

#### **Submittal Records**

Architect: Snyder Architects Inc.	Date: 2024-09-20
Attention: Amit Patel,	Project: Gymnasium Addition at Glenview PS
Subcontractor: Kirk Mechanical	Shop Drawings – SD 15-2

Copies	Title /Description	# Pages
1	Plumbing Fixtures	40

## **Method of Delivery: Electronic**

PROVIDE SUBMITTAL FOR FLOOR MOUNTED WALL CARRIER

PROVIDE SUBMITTAL FOR INSULATION L-1

PROVIDE SUBMITTAL FOR FD-1 AND RD-1

The Architect's review is for the sole purpose of ascertaining conformance with the general design concept and for the 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 their responsibility for errors or omissions in the shop drawings or of their responsibility for meeting all requirements of the Contract Documents. The Contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to fabrication processes, quantities or to techniques of construction and installation and for coordination of related work.

Revise & Resubmit \_\_\_\_\_

Not reviewed \_\_

architects



## HDSB - GLENVIEW PS - GYM ADDITION - 134 TOWNSEND AVE BURLING

## HDSB - GLENVIEW PS - GYM ADDITION - 134 TOWNSEND AVE BURLING

## Submittal Package

**Prepared For:** 

## KIRK MECHANICAL LIMITED

**Date Prepared:** 

09/19/2024

Prepared By:

## JESSICA PICKVANCE

THIS SUBMITTAL PACKAGE IS PREPARED TO THE BEST OF OUR ABILITY BASED ON THE INFORMATION PRESENTED TO US REGARDING THIS PROJECT









## REVIEWED



## MADERA™ FloWise® 16-1/2" HEIGHT **ELONGATED FLUSHOMETER TOILET**

VITREOUS CHINA with EVERCLEAN®

#### **BARRIER FREE**

#### MADERA™ FloWise® 16-1/2" HEIGHT ELONGATED with EVERCLEAN®

- · Floor mount flushometer valve toilet
- Vitreous china
- High Efficiency, Low Consumption. Operates in the range of 1.1 gpf to 1.6 gpf (4.2 Lpf to 6.0 Lpf)
- Meets definition of HET (High Efficiency Toilet) when used with a high efficiency flush valve (1.28 gpf or 1.6 / 1.1 gpf dual flush)
- Permanent EverClean® surface inhibits the growth of stain and odor-causing bacteria, mold, and mildew on the surface
- Fully glazed 2-1/8" trapway
- Elongated bowl
- 10" or 12" roughing-in
- 16-1/2" rim height for accessible application
- Condensation channel
- Powerful direct-fed siphon jet action
- 10" x 12" water surface area
- 1-1/2" inlet spud
- 2 bolt caps
- 100% factory flush tested

A state of macro tested.
3461.001 Elongated bowl only, top spud 3462.001 Elongated bowl only, top spud with
slotted rim for bedpan holding (White only)  3465.001 Elongated bowl only, top spud with 4 bolts (White Only)
☐ 3466.001 Elongated bowl only, top spud with slotted rim for bedpan holding with 4 bolts (White only)
☐ 3463.001 Elongated bowl only, back spud ☐ 3464.001 Elongated bowl only, back spud with slotted rim for bedpan holding (White only)
System MaP* Score:  • 1,000 grams of miso @ 1.1 gpf, 1.28 gpf or 1.6 gpf when used with an American Standard flush valve  * Maximum Performance (MaP) testing performed by IAPMO R&T Lab. MaP Report conducted by Veritec Consulting, Inc and Koeller and Company.
Component Parts:  ☐ 047007-0070A Inlet Spud (furnished with bowl)  ☐ 481310-100 Bolt caps with retainers (furnished with bowl)
Nominal Dimensions:
718 x 3 (28-1/4" 14 E16 / Consulting Fixture only, less seat and dustrial valve MECHANICAL ELECTRICAL AQUATIC
This Recommended working pressure between asce 25 psicativalve when allushing and 80 psicatation

not mean that DEI Consulting Engineers Inc. approves the detail design inherent in the Companance Section Consulting Engineers Inc. approves the detail design inherent in the Companance Section Consulting Cons

sub-Meets of Exceeds the Following Specifications: respended ME APT211912120089/SQSAPB4511088695 Witreous for meeting all requiring so the construction and contract documents.

Reviewed As Noted

Revise and Resubmit



	SEE REVERSE FOR ROUGHING-IN DIMENSIONS
То	Be Specified:
	Color: White D Bone D Linen
Ш	Seat:
	☐ American Standard #5901.100 Heavy duty
	open front less cover
	☐ American Standard #5905.100 Extra heavy
	duty open front less cover
	Flushometer Valve:
	□ 1.6 gpf:
	☐ Sensor-Operated: American Standard Selectronic®
	DC Power #6065.161.002 (Top Spud)
	☐ Sensor-Operated: American Standard Selectronic®
	AC Power #6067.261.002 (Back Spud)
	☐ Manual: American Standard #6047.161.002
	(Top Spud)
	□ 1.28 gpf:
	☐ Sensor-Operated: American Standard Selectronic®
	DC Power #6065.121.002 (Top Spud)
	☐ Sensor-Operated: American Standard Selectronic®
	•
	AC Power #6067.221.002 (Back Spud)  Manual: American Standard #6047.121.002
	(Top Spud)
	□ 1.6 / 1.1 gpf Dual Flush:
	☐ Sensor-Operated: American Standard Selectronic®



MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 REQUIREMENTS FOR ACCESSIBLE AND USABLE **BUILDING FACILITIES - CHECK LOCAL CODES.** 



DC Power #6065.761.002 (Top Spud)



Reviewed

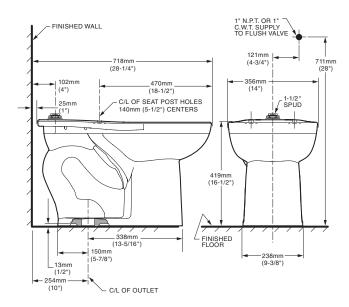
Not Reviewed



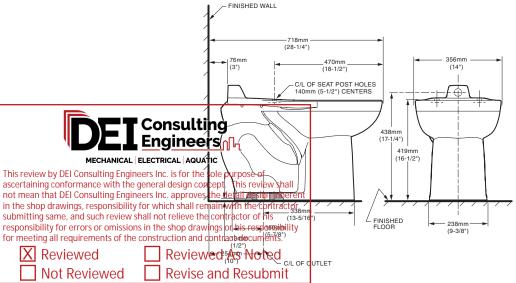
# MADERA™ FloWise® 16-1/2" HEIGHT ELONGATED FLUSHOMETER TOILET

VITREOUS CHINA with EVERCLEAN®

#### 3461.001/3462.001/3465.001/3466.001



#### 3463.001/3464.001



NOTES:

PRODUCT 3461 AND 3463 SHOWN, 3462 AND 3464 SAME EXCEPT WITH SLOTTED RIM FOR BED PAN HOLDING.
TO COMPLY WITH AREA CODE GOVERNING THE HEIGHT OF VACUUM BREAKER ON THE FLUSHOMETER VALVE, THE PLUMBER MUST VERIFY DIMENSIONS SHOWN FOR SUPPLY ROUGHING.
THIS TOILET DESIGNED TO ROUGH-IN AT A MINIMUM DIMENSION OF 254MM (10") AND A MAXIMUM DIMENSION OF 305MM (12") FROM FINISHED WALL TO C/L OF OUTLET.
FLUSHOMETER VALVE NOT INCLUDED WITH FIXTURE AND MUST BE ORDERED SEPARATELY. FLUSHOMETER VALVE REQUIREMENTS FOR 12" (305MM) ROUGH-IN: SWEAT EXTENSION NIPPLE IS REQUIRED. REFER TO VALVE MANUFACTURER AND LOCAL CODES.

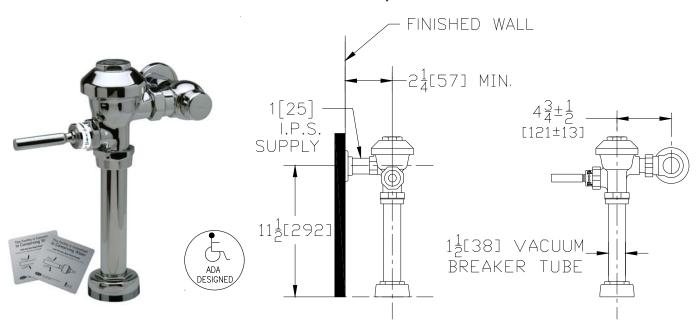
**IMPORTANT**: Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard A112.19.2. These measurements are subject to change or cancellation. No responsibility is assumed for use of superseded or voided pages.



AquaVantage® AV **TAG** 

## Z6000AV-WS1-DF ✓

#### Flush Valve for Low Consumption Water Closets



#### Flow Options

□-WS1 Low Consumption Flush (1.6/1.1)

#### Accessories

□-BG	BioCare ADA Handle
□-YJ	Split Ring Pipe Support
□-YK	Solid Ring Pipe Support
□-YO	Bumper on Angle Stop
□-	Other



ZURN INDUSTRIES, LLC. ♦ COMMERCIAL BRASS OPERATION 5900 ELWIN BUCHANAN DRIVE ♦ SANFORD NC 27330 PHONE: 1-800-997-3876 FAX: 919-775-3541 WWW.ZURN.COM IN CANADA: ZURN INDUSTRIES LIMITED 3544 NASHUA DRIVE ♦ MISSISSAUGA, ONTARIO L4V1L2 PHONE: 905-405-8272 FAX: 905-405-1292

### **ENGINEERING SPECIFICATIONS**

Exposed, quiet diaphragm-type, chrome plated flushometer valve with a polished exterior.

- Zurn's AquaVantage® TPE diaphragm Clog Resistant by-pass Chloramine resistant **Dual seal**
- Proprietary DR resistant low lead brass alloy
- Dual Flush Handle

Lift handle up for 30% of full flush. (Liquid Waste) Push handle down for full flush. (Solid waste) Wall plate with graphics and instructions ADA compliant

Control Stop

Internal siphon-guard protection Vandal resistant stop cap Sweat solder kit

Cast wall flange with set screw

Vacuum Breaker

High back pressure One piece hex coupling nut

Internal seals Chloramine resistant

- Adjustable tailpiece
- Spud coupling and flange for top spud connection

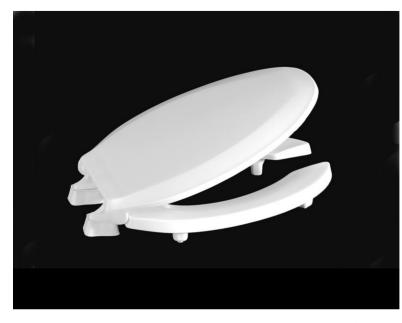
The information contained in this document is subject to change without notice. Please contact Zurn for most up to date information.

Date: 4/12/12

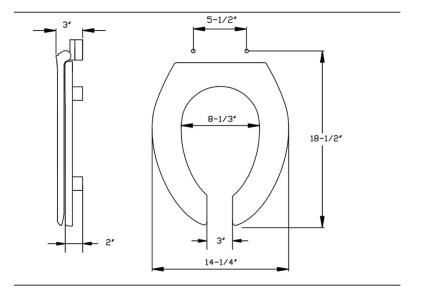


#### **Antimicrobial**

US: Antimicrobial additive inhibits the growth of stain and odor causing bacteria on this article. CDN: Contains CESA-MB8233 as a preservative for the protection of this article.







Dimensions shown are nominal and may vary within a range of tolerance. Product specifications are subject to change without notice

## AM - HL820STS-001 🗸



#### COMMERCIAL HEAVY DUTY

### **Product Specifications**

Shape	Elongated
Seat Material	Polypropylene
Seat Form	Open front
Commercial Hing	<b>e</b> Yes
<b>Bolt Material</b>	Stainless steel
Hardware Materia	l Stainless Steel
Check Hinge	Yes
Cover	Yes
Custom Gasket	Yes
Color	White
Warranty 1	year limited warranty
Available Colors	White, bone,

#### **Features**

### **ADA Compliant Raised Seat**

ADA compliant 2" medical assistance raised toilet seat.

### **Commercial Hinge**

Includes commercial grade hinges. One piece solid metal hinge pin and bolt over molded with plastic.

### **PROIVDE** AMHL820STS-001

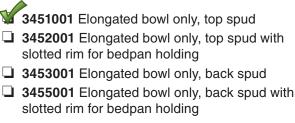




## Madera<sup>™</sup> FloWise<sup>®</sup> 15" Height Elongated Flushometer Toilet VITREOUS CHINA with EVERCLEAN®

#### Madera™ FloWise® 15" Height Elongated with EverClean®

- Floor mount flushometer valve toilet
- Vitreous china
- High Efficiency, Low Consumption. Operates in the range of 1.1 gpf to 1.6 gpf (4.2 Lpf to 6.0 Lpf)
- Meets definition of HET (High Efficiency Toilet) when used with a high efficiency flush valve (1.28 gpf or 1.6 / 1.1 gpf dual flush)
- Permanent EverClean® surface inhibits the growth of stain and odor-causing bacteria, mold, and mildew on the surface
- Fully glazed 2-1/8" trapway
- Elongated bowl
- 10" or 12" roughing-in
- 15" rim height
- Condensation channel
- · Powerful direct-fed siphon jet action
- 10" x 12" water surface area
- 1-1/2" inlet spud
- 2 bolt caps



#### System MaP\* Score:

- 1,000 grams of miso @ 1.1 gpf, 1.28 gpf or 1.6 gpf when used with an American Standard flush valve
  - Maximum Performance (MaP) testing performed by IAPMO R&T Lab. MaP Report conducted by Veritec Consulting, Inc. and Koeller and Company.

#### **Component Parts:**

□ 047007-0070A Inlet Spud (furnished with bowl) 481310-100 Bolt caps with retainers (furnished with bowl)

#### **Nominal Dimensions:**

718 x 356 x 381mm (28-1/4" x 14" x 15")

Not Reviewed

ly, less seat and flush valve Consulting Recor per between 25 psi at valve when incar incar in a psi static mechanical lacoratical lacoratic This recomplianceir Centifications the sole purpose of ascertaining of the consulting and the state of the state submitting sima and the sew shall not relieve the contractor of his responsibility for errors or omissions in the shop drawings or his responsibility for meeting all requirements of the construction and contract documents. Reviewed Reviewed As Noted

Revise and Resubmit



#### SEE REVERSE FOR ROUGHING-IN DIMENSIONS

#### To Be Specified:

- □ Color: White
- ☐ Seat:
  - ☐ American Standard #5901.100 Heavy duty open front less cover
  - ☐ American Standard #5905.100 Extra heavy duty open front less cover
- ☐ Flushometer Valve:
  - ☐ 1.6 gpf:
    - ☐ Sensor-Operated: American Standard Selectronic® DC Power #6065.161.002 (Top Spud)
    - ☐ Sensor-Operated: American Standard Selectronic® AC Power #6067.261.002 (Back Spud)
  - ☐ Manual: American Standard #6047.161.002 (Top Spud)
  - 1.28 apf:
    - ☐ Sensor-Operated: American Standard Selectronic® DC Power #6065.121.002 (Top Spud)
    - ☐ Sensor-Operated: American Standard Selectronic® AC Power #6067.221.002 (Back Spud)
    - ☐ Manual: American Standard #6047.121.002 (Top Spud)
  - ☐ 1.6 / 1.1 gpf Dual Flush:
    - Sensor-Operated: American Standard Selectronic® DC Power #6065.761.002 (Top Spud)









**ENVIROMENTAL** PRODUCT DECLARATION

When used with 1.1 or 1.28 gpf toilet flush valves

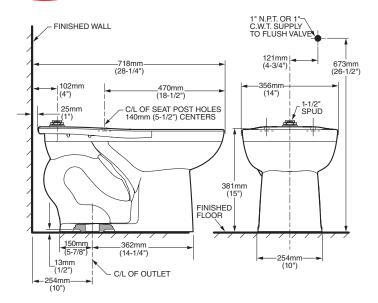
**FVFRCI FAN** 

WATER **EFFICIENT** 

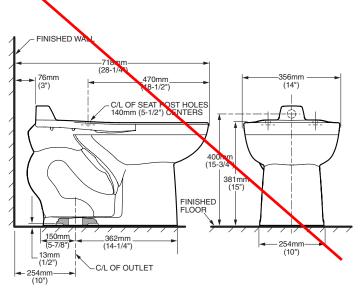


# Madera<sup>™</sup> FloWise<sup>®</sup> 15" Height Elongated Flushometer Toilet VITREOUS CHINA WITH EVERCLEAN®

## 3451001 3452001



## 3453001 / 3455001



NOTES:
PRODUCT 3451 AND 3453 SHOWN, 3452 AND 3455 SAME EXCEPT

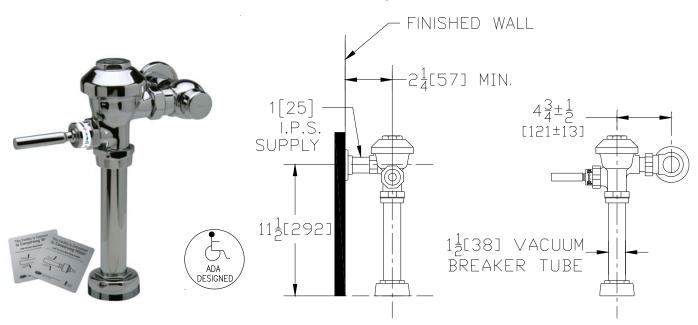
CONSUMTING OTTED RIM FOR BED PAN HOLDING.
Engineers in June 11 June 12 responsibility for errors or omissions in the shop drawings or his responsibility for errors or omissions in the shop drawings or his responsibility for meeting all requirements of the construction IMPORTANTs: Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard A112.19.2. These Reviewed Reviews Channel and Reviewed Constitution in the range of tolerances established by ANSI Standard A112.19.2. These Reviewed Reviews Channel and Resubmit



AquaVantage® AV TAG

## Z6000AV-WS1-DF ✓

#### Flush Valve for Low Consumption Water Closets



### Flow Options

□**-WS1** Low Consumption Flush (1.6/1.1)

#### Accessories

□-BG	BioCare ADA Handle
□-YJ	Split Ring Pipe Support
□-YK	Solid Ring Pipe Support
□-YO	Bumper on Angle Stop
□-	Other



ZURN INDUSTRIES, LLC. ◆ COMMERCIAL BRASS OPERATION 5900 ELWIN BUCHANAN DRIVE ◆ SANFORD NC 27330 PHONE: 1-800-997-3876 ◆ FAX: 919-775-3541 WWW.ZURN.COM IN CANADA: ZURN INDUSTRIES LIMITED 3544 NASHUA DRIVE ◆ MISSISSAUGA, ONTARIO L4V1L2 PHONE: 905-405-8272 FAX: 905-405-1292

### **ENGINEERING SPECIFICATIONS**

Exposed, quiet diaphragm-type, chrome plated flushometer valve with a polished exterior.

- Zurn's AquaVantage® TPE diaphragm Clog Resistant by-pass Chloramine resistant Dual seal
- Proprietary DR resistant low lead brass alloy
- ➤ Dual Flush Handle
  Lift handle up for 30% of full flush. (Liquid Waste)
  Push handle down for full flush. (Solid waste)
  Wall plate with graphics and instructions

ADA compliant

Control Stop

Internal siphon-guard protection Vandal resistant stop cap Sweat solder kit

Cast wall flange with set screw

Vacuum Breaker

High back pressure
One piece hex coupling nut

Internal seals Chloramine resistant

- Adjustable tailpiece
- Spud coupling and flange for top spud connection

The information contained in this document is subject to change without notice. Please contact Zurn for most up to date information.

Date: 4/12/12



## AM500STSCCSS-001√

#### COMMERCIAL HEAVY DUTY



Shape Elongated **Seat Material** Polypropylene Seat Form Open front **Commercial Hinge** Yes **Bolt Material** Stainless steel Hardware Material Stainless Steel **Check Hinge** Yes Cover No **Custom Gasket** Yes Color White Warranty 1 year limited warranty

**Available Colors** 

White,

#### **Features**

### Self Sustaining

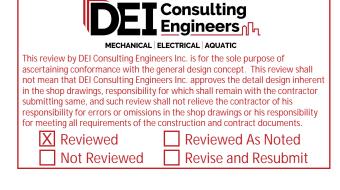
Self Sustaining hinge holds commercial seats in place and avoids slamming.

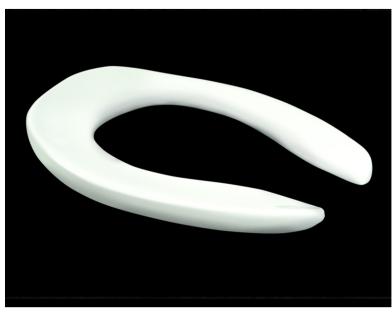
#### **Antimicrobial**

US: Antimicrobial additive inhibits the growth of stain and odor causing bacteria on this article. CDN: Contains CESA-MB8233 as a preservative for the protection of this article.

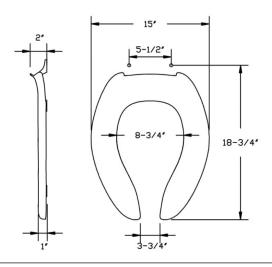
### **Commercial Hinge**

Includes commercial grade hinges. One piece solid metal hinge pin and bolt over molded with plastic.









Dimensions shown are nominal and may vary within a range of tolerance. Product specifications are subject to change without notice.



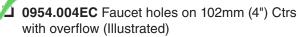
# MURRO™ UNIVERSAL DESIGN WALL-HUNG LAVATORY WITH EVERCLEAN®

VITREOUS CHINA/ACRYLIC

**BARRIER FREE** 

## MURRO™ UNIVERSAL DESIGN WALL-HUNG LAVATORY WITH EVERCLEAN®

- Vitreous china with EverClean
- Available with rear overflow or less overflow
- Recessed self-draining deck
- For concealed arm or wall support
- Optional vitreous china shroud/knee contact guard 0059.020EC available
- Optional acrylic shroud/knee contact guard 0062.000 available
- ADA and TAS compliant



- 0954.123EC Faucet holes on 102mm (4") Ctrs with overflow
  - Extra right-hand hole
- 0954.121EC Faucet holes on 102mm (4") Ctrs with overflow
  - Extra left-hand hole
- □ 0954.904EC Faucet holes on 102mm (4") Ctrs less overflow
- □ 0958.008EC Faucet holes on 203mm (8") Ctrs with overflow
- □ 0958.908EC Faucet holes on 203mm (8") Ctrs less overflow
- □ 0955.001EC Center hole only with overflow
- □ 0955.123EC Center hole only with overflow
  - Extra right-hand hole
- □ 0955.121EC Center hole only with overflow
  - Extra left-hand hole
- □ 0955.901EC Center hole only less overflow

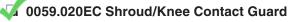
#### **Nominal Dimensions:**

520mm (20.5") deep, 540mm (21-1/4") wide

#### **Bowl sizes:**

394mm (15-1/2") wide, 343mm (13-1/2") front to back, 127mm (5") deep

☐ 0062.000 Acrylic Shroud/Knee Contact Guard (Must be purchased separately)



(Vitreous China with EverClean)
(Must the Consulting Engineers

MECHANICAL | ELECTRICAL | AQUATIC

This review by DEI Consulting Engineers Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that DEI Consulting Engineers Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the contractor submitting same, and such review shall not relieve the contractor of his responsibility for errors or omissions in the shop drawings or his responsibility for meeting all requirements of the construction and contract documents.

☐ Reviewed ☐ Not Reviewed

Reviewed As Noted

Revise and Resubmit



Shown with 0062.000 shroud



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

#### To Be Specified:

- Color: White
- Optional Acrylic Shroud/Knee Contact Guard: 0062,000
- Optional Vitreous China Shroud/Knee Contact Guard: 0059.020EC
- ☐ Faucet\*:
- □ Faucet Finish:PROVIDE SUBMITTAL FOR FLOOR
  □ Supplies:
- ☐ 1-1/4" Trap: MOUNTED WALL CARRIER
- □ Nipple: AND INSULATION
- See faucet section for additional models available

## Compliance Certifications Meets or Exceeds the Following Specifications:

• ASME A112.19.2 for Vitreous China Fixtures



MEETS THE AMERICANS WITH DISABILITIES ACT GUIDE-LINES AND ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES - CHECK LOCAL CODES. Top of front rim mounted 864mm (34") from finished floor.

© 2019 AS America Inc.

spec\_0954-0955-0958 Murro Wall Hung w/EC Rev 7/19



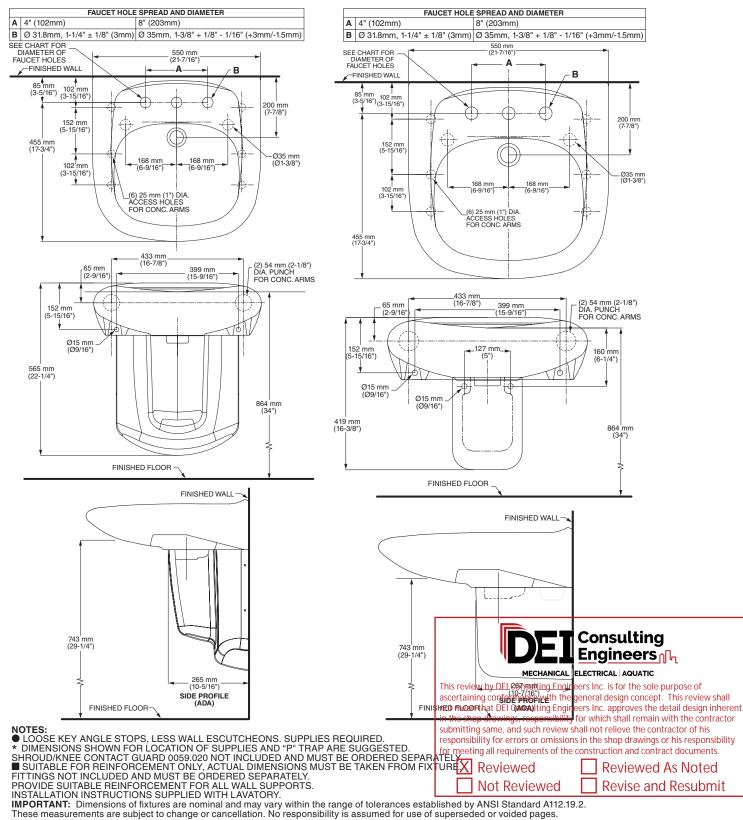
# MURRO™ UNIVERSAL DESIGN WALL-HUNG LAVATORY WITH EVERCLEAN®

VITREOUS CHINA/ACRYLIC

**BARRIER FREE** 

#### **MURRO WITH ACRYLIC SHROUD**





### **591TF Series**

QUOTED AS PER MODEL # SPECIFIED, IF HARDWIRED FAUCET IS REQUIRED, PLEASE ADVISE BEFORE ORDERING



### **COMMERCIAL**

## **Electronic Faucet with Surface Mount Control**

**SPECIFICATION:** (Example - 591TF0220)

- Supplied as complete product
- H<sub>2</sub>Optics® Technology no external adjustments required
- Chrome-plated CAST 4" (102 mm) spout with integral sensor
- Metal hold-down package
- Hardwire Operated (24 VAC) infrared electronic handwash system
- Laminar outlet 1.5 gpm (5.7 L/min)
- Adjustable sensing range and timeout
- · Surface mount housing
- Mixing valve required (order separately)
- Serviceable filter screen upstream of the valve

#### **AVAILABLE CONFIGURATIONS:**

- Battery Operated (4 "C" cell) supplied as complete
- Hardwire Operated (24 VAC) supplied as complete
- Outlets
  - Laminar outlet 1.5 gpm (5.7 L/min)
  - Laminar outlet 0.5 gpm (1.9 L/min)
  - Spray outlet 0.35 gpm (1.32 L/min)



#### **MODEL NUMBER EXAMPLE:**

Configurations vary, see below for availability.



Power Supply			ipply		
		(	0 = Hardwire Operated		1 = Battery Operated
	Available Models	Deckmount Hi-Rise Spout	<b>3</b>		eckmount i-Rise Spout
	Laminar outlet 1.5 gpm (5.7 L/min)	591TF0220		59	91TF1220
Outlet	5 Laminar outlet 0.5 gpm (1.9 L/min)	591TF0250		59	91TF1250 🗸
	9 Spray outlet 0.35 gpm (1.32 L/min)	591TF0290		59	91TF1290  T Consulting
PROVIDE HARDWIRED FAUCET				asc noi in t sub	MECHANICAL   ELECTRICAL   AQUATIC  is review by DEI Consulting Engineers Inc. is for the sole purpose of certaining conformance with the general design concept. This review shall of mean that DEI Consulting Engineers Inc. approves the detail design inherent the shop drawings, responsibility for which shall remain with the contractor bmitting same, and such review shall not relieve the contractor of his spensibility for errors or omissions in the shop drawings or his responsibility
Engineer/Architect Approval		for	r meeting all requirements of the construction and contract documents.		
Model Specified:			Reviewed Reviewed As Noted		
Approval:		Date:		Not Reviewed X Revise and Resubmit	

Watersense® is a registered trademark of the U.S. Environmental Protection Agency

Flow Rates are at 60 PSI.

NOTICE Use all pages as product submittal sheets.



## **591TF Series**

## **Electronic Faucet with Surface Mount Control**

# **DELTA**

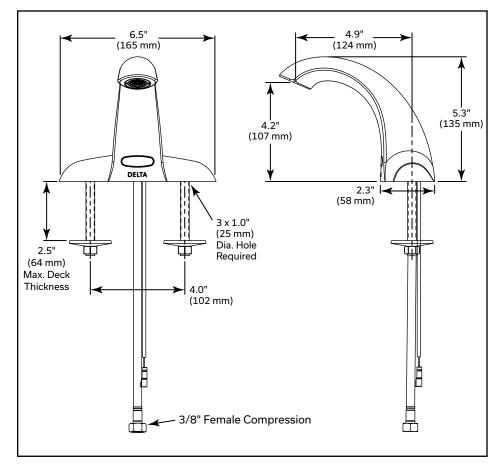
#### COMMERCIAL

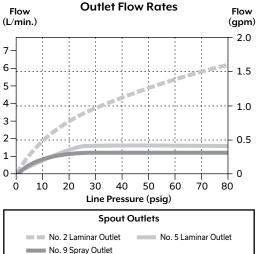
#### **APPROVALS:**

- Complies to ASME A112.18.1/CSA B125.1
- Indicates compliance to ICC / ANSI A117.1
- Outlet options 2 is EPA WaterSense® listed
- Verified compliant with 0.25% weighted average Pb content regulations

#### **AVAILABLE OPTIONS FOR FIELD CONVERSION** (Sold Separately)

- 063268A Battery backup assembly for **surface mount box** (Batteries included) See **DSP-BBBox** for detailed specification.
- 063266A Plug-in power supply
- 061406A - Plug-In with Battery Backup
- 060704A 120 to 24 VAC Class 2 20 VA (Up to 5 Electronic Valves)
- 060771A 120 to 24 VAC Class 2 40 VA (Up to 10 Electronic Valves)
- 061256A - 36" Sensor Cable Extension
- ☐ 063272A Ganging cable
- ☐ 062032A Polymer Braided Hose
- 060651A 3 Position Switch See **DSP-ELACC** for detailed specification.





PROVIDE HARDWIRED FAUCET

<b>DEL</b> Engineers Nh
MECHANICAL   ELECTRICAL   AQUATIC
nis review by DEI Consulting Engineers Inc. is for the sole purpose of scertaining conformance with the general design concept. This review shall of mean that DEI Consulting Engineers Inc. approves the detail design inherent I the shop drawings, responsibility for which shall remain with the contractor ubmitting same, and such review shall not relieve the contractor of his esponsibility for errors or omissions in the shop drawings or his responsibility or meeting all requirements of the construction and contract documents.

T Consulting

Reviewed Not Reviewed Reviewed As Noted

Revise and Resubmit

NOTICE Measurements may vary ± 0.25" (6mm)



### **591TF Series**

## **Electronic Faucet with Surface Mount Control**



## **COMMERCIAL**

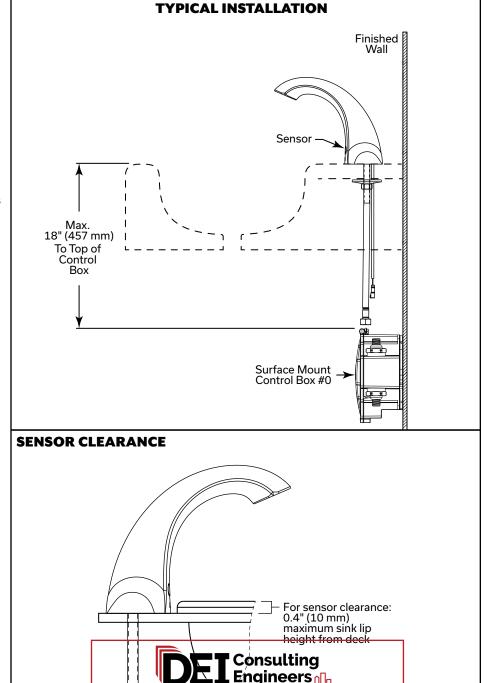
#### **OPERATION:**

- Hands free (touchless) operation.
- Water flows when sensor is activated.
- Water flow stops upon de-activiation of sensor.
- Adjustable auto shut-off feature. Factory set to 45 seconds. Will reset once obstruction is removed.
- Adjustable sensing distance 3" to 15" (76 to 381mm) factory set to 9" ±3.0" (229 mm ± 76 mm)
- Low battery audible beep (for battery models only) will activate after faucet shuts off when approximately 1500 cycles remain.
- Metering mode with selectable flow times of 7 seconds to 4 minutes, factory set off.
- Periodic Rinse feature, time adjustable in 6 hour increments up to 2 days. Selectable rinsing lengths from 10 to 180 seconds. Factory set off.

#### NOTICE

- #1 For optimum performance of this product, we recommend a system pressure between 20 and 80 Psi (138 and 552 kPa) static. This product will operate up to a maximum of 125 Psi (862 kPa) static per ANSI and CSA requirements. However, we do not recommend pressures above 80 Psi (552 kPa). Thermal expansion or leaking pressure reducing valves may require use of expansion tanks or relief valves to ensure your system never exceeds its maximum intended pressure setting.
- #2 Designed for routine 171°F (77°C) disinfection cycles up to 30 minutes.

#### PROVIDE HARDWIRED FAUCET



ascertaining conformance with the general design concept. This review shall not mean that DEI Consulting Engineers Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the contractor submitting same, and such review shall not relieve the contractor of his responsibility for errors or omissions in the shop drawings or his responsibility for meeting all requirements of the construction and contract documents.

Reviewed Reviewed As Noted

MECHANICAL | ÉLECTRICAL | AQUATIC
This review by DEI Consulting Engineers Inc. is for the sole purpose of

Reviewed
Not Reviewed

Ш	Reviewed As Noted
X	<b>Revise and Resubmit</b>



#### PROVIDE HARDWIRED FAUCET

# **DELTA**.

## **Electronic Faucet with Surface Mount Control**

#### COMMERCIAL

### **SURFACE MOUNT CONTROL CONFIGURATIONS**

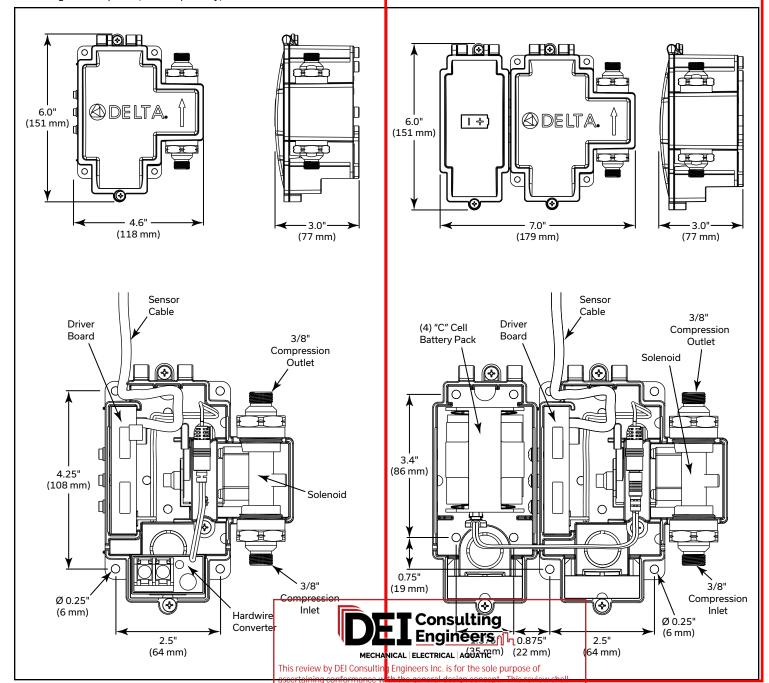
#### **Hardwire Operated**

**591TF Series** 

- Supplied as complete product
- $\mathbf{H_2Optics}^{\scriptscriptstyle{\circledcirc}}$  Technology no external adjustments required
- Hardwire Operated (24 VAC) infrared electronic handwash system
- Watertight Connector
- Hardwire Converter 24 VAC to 6.4 VDC.
- Surface mount housing
- Serviceable filter screen upstream of the valve
- Mixing valve required (order separately)

#### **Battery Operated**

- Supplied as complete product
- H2Optics® Technology no external adjustments required
- Battery Operated (4 "C" cell) infrared electronic handwash system
- Watertight Connector
- Surface mount housing
- Serviceable filter screen upstream of the valve
- Mixing valve required (order separately)



Watersense® is a registered trademark of the U.S. Environmental P in the shop drawings, responsibility for which shall remain with the contractor of the con

Flow Rates are at 60 PSI. Use all pages as product submittal sheets.

models, both without notice or obligation. Dimensions are for reference www.specselect.com for finish options and product availability.

Reviewed Not Reviewed

**Reviewed As Noted** X Revise and Resubmit **DSP-591TFCBO, Rev A** 

### Product Specification

Job Name	Contractor
	Approval
	Contractor's P.O. No.
	Representative

## LEAD FREE\*

## **HYDROGUARD®**

## Series LFLM495 ✓

## Thermostatic Mixing Valves for **Lavatory Installations**

#### **Features**

- Temperature control to ASSE 1069, 1070 and 1017 down to 0.5 gpm
- · Advanced thermal actuator improves performance at low flow
- Lead Free\* cast copper silicon alloy body construction for durability and to comply with Lead Free\* requirements
- Adjustable temperature selection with lock down
- Union connections for easy maintenance
- Integral checks and screen prevents cross-flow and contamination
- Available in ½", ¾", 1" (15, 20, 25 mm) with NPT, Sweat, PEX, Quick-Connect, CPVC union connections and w/press

#### **Specifications**

**Temperature Adjustment:** 80°- 120°F (27°C to 49°C) **Approach Temperature:** 5°F (3°C) above set point Max. Operating Pressure: 125 psi (861 kPa) Max. Hot Water Temperature: 200°F (93°C)

Max. Pressure Differential

between

**Hot & Cold Water Supplies:** 

**Minimum Flow:** 0.5 gpm (1.90 lpm) when tested in accor-

dance with ASSE 1017-2003

**Check Valves:** 

**Construction:** Lead Free\* Cast copper silicon alloy body ASSE 1069, ASSE 1070, ASSE 1017, IAPMO Listing:

cUPC, and NSF372

Viega Pro-Press™ connections are optional factory installed fitting on each end of the approved/certified assembly

#### Capacity

X Reviewed

Not Reviewed

		Pre	ssure Drop A	Across The V	/alve			
(C <sub>v</sub> ) 1 psi	5 psi	10 psi	15 psi	20 psi	30 psi	45 ps	Sİ	60 psi
(7 kPa)	(34 kPa)	(69 kPa)	(103 kPa)	(138 kPa)	(207 kPa)	(310 k	Pa)	(414 kPa)
1.79	Map u v	5.7 gpm	7.0 gpm	8.0 gpm	9.8 gpm	12.0 g	pm	13.9 gpm
1.75	D 10	(22.6 pl)	<b>'</b> ônsul	<b>ting</b> n)	(37.0 lpm)	(45.0 l	om)	(53.0 lpm)
	1 – 1		naine	ers		<u> </u>		

\*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight. This review by DEI Consulting Engineers Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that DEI Consulting Engineers Inc. approves the detail design inherent

in the shop drawings, responsibility for which shall remain with the contractor submitting provided for reference only. For precise measurements, submitting provided for reference only. For precise measurements, submitting provided for reference only. For precise measurements, responsibility product design, construction, specifications, or materials with-responsibility product design, construction, specifications, or materials withfor pull-light applies and without incurring any application in greate such expensions of Powers products previously or subsequently sold.













Activation

UNION CONNECTIONS		
Female NPT	1/2" (15)	LFLM495-1
	3/4" (20)	LFLM496-1
	1" (25)	LFLM497-1
Sweat	1/2" (15)	LFLM495-2
	3/4" (20)	LFLM496-2
	1" (25)	LFLM497-2
CPVC	1/2" (15)	LFLM495-3
	3/4" (20)	LFLM496-3
	1" (25)	LFLM497-3
PEX	1/2" (15)	LFLM495-4
	3/4" (20)	LFLM496-4
	1" (25)	LFLM497-4
Quick-Connect	1/2" (15)	LFLM495-5
	3/4" (20)	LFLM496-5
	1" (25)	LFLM497-5
w/Press	1/2" (15)	LFLM495-1 w/press
	3/4" (20)	LFLM496-1 w/press
	1" (25)	LFLM497-1 w/press

#### **A** WARNING

When used in an ASSE 1017 application at the hot water source, the Powers Thermostatic Mixing Valve Series LFLM495 cannot be used by itself to control final temperature at fixtures where ASSE Standard 1016 or ASSE Standard 1070 listed devices are required. Such use may result in severe bodily injury (i.e. scalding or chilling) and/or death. ASSE Standard 1016, ASSÉ 1069 or ASSE Standard 1070 listed devices, such as Powers Series LFe480 or LFLM495, should be used at point-of-use to prevent possible injury. Consult all product manuals, and instruction guides before installing any referenced product.

Recirculation systems should recirculate water at temperatures over 140°F to reduce the risk of bacterial growth in the piping. This valve should not be used at the hot water source in recirculation systems.

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.



#### **Dimensions**

MODEL	LFLM495-1	LFLM496-1	LFLM497-1	LFLM495-2	LFLM496-2	LFLM497-2	LFLM495-3	LFLM496-3	LFLM497-3	LFLM495-4	LFLM496-4	LFLM497-4
CONNECTIONS	1/2" NPT	3/4" NPT	1" NPT	1/2" SWEAT	3/4" SWEAT	1" SWEAT	1/2" CPVC	3/4" CPVC	1" CPVC	1/2" PEX	3/4" PEX	1" PEX
	FEMALE	FEMALE	FEMALE	I/Z SWEAT	3/4 SWEAT	I SWEAI	1/2 UF VU	3/4 UFVU	I OF VO	1/2 FEA	3/4 FEA	I FEA
"A"	4-7/8	4-7/8	5-5/16	4-13/16	5-5/16	5-13/16	4-3/4	5-1/4	5-11/16	5-1/4	5-1/2	5-7/8
_ A	(124mm)	(124mm)	(135mm)	(123mm)	(135mm)	(148mm)	(121mm)	(133mm)	(144mm)	(133mm)	(140mm)	(149mm)
"B"	5-7/16	5-7/16	5-5/8	5-3/8	5-5/8	5-7/8	5-5/16	5-9/16	5-13/16	5-9/16	5-11/16	5-7/8
В	(137mm)	(137mm)	(143mm)	(137mm)	(143mm)	(149mm)	(136mm)	(142mm)	(147mm)	(142mm)	(145mm)	(150mm)
"C"	3-3/16	3-3/16	3-3/8	3-1/8	3-3/8	3-5/8	3-1/16	3-5/16	3-9/16	3-5/16	3-7/16	3-5/8
U	(80mm)	(80mm)	(86mm)	(80mm)	(86mm)	(92mm)	(79mm)	(85mm)	(90mm)	(85mm)	(88mm)	(93mm)

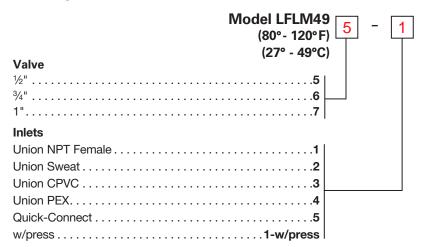
MODEL CONNECTIONS	LFLM495-5 1/2" Ouick-	LFLM496-5 3/4" Ouick-	LFLM497-5 1" Ouick-
	CONNECT	CONNECT	CONNECT
"Δ"	6-5/8	6-15/16	7-1/8
^	(168mm)	(177mm)	(181mm)
"B"	6-1/4	6-7/16	6-1/2
В	(159mm)	(163mm)	(165mm)
"C"	4	4-3/16	4-1/4
L C	(102mm)	(106mm)	(108mm)

Note:
Dimensions are shown ±1/4"
Dimensions in brackets are in mm
Consult factory for dimensions
w/press

C

Tempered Outlet

#### **Ordering Information**



#### **Typical Specification**

Thermostatic tempering valve shall be constructed using Lead Free\* cast copper silicon alloy material which shall comply with state codes and standards, where applicable requiring reduced lead content. The valve shall feature advanced paraffin-based actuation technology and union connections for ease of maintenance. All internal components shall be corrosion-resistant. Valve shall feature integral checks to prevent crossflow and inlet screens to filter out debris. The valve shall be ASSE 1069, ASSE 1070, ASSE 1017 and IAPMO cUPC listed. Capacity of the valve shall be 12.0 gpm (45.0 lpm) at 45psi (310 kPa) differential. Valve shall perform to a minimum flow of 0.5 gpm (2 lpm) to ASSE 1070. Control temperature shall be adjustable between 80°F - 120°F (27 - 49°C). The

valve shall feature a vandal-resistant lockable handle to prevent tampering. The valve shall be a Powers' HydroGuard® Model LFLM495 (1/2", 15mm), LFLM496 (3/4", 20mm), LFLM497 (1", 25mm). Any alternate

must have a written coval prior to bidding.

Consulting Engineers

MECHANICAL | ELECTRICAL | AQUATIC

This review by DEI Consulting Engineers Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that DEI Consulting Engineers Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the contractor submitting same, and such review shall not relieve the contractor of his responsibility for errors or omissions in the shop drawings or his responsibility for meeting all requirements of the construction and contract documents.

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	Not Reviewed	

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Revise and Resubmit

**POWERS** 

A WATTS Brand

USA: Tel: (800) 669-5430 • Fax: (847) 229-0526 • PowersControls.com
Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • PowersControls.ca
Latin America: Tel: (52) 81-1001-8600 • Fax: (52) 81-8000-7091 • PowersControls.com

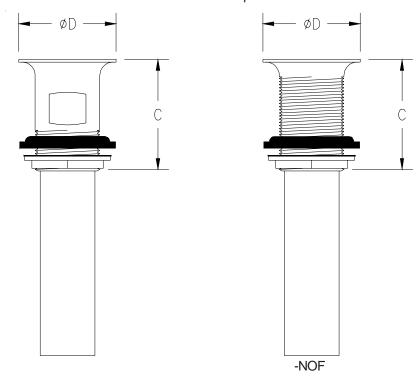
ES-P-LFLM495 1905 © 2019 Powers

## SOLID TOP, OPEN-GRID P.O. PLUGS

✓Z8743-PC

TAC		
TAC	フ	

**Engineering Specification:** Zurn Z8743-PC – Chrome plated cast brass solid top, open grid, P.O. plug. Furnished with 5"[127mm] long, chrome plated brass 17 gauge tailpiece and chrome plated cast brass locknut for sink depth up to 2 1/4"[57mm]. 6"-, 8"-, 10"-and 12"- tailpieces available.



Note: All dimensions are for reference only. Do not use for pre-plumbing

	PRODUCT	TAILPIECE	DIMEN	SIONS	MASTER	WEIGHT	
	NUMBER	in[mm]	Cin[mm]	ØDin[mm]	CARTON	CARTON	
1	Z8743-PC	1 1/4[32]	2 9/16[65]	2 1/4[57]	30	30	
	Z8743-1-PC	1 1/2[38]	2 9/16[65]	2 1/4[57]	30	30	

#### OPTIONAL ACCESSORIES

OPTIO	NAL ACCESSORIES	T Consulting
Suffix	Description	<b>ULL</b> Engineers ∩ ₁
	·	MECHANICAL   ELECTRICAL   AQUATIC
	-NOF No Overflow (PC Only) -PB Polished Brass -6 w/6"[152mm] Tailpiece -8 w/8"[203mm] Tailpiece -12 w/12"[305mm] Tailpiece	This review by DEI Consulting Engineers Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that DEI Consulting Engineers Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the contractor submitting same, and such review shall not relieve the contractor of his responsibility for errors or omissions in the shop drawings or his responsibility for meeting all requirements of the construction and contract documents.    X

ZURN INDUSTRIES, INC. ♦ COMMERCIAL BRASS OPERATION ♦ 2640 SOUTH WORK STREET ♦ FALCONER NY 14733
Phone: 1-716-665-1132 ♦ Fax: 1-716-665-1135 ♦ World Wide Web: www.zurn.com
In Canada: ZURN INDUSTRIES LIMITED ♦ 3544 Nashua Drive ♦ Mississauga, Ontario L4V1L2 ♦ Phone: 905/405-8272 Fax: 905/405-1292



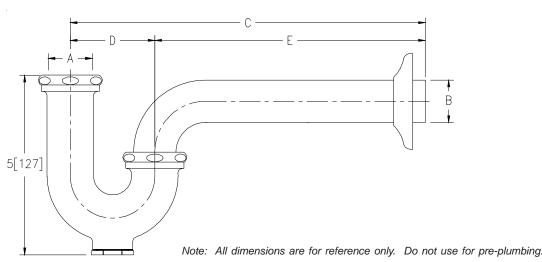
## SEMI-CAST P-TRAPS WITH WALL BEND

Z8700-PC)TO Z8708-PC

п	$\Gamma \Lambda$	
	ΙД	( -
		$\mathbf{\circ}$



Engineering Specification: Zurn Z8700-PC to Z8708-PC. - Chrome-plated cast brass (copper alloy) body P-trap with cleanout, tubular brass wall bend as specified, die-cast nuts, and shallow escutcheon with compression inlet.



		1		_				
PRODUCT	Α	В			IMENSION		MASTER	
NUMBER	INLET in[mm]	OUTLET in[mm]	GAUGE	C in[mm]	D in[mm]	E in[mm]	CARTON	CARTON [lbs]
Z8700-PC	1 1/4[32]	1 1/4[32]	17	10[254]	2 1/2[64]	7 1/2[191]	12	24
Z8700-8-PC	1 1/4[32]	1 1/4[32]	17	11[279]	2 1/2[64]	8 1/2[216]	12	24
Z8700-15-PC	1 1/4[32]	1 1/4[32]	17	15[381]	2 1/2[64]	12 1/2[318]	18	40
Z8701-PC	1 1/4[32]	1 1/2[38]	17	10 1/2[267]	3[76]	7 1/2[191]	12	24
Z8701-9-PC	1 1/4[32]	1 1/2[38]	17	12[305]	3[76]	9[229]	12	24
Z8701-15-PC	1 1/4[32]	1 1/2[38]	17	15[381]	3[76]	12[305]	18	42
Z8702-PC*	1 1/2[38]	1 1/2[38]	17	10 1/2[267]	3[76]	7 1/2[191]	12	24
Z8702-9-PC*	1 1/2[38]	1 1/2[38]	17	12[305]	3[76]	9[229]	12	24
Z8702-15-PC*	1 1/2[38]	1 1/2[38]	17	15[381]	3[76]	12[305]	18	42
Z8703B-PC**	1 1/2[38]	2[51]	17	12 1/2[318]	3 1/2[89]	9[229]	6	18
Z8704B-PC**	2[51]	2[51]	17	12 1/2[318]	3 1/2[89]	9[229]	6	18
Z8706-PC	1 1/4[32]	1 1/4[32]	20	10[254]	2 1/2[64]	7 1/2[191]	12	24
Z8707-PC	1 1/4[32]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24
Z8708-PC*	1 1/2[38]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24

#### **OPTIONAL ACCESSORIES**

Suffix		Description	
	-B	Brass Nuts	T Consulting
	-BX	Box Escutcheon	DET Consulting Engineers
	-CE	Cast Brass Escutcheon with Setscrew	MECHANICAL   ELECTRICAL   AQUATIC
	-D	Deep Escutcheon (Note = not available for Z8703B-F	
	-J	Metal to Metal Ground Joint Connection	ascertaining conformance with the general design concept. This review shall not mean that DEI Consulting Engineers Inc. approves the detail design inherent
	-WC	Waste Connections - Compression	in the shop drawings, responsibility for which shall remain with the contractor
	-15	15[381] C Dim. 1 1/4[32] and 1 1/2[38] Only	submitting same, and such review shall not relieve the contractor of his
	-18	18[457] C Dim. 1 1/4[32] and 1 1/2[38] Only	responsibility for errors or omissions in the shop drawings or his responsibility for meeting all requirements of the construction and contract documents.
* COMES WITH OPTIONAL 1-1/2" x 1-1/4" REDUCTION POLY-WASHER FOR INL			ET X Reviewed Reviewed As Noted
** SHIPPED WITH BRASS NUTS UNLESS OTHERWISE SPECIFIED			Not Reviewed Revise and Resubmit

ZURN INDUSTRIES, LLC ♦ COMMERCIAL BRASS OPERATION ♦ 2640 SOUTH WORK STREET ♦ FALCONER NY 14733 Phone: 1-800-997-3876 ♦ Fax: 1-919-775-3541 ♦ www.zurn.com

In Canada: ZURN INDUSTRIES LIMITED ♦ 3544 Nashua Drive ♦ Mississauga, Ontario L4V1L2 ♦ Phone: 905/405-8272 Fax: 905/405-1292

For Residential and Commercial Applications				
Job Name		Engineer / Architect		
Job Location		Wholesaler		
Submittal Date		Contractor		

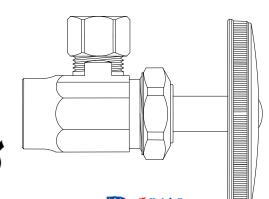
## R1B/R09/R19/R39 Multi-Turn Angle Stop – Sweat x Compression

Use: For use in potable water distribution systems. Not intended for recirculating water systems that produce continuous use temperatures above 115° F. For those applications, use BrassCraft KT series ball stops

#### **Design Features:**

#### PROVIDE SCREWDRIVER STOP

- Machined one-piece brass body provides strength, durability and long-lasting performance
- Oval knurled handle provides a secure grip and smooth on/off operation
- **Easy-to-remove handle** with screw attachment protects accidental stop operation during rough-ins
- Compliant Multi-Turn Stops available for California and Vermont "low-lead" requirements





#### **Operating Specifications:**

Temperature: 40°- 140° F

Pressure: 125 psi maximum

REVISE AND RESUBMIT SHOP DRA ONE OF THE ACCEPTABLE MANUFACTURER INDICATED IN SPECIFICATIONS

#### Standard

MATERIAL SPECIFICATIONS		
Valve Body	C36000 brass	
Stem	POM or C36000 brass*	
Bib & Packing Washers	Nitrile or EPDM rubber	
Packing Nut	C36000 brass	
Handle	Metal	
Handle Screw	Zinc-plated steel	
Compression Sleeve C36000 brass		
Compression Nut	C36000 brass, chrome plated	

MATERIAL SPECIFICATIONS		
Valve Body	Compliant brass	
Stem	POM or Compliant brass*	
Bib & Packing Washers	Nitrile or EPDM rubber	
Packing Nut	Compliant brass	
Handle	Metal	
Handle Screw	Zinc-plated steel	
Compression Sleeve C36000 brass		
Compression Nut	C36000 brass, chrome plated	

D1D C

#### Standard Part Listing:

R1B C	3/8" Nom. Sweat x 3/8" OD Compression, chromo	e plated
R09 C	1/2" Nom. Sweat x 1/4" OD Compression, chromo	plated
R09 CBT	1/2" Nom. Sweat x 1/4" OD Compression, chromo	
R09 C1	1/2" Nom. Sweat x 1/4" OD Compression, chromo	This revieu plated ascertaini
R09 R	1/2" Nom. Sweat x 1/4" OD Compression, rough	pot mean in the sho
R09 R1	1/2" Nom. Sweat x 1/4" OD Compression, rough	orassitiwo
R19 C	1/2" Nom. Sweat x 3/8" OD Compression, chromo	ef <b>plated</b>
R19 CRT	1/2" Nom Sweat x 3/8" OD Compression chrome	nlated

DEI Consulting Engineers Ող
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plated, plain tr<u>me, hanical electrical aquatio</u>

his review by DEL Consulting Engineers Inc. is for the sole purpose of BLETE FIND CONTROLL With the general design concept. This review shall gionean that DEI Consulting Engineers Inc. approves the detail design inherent the shop drawings, responsibility for which shall remain with the contractor assitival adown to a who review shall not relieve the contractor of his asponsibility for errors or omissions in the shop drawings or his responsibility Matering all requirements of the construction and contract documents.

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			Not	Revie	wed

	Reviewed As Noted
X	Revise and Resubmit

This specification and all information contained herein is the confidential and exclusive property of BrassCraft Manufacturing, and shall not be disclosed to others without the written consent of BrassCraft. This specification must be returned to BrassCraft if requested.

2/9" Nom Sweet v 2/9" OD Compression chrome

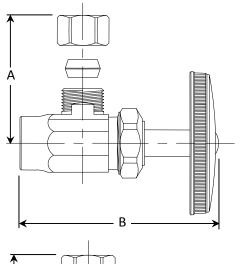


<sup>\*</sup>Where specified

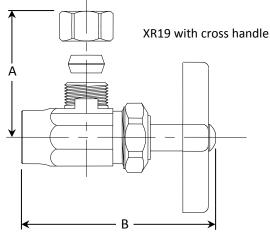
## R1B/R09/R19/R39 Multi-Turn Angle Stop - Sweat x Compression

#### PROVIDE SCREWDRIVER STOP Standard Part Listing (con't): R19 CD 1/2" Nom. Sweat x 3/8" OD Compression, chrome plated, carded R19 C1 1/2" Nom. Sweat x 3/8" OD Compression, chrome plated, window tray R19 R 1/2" Nom. Sweat x 3/8" OD Compression, rough brass R19 RBT 1/2" Nom. Sweat x 3/8" OD Compression, rough brass, plain tray, bulk R19 R1 1/2" Nom. Sweat x 3/8" OD Compression, rough brass, window tray R19P C 1/2" Nom. Sweat x 3/8" OD Compression, pre-assembled, chrome plated **R19PR** 1/2" Nom. Sweat x 3/8" OD Compression, pre-assembled, rough brass R39 C 1/2" Nom. Sweat x 1/2" OD Compression, chrome plated R39 C1 1/2" Nom. Sweat x 1/2" OD Compression, chrome plated, window tray 1/2" Nom. Sweat x 1/2" OD Compression, rough brass R39 R XR19 C 1/2" Nom. Sweat x 3/8" OD Compression, cross handle, chrome plated 1/2" Nom. Sweat x 3/8" OD Compression, cross handle, rough brass **XR19 R** REVISE AND RESUBMIT SHOP DRAWING FROM ONE OF THE **Compliant Part Listing:** ACCEPTABLE MANUFACTURER INDICATED IN SPECIFICATIONS R19X C 1/2" Nom. Sweat x 3/8" OD Compression, chrome plated R19X C1 1/2" Nom. Sweat x 3/8" OD Compression, chrome plated, window tray 1/2" Nom. Sweat x 3/8" OD Compression, rough brass R19X R 1/2" Nom. Sweat x 3/8" OD Compression, rough brass, window tray R19X R1

1/2" Nom. Sweat x 1/2" OD Compression, chrome plated, window tray



R39X C1



	PART DIMENSIONS (Inches)			
	Model	DIM. A	DIM. B	
	R1B	1.02	2.56	
	R09	1.02	2.50	
(	R19	1.02	2.50	
	R39	1.15	2.50	
	XR19	1.02	2.50	

#### **Listings & Certifications:**

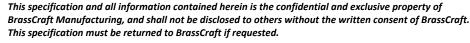
- IAPMO listed to ASME A112.18.1-05 / CSA B125.1-05 (File # 0645)
- CSA listed to ASME A112.18.1-05 / CSA B125.1-05 (File # 204593)
- Compliant product CSA approved to California Health & Safety Code 116875 and Vermont Bill S.152



The tier by DEI Consuling Engineers Inc. is for the sole purpose of ascellaring conformance with the general design concept. This review shall not mean that DEI Consulting Engineers Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the contractor submitting same, and such review shall not relieve the contractor of his responsibility for errors or omissions in the shop drawings or his responsibility for meeting all requirements of the construction and contract documents.

Reviewed	Ш	F
Not Reviewed	X	F

Reviewed As Noted
X Revise and Resubmit





For Residential and Commercial Applications					
Job Name Engineer / Architect					
Job Location		Wholesaler			
Submittal Date		Contractor			

## B1-\*\*A/B2 \*\*A/B3 \*\*A Speedi Plumb® PLUS Braided Faucet **Connector - Compression Inlet**

**Use:** For use in potable water distribution systems in accessible locations only

REVISE AND RESUBMIT SHOP DRAWING FROM ONE OF THE

Design Features: ACCEPTABLE MANUFACTURER INDICATED IN SPECIFICATIONS

- Superior corrosion resistance to harsh chemicals found in common household cleaning and plumbing repair products
- More flexible than stainless steel, the braided polymer-coated fibers bend freely without kinking or crimping
- Tough inner core is reinforced to resist chlorine and chloramine leaching and deterioration
- Nitrile rubber washers provide a large pliable sealing surface and ensures a long lasting water tight connection
- 8-sided pneumatic crimp provides greater dependability for realible nut-to-hose connections
- 100% Compliant to California and Vermont "low-lead" requirements

#### **Operating Specifications:**

40°- 140° F Temperature: Pressure: 125 psi maximum

**Tubing Diameter:** 0.300" I.D. (0.550" O.D.)

MATERIAL SPECIFICATIONS		
Inner Hose	Reinforced PVC	
Braiding	PVC coated polyester yarn	
Barb	Compliant brass	
Ferrule	Zinc plated 1008 steel	
Nut	C36000 brass	
Washer	Nitrile rubber	
Compression Ring & Nut	C36000 brass	



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Part Listing	:	
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B1-20AU D

B1-9A F 3/8" Compression x 1/2" F.I.P. x 9" length B1-12A F 3/8" Compression x 1/2" F.I.P. x 12" length 3/8" Compression x 1/2" F.I.P. x 16" length his review by DEI Consulting Engineers Inc. is for the sol B1-16A F ascertaining conformance with the general design concept. This review shall 3/8" Compression x 1/2" F.I.P. x 20" lengt not mean that DEI Consulting Engineers Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the contractor B1-20A F

3/8" Compression x 1/2" F.I.P. x 20" length connector with 1/2 00 Compression & of his responsibility for errors or omissions in the shop drawings or his responsibility for meeting all requirements of the construction and contract documents.

1/2" Iron Pipe valve adapters, carded 3/8" Compression x 1/2" F.I.P. plastic nut x 20" lengtile wed

B1-20H F

Reviewed As Noted Not Reviewed Revise and Resubmit

MECHANICAL ELECTRICAL AQUATIC

This specification and all information contained herein is the confidential and exclusive property of BrassCraft Manufacturing, and shall not be disclosed to others without the written consent of BrassCraft. This specification must be returned to BrassCraft if requested.



### B1-\*\*A/ B2-\*\*A/ B3-\*\*A **Speedi Plumb® PLUS Braided Faucet Connector - Compression Inlet**

#### Part Listing (con't): B1-24A F 3/8" Compression x 1/2" F.I.P. x 24" length B1-30A F 3/8" Compression x 1/2" F.I.P. x 30" length B1-36A F 3/8" Compression x 1/2" F.I.P. x 36" length 3/8" Compression x 1/2" F.I.P. x 48" length B1-48A F 3/8" Compression x 1/2" F.I.P. x 60" length B1-60A F B2-12A F 7/16" Compression x 1/2" F.I.P. x 12" length 7/16" Compression x 1/2" F.I.P. x 16" length B2-16A F 7/16" Compression x 1/2" F.I.P. x 20" length B2-20A F 1/2" Compression x 1/2" F.I.P. x 9" length B3-9A F 1/2" Compression x 1/2" F.I.P. x 12" length B3-12A F B3-16A F 1/2" Compression x 1/2" F.I.P. x 16" length 1/2" Compression x 1/2" F.I.P. x 20" length B3-20A F 1/2" Compression x 1/2" F.I.P. x 30" length B3-30A F B3-36A F 1/2" Compression x 1/2" F.I.P. x 36" length REVISE AND RESUBMIT SHOP DRAWING FROM ONE OF THE ACCEPTABLE MANUFACTURER INDICATED IN SPECIFICATIONS

PART DIMENSIONS (Inches)	
Model	DIM. A
B1-9A	9.0 / 10.0
B1-12A	12.0 / 13.0
B1-16A	16.0 / 17.0
B1-20A	20.0 / 21.0
B1-30A	30.0 / 31.0
B1-36A	36.0 / 37.0

PART DIMENSIONS (Inches)	
Model	DIM. A
B1-48A	48.0 / 49.0
B1-60A	60.0 / 61.0
B2-12A	12.0 / 13.0
B2-16A	16.0 / 17.0
B2-20A	20.0 / 21.0
B3-9A	9.0 / 10.0

PART DIMENSIONS (Inches)	
Model	DIM. A
B3-12A	12.0 / 13.0
B3-16A	16.0 / 17.0
B3-20A	20.0 / 21.0
B3-30A	30.0 / 31.0
B3-36A	36.0 / 37.0

#### **Listings & Certifications:**

- IAPMO listed to ASME A112.18.6-2003 (File # 0452)
- CSA listed to ASME A112.18.6-2003 / CSA B125 (File #

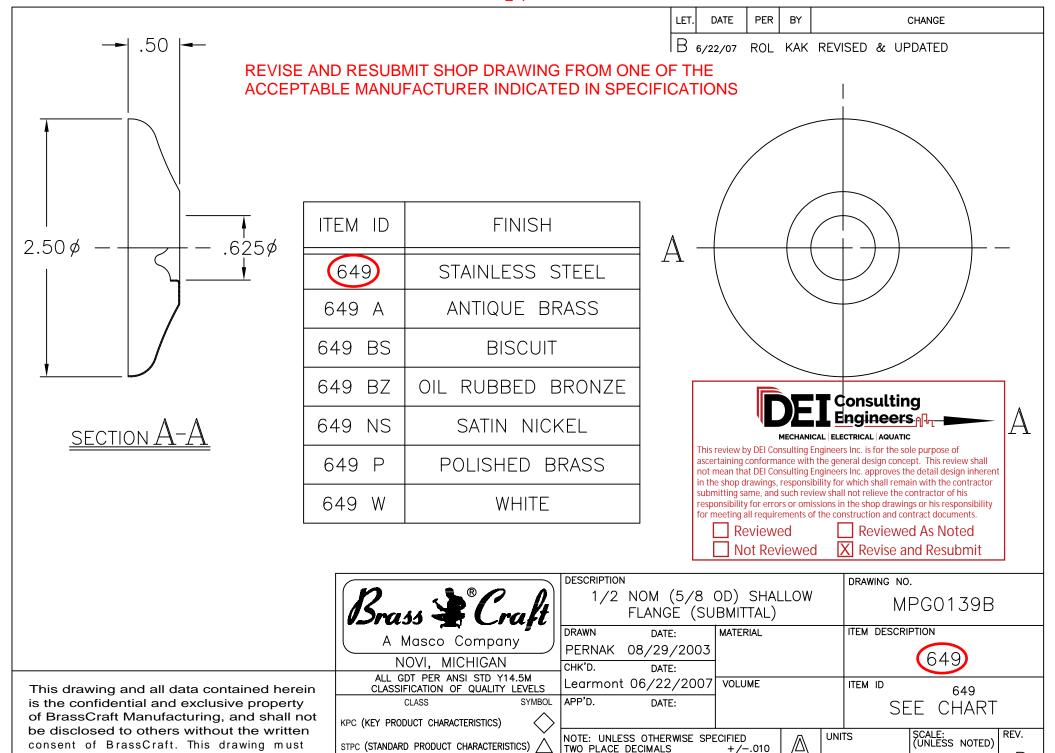
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ı	CSA approved to California Health & Safety Code 1168	75t Rean that DEI Consulting Engineers Inc. appr
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	, ,	responsibility for errors or omissions in the shop
		for meeting all requirements of the construction
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	MECHANICAL ELECTRICAL AQUATIC
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Q	Tascertaining conformance with the general design tendents in its review shall 7.5t & ean that DEI Consulting Engineers Inc. approves the detail design inherent
0	in the shop drawings, responsibility for which shall remain with the contractor
	submitting same, and such review shall not relieve the contractor of his responsibility for errors or omissions in the shop drawings or his responsibility
	for meeting all requirements of the construction and contract documents.
	Reviewed Reviewed As Noted
	Not Reviewed X Revise and Resubmit

**T** Consulting

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be returned to BrassCraft if requested.

В

**FULL** 

+/-.005

SIZE

+/-1°

**INCH** 

THREE PLACE DECIMALS

ANGULARITY

PRODUCT MARKINGS

**&** BARRIER FREE



## **LUCERNE™ WALL-HUNG LAVATORY**

**VITREOUS CHINA** 

LUCERNE™ WALL-HUNG LAVATORY

- Wall-hung sink
- Vitreous china
- Front overflow
- D-shaped bowl
- Self-draining deck area with contoured back and side splash shields
- Faucet ledge
- Compliant with Texas accessibility standard (TAS) for children age group 13 and up

#### Faucet holes on 203mm (8") centers (Illus.):

- □ 0356.028 For exposed bracket support Shown with 4801.862 Amarilis Heritage faucet with Triune Cross handles (not included)
- □ 0356.015 For wall hanger (included) or concealed arms support
- □ 0356.915 For wall hanger (included) or concealed arms support
  - Less overflow

#### Faucet holes on 102mm (4") centers:

- □ 0355.027 For exposed bracket support **3 0355.012** For wall hanger (included) or concealed arms support
- □ 0355.912 For wall hanger (included) or concealed arms support
  - Less overflow

#### Single center faucet hole (Illus.):

- □ 0356.041 For exposed bracket support Shown with 1340.000 metering faucet (not included)
- □ 0356.421 For wall hanger (included) or concealed arms support
- □ 0356.921 For wall hanger (included) or concealed arms support
  - Less overflow
- □ 0356.439 For wall hanger (included) or concealed arms support
  - Single faucet hole on right
- ☐ 0356.066 For exposed bracket support
  - Single faucet hole on right

#### **Nominal Dimensions:**

521 x 464mm

(20-1/2" x 18-1/4")

#### **Bowl sizes:**

381mm (15") wide

254mm (10") front to back

165mn Consulting Computer of Engineers Specifications:

• ASME AMERIANSA FLECTRABASIANT for Vitreous

This review by DELEGAS Up and Engineers Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that DEI Consulting Engineers Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the contractor submitting same, and such review shall not relieve the contractor of his responsibility for errors or omissions in the shop drawings or his responsibility for meeting all requirements of the construction and contract docu



IXI Reviewed As Noted Revise and Resubmit



0356.028



0356.041

SEE FOLLOWING PAGES FOR ROUGHING-IN DIMENSIONS

To	Be	S	ne	cifi	ed	•
10		J	ρc	Val I	Cu	

- ☐ Color: White
- ☐ Faucet\*:
- □ Faucet Finish:
- Supplies:
- ☐ 1-1/4" Trap:
- Nipple:
- Bracket Support (by others):
- ☐ Concealed Arms Support (by others):

<sup>\*</sup> See faucet section for additional models available



M37

MEETS THE AMERICANS WITH DISABILITIES ACT GUIDE-LINES AND ANSI A117.1 ACCESSIBLE AND USABLE **BUILDINGS AND FACILITIES - CHECK LOCAL CODES.** 

Top of front rim mounted 864mm (34") from finished floor.

© 2016 AS America Inc.

PROVIDE SUBMITTAL FOR FLOOR

MOUNTED WALL CARRIER

spec\_0355-0356 Lucerne WallHung Lavs Rev. A 8/16



## PROVIDE SUBMITTAL FOR FLOOR MOUNTED WALL CARRIER

## LUCERNE™ WALL-HUNG LAVATORY

**BARRIER FREE** 0356.028 8" CTRS FOR EXPOSED BRACKET SUPPORT 0355.027 4" CTRS FOR EXPOSED BRACKET SUPPORT 8" CTRS FOR WALL HANGER 0356.015 0355.012 4" CTRS FOR WALL HANGER OR OR CONCEALED ARMS **CONCEALED ARMS 0356.915** LESS OVERFLOW 0355.912 LESS OVERFLOW 86mm (3-3/8") 86mm 102mm 102mr 3-3/8" FINISHED ZFINISHED (4") NISHED Ф  $\oplus \oplus \oplus$ 203mr (8") 4 1 20 WALL 152mm 152n (6") (6"  $\bigoplus$ 102mm (4") 152 mm 203mr 152n (6") 4 (5/16") (5/16") (6) 25mm (6) 25mm (1") DIA ACCESS (1") DIA. ACCESS HOLES FOR CONC. HOLES FOR (1/2")521mm (20-1/2") CONC. ARMS 521mm (20-1/2") ARMS - 267mm (10-1/2") 267mm 54mm (2-1/8") DIA. HOLES FOR CONCEALED ARMS (10-1/2") (4-1/2" (4-1/2" 54mm (2-1/8") DIA HOLES FOR 102mm 4411111 /4"\ (1-3/4") CONCEALED ARMS √(1") Ė Ð (8-1/8") 10mm (3/8") DIA, ANCHOR (11-1/4") SCREW HOLES (13-7/8") S-9 HANGER S-9 HANGER 27mm X 14mm (1-1/16" x 5/16") SLOTS 27mm x 14mm (1-1/16 x 5/16") SLOTS (34) SUPPLIES AS REQUIRED SUPPLIES AS REQUIRED 787mm (31") 1-1/4" O.D. WASTE 1-1/4" O.D. WASTE 1-1/4" O.D. WASTE OUTLET FOR DRAIN PLUG 1-1/4" O.D. WASTE FINISHED FINISHED OUTLET FOR OUTLET FOR POP-UP DRAIN 6 DRAIN PLUG POP-UP DRAIN . 18-1/4"\_ (464mm) FINISHED \_ 18-1/4"\_ (464mm) **FINISHED** WALL WALL 8" MIN 8" MIN (203mm) 34" (203mm) (864mm) (864mm) 27" MIN. (686mm) 27" MIN (686mm) 6" MAX 6" MAX (152mm) (152mm) 9" MIN 9" MIN BARRIER FREE BARRIER FREE (229mm) (229mm) CLEARANCE \_\_ 11" \_\_ (279mm) (279mm) Consulting MECHANICALED AND SUPPORT AS REQUIRED TO BE FURNISHED BY OTHERS. ascertaining conformance MPORTANG all Dissigns pot fixitiones are shothina and may vary within the range of tolerances established not mean that DEI Consulting ANSh Standard 202 902 dentities are subject to change or cancellation. No responsibility in the shop drawings, respisasion of the shop drawings, respisasion of the shop drawings, respisasion of the shop drawings are properly the shop drawings and the shop drawings are properly to the shop drawings submitting same, and such review shall not relieve the contractor of his responsibility for errors or possibility for errors or possibility for errors or possibility for meeting all requirements of the construction and confract documents.

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Reviewed As Reviewed As Resubmit

### **591TF Series**

QUOTED AS PER MODEL # SPECIFIED, IF HARDWIRED FAUCET IS REQUIRED, PLEASE ADVISE BEFORE ORDERING



### **COMMERCIAL**

### **Electronic Faucet with Surface Mount Control**

**SPECIFICATION:** (Example - 591TF0220)

- Supplied as complete product
- H<sub>2</sub>Optics® Technology no external adjustments required
- Chrome-plated CAST 4" (102 mm) spout with integral sensor
- Metal hold-down package
- Hardwire Operated (24 VAC) infrared electronic handwash system
- Laminar outlet 1.5 gpm (5.7 L/min)
- Adjustable sensing range and timeout
- Surface mount housing
- Mixing valve required (order separately)
- Serviceable filter screen upstream of the valve

#### **AVAILABLE CONFIGURATIONS:**

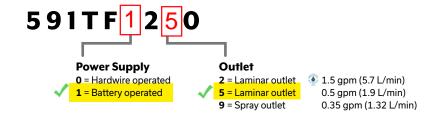
- Battery Operated (4 "C" cell) supplied as complete
- Hardwire Operated (24 VAC) supplied as complete
- Outlets
  - Laminar outlet 1.5 gpm (5.7 L/min)
  - Laminar outlet 0.5 gpm (1.9 L/min)
  - Spray outlet 0.35 gpm (1.32 L/min)



#### **MODEL NUMBER EXAMPLE:**

Configurations vary, see below for availability.

#### PROVIDE HARDWIRED FAUCET



		Power Supply		
		0 =	Hardwire Operated	1 = Battery Operated
	Available Models	Deckmount Hi-Rise Spout		Deckmount Hi-Rise Spout
	Laminar outlet 1.5 gpm (5.7 L/min)	591TF0220		591TF1220
Outlet	5 Laminar outlet 0.5 gpm (1.9 L/min)	591TF0250		591TF1250 🗸
	9 Spray outlet 0.35 gpm (1.32 L/min)	591TF0290		591TF1290  Consulting Engineers   Lamber 1
				MECHANICAL   ELECTRICAL   AQUATIC  This review by DEI Consulting Engineers Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that DEI Consulting Engineers Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the contractor submitting same, and such review shall not relieve the contractor of his
Eng	gineer/Architect Approve	al		responsibility for errors or omissions in the shop drawings or his responsibility for meeting all requirements of the construction and contract documents.
Мо	del Specified:			Reviewed Reviewed As Noted
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Мо	del Specified:		Date:	submitting same, and such review shall not relieve the contractor of his responsibility for errors or omissions in the shop drawings or his responsibility for meeting all requirements of the construction and contract documents.  Reviewed Reviewed As Noted

Watersense® is a registered trademark of the U.S. Environmental Protection Agency

Flow Rates are at 60 PSI.

NOTICE Use all pages as product submittal sheets.



## **591TF Series**

## **Electronic Faucet with Surface Mount Control**



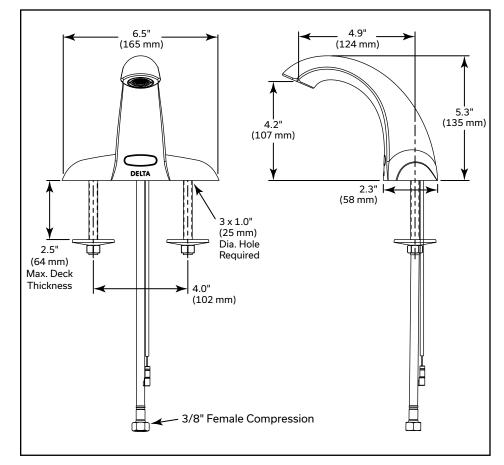
#### COMMERCIAL

#### **APPROVALS:**

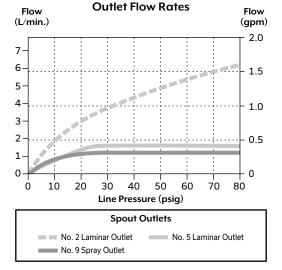
- Complies to ASME A112.18.1/CSA B125.1
- Indicates compliance to ICC / ANSI A117.1
- Outlet options 2 is EPA WaterSense® listed
- Verified compliant with 0.25% weighted average Pb content regulations

## AVAILABLE OPTIONS FOR FIELD CONVERSION (Sold Separately)

- O63268A Battery backup assembly for surface mount box (Batteries included) See DSP-BBBox for detailed specification.
- 063266A Plug-in power supply
- ☐ 061406A Plug-In with Battery Backup
- O60704A 120 to 24 VAC Class 2 20 VA (Up to 5 Electronic Valves)
- ☐ 060771A 120 to 24 VAC Class 2 40 VA (Up to 10 Electronic Valves)
- ☐ 061256A 36" Sensor Cable Extension
- ☐ 063272A Ganging cable
- ☐ 062032A Polymer Braided Hose
- O60651A 3 Position Switch See DSP-ELACC for detailed specification.



#### PROVIDE HARDWIRED FAUCET



DET Consulting Engineers
MECHANICAL ELECTRICAL AQUATIC
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Reviewed Reviewed As Noted
☐ Not Reviewed ☐ Revise and Resubmit

NOTICE Measurements may vary ± 0.25" (6mm)



### **591TF Series**

## **Electronic Faucet with Surface Mount Control**



## **COMMERCIAL**

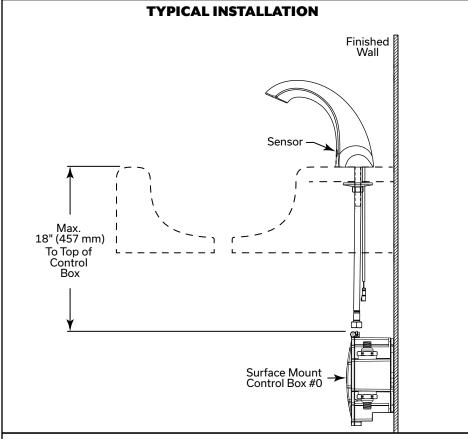
#### **OPERATION:**

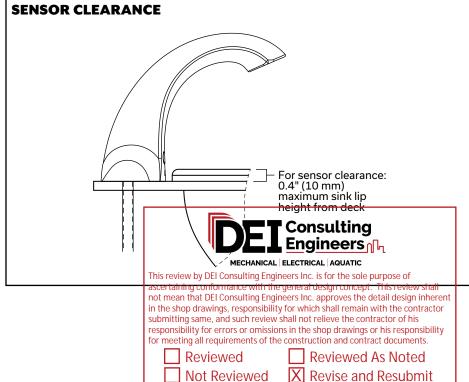
- Hands free (touchless) operation.
- Water flows when sensor is activated.
- Water flow stops upon de-activiation of sensor.
- Adjustable auto shut-off feature. Factory set to 45 seconds. Will reset once obstruction is removed.
- Adjustable sensing distance 3" to 15" (76 to 381mm) factory set to 9" ±3.0" (229 mm ± 76 mm)
- Low battery audible beep (for battery models only) will activate after faucet shuts off when approximately 1500 cycles remain.
- Metering mode with selectable flow times of 7 seconds to 4 minutes, factory set off.
- Periodic Rinse feature, time adjustable in 6 hour increments up to 2 days. Selectable rinsing lengths from 10 to 180 seconds. Factory set off.

#### NOTICE

- #1 For optimum performance of this product, we recommend a system pressure between 20 and 80 Psi (138 and 552 kPa) static. This product will operate up to a maximum of 125 Psi (862 kPa) static per ANSI and CSA requirements. However, we do not recommend pressures above 80 Psi (552 kPa). Thermal expansion or leaking pressure reducing valves may require use of expansion tanks or relief valves to ensure your system never exceeds its maximum intended pressure setting.
- #2 Designed for routine 171°F (77°C) disinfection cycles up to 30 minutes.

#### PROVIDE HARDWIRED FAUCET







PROVIDE HARDWIRED FAUCET

## **591TF Series**

## **Electronic Faucet with Surface Mount Control**

# **DELTA**.

### **COMMERCIAL**

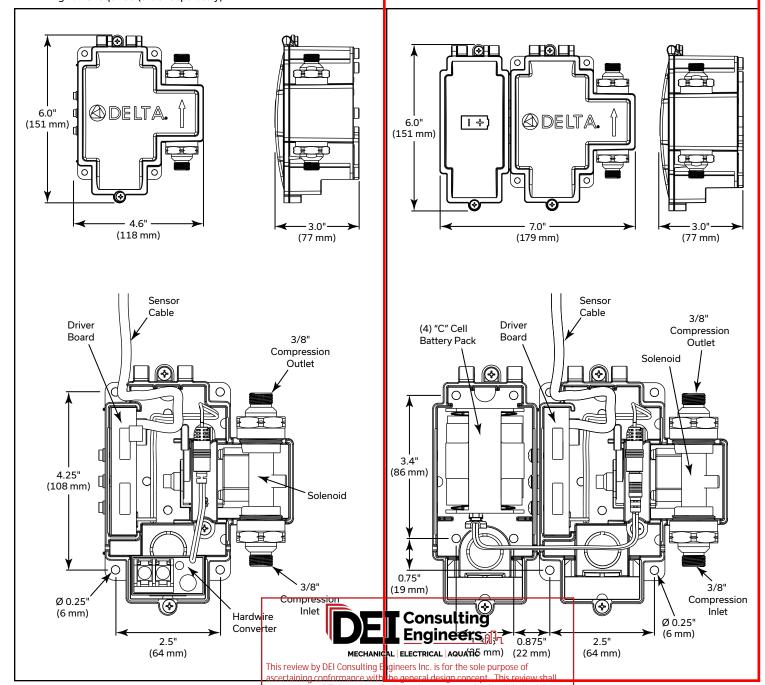
#### SURFACE MOUNT CONTROL CONFIGURATIONS

#### **Hardwire Operated**

- Supplied as complete product
- $\mathbf{H_2Optics}^{\circ}$  Technology no external adjustments required
- Hardwire Operated (24 VAC) infrared electronic handwash system
- Watertight Connector
- Hardwire Converter 24 VAC to 6.4 VDC.
- Surface mount housing
- Serviceable filter screen upstream of the valve
- Mixing valve required (order separately)

#### **Battery Operated**

- Supplied as complete product
- H2Optics® Technology no external adjustments required
- Battery Operated (4 "C" cell) infrared electronic handwash system
- Watertight Connector
- Surface mount housing
- Serviceable filter screen upstream of the valve
- Mixing valve required (order separately)



in the shop drawings, responsibility for which shall remain with the contractor Watersense® is a registered trademark of the U.S. Environmental Rostorting Agon Cand such review shall not relieve the contractor of his responsibility for errors or omissions in the shop drawings or his responsi NOTICE Use all pages as product submittal sheets.

DSP-591TFCBO, Rev A

Flow Rates are at 60 PSI.

The See current full-line price back or lewed As Noted Not Reviewed

models, both without notice or obligation. Dimensions are for reference www.specselect.com for finish options and product availability.

Revise and Resubmit

Delta Faucet reserves the right (1) to make changes in specifications and time telling 
## **Product Specification**

Job Name	Contractor
Job Location	Approval
Engineer	Contractor's P.O. No.
Approval	Representative

## **LEAD FREE**\*

## HYDROGUARD® Series LFLM495

## Thermostatic Mixing Valves for Lavatory Installations

#### **Features**

- Temperature control to ASSE 1069, 1070 and 1017 down to 0.5 gpm
- · Advanced thermal actuator improves performance at low flow
- Lead Free\* cast copper silicon alloy body construction for durability and to comply with Lead Free\* requirements
- Adjustable temperature selection with lock down
- Union connections for easy maintenance
- Integral checks and screen prevents cross-flow and contamination
- Available in ½", ¾", 1" (15, 20, 25 mm) with NPT, Sweat, PEX, Quick-Connect, CPVC union connections and w/press

#### **Specifications**

Temperature Adjustment: 80°- 120°F (27°C to 49°C)
Approach Temperature: 5°F (3°C) above set point
Max. Operating Pressure: 125 psi (861 kPa)
Max. Hot Water Temperature: 200°F (93°C)

Max. Pressure Differential

Not Reviewed

between

Hot & Cold Water Supplies: 25%

Minimum Flow: 0.5 gpm (1.90 lpm) when tested in accor-

dance with ASSE 1017-2003

Check Valves: Integral

Construction:Lead Free\* Cast copper silicon alloy bodyListing:ASSE 1069, ASSE 1070, ASSE 1017, IAPMO

cUPC, and NSF372

Revise and Resubmit

Viega Pro-Press™ connections are optional factory installed fitting on each end of the approved/certified assembly

	Capar	illy	_				]	
			Colf	sultin	Ss The V	/alve		
	(C <sub>v</sub> ) 1 per	5 00	<b>L¹<u>Eü</u>g</b>	ineers	isiربايا 🗲	30 psi	45 psi	60 psi
	(7 kPa)		(	ALI JASONIATIO	( )	(207 kPa)	(310 kPa)	(414 kPa)
ascertaini	ng conform	insulting Eng a <b>:4</b> c <b>0 gợth</b> th	, ne5a <b>⊉maana</b> lo	esian apmce	ve <b>matel 10.8</b> tq	ie9/8handm	12.0 gpm	13.9 gpm
not mean in the sho	that DEI Co p drawings	ทร <b>ูปก่ายก</b> ก responsibil	(22909pm) ity for which	a <b>(26.0 lpm)</b> n shall rema	e <b>36 tail</b> pfins in with the o	937.0 (BM) <sup>t</sup> contractor	45.0 lpm)	(53.0 lpm)
submitting responsibi for meetir	g same, and	d such reviev <b>Heer scrift</b> a <b>contains</b> fle	v shall not r <b>Ces ör<sup>t</sup>tr</b> iis Ses <u>Pha</u> th C	elieve the c	ontractor of Beontacte Lead by W	i his Mobili libns Meight.	umable	











Advanced Thermal Activation

UNION CONNECTIONS		
Female NPT	1/2" (15)	LFLM495-1
_	3/4" (20)	LFLM496-1
	1" (25)	LFLM497-1
Sweat	1/2" (15)	LFLM495-2
	3/4" (20)	LFLM496-2
	1" (25)	LFLM497-2
CPVC	1/2" (15)	LFLM495-3
	3/4" (20)	LFLM496-3
	1" (25)	LFLM497-3
PEX	1/2" (15)	LFLM495-4
	3/4" (20)	LFLM496-4
	1" (25)	LFLM497-4
Quick-Connect	1/2" (15)	LFLM495-5
	3/4" (20)	LFLM496-5
	1" (25)	LFLM497-5
w/Press	1/2" (15)	LFLM495-1 w/press
	3/4" (20)	LFLM496-1 w/press
	1" (25)	LFLM497-1 w/press

#### **A** WARNING

When used in an ASSE 1017 application at the hot water source, the Powers Thermostatic Mixing Valve Series LFLM495 cannot be used by itself to control final temperature at fixtures where ASSE Standard 1016 or ASSE Standard 1070 listed devices are required. Such use may result in severe bodily injury (i.e. scalding or chilling) and/or death. ASSE Standard 1016, ASSE 1069 or ASSE Standard 1070 listed devices, such as Powers Series LFe480 or LFLM495, should be used at point-of-use to prevent possible injury. Consult all product manuals, and instruction guides before installing any referenced product.

Recirculation systems should recirculate water at temperatures over 140°F to reduce the risk of bacterial growth in the piping. This valve should not be used at the hot water source in recirculation systems.

#### NOTICE

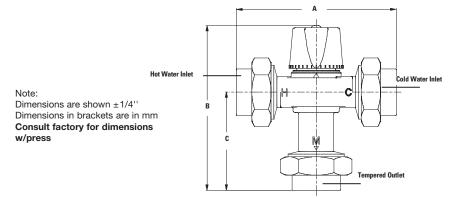
The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation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



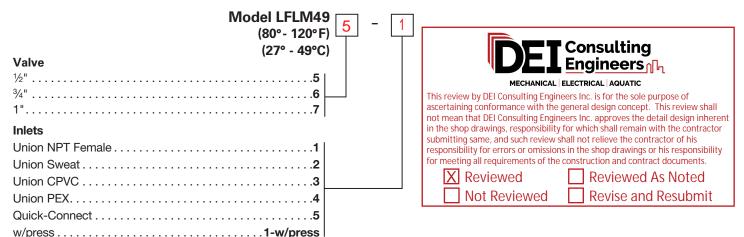
#### **Dimensions**

MODEL	LFLM495-1	LFLM496-1	LFLM497-1	LFLM495-2	LFLM496-2	LFLM497-2	LFLM495-3	LFLM496-3	LFLM497-3	LFLM495-4	LFLM496-4	LFLM497-4
CONNECTIONS	1/2" NPT	3/4" NPT	1" NPT	1/2" SWEAT	3/4" SWEAT	1" SWEAT	1/2" CPVC	3/4" CPVC	1" CPVC	1/2" PEX	3/4" PEX	1" PEX
	FEMALE	FEMALE	FEMALE	I/Z SWEAT	3/4 SWEAT	I SWEAI	1/2 UF VU	3/4 UFVU	I OF VO	1/2 FEA	3/4 FEA	I FEA
"A"	4-7/8	4-7/8	5-5/16	4-13/16	5-5/16	5-13/16	4-3/4	5-1/4	5-11/16	5-1/4	5-1/2	5-7/8
, A	(124mm)	(124mm)	(135mm)	(123mm)	(135mm)	(148mm)	(121mm)	(133mm)	(144mm)	(133mm)	(140mm)	(149mm)
"В"	5-7/16	5-7/16	5-5/8	5-3/8	5-5/8	5-7/8	5-5/16	5-9/16	5-13/16	5-9/16	5-11/16	5-7/8
В	(137mm)	(137mm)	(143mm)	(137mm)	(143mm)	(149mm)	(136mm)	(142mm)	(147mm)	(142mm)	(145mm)	(150mm)
"C"	3-3/16	3-3/16	3-3/8	3-1/8	3-3/8	3-5/8	3-1/16	3-5/16	3-9/16	3-5/16	3-7/16	3-5/8
L.	(80mm)	(80mm)	(86mm)	(80mm)	(86mm)	(92mm)	(79mm)	(85mm)	(90mm)	(85mm)	(88mm)	(93mm)

MODEL	LFLM495-5	LFLM496-5	LFLM497-5	
CONNECTIONS	1/2"	3/4"	1"	
	QUICK- Connect	QUICK- Connect	QUICK- Connect	
"Δ"	6-5/8	6-15/16	7-1/8	
A	(168mm)	(177mm)	(181mm)	
"R"	6-1/4	6-7/16	6-1/2	
В	(159mm)	(163mm)	(165mm)	
"C"	4	4-3/16	4-1/4	
L C	(102mm)	(106mm)	(108mm)	



### **Ordering Information**



#### **Typical Specification**

Thermostatic tempering valve shall be constructed using Lead Free\* cast copper silicon alloy material which shall comply with state codes and standards, where applicable requiring reduced lead content. The valve shall feature advanced paraffin-based actuation technology and union connections for ease of maintenance. All internal components shall be corrosion-resistant. Valve shall feature integral checks to prevent crossflow and inlet screens to filter out debris. The valve shall be ASSE 1069, ASSE 1070, ASSE 1017 and IAPMO cUPC listed. Capacity of the valve shall be 12.0 gpm (45.0 lpm) at 45psi (310 kPa) differential. Valve shall perform to a minimum flow of 0.5 gpm (2 lpm) to ASSE 1070. Control temperature shall be adjustable between 80°F - 120°F (27 - 49°C). The

valve shall feature a vandal-resistant lockable handle to prevent tampering. The valve shall be a Powers' HydroGuard® Model LFLM495 (1/2", 15mm), LFLM496 (3/4", 20mm), LFLM497 (1", 25mm). Any alternate must have a written approval prior to bidding.



A WATTS Brand

USA: Tel: (800) 669-5430 • Fax: (847) 229-0526 • PowersControls.com
Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • PowersControls.ca



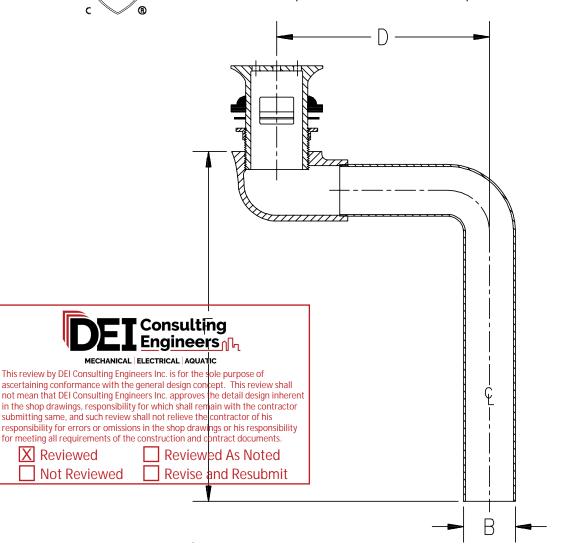
## OFFSET LAVATORY STRAINERS ADA COMPLIANT

Z8746-PC

$T \wedge C$	
IA(¬	
1710	



Engineering Specification: Zurn Z8746-PC - Chrome plated cast brass open grid drain strainer, and chrome plated cast brass elbow. Furnished with 1-1/4[32] 17 gauge, chrome plated tubular brass offset tailpiece for sink depth to 2-1/2[57].



Note: All dimensions are for reference only. Do not use for pre-plumbing

	PRODUCT	В	DIMEN	DIMENSIONS		WEIGHT
	NUMBER	OUTLET	D	F	CARTON	CARTON
1	Z8746-PC	1-1/4[32]	5-1/8[130]	8-3/4[222]	24	40

#### **OPTIONAL ACCESSORIES**

X Reviewed

Not Reviewed

**Suffix** Description \_\_-NOF No Overflow

> ZURN INDUSTRIES, LLC ♦ COMMERCIAL BRASS OPERATION ♦ 2640 SOUTH WORK STREET ♦ FALCONER NY 14733 Phone: 1-800-997-3876 ♦ Fax: 1-919-775-3541 ♦ www.zurn.com

In Canada: ZURN INDUSTRIES LIMITED ♦ 3544 Nashua Drive ♦ Mississauga, Ontario L4V1L2 ♦ Phone: 905/405-8272 Fax: 905/405-1292

Rev. E



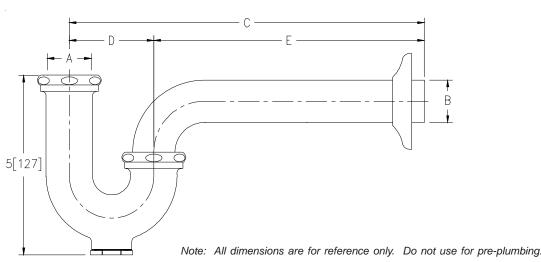
## SEMI-CAST P-TRAPS WITH WALL BEND

Z8700-PC)TO Z8708-PC

П	- A	
- 1	$\boldsymbol{\omega}$	( ¬
- 1	/ \	



**Engineering Specification:** Zurn Z8700-PC to Z8708-PC. – Chrome-plated cast brass (copper alloy) body P-trap with cleanout, tubular brass wall bend as specified, die-cast nuts, and shallow escutcheon with compression inlet.



		1		_				
PRODUCT	Α	В			IMENSION		MASTER	
NUMBER	INLET in[mm]	OUTLET in[mm]	GAUGE	C in[mm]	D in[mm]	E in[mm]	CARTON	CARTON [lbs]
Z8700-PC	1 1/4[32]	1 1/4[32]	17	10[254]	2 1/2[64]	7 1/2[191]	12	24
Z8700-8-PC	1 1/4[32]	1 1/4[32]	17	11[279]	2 1/2[64]	8 1/2[216]	12	24
Z8700-15-PC	1 1/4[32]	1 1/4[32]	17	15[381]	2 1/2[64]	12 1/2[318]	18	40
Z8701-PC	1 1/4[32]	1 1/2[38]	17	10 1/2[267]	3[76]	7 1/2[191]	12	24
Z8701-9-PC	1 1/4[32]	1 1/2[38]	17	12[305]	3[76]	9[229]	12	24
Z8701-15-PC	1 1/4[32]	1 1/2[38]	17	15[381]	3[76]	12[305]	18	42
Z8702-PC*	1 1/2[38]	1 1/2[38]	17	10 1/2[267]	3[76]	7 1/2[191]	12	24
Z8702-9-PC*	1 1/2[38]	1 1/2[38]	17	12[305]	3[76]	9[229]	12	24
Z8702-15-PC*	1 1/2[38]	1 1/2[38]	17	15[381]	3[76]	12[305]	18	42
Z8703B-PC**	1 1/2[38]	2[51]	17	12 1/2[318]	3 1/2[89]	9[229]	6	18
Z8704B-PC**	2[51]	2[51]	17	12 1/2[318]	3 1/2[89]	9[229]	6	18
Z8706-PC	1 1/4[32]	1 1/4[32]	20	10[254]	2 1/2[64]	7 1/2[191]	12	24
Z8707-PC	1 1/4[32]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24
Z8708-PC*	1 1/2[38]	1 1/2[38]	20	10 1/2[267]	3[76]	7 1/2[191]	12	24

#### **OPTIONAL ACCESSORIES**

Suffix		Description	<b></b>
	-B	Brass Nuts	<b>DET</b> Consulting Engineers
	-BX	Box Escutcheon	<b>Կ</b> ــــــــــ <u>Engineers</u> րե
	-CE	Cast Brass Escutcheon with Setscrew	MECHANICAL   ELECTRICAL   AQUATIC
	-D	Deep Escutcheon (Note = not available for Z8703B-F	This review shall accept a property of the sole purpose of
	-J	Metal to Metal Ground Joint Connection	not mean that DEI Consulting Engineers Inc. approves the detail design inherent
	-WC	Waste Connections - Compression	in the shop drawings, responsibility for which shall remain with the contractor submitting same, and such review shall not relieve the contractor of his
	-15	15[381] C Dim. 1 1/4[32] and 1 1/2[38] Only	responsibility for errors or omissions in the shop drawings or his responsibility
	-18	18[457] C Dim. 1 1/4[32] and 1 1/2[38] Only	for meeting all requirements of the construction and contract documents.
$^{\ast}$ COMES WITH OPTIONAL 1-1/2" x 1-1/4" REDUCTION POLY-WASHER FOR INL $^{\ast\ast}$ SHIPPED WITH BRASS NUTS UNLESS OTHERWISE SPECIFIED			Reviewed Reviewed As Noted  Not Reviewed Revise and Resubmit

ZURN INDUSTRIES, LLC ♦ COMMERCIAL BRASS OPERATION ♦ 2640 SOUTH WORK STREET ♦ FALCONER NY 14733
Phone: 1-800-997-3876 ♦ Fax: 1-919-775-3541 ♦ www.zurn.com

For Residential and Commercial Applications				
Job Name		Engineer / Architect		
Job Location		Wholesaler		
Submittal Date		Contractor		

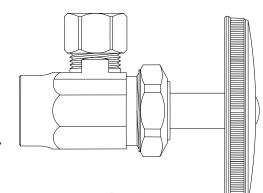
## R1B/R09/R19/R39 Multi-Turn Angle Stop – Sweat x Compression

**Use:** For use in potable water distribution systems. Not intended for recirculating water systems that produce continuous use temperatures above 115° F. For those applications, use BrassCraft KT series ball stops

#### Design Features:

#### PROVIDE SCREWDRIVER STOP

- Machined one-piece brass body provides strength, durability and long-lasting performance
- Oval knurled handle provides a secure grip and smooth on/off operation
- Easy-to-remove handle with screw attachment protects accidental stop operation during rough-ins
- Compliant Multi-Turn Stops available for California and Vermont "low-lead" requirements





#### **Operating Specifications:**

*Temperature:* 40°- 140° F

Pressure: 125 psi maximum

REVISE AND RESUBMIT SHOP DRAWING FROM ONE OF THE ACCEPTABLE MANUFACTURER INDICATED IN SPECIFICATIONS

#### Standard

MATERIAL SPECIFICATIONS		
Valve Body	C36000 brass	
Stem	POM or C36000 brass*	
Bib & Packing Washers	Nitrile or EPDM rubber	
Packing Nut	C36000 brass	
Handle	Metal	
Handle Screw	Zinc-plated steel	
Compression Sleeve	C36000 brass	
Compression Nut	C36000 brass, chrome plated	

MATERIAL SPECIFICATIONS			
Valve Body	Compliant brass		
Stem	POM or Compliant brass*		
Bib & Packing Washers	Nitrile or EPDM rubber		
Packing Nut	Compliant brass		
Handle	Metal		
Handle Screw	Zinc-plated steel		
Compression Sleeve	C36000 brass		
Compression Nut	C36000 brass, chrome plated		

#### Standard Part Listing:

R1B C	3/8" Nom. Sweat x 3/8" OD Compression, chrome p	late
R09 C	1/2" Nom. Sweat x 1/4" OD Compression, chrome p	late
R09 CBT	1/2" Nom. Sweat x 1/4" OD Compression, chrome p	
R09 C1	1/2" Nom. Sweat x 1/4" OD Compression, chrome p	This late
R09 R	1/2" Nom. Sweat x 1/4" OD Compression, rough bra	ssot in th
R09 R1	1/2" Nom. Sweat x 1/4" OD Compression, rough bra	28ipt

)	lated, plain tray, MECHANICAL ELECTRICAL AQUATIC
	This review by DEI Consulting Engineers Inc. is for the sole purpose of ascentaining conformative with the general design concept. This review shall
1	spot mean that DEI Consulting Engineers Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the contractor
)	ssubwithing work raw such review shall not relieve the contractor of his
	responsibility for errors or omissions in the shop drawings or his responsibility at a deceing all requirements of the construction and contract documents.
)	<b>at es</b> ecting all requirements of the construction and contract documents.
	ated, planvirayebulk Reviewed As Noted
•	pate <u>u, pians vicary cu</u> ntik <u> </u>

R19 C 1/2" Nom. Sweat x 3/8" OD Compression, chrome plated eting all requirements.

R19 CBT 1/2" Nom. Sweat x 3/8" OD Compression, chrome plated, platryteayebulk

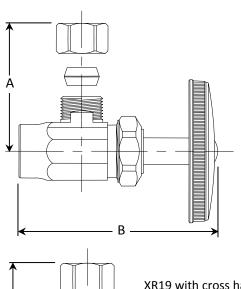
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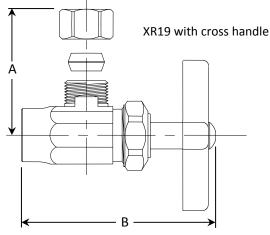


<sup>\*</sup>Where specified

## R1B/R09/R19/R39 Multi-Turn Angle Stop - Sweat x Compression

#### Standard Part Listing (con't): PROVIDE SCREWDRIVER STOP **R19 CD** 1/2" Nom. Sweat x 3/8" OD Compression, chrome plated, carded R19 C1 1/2" Nom. Sweat x 3/8" OD Compression, chrome plated, window tray R19 R 1/2" Nom. Sweat x 3/8" OD Compression, rough brass R19 RBT 1/2" Nom. Sweat x 3/8" OD Compression, rough brass, plain tray, bulk R19 R1 1/2" Nom. Sweat x 3/8" OD Compression, rough brass, window tray R19P C 1/2" Nom. Sweat x 3/8" OD Compression, pre-assembled, chrome plated **R19PR** 1/2" Nom. Sweat x 3/8" OD Compression, pre-assembled, rough brass R39 C 1/2" Nom. Sweat x 1/2" OD Compression, chrome plated R39 C1 1/2" Nom. Sweat x 1/2" OD Compression, chrome plated, window tray 1/2" Nom. Sweat x 1/2" OD Compression, rough brass R39 R XR19 C 1/2" Nom. Sweat x 3/8" OD Compression, cross handle, chrome plated 1/2" Nom. Sweat x 3/8" OD Compression, cross handle, rough brass XR19 R REVISE AND RESUBMIT SHOP DRAWING FROM ONE OF THE **Compliant Part Listing:** 4. ACCEPTABLE MANUFACTURER INDICATED IN SPECIFICATIONS 1/2" Nom. Sweat x 3/8" OD Compression, chrome plated R19X C R19X C1 1/2" Nom. Sweat x 3/8" OD Compression, chrome plated, window tray 1/2" Nom. Sweat x 3/8" OD Compression, rough brass R19X R 1/2" Nom. Sweat x 3/8" OD Compression, rough brass, window tray R19X R1 R39X C1 1/2" Nom. Sweat x 1/2" OD Compression, chrome plated, window tray





PART DIMENSIONS (Inches)				
Model	DIM. A	DIM. B		
R1B	1.02	2.56		
R09	1.02	2.50		
R19	1.02	2.50		
R39	1.15	2.50		
XR19	1.02	2.50		

#### **Listings & Certifications:**

- IAPMO listed to ASME A112.18.1-05 / CSA B125.1-05 (File # 0645)
- CSA listed to ASME A112.18.1-05 / CSA B125.1-05 (File # 204593)
- Compliant product CSA approved to California Health &
   Safety Code 116875 and Marmont Bill \$ 153



This specification and all information contained herein is the confidential and exclusive property of BrassCraft Manufacturing, and shall not be disclosed to others without the written consent of BrassCraft. This specification must be returned to BrassCraft if requested.



Job Name Engineer / Architect	For Residential and Commercial Applications			
		Engineer / Architect	Job Name	
Job Location Wholesaler		Wholesaler	Job Location	
Submittal Date Contractor		Contractor	Submittal Date	

## B1-\*\*A/B2 \*\*A/B3 \*\*A Speedi Plumb® PLUS Braided Faucet **Connector - Compression Inlet**

**Use:** For use in potable water distribution systems in accessible locations only

#### **Design Features:**

- Superior corrosion resistance to harsh chemicals found in common household cleaning and plumbing repair products
- More flexible than stainless steel, the braided polymer-coated fibers bend freely without kinking or crimping
- Tough inner core is reinforced to resist chlorine and chloramine leaching and deterioration
- Nitrile rubber washers provide a large pliable sealing surface and ensures a long lasting water tight connection
- 8-sided pneumatic crimp provides greater dependability for realible nut-to-hose connections
- 100% Compliant to California and Vermont "low-lead" requirements

REVISE AND RESUBMIT SHOP DRAWING FROM **Operating Specifications:** 

ONE OF THE ACCEPTABLE MANUFACTURER Temperature:

INDICATED IN SPECIFICATIONS Pressure: 125 psi maximum

**Tubing Diameter:** 0.300" I.D. (0.550" O.D.)

MATERIAL SPECIFICATIONS		
Inner Hose Reinforced PVC		
Braiding	PVC coated polyester yarn	
Barb	Compliant brass	
Ferrule	Zinc plated 1008 steel	
Nut	C36000 brass	
Washer	Nitrile rubber	
Compression Ring & Nut	C36000 brass	



#### **Part Listing:**

B1-20H F

B1-9A F	3/8" Compression x 1/2" F.I.P. x 9" length
B1-12A F	3/8" Compression x 1/2" F.I.P. x 12" length
54 464 <b>5</b>	0/0// 0 / //0// = 1.5 //0// = 1.5

3/8" Compression x 1/2" F.I.P. x 16" length review by DEI Consulting Engineers Inc. is for the sole purpose of B1-16A F 3/8" Compression x 1/2" F.I.P. x 20" lengthmean that DEI Consulting Engineers Inc. approves the detail design inherent B1-20A F

3/8" Compression x 1/2" F.I.P. x 20" lengthroonnector with 1/2% OD: Compression & this B1-20AU D responsibility for errors or omissions in the shop drawings or his responsibility

1/2" Iron Pipe valve adapters, carded for meeting all requirements of the construction and contract documents.

3/8" Compression x 1/2" F.I.P. plastic nut x 20"Revigthed

Reviewed As Noted

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ertaining conformance with the general design concept. This review shall

# B1-\*\*A/B2-\*\*A/B3-\*\*A Speedi Plumb® PLUS Braided Faucet Connector - Compression Inlet

Part	Listing (con't,	) <i>:</i>
	B1-24A F	3/8" Compression x 1/2" F.I.P. x 24" length
	B1-30A F	3/8" Compression x 1/2" F.I.P. x 30" length
	B1-36A F	3/8" Compression x 1/2" F.I.P. x 36" length
	B1-48A F	3/8" Compression x 1/2" F.I.P. x 48" length
	B1-60A F	3/8" Compression x 1/2" F.I.P. x 60" length
	B2-12A F	7/16" Compression x 1/2" F.I.P. x 12" length
	B2-16A F	7/16" Compression x 1/2" F.I.P. x 16" length
	B2-20A F	7/16" Compression x 1/2" F.I.P. x 20" length
	B3-9A F	1/2" Compression x 1/2" F.I.P. x 9" length
	B3-12A F	1/2" Compression x 1/2" F.I.P. x 12" length
	B3-16A F	1/2" Compression x 1/2" F.I.P. x 16" length
	B3-20A F	1/2" Compression x 1/2" F.I.P. x 20" length
	B3-30A F	1/2" Compression x 1/2" F.I.P. x 30" length
	B3-36A F	1/2" Compression x 1/2" F.I.P. x 36" length
		REVISE AND RESUBMIT SHOP DRAWING FROM ONE OF THE ACCEPTABLE MANUFACTURER INDICATED IN SPECIFICATIONS
	RASINE A112.1	

PART DIMENSIONS (Inches)		
Model	DIM. A	
B1-9A	9.0 / 10.0	
B1-12A	12.0 / 13.0	
B1-16A	16.0 / 17.0	
B1-20A	20.0 / 21.0	
B1-30A	30.0 / 31.0	
B1-36A	36.0 / 37.0	

PART DIMENSIONS (Inches)		
Model	DIM. A	
B1-48A	48.0 / 49.0	
B1-60A	60.0 / 61.0	
B2-12A	12.0 / 13.0	
B2-16A	16.0 / 17.0	
B2-20A	20.0 / 21.0	
B3-9A	9.0 / 10.0	

PART DIMENSIONS (Inches)		
Model	DIM. A	
B3-12A	12.0 / 13.0	
B3-16A	16.0 / 17.0	
B3-20A	20.0 / 21.0	
B3-30A	30.0 / 31.0	
B3-36A	36.0 / 37.0	

#### **Listings & Certifications:**

- IAPMO listed to ASME A112.18.6-2003 (File # 0452)
- CSA listed to ASME A112.18.6-2003 / CSA B125 (File # 20/2)
- CSA approved to California Health & Safety Code 116875/ Vermont Bill S.152 (Project # 2174785)

/	1		
		Consulting Ingineers	
his geyiew by D	MECHANICAL EL DEI Consulting Engineen Informance with the ge	ECTRICAL AQUATIC	purpose of
&mean that D	nformance with the ge DEI Consulting Enginee wings, responsibility fo	rs Inc. approves the	detail design inherent
ubmitting same	e, and such review sha or errors or omissions i	II not relieve the con	tractor of his

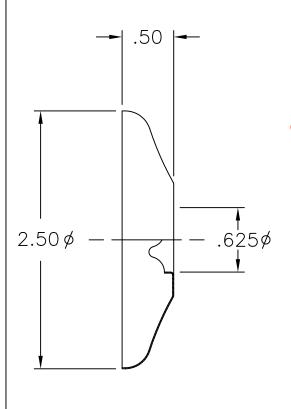
for meeting all requirements of the construction and contract documents.

Reviewed Reviewed As Noted

Not Reviewed X Revise and Resubmit

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SECTION A-A

REVISE AND RESUBMIT SHOP DRAWING FROM ONE OF THE ACCEPTABLE MANUFACTURER INDICATED IN SPECIFICATIONS

ITEM ID	FINISH
649	STAINLESS STEEL
649 A	ANTIQUE BRASS
649 BS	BISCUIT
649 BZ	OIL RUBBED BRONZE
649 NS	SATIN NICKEL
649 P	POLISHED BRASS
649 W	WHITE

<sup>1</sup>Consulting **Engineers** MECHANICAL | ELECTRICAL | AQUATIC This review by DEI Consulting Engineers Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that DEI Consulting Engineers Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the contractor submitting same, and such review shall not relieve the contractor of his responsibility for errors or omissions in the shop drawings or his responsibility for meeting all requirements of the construction and contract documents.

CHANGE

This drawing and all data contained herein is the confidential and exclusive property of BrassCraft Manufacturing, and shall not be disclosed to others without the written consent of BrassCraft. This drawing must be returned to BrassCraft if requested.

) Pro	155	*Craf	
Α	Masco	Company	

NOVI, MICHIGAN

ALL GDT PER ANSI STD Y14.5M CLASSIFICATION OF QUALITY LEVELS SYMBOL CLASS

KPC (KEY PRODUCT CHARACTERISTICS)

STPC (STANDARD PRODUCT CHARACTERISTICS)

PRODUCT MARKINGS

ANGULARITY

DRAWN

CHK'D.

APP'D.

DESCRIPTION 1/2 NOM (5/8 OD) SHALLOW

LET

DATE

PER

BY

B 6/22/07 ROL KAK REVISED & UPDATED

FLANGE (SUBMITTAL) DATE:

+/-1

ITEM DESCRIPTION MATERIAL

Reviewed

Not Reviewed

VOLUME ITEM ID 649 SEE CHART

NOTE: UNLESS OTHERWISE SPECIFIED TWO PLACE DECIMALS +/-.010 THREE PLACE DECIMALS +/-.005

DATE:

DATE:

PERNAK 08/29/2003

Learmont 06/22/2007

SIZE

UNITS **INCH** 

DRAWING NO.

REV. SCALE: (UNLESS NOTED) В **FULL** 

Reviewed As Noted **Revise and Resubmit** 

MPG0139B





#### ADA-compliant undersink protection

# **Submittal Sheet**

**General Description:** 

and keyed type water stops.

LAV GUARD® 2 E-Z Series waste and supply piping covers satisfy ADA compliance requirements. Built-in E-Z Grip internal fasteners and internal, E-Z Tear-To-Fit trimming feature allow for fast installation without tools. Series #100 E-Z kits are designed to fit on all tubular and cast brass P-trap assemblies. Series #400 kits are the "original" LAV GUARD design and fit schedule 40 ABS and PVC P-trap assemblies — regardless of their geometry or rotational offset. Valve cover completely encloses angle valve and supply tube for both handled

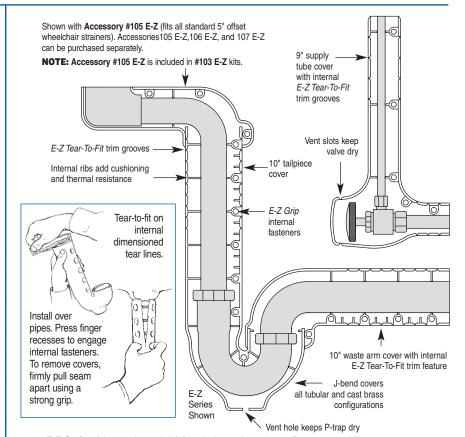
Material	Molded vinyl	
Nominal Wall	1/8" constant	
Durometer	70 - 80 - Shore A	
UV Protection	Will not fade or discolor	
Durability	Virtually indestructible	
Trimming (E-Z Series)	Internal, <i>E-Z Tear-To-Fit</i> trim feature	
Fasteners (E-Z Series)	Internal <i>E-Z Grip</i> fasteners (reusable)	
Color	China white	
Paintability	Apply Latex paint	
Burning Characteristics ASTM D-635	Self extinguished 0 sec (ATB) 0 mm (AEB)	
Bacteria/Fungus Resistance	ASTM G21 and G22/ Result: 0 growth	
Maintenance	Use common detergents	
	<del></del>	

Manufactured under one or more of the following U.S. or Canadian patents. Other patents pending.

5,303,730 5,360,031 5,524,669 5,564,463 5,678,598 5,699,828 5,915,412 5,915,413 5,901,739 5,960,820 2,075,324 2,119,427 2,136,027 2,158,083

XI Reviewed

Not Reviewed



#100 E-Z Series (shown above right) for tubular and cast brass P-trap assemblies. #400W\* Series (original design) for schedule 40 P-trap assemblies.



strainer assembly \*All #400W series items are the "original" Lav Guard® design and ☐ Accessory #105-K Kohler 6" offset

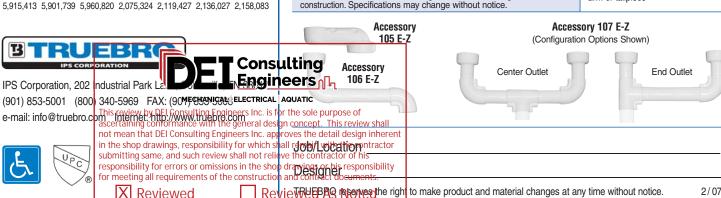
☐ Accessory #106 E-Z One basket strainer cover and offset waste cover (adjustable to 18")

☐ Accessory #107 E-Z Two basket strainer covers and center or end outlet waste cover (adjustable)

☐ Accessory #Ex99 E-Z One 16" extension for water supply

☐ Accessory #Ex100 E-Z One 16" extension for drain waste arm or tailpiece

2/07



Revise and Resubmit