Installation and Maintenance Guide

TLX-4

Express Lavatory System
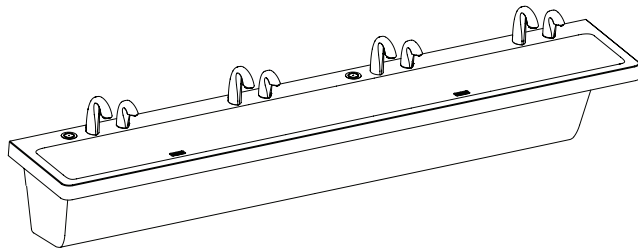
TLX-4 shown with Verge™ Soap & Faucet & Multi-Feed
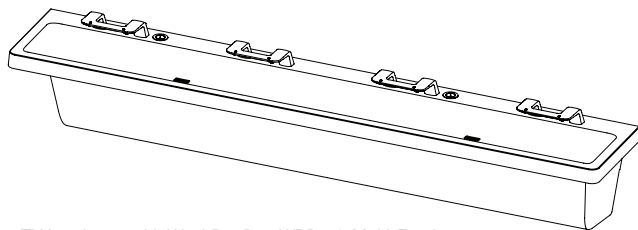
TLX-4 shown with WashBar Duo WBD1 & Multi-Feed

Table of Contents

⚠ **Read the instructions in this manual before beginning installation.**
Save these instructions and refer to them for inspection and maintenance information.

For questions regarding the operation, installation or maintenance of this product, visit bradleycorp.com or call 800.BRADLEY (800.272.3539). Product warranties and parts information may also be found under "Resources" on our website at bradleycorp.com.

P.O. Box 309
Menomonee Falls, WI 53052 USA
800 BRADLEY (800 272 3539)
+1 262 251 6000
bradleycorp.com

Bradley

A WATTS Brand

Safety Information

⚠WARNING

Make sure that all water supply lines have been flushed and then completely turned off before beginning installation. Debris in supply lines can cause valves to malfunction.

Turn OFF electrical power to the electrical outlets, then unplug all electrical units prior to installation. Electrical power MUST remain off until installation is complete.

Installer's hardware must be appropriate for wall construction. Wall anchors must have a minimum pull-out rating of 1,000 pounds.

IMPORTANT

Compliance and conformity to local codes and ordinances is the responsibility of the installer.

Separate parts from packaging and make sure all parts are accounted for before discarding any packaging material. If any parts are missing, do not begin installation until you obtain the missing parts.

For standard height mounting, do not exceed the recommended 33.5" distance from the fixture rim to the finished floor.

Troubleshooting and internal maintenance must be performed by qualified service personnel.

Supplies Required

- (8) ⅜" fasteners and wall anchors (minimum pull-out rating of 1,000 lb) for fastening bowl and bowl wall bracket(s) to wall.
- (7) ¼" fasteners and wall anchors (minimum pull-out rating of 100 lb) for access panel bracket.
- (40) #10 anchors for wall mounted components (quantity will vary depending on options)
- (2) ½" hot/cold or tempered stub-out(s)
- (2) 1½" NPT drain stub-out(s)
- (4) NEMA 5-15R Receptacle, 125V GFCI (Required for A/C systems, optional for battery powered systems)
- Screen filter(s) as needed, if not included with faucet(s)
- Tape measure
- Hammer
- Level
- Socket wrench/sockets
- Adjustable wrench
- Phillips head screwdriver
- Cordless drill
- Drill bits
- Tube cutter
- Pencil

Component Reference List
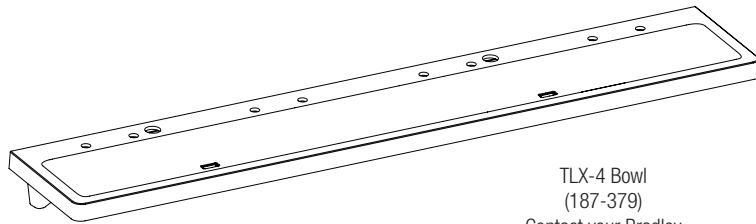
TLX-4 Bowl
(187-379)
Contact your Bradley
Representative for
color options

Prepack
(S45-3008)

Screw

Strainer

Drain Adapter
Prepack
(S45-2480)

O-Ring
(125-111)

Drain
Adapter

Packing
Washer

#10-24 x 1"
Screw
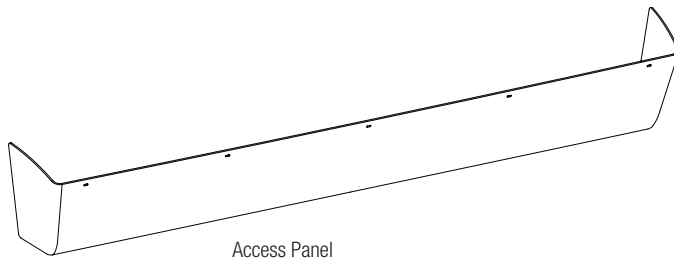
Access Panel
(186-2300)

#10 Access Panel Thumb
Screw
(160-566)
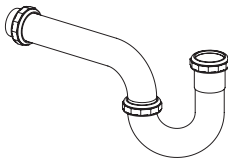
Chrome P-Trap (S29-094)
Plastic P-Trap (269-1697)
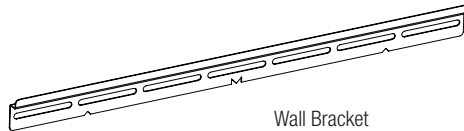
Wall Bracket
(140-1128)
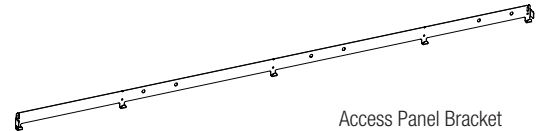
Access Panel Bracket
(140-1270)
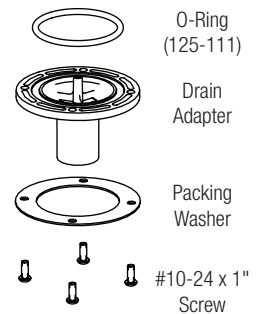
**TMV Supply Connections
(Qty. 2 used for TLX-4 with TMV option)**

TMV Valve
(½" NPTM Outlet)
(S45-2701)

Plastic Hose

Supply Fittings
(Standard)
(S45-2510)
and
(S45-2999)
for Verge Faucets
S53-3100, S53-3300,
S53-3500 & S53-3700

Hose Prepack
(S45-2730)
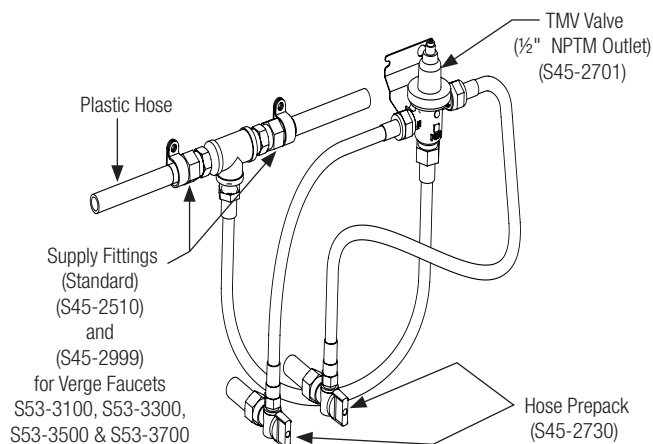
**Tempered Supply Connections
(Qty. 2 used for TLX-4 with Tempered option)**

Supply Fittings
(Standard)
(S45-2511)
and
(S45-3000)
for Verge Faucets
S53-3100, S53-3300,
S53-3500 & S53-3700

Plastic
Hose

Plastic Hose

Stainless
Steel
Hose

Hose Prepack
(S45-2731)

Dimensions (mm)

Top View – TLX-4 (shown with Verge Soap & Faucet)

115-5/16" (2928)

100-1/8" (2544)

71-13/16" (1824)

43-1/2" (1104)

15-1/8" (385)

Multi-Feed Cap
2-9/16" (65)

6" (152)

Soap & Faucet
3-1/8" (79)

5-1/8" (130)

20-5/8"
(524)

4-1/2" (114)

Optional Multi-Feed Fill
Port (2x)

4-1/2" (114)

Front View – TLX-4 (shown with Verge Soap & Faucet)

19-1/8"
(486)

34"
(864)

104-7/8" (2664)

Finished Floor

Dimensions (mm)

Top View – TLX-4 (shown with WBD1)

115-5/16" (2928)

100-1/8" (2544)

71-13/16" (1824)

43-1/2" (1104)

Multi-Feed Cap
2-9/16" (65)

15-1/8" (385)

3-1/8"
(79)

4" (102)

4"
(102)

5-1/8" (130)

20-5/8"
(524)

7-1/2" (190)

Optional Multi-Feed Fill
Port (2x)

7-1/2" (190)

Front View – TLX-4 (shown with WBD1)

19-1/8"
(486)

34"
(864)

104-7/8" (2664)

Finished Floor

Dimensions (mm)

Side View – TLX-4

Standard Height (ADA) – Verge Faucet
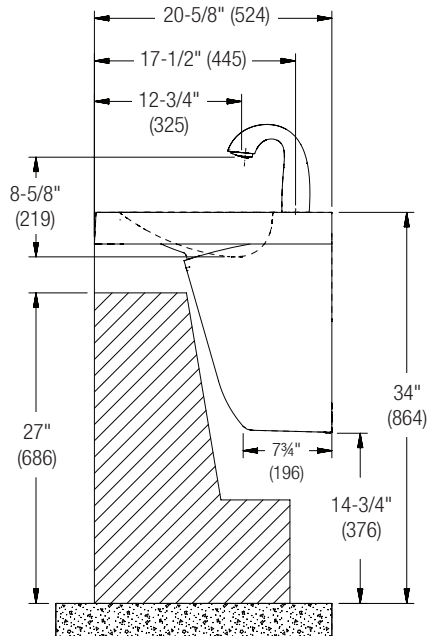
Standard Height (ADA) – WBD1
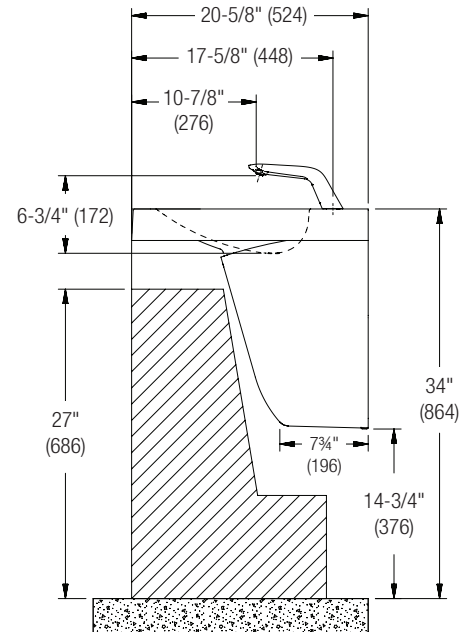
Juvenile Height (ADA) – Verge Faucet
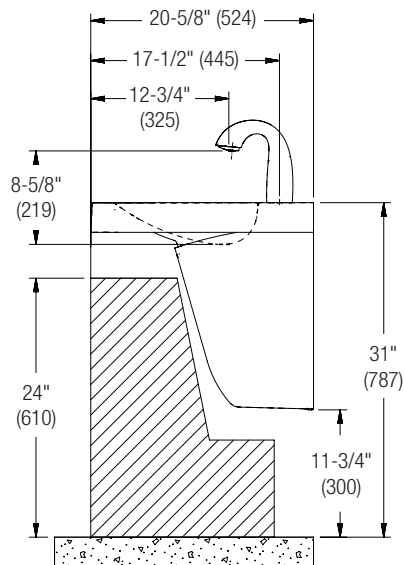
Juvenile Height (ADA) – WBD1

MAX. RIM HEIGHT	VERTICAL HEIGHT ADJUSTMENTS	FIXTURE STYLE	NOTES
34"	No Adjustment	Standard ADA & TAS	At least one basin must meet dimensional requirements and have proper reach, knee, and toe clearance.
31"	*Subtract 3"	Juvenile ADA & TAS	At least one basin must meet dimensional requirements and have proper reach, knee, and toe clearance.
26"	*Subtract 8"	Junior	For use by younger children where ADA guidelines are not a concern.

Dimensions (mm)

Side View – TLX-4

CSA Height – Verge Faucet

20-5/8" (524)
17-1/2" (445)
12-3/4" (325)
8-5/8" (219)
29-7/8" (760)
33-7/8" (860)
7¾" (196)
14-5/8" (372)

CSA Height – WBD1

20-5/8" (524)
17-5/8" (448)
6-3/4" (172)
29-7/8" (760)
33-7/8" (860)
7¾" (196)
14-5/8" (372)

OBC Height – Verge Faucet

20-5/8" (524)
17-1/2" (445)
12-3/4" (325)
8-5/8" (219)
28-7/8" (735)
33-1/8" (840)
13-7/8" (352)

OBC Height – WBD1

20-5/8" (524)
17-5/8" (448)
10-7/8" (278)
6-3/4" (172)
28-7/8" (735)
33-1/8" (840)
13-7/8" (352)
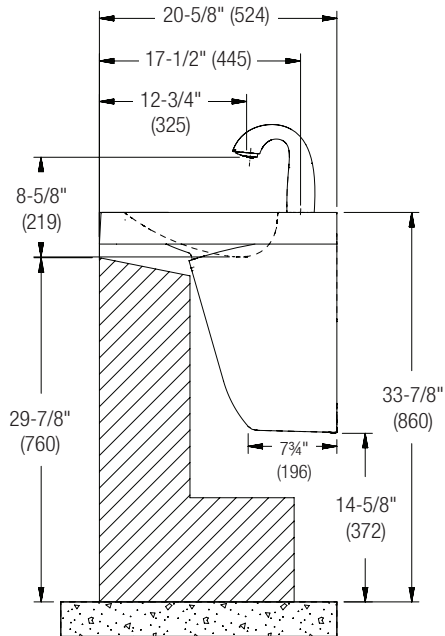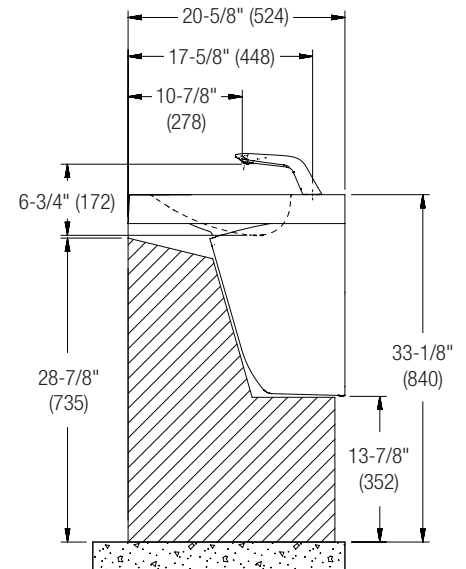
Rough-In Diagram: Plumbing & Electrical (All Models)

✅ *Mounting for Standard ADA and TAS height shown.*

✅ *Electric outlet locations shown below reflect potential locations.*
Refer to the tech data for power supply and outlet information.

(mm)
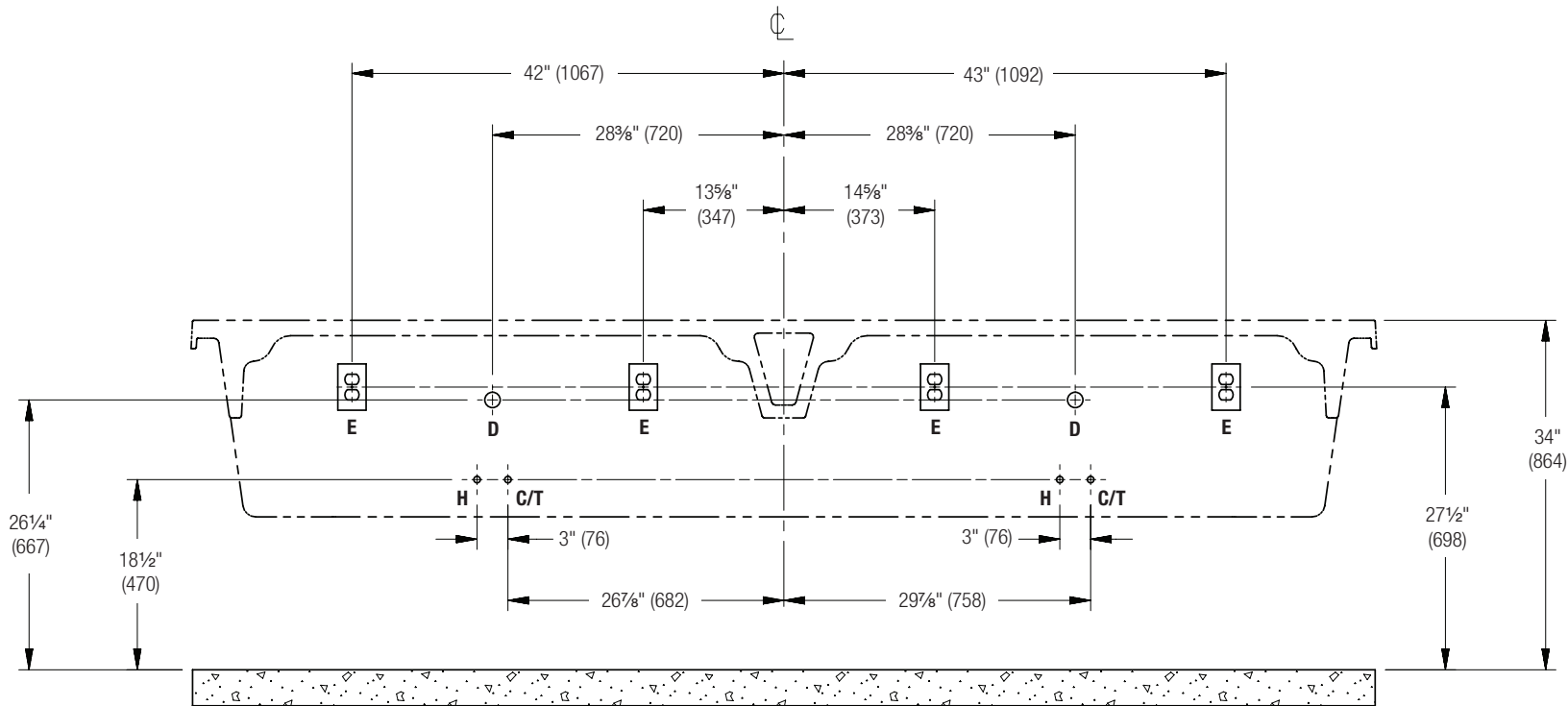
CODE	DESCRIPTION	QTY.
H,C/T	½" Nominal (⅝" O.D. Comp.) Hot/Cold or Tempered supply(s), Stub-out 2" from wall	2
D	1½" NPT Drain, Stub-out 2" from wall	2
E	NEMA 5-15R Receptacle, 125V GFCI (protected electrical outlet not required for battery powered systems)	4

Rough-In Diagram: Structural Backing (All Models)

✔ *Areas hatched require sufficient backing compliant with local building codes.*

(mm)

120" (3048)

60" (1524)

C
(Zone Requiring
Sufficient Backing)

24"
(610)

36"
(914)

Top of Deck
34"
(864)

Finished
Floor
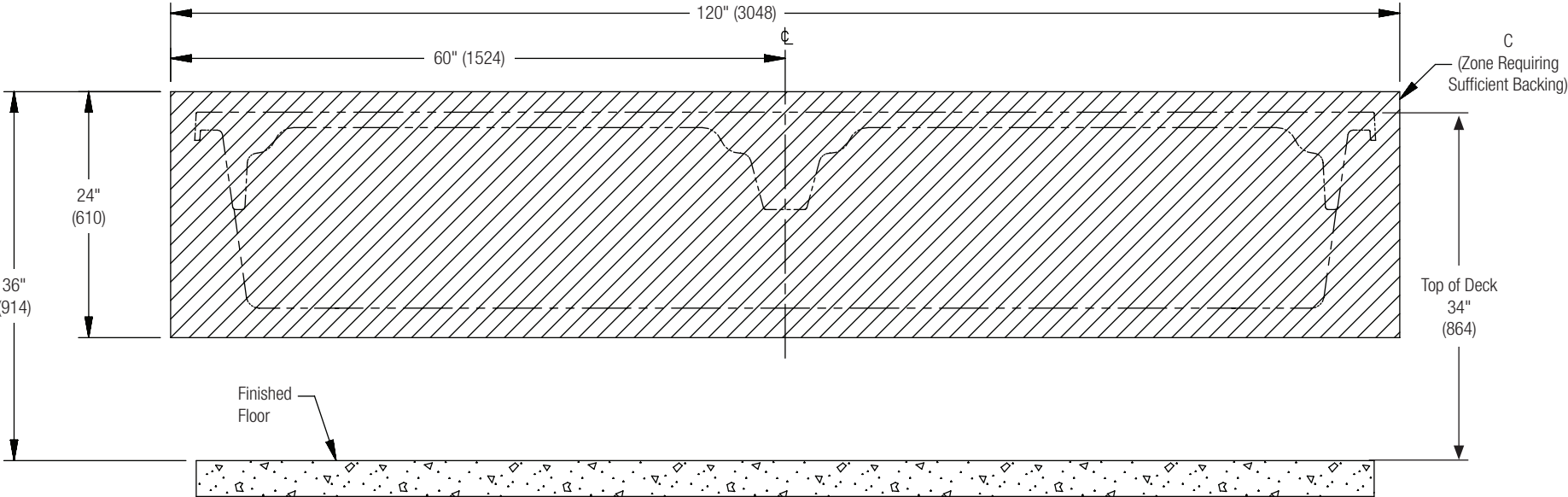
CODE	DESCRIPTION	QTY.
C	Provide structural backing compliant with local building codes.	1

Structural Mounting Diagram: Bowl & Access Panel

(mm)

✔ *Mounting for Standard ADA and TAS height shown.*

Note: These bracket(s) are used to temporarily hold bowl until the bowl mounting screws are installed.

Secure each bracket to the wall using a minimum of (2) 3/8" anchor bolts with large washer. One anchor to each side of the bracket centerline. Anchors must be spaced a min. 16" apart. Level bracket and tighten anchors. When mounting is complete, check to ensure the brackets are level.
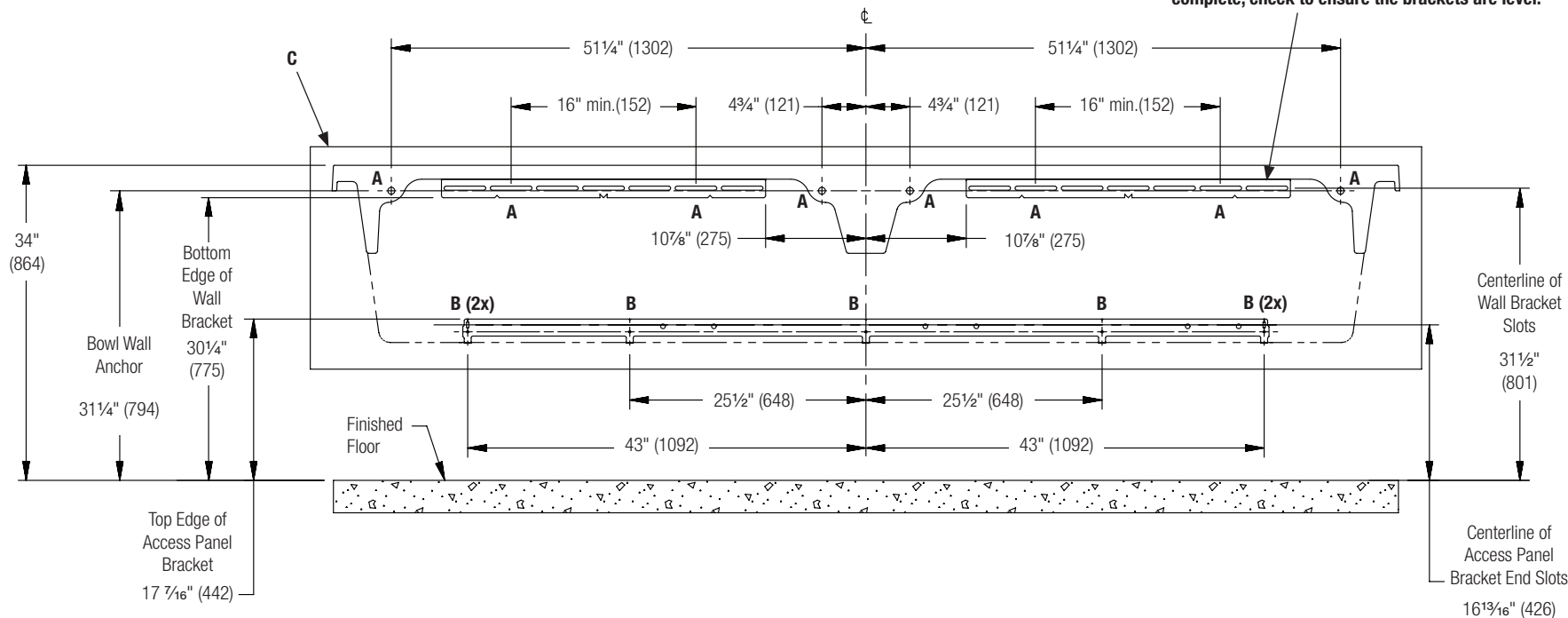
CODE	DESCRIPTION	QTY.
A	Install (8) ⅜" wall anchor with a minimum pull-out force of 1,000 lb per local codes at locations shown.	8
B	Install (7) 1/4" wall anchors to secure the access panel bracket with a minimum pull-out force of 100 lb per local codes at locations shown.	7
C	Provide structural backing compliant with local building codes.	1

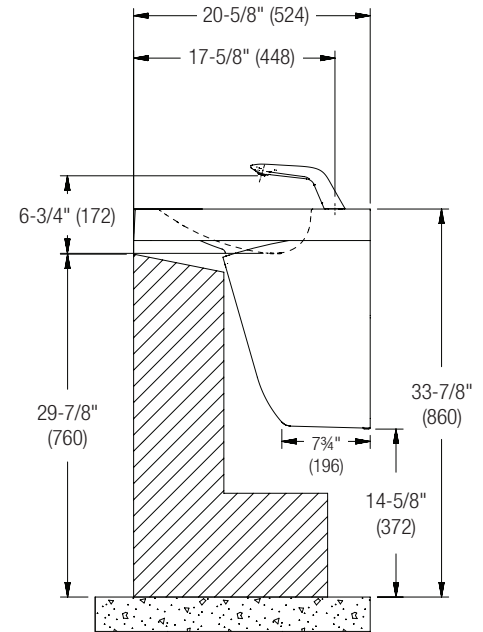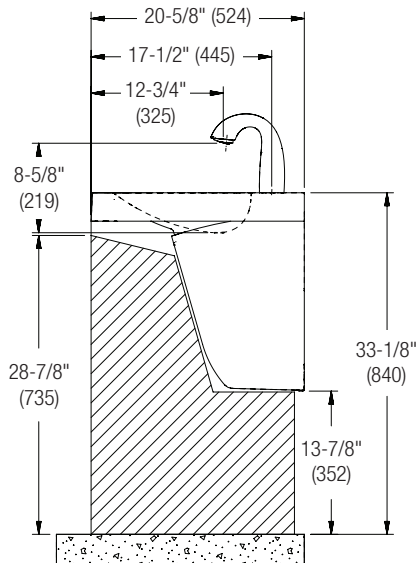| MAX. RIM HEIGHT	VERTICAL HEIGHT ADJUSTMENTS	FIXTURE STYLE	NOTES
34"	No Adjustment	Standard ADA & TAS	At least one basin must meet dimensional requirements and have proper reach, knee, and toe clearance.
31"	*Subtract 3"	Juvenile ADA & TAS	At least one basin must meet dimensional requirements and have proper reach, knee, and toe clearance.
26"	*Subtract 8"	Junior	For use by younger children where ADA guidelines are not a concern.

Installation Diagram: WBD1 (Multi-Feed)

1 of 3: Component Identification

✔ *Refer to page 10 that contains Structural Mounting Diagram Bowl & Access Panel.*
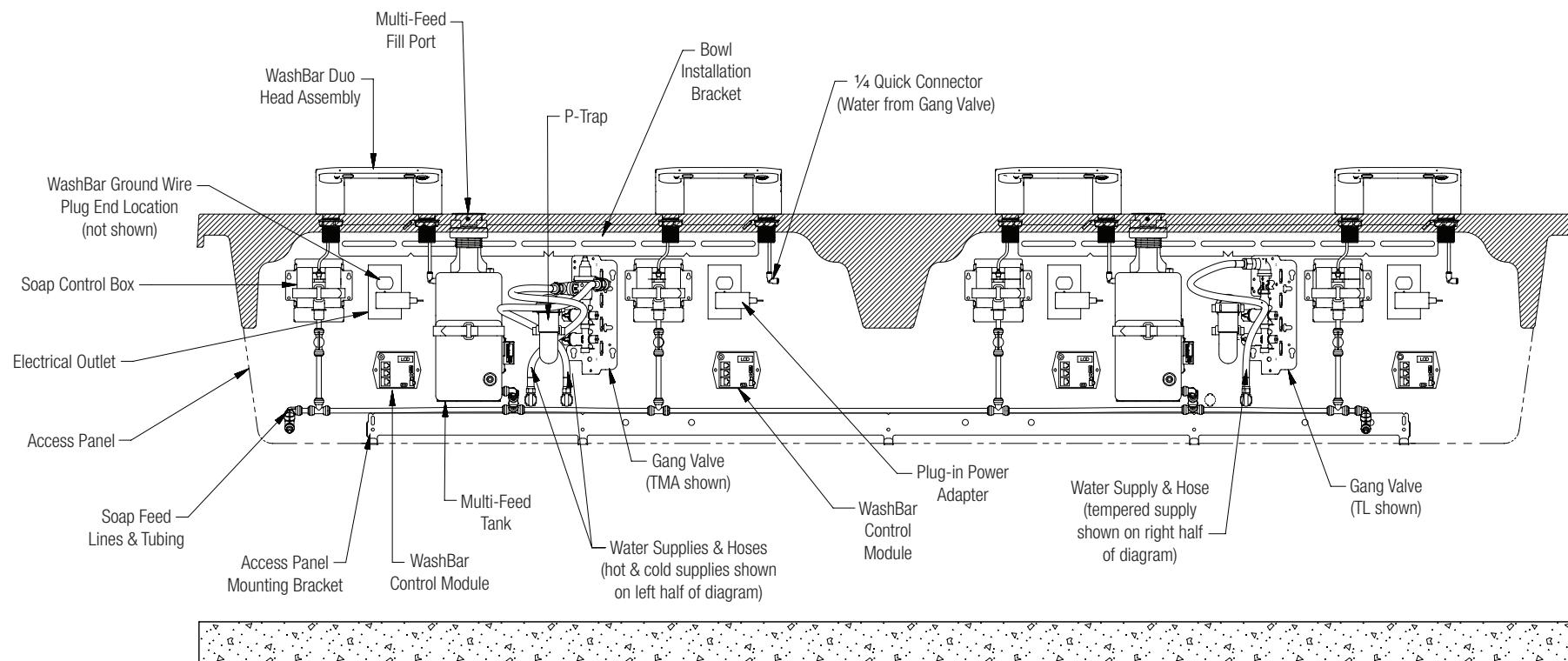
Installation Diagram: WBD1 (Multi-Feed)

2 of 3: WashBar Components
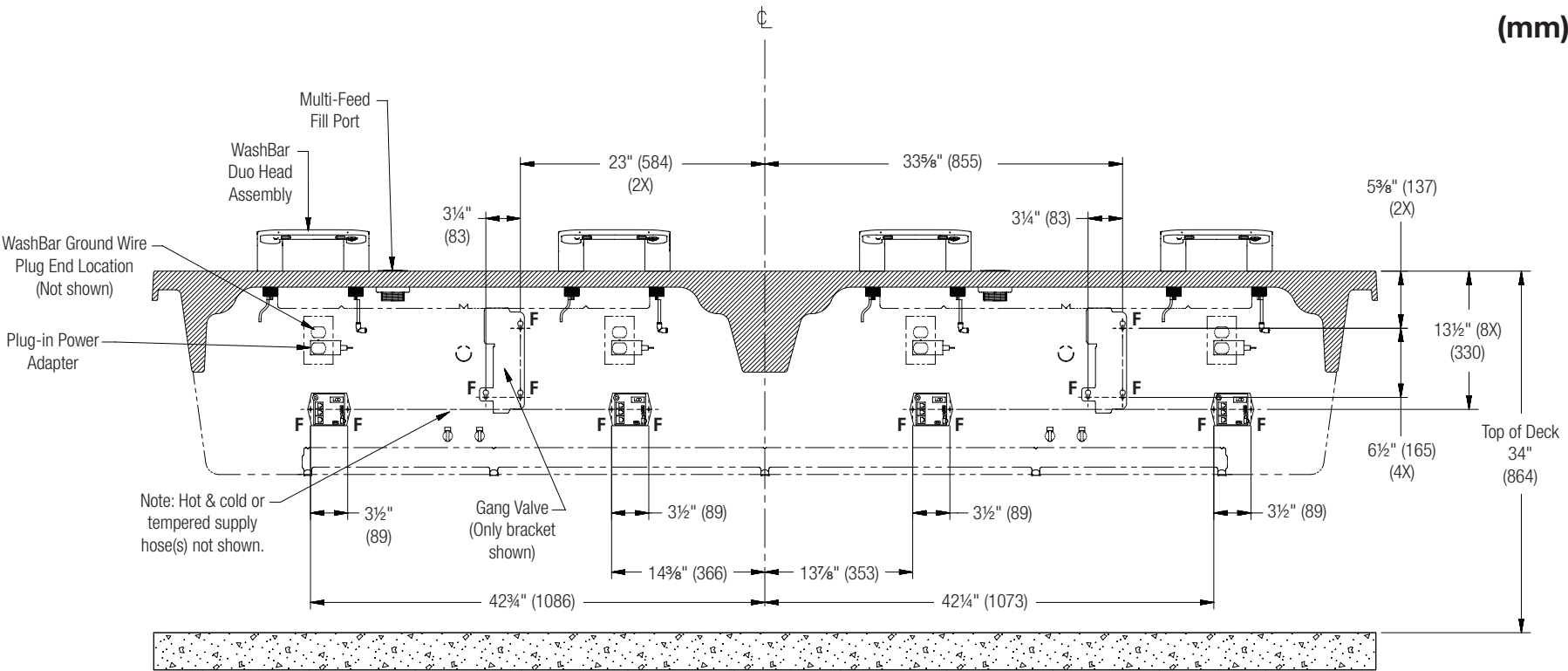
(mm)

Multi-Feed Fill Port

WashBar Duo Head Assembly

WashBar Ground Wire Plug End Location (Not shown)

Plug-in Power Adapter

Note: Hot & cold or tempered supply hose(s) not shown.

Gang Valve (Only bracket shown)

23" (584) (2X)

33⅝" (855)

3¼" (83)

3¼" (83)

5⅜" (137) (2X)

13½" (8X) (330)

6½" (165) (4X)

3½" (89)

3½" (89)

3½" (89)

3½" (89)

14⅜" (366)

13⅞" (353)

42¾" (1086)

42¼" (1073)

Top of Deck 34" (864)

CODE	DESCRIPTION	QTY.
F	#10 Anchors for Faucet Components Installation Provide sufficient backing behind the mounting locations.	14

Installation Diagram: WBD1 (Multi-Feed)

3 of 3: Soap Components

✔ *Mounting for Standard ADA and TAS height shown.*

✔ *Combined waste option is not available for use with WBD1 faucet assembly.*

(mm)
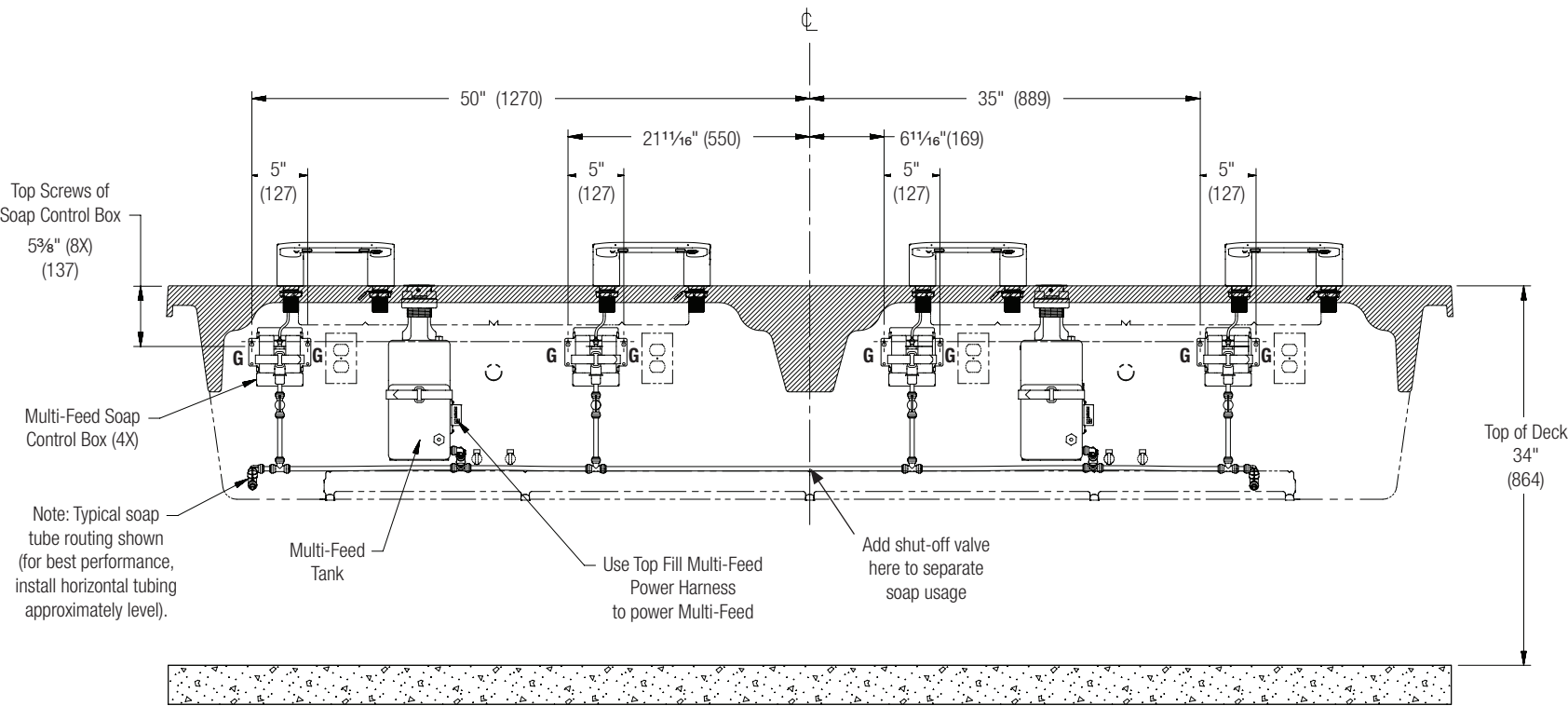
CODE	DESCRIPTION	QTY.
G	#10 Anchors for Soap Tank Bracket (100 lb pull out force) Provide sufficient backing behind the mounting locations.	8

Installation Diagram: WBD1 (Below Fill)

1 of 3: Component Identification

✔ *Refer to page 10 that contains Structural Mounting Diagram Bowl & Access Panel.*

WashBar Duo Head Assembly

Bowl Installation Bracket

P-Trap

¼ Quick Connector (Water from Gang Valve)

WashBar Ground Wire Plug End Location (not shown)

Soap Control Box

Electrical Outlet

Access Panel

Soap Tank/Jug

WashBar Control Module

Access Panel Mounting Bracket

Gang Valve (TMA shown)

Plug-in Power Adapter

Gang Valve (TL shown)

Water Supplies & Hoses (hot & cold supplies shown on left half of diagram)

Water Supply & Hose (tempered supply shown on right half of diagram)

Installation Diagram: WBD1 (Below Fill)

2 of 3: WashBar Components
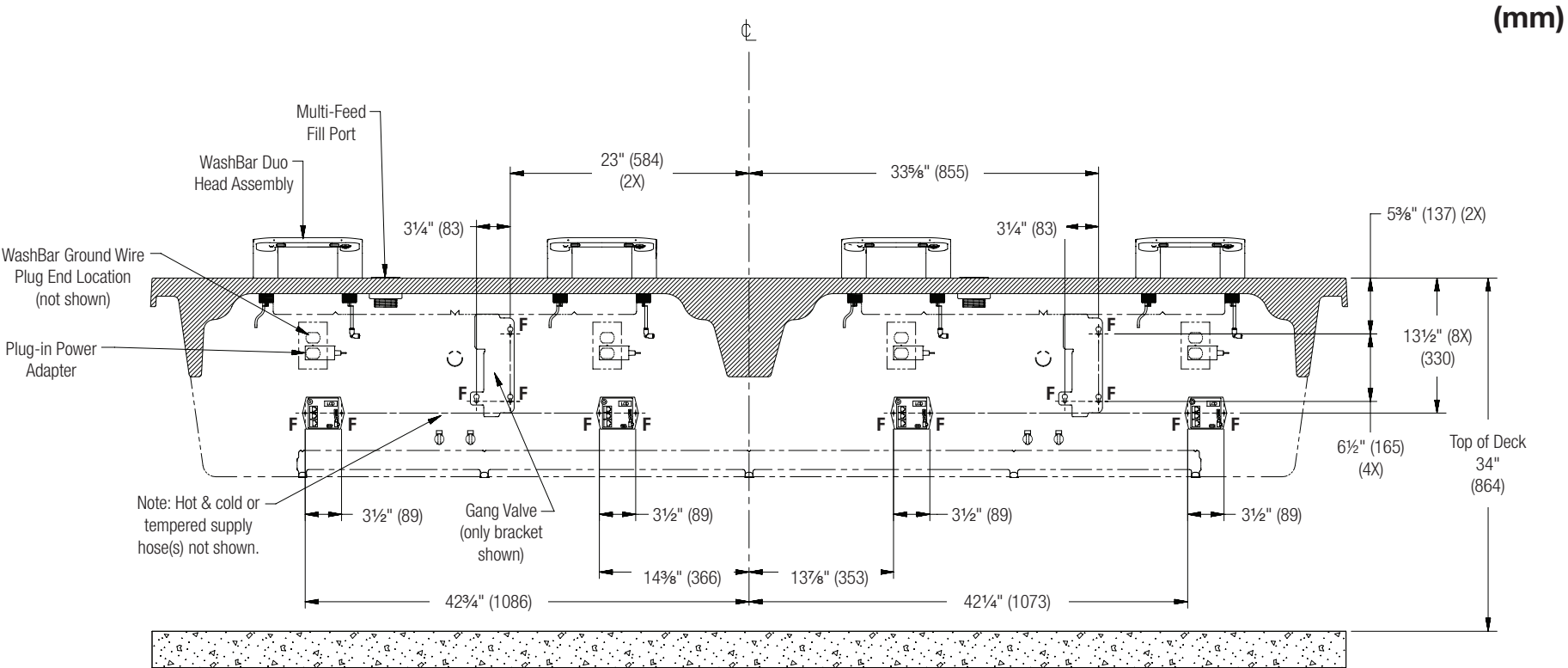
(mm)

Multi-Feed
Fill Port

WashBar Duo
Head Assembly

23" (584)
(2X)

33⅝" (855)

5⅜" (137) (2X)

3¼" (83)

3¼" (83)

WashBar Ground Wire
Plug End Location
(not shown)

Plug-in Power
Adapter

13½" (8X)
(330)

F

F

F   F

F   F

F   F

F   F

F   F

F   F

6½" (165)
(4X)

Top of Deck
34"
(864)

Note: Hot & cold or
tempered supply
hose(s) not shown.

Gang Valve
(only bracket
shown)

3½" (89)

3½" (89)

3½" (89)

3½" (89)

14⅜" (366)   13⅞" (353)

42¾" (1086)

42¼" (1073)

CODE	DESCRIPTION	QTY.
F	#10 Anchors for Faucet Components Installation Provide sufficient backing behind the mounting locations.	14

Installation Diagram: WBD1 (Below Fill)

3 of 3: Soap Components

☑ *Mounting for Standard ADA and TAS height shown.*

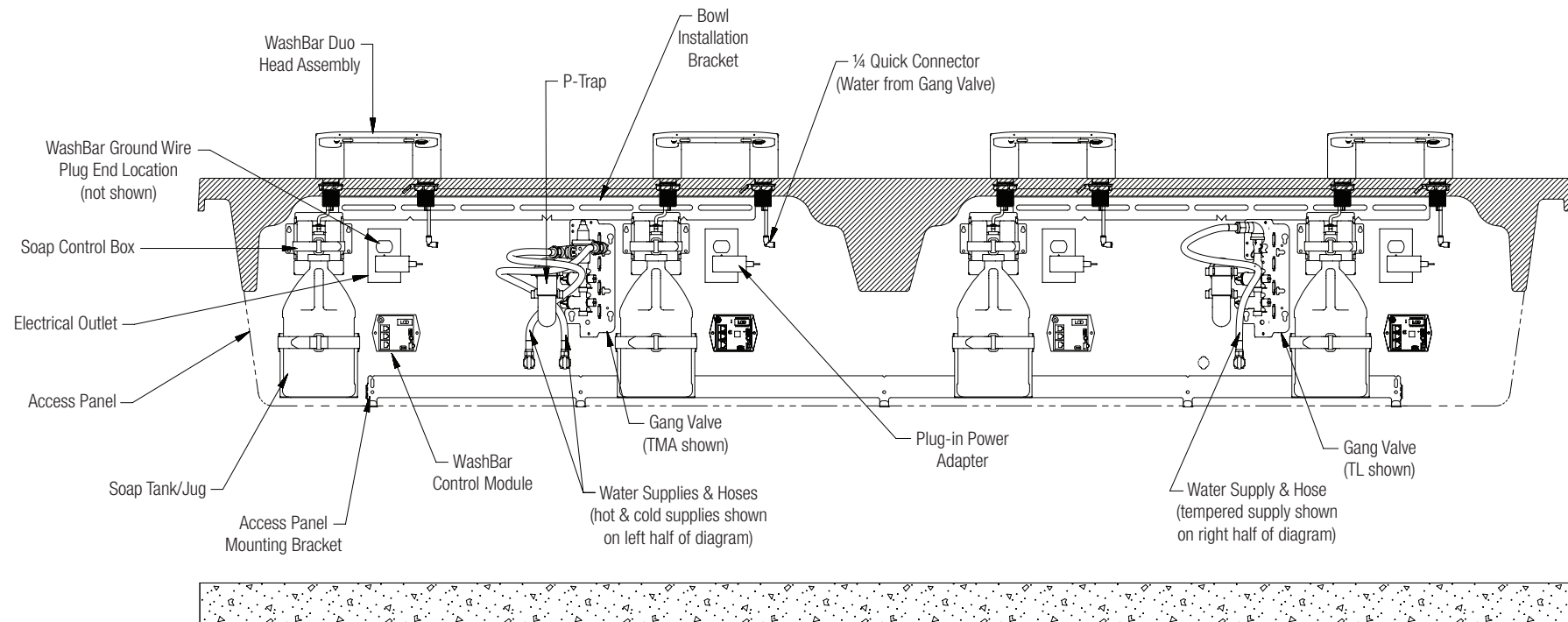☑ *Combined waste option is not available for use with WBD1 faucet assembly.*

(mm)

CODE	DESCRIPTION	QTY.
G	#10 Anchors for Soap Tank Bracket (100 lb pull out force) Provide sufficient backing behind the mounting locations.	24

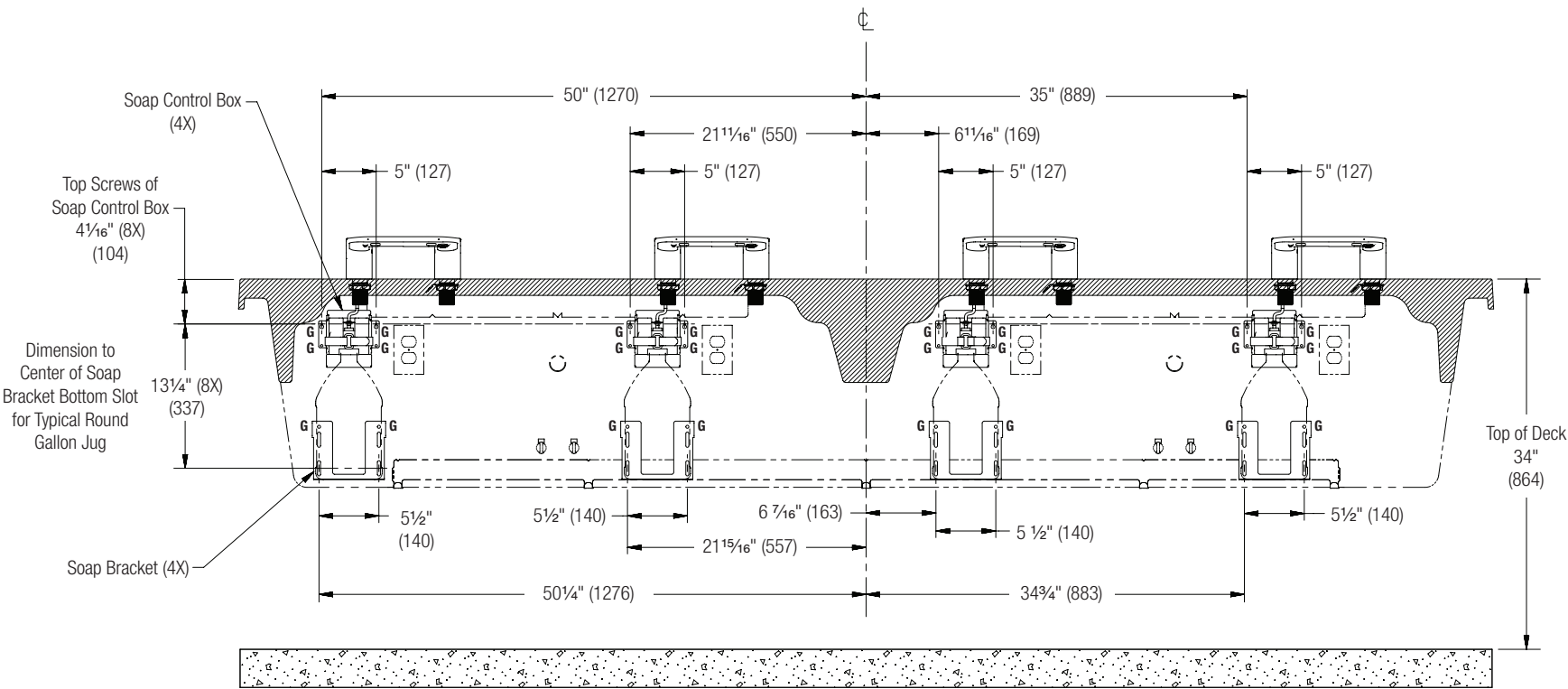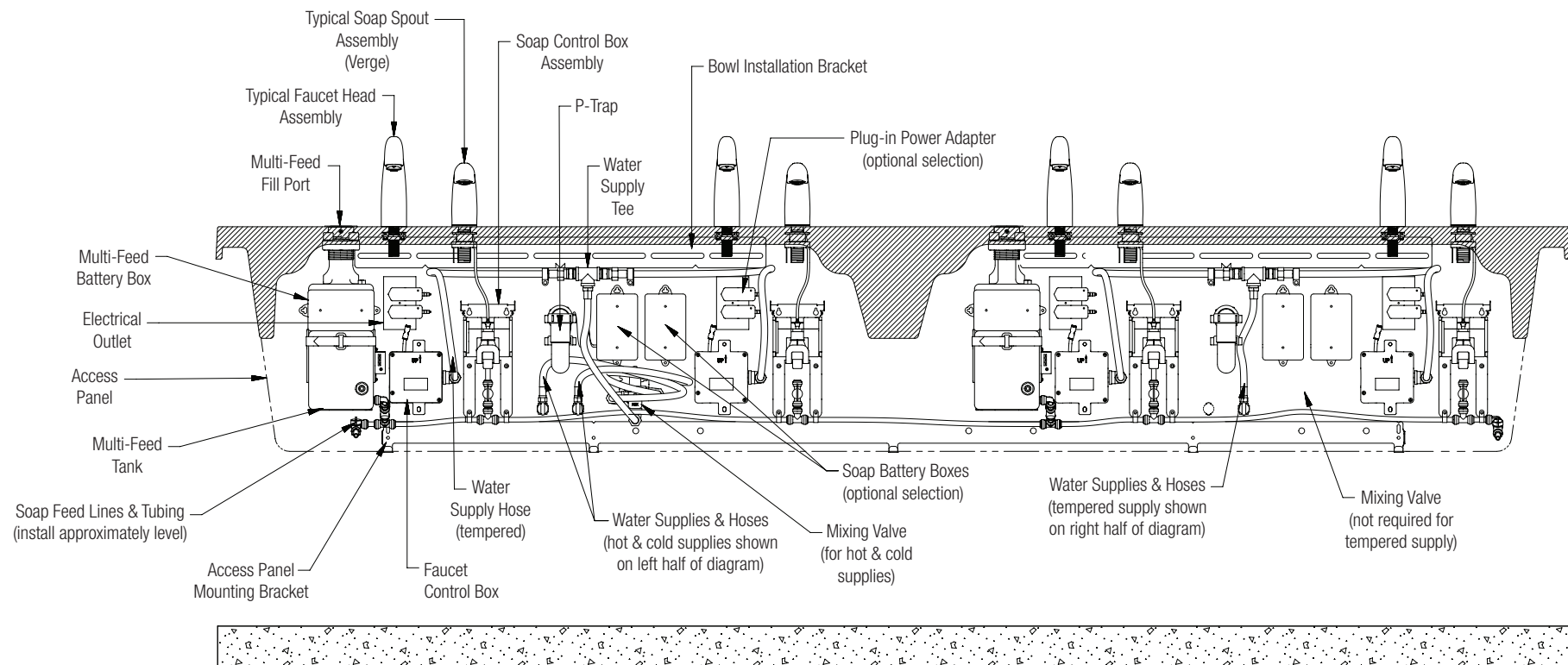# Installation Diagram: Verge (Multi-Feed)

1 of 3: Component Identification

Typical Soap Spout
Assembly
(Verge)

Soap Control Box
Assembly

Bowl Installation Bracket

Typical Faucet Head
Assembly

P-Trap

Multi-Feed
Fill Port

Plug-in Power Adapter
(optional selection)

Water
Supply
Tee

Multi-Feed
Battery Box

Electrical
Outlet

Access
Panel

Multi-Feed
Tank

Soap Battery Boxes
(optional selection)

Water Supplies & Hoses
(tempered supply shown
on right half of diagram)

Mixing Valve
(not required for
tempered supply)

Soap Feed Lines & Tubing
(install approximately level)

Water
Supply Hose
(tempered)

Water Supplies & Hoses
(hot & cold supplies shown
on left half of diagram)

Mixing Valve
(for hot & cold
supplies)

Access Panel
Mounting Bracket

Faucet
Control Box

Installation Diagram: Verge (Multi-Feed)

2 of 3: Verge Faucet Components

✔ *Mounting for Standard ADA and TAS height shown.*

(mm)

Note: Hot & cold or tempered supply hose(s) not shown.

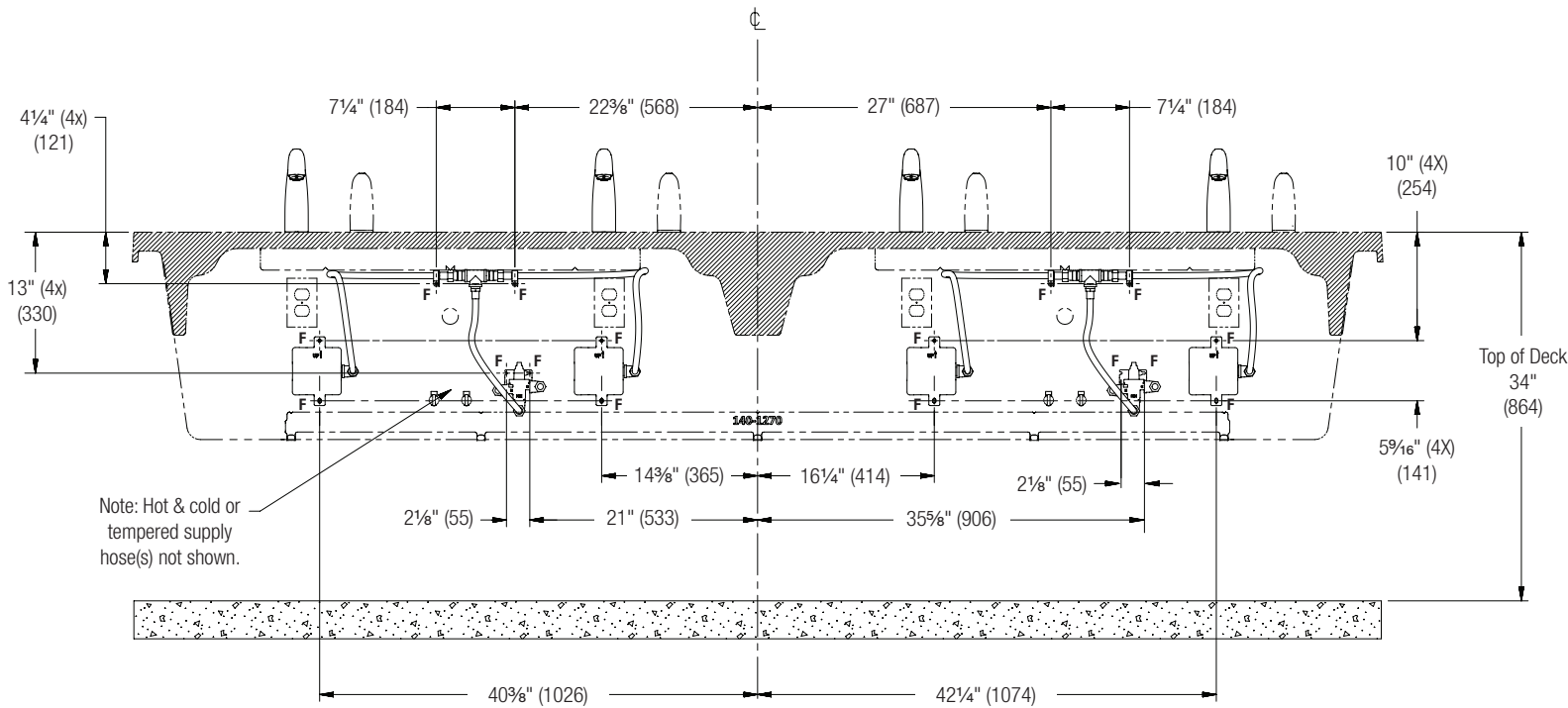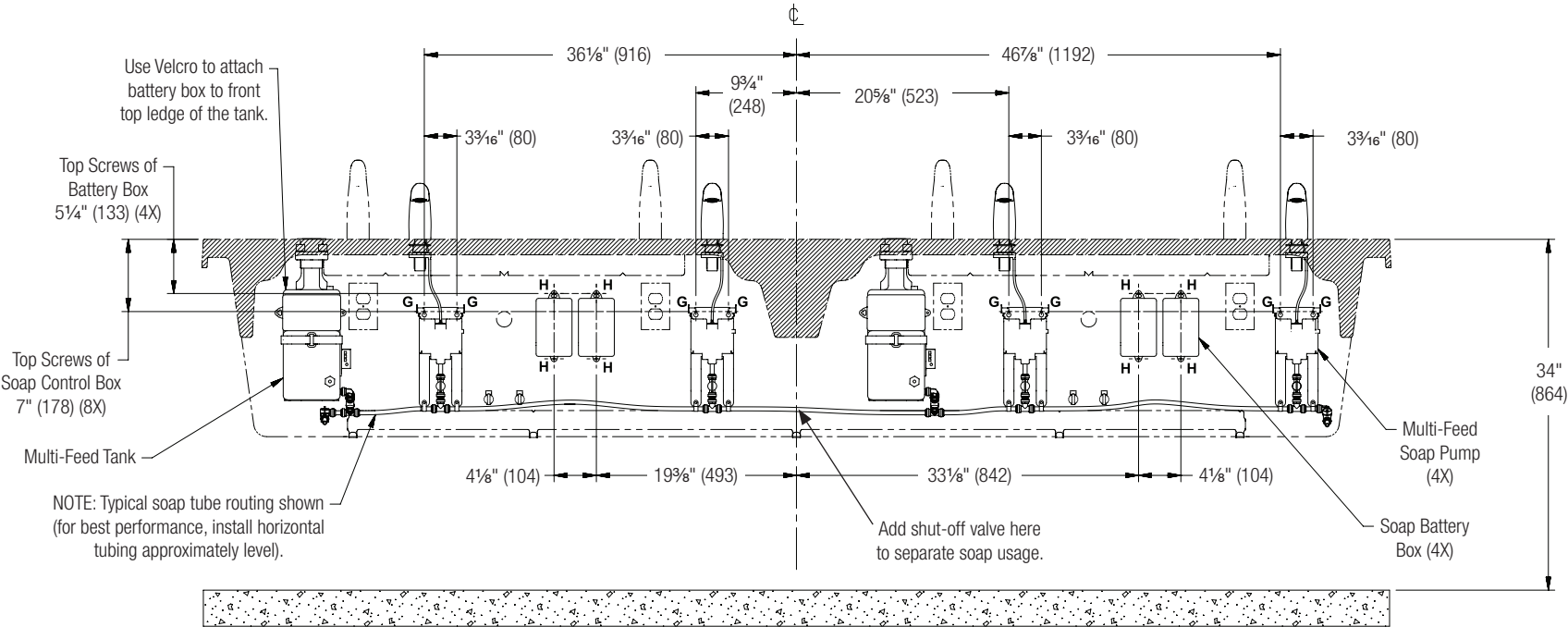| CODE	DESCRIPTION	QTY.
F	Two #10 Anchors for each Faucet Control Box, Valve & Supply Tee Straps. Provide sufficient backing behind the mounting locations.	16

Installation Diagram: Verge (Multi-Feed)

3 of 3: Soap Components

✔ *Mounting for Standard ADA and TAS height shown.*

(mm)

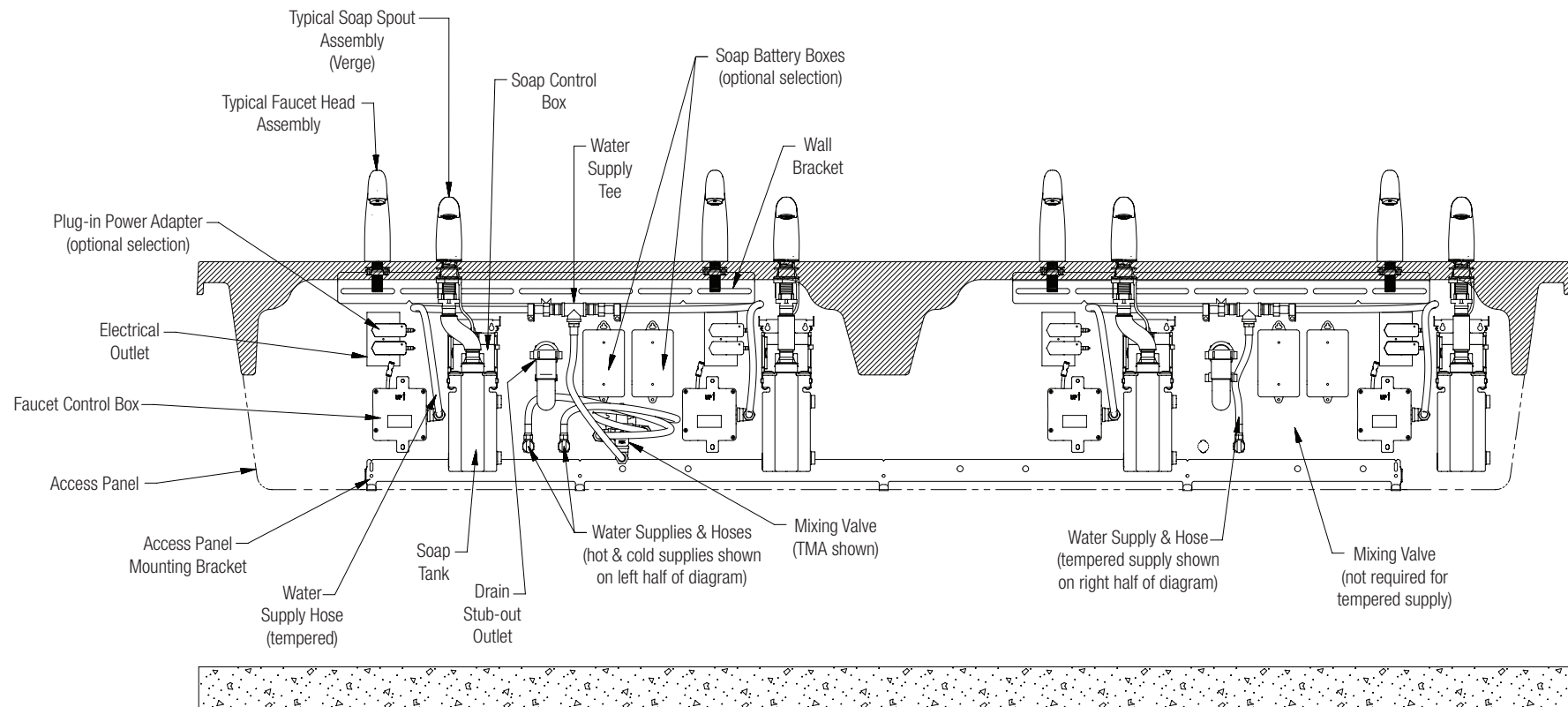| CODE	DESCRIPTION	QTY.
G	Two (3 optional) #10 Anchors for each Soap Control Box Assembly. Provide sufficient backing behind the mounting locations.	12
H	Two #10 Anchors for each Battery Box. Provide sufficient backing behind the mounting locations.	8

Installation Diagram: Verge (Top Fill at Spout)

1 of 3: Component Identification

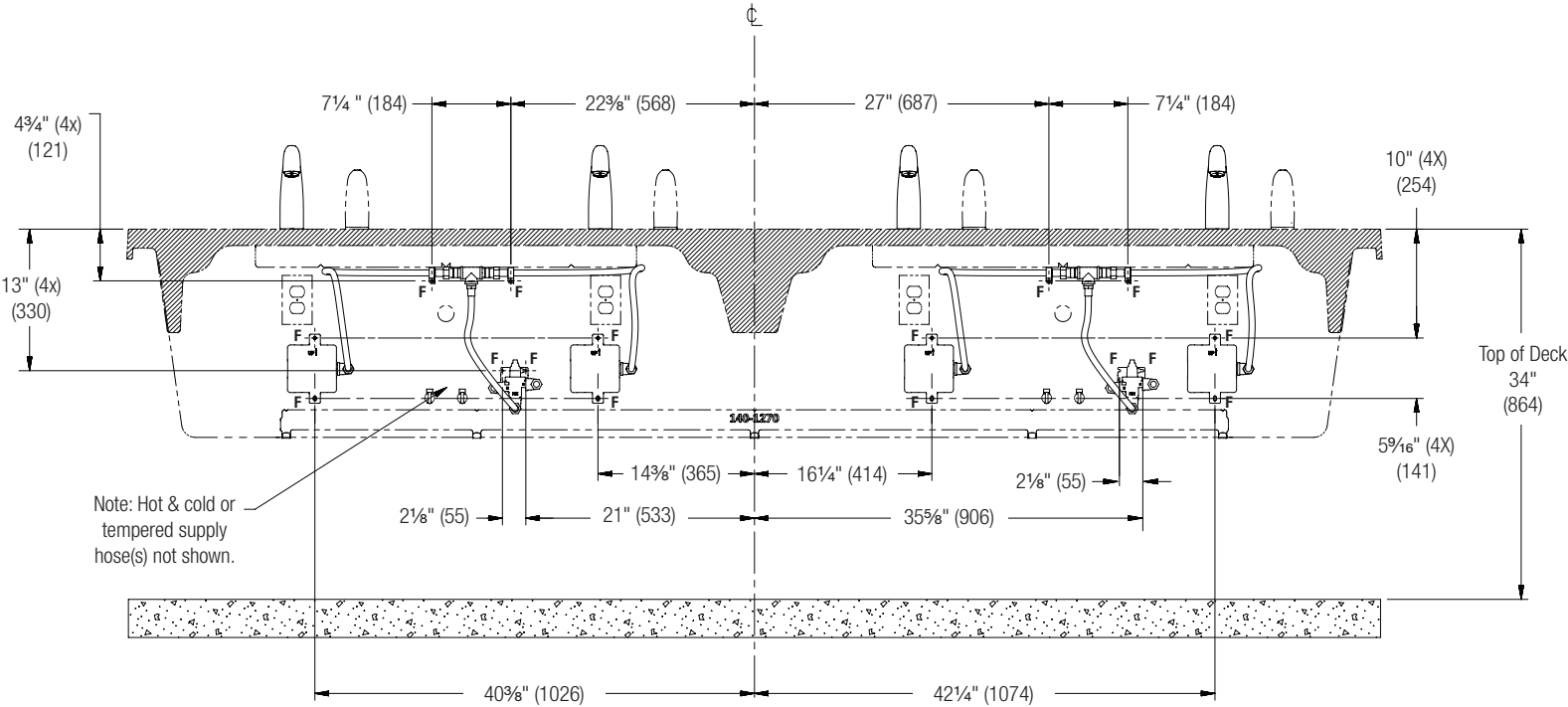✔ *Refer to page 10 that contains Structural Mounting Diagram Bowl & Access Panel.*

Typical Soap Spout Assembly (Verge)

Typical Faucet Head Assembly

Soap Control Box

Soap Battery Boxes (optional selection)

Water Supply Tee

Wall Bracket

Plug-in Power Adapter (optional selection)

Electrical Outlet

Faucet Control Box

Access Panel

Access Panel Mounting Bracket

Soap Tank

Drain Stub-out Outlet

Water Supply Hose (tempered)

Water Supplies & Hoses (hot & cold supplies shown on left half of diagram)

Mixing Valve (TMA shown)

Water Supply & Hose (tempered supply shown on right half of diagram)

Mixing Valve (not required for tempered supply)

Installation Diagram: Verge (Top Fill at Spout)

2 of 3: Verge Faucet Components

✔ *Mounting for Standard ADA and TAS height shown.*

(mm)

℄

7¼ " (184)   22⅜" (568)   27" (687)   7¼" (184)

4¾" (4x)
(121)

10" (4X)
(254)

13" (4x)
(330)

Top of Deck
34"
(864)

140-1270

5⁹⁄₁₆" (4X)
(141)

14⅜" (365)   16¼" (414)   2⅛" (55)

Note: Hot & cold or
tempered supply
hose(s) not shown.

2⅛" (55)   21" (533)   35⅝" (906)

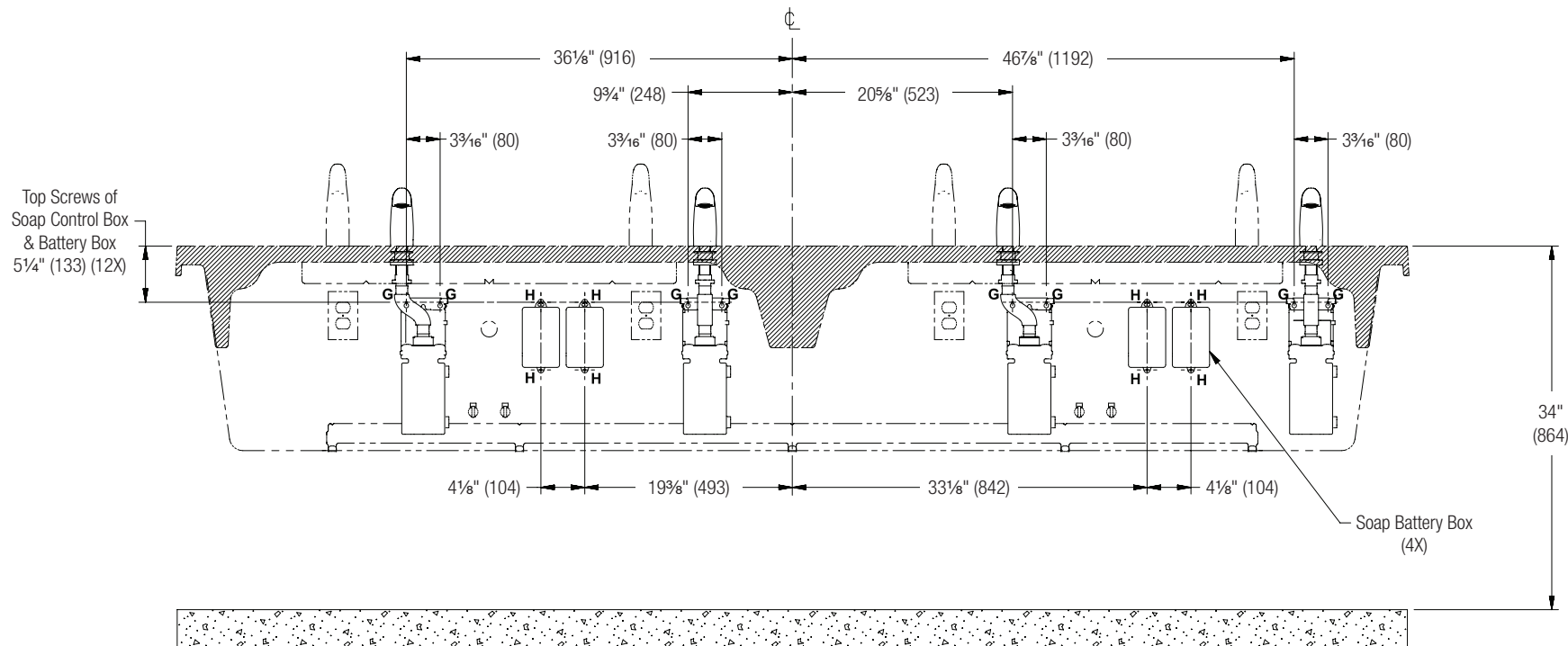40⅜" (1026)   42¼" (1074)

CODE	DESCRIPTION	QTY.
F	Two #10 Anchors for each Faucet Control Box, Valve & Supply Tee Straps. Provide sufficient backing behind the mounting locations.	16

## Installation Diagram: Verge (Top Fill at Spout)

3 of 3: Soap Components

(mm)

CODE	DESCRIPTION	QTY.
G	Two (3 optional) #10 Anchors for each Soap Control Box Assembly. Provide sufficient backing behind the mounting locations.	12
H	Two #10 Anchors for each Battery Box. Provide sufficient backing behind the mounting locations.	8

1 | Bracket Mounting

✔ *The mounting brackets are used to temporarily support the bowl while bowl anchors that are installed. Bowl anchors are required to meet load rating of system.*

✔ *Typical installation is shown. It may be necessary to repair the wall after mounting. The fixture may not cover all of the wall modifications.*
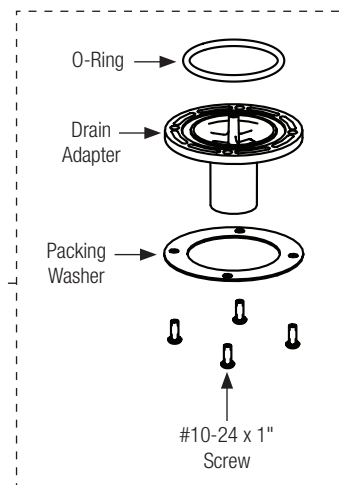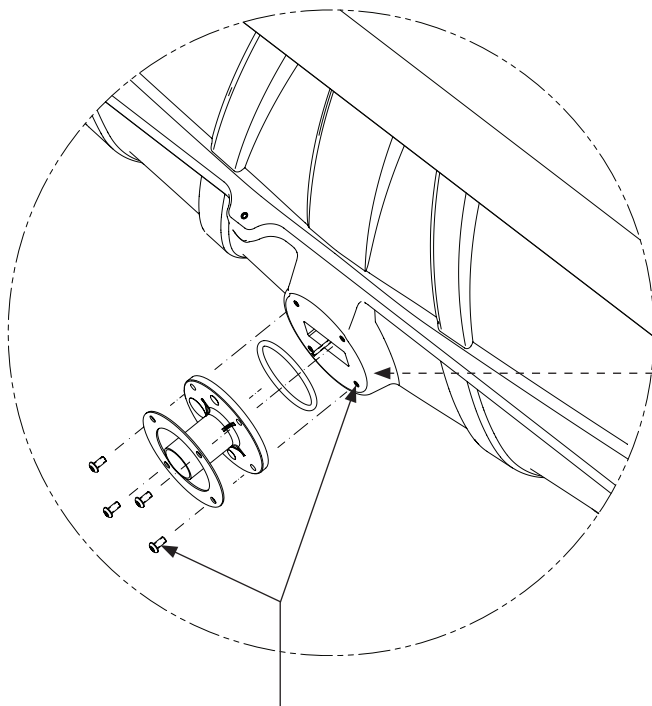
A Install wall brackets to wall per the Structural Mounting Diagram located on page 10. Check to ensure the brackets are level.

Wall Bracket
(140-1128)
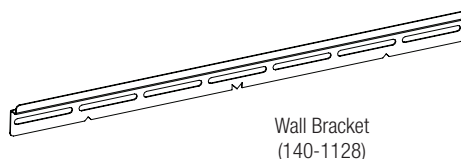
2 | Drain Assembly

✔ *For ease of drain installation, lay the bowl on its back.*

✔ *Follow procedure for each drain assembly.*

O-Ring

Drain
Adapter

Packing
Washer

#10-24 x 1"
Screw

A Assemble the components as shown and thread the four screws through the drain adapter and into the basin inserts. Ensure the screws compress the drain adapter evenly onto the basin.

3 | Verge Soap & Faucet or WashBar Duo Component Assembly

☑ *IMPORTANT: While the bowl is free from the wall, assemble the components for the Verge soap & faucet or WashBar Duo assemblies. Refer to the Verge soap & faucet and WashBar Duo installation instructions.*

Scan or click for Verge Soap Individual Top-Fill Installation Instructions.

Scan or click for the WashBar Duo Installation Instructions.

**Scan or click for the Verge Multi-Feed Soap Installation Instructions.**

Scan or click for the WashBar Top Fill Multi-Feed Soap Tank Installation Instructions.

4 | Bowl Mounting (to Bracket and Wall)

⚠ **WARNING** Ensure bowl is level and completely seated in the wall brackets.

A Position bowl above wall brackets. Press firmly on the back of the bowl to seat the bowl flange into the wall bracket lips. Ensure bowl is level and top of bowl is at the desired height off floor.

Bowl

Wall Anchor

Wall Bracket 1

Wall Anchor

Wall Anchor

Wall Bracket 2
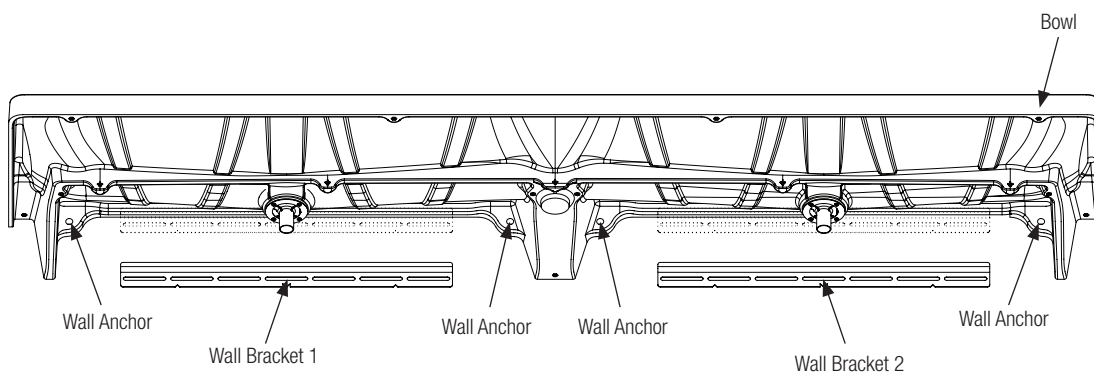
Wall Anchor

⚠ **WARNING** **The mounting brackets are used to temporarily support the bowl while bowl anchors are installed. Bowl anchors are required to meet load rating of system.**

B Secure the (4) bowl mounting pads to the wall anchors using the fasteners (supplied by installer) per the Structural Mounting Diagram.

5 | Strainer and P-Trap

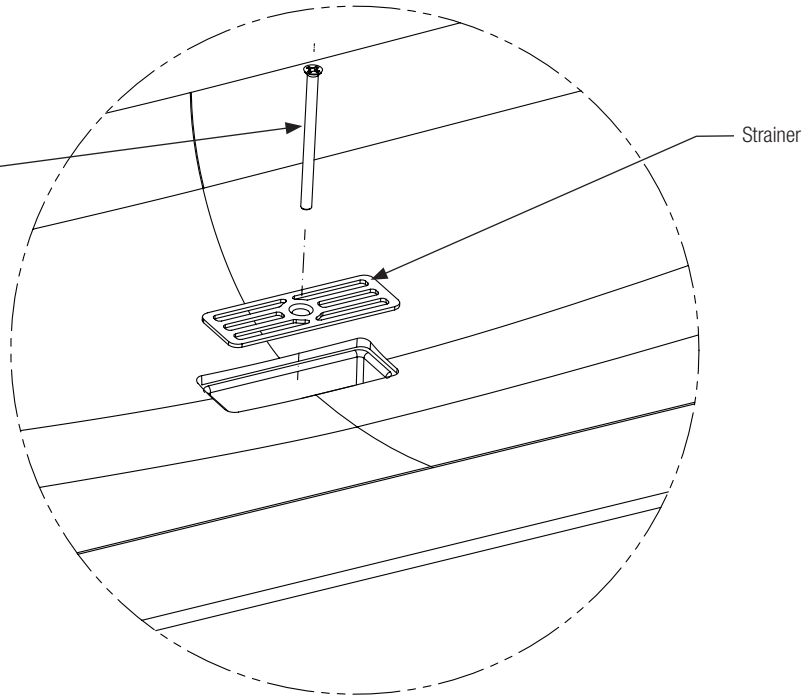✔ *Ensure not to overtighten the strainer screw.*

Strainer

A Thread the strainer screw through the strainer and into the stand off on the drain adapter.

B Attach P-trap to drain adapter and waste outlet.

C Confirm all faucet water lines are connected and have been tightened.

## 6 | Adjust Temperature with Water Running

✔ *This valve is NOT factory preset. Upon installation, the temperature of this valve must be checked and adjusted to ensure delivery of a safe water temperature. Water in excess of 110°F (43°C) may cause scalding.*

A Loosen cap screw about ¼" (4-6 turns) and lift up cover (do not remove).

B Using cover, turn cartridge gently until desired water temperature is reached. Do not turn past stops as this may damage unit. Push cover down and tighten screw.

H   C
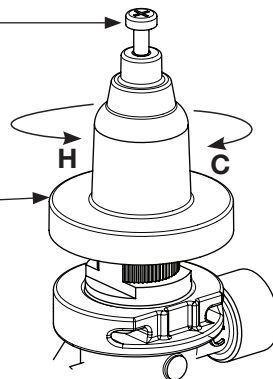
7 | Install Access Panel onto Wall Bracket

A Hold access panel in center near upright position.

B Lift hinge edge of access panel under wall bracket tabs (one per side of wall bracket).

C Push toward wall and lower to engage wall bracket hooks.

D Rotate top of access panel down to confirm that it pivots on wall bracket.

Bowl

Thumb Screw or Security Fastener

Access Panel

Hinge Edge
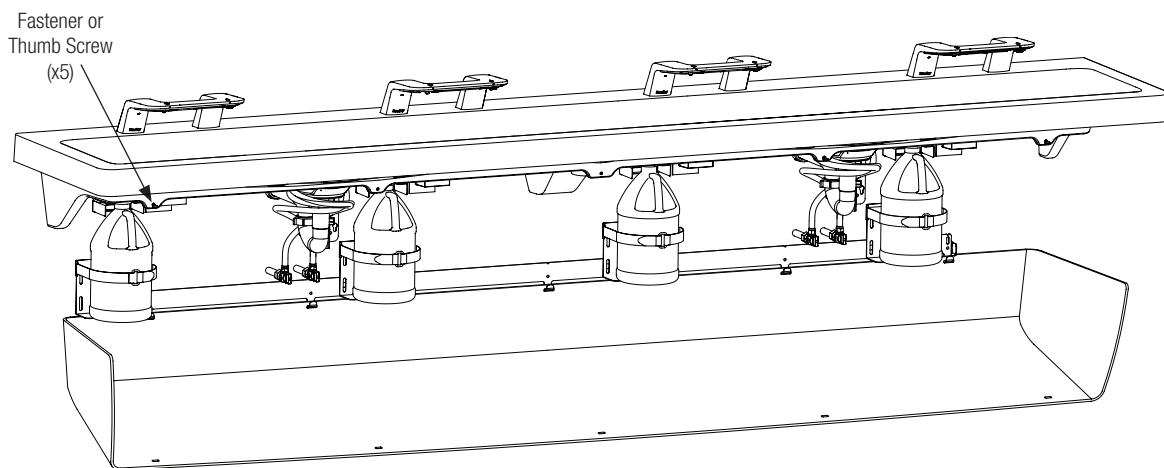
Wall Bracket Tab

Wall Bracket Hooks
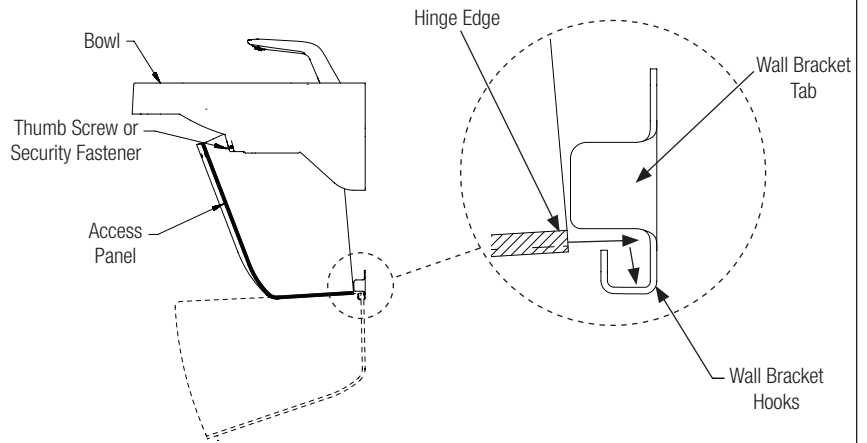
8 | Access Panel

☑ *Make all connections and confirm proper operation of all stations before installing access panel.*

☑ *Shown with WashBar Duo. Verge Soap and Faucet similar.*

Fastener or Thumb Screw (x5)

**A** If thumb screws are used, install partly (approx. 1-2 turns).

B Hang the access panel onto the access panel bracket as shown, and then secure the access panel with the thumb screws provided, starting with either the left or right side.

9 | Removing Access Panel from Wall Bracket

A Remove fasteners or rotate thumb screws horizontal to access panel slot. Start at the center and work outward.

B Hold access panel in center near upright position.

C Lift access panel up and pull forward.

Bowl

Hinge Edge

Wall Bracket Tab

Thumb Screw or Security Fastener

Access Panel

Wall Bracket Hooks
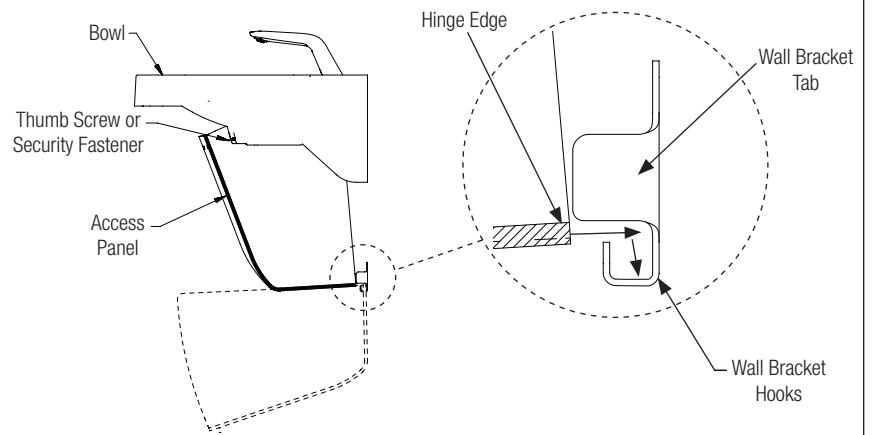
Cleaning and Maintenance for Terreon® (Basin)

Material Description: Terreon is a densified solid surface material composed of bio-based resin with UV stabilizer, alumina tri-hydrate, and mineral filler. It is resistant to chemicals, stains, burns, and impact. Surface can be easily repaired with everyday cleansers or fine grit abrasives. Because Terreon is a unique cast material, its aggregate flow and distribution, and shades of color can vary from product to product creating natural characteristics.

Routine Cleaning: For regular cleaning, use mild neutral base cleaners.

Stubborn Stains: Remove tough stains with Soft-Scrub® and a green Scotch-Brite® pad or lightly sand in a circular motion with 240 grit wet/dry sandpaper. The finish can then be renewed with a maroon Scotch-Brite pad.

Scratches: Remove scratches with a green Scotch-Brite pad. The finish can then be renewed with a maroon Scotch-Brite pad.

Hard Water Deposits: Remove hard water deposits with a mild solution of vinegar and water. Always rinse the unit thoroughly after cleaning.

Refreshing the Surface: Use Hope's® Perfect Countertop to refresh the Terreon Solid Surface material. Bradley recommends additional care and maintenance for the darker colored Terreon.

NOTICE! *Do not use strong acid or alkaline chemicals and cleaners to clean Terreon. If these chemicals come in contact with the surface, wipe them off immediately and rinse with soapy water. Avoid contact with harsh chemicals such as paint remover, bleach, acetone, etc. Avoid contact with hot pans and objects.*

Repair Kits: Terreon repair kits are available. Contact your Bradley representative or distributor for part numbers and pricing. Repair kits are made to order and have a shelf life of 30 days.

Scan or click for additional information on Terreon solid surface material.

Scan or click for additional information on Repair Kits and instructions.

Cleaning and Maintenance for Stainless Steel

Material Description: Stainless steel is extremely durable, and maintenance is simple and inexpensive. Proper care, particularly under corrosive conditions, is essential. Always start with the simplest solution and work your way toward the more complicated.

Routine cleaning: Daily or as often as needed use a solution of warm water and soap, detergent, or ammonia. Apply the cleaning solution per the manufacturer's instructions and always use a soft cloth or sponge to avoid damaging the finish.

Stubborn Stains: To remove stains from stainless steel use a stainless steel cleaner and polish such as Ball® stainless steel cleaner or a soft abrasive. Always follow the manufacturer's instructions and apply in the same direction as the polish lines.

NOTICE! *Never use ordinary steel wool or steel brushes on stainless steel. Always use stainless steel wool or stainless steel brushes.*

Fingerprints and Smears: To remove fingerprints or smears use a high quality stainless steel cleaner and polish in accordance with the manufacturer's instructions. Many of these products leave a protective coating that helps prevent future smears and fingerprints.

Grease and Oil: To remove grease and oil use a quality commercial detergent or caustic cleaner. Apply in accordance to the manufacturer's instructions and in the direction of the polish lines.

Precautions: Avoid prolonged contact with chlorides (bleaches, salts), bromides (sanitizing agents), thiocyanates (pesticides, photography chemicals, and some foods), and iodides on stainless steel equipment, especially if acid conditions exist.

NOTICE! *Do not permit salty solutions to evaporate and dry on stainless steel.*

The appearance of rust streaks on stainless steel leads to the belief that the stainless steel is rusting. Look for the actual source of the rust in some iron or steel particles which may be touching, but not actually a part of the stainless steel structure.

NOTICE! *Strongly acidic or caustic cleaners may attack the steel causing a reddish film to appear. The use of these cleaners should be avoided.*