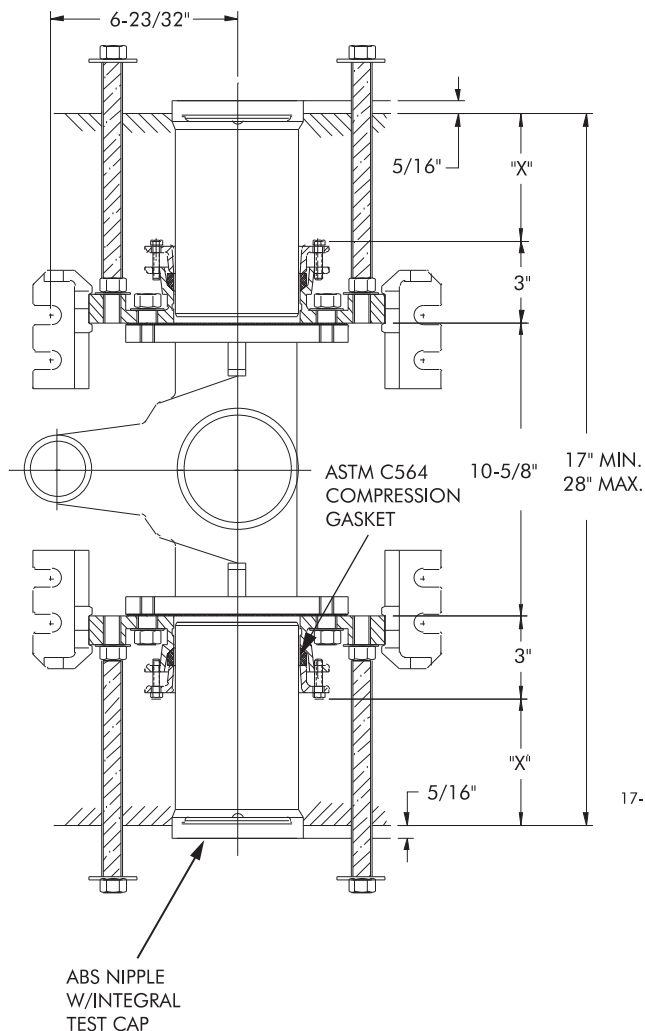


# ISCA-121-D

Tag: WC-1 TO WC-3

## Industry Standard Back-To-Back Vertical Adjustable Closet Carrier

**SPECIFICATION:** Watts Drainage Products ISCA-121-D *Industry Standard* back-to-back vertical adjustable water closet carrier with epoxy coated cast iron fitting, 4"(102) no hub waste and 2"(51) no hub vent connections, epoxy coated cast iron patent pending compression seal faceplate assembly, epoxy coated cast iron foot supports adjustable for standard and wheelchair height, adjustable ABS nipple with integral test cap and neoprene bowl gasket, plated hardware and chrome cap nuts.



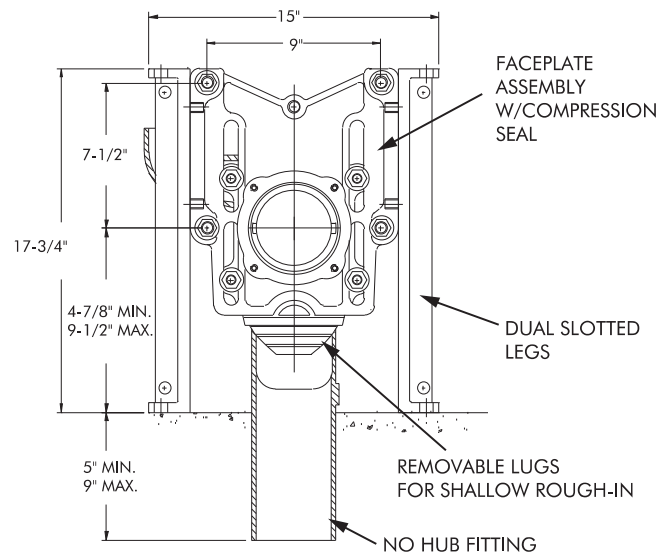
Options (Select One or More)		
Suffix	Description	
CA-100-EXT	Aux. Support System w/Extended Nipple	<input type="checkbox"/>
-M1	ABS Extended Nipple (Up to 24")	<input type="checkbox"/>
-M3	Galvanized Steel Nipple 7"	<input type="checkbox"/>
-M11	Tiling Frame	<input type="checkbox"/>
-M20	Flush Valve Support	<input type="checkbox"/>

**Notes:**

Siphon jet (4 bolt) arrangement shown. Invert faceplate assembly for blow-out (3 bolt) bowls.

Anchor legs to concrete floor with minimum 1/2" lag bolts (by others).

**X = 5-3/4" Maximum with Standard Nipple**



Job Name \_\_\_\_\_ Contractor \_\_\_\_\_

Job Location \_\_\_\_\_ Contractor's P.O. No. \_\_\_\_\_

Engineer \_\_\_\_\_ Representative \_\_\_\_\_

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