WILLOUGHBY

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PRODUCT CATALOG

PLUMBING FIXTURES & ACCESSORIES

MADE IN THE USA

WILLOUGHBY

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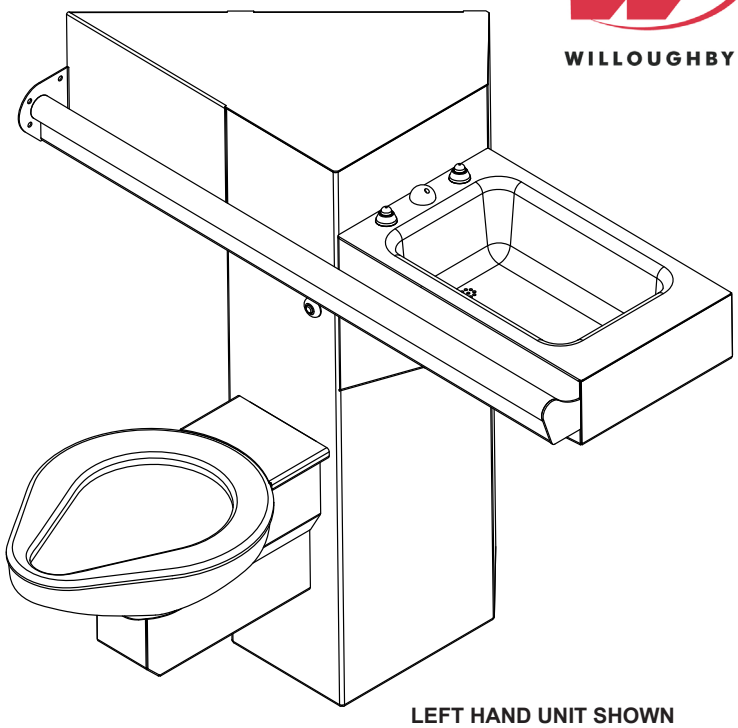
SECURITY PRODUCTS

WILLOUGHBY

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Willoughby Industries - *Security Products*

1545 Series
Handicap-ADA Compliant
15" Wide (for 45º Chase)
Combination Units



LEFT HAND UNIT SHOWN
(Unit may be shown with optional features)

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010 & CBC 2016, 11B

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a wall outlet 15" handicap combination unit with angled left toilet, on floor, standard ligature-resistant deck mounted bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard ligature-resistant pneumatic push buttons, lav. elbow waste, lav. fast drain, toilet waste extension, 3" PVC waste coupling, hydraulic flush valve, flush valve connection, recessed tissue holder, and wall sleeve

Use the following Willoughby Model Number:
ECW-1545-L-ON-DMBH-1.6-PML2-PBH-EB-TWE-TWC3P-FV-FVT-RTH-WS

Recommended Specifications

Handicap 15" (45^0 chase) combination lavatory/toilet shall be:
Willoughby Model No. **EC__-1545**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel, with an angled design for use on a 45^0 chase. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:
- Rectangular-shaped bowl, 14" x 9-1/2" x 5" deep
- Stainless steel ligature-resistant bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" Plain End)

Unit shall include a grab bar with ligature-resistant closure plate; the grab bar will be welded to the fixture and is intended to be anchored to the wall during installation (wall anchors by others). Fixture shall withstand loadings of 5,000 lbs. without permanent damage. Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system. Ø1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

WARNING: Cancer and Reproductive Harm
- www.P65Warnings.ca.gov

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MODEL NUMBER AND OPTIONS:

1.) Toilet Waste Location:
- ❑ ECW Wall Outlet
- ❑ ECF Floor Outlet

2.) Base Model Number:
- ❑ 1545 15" 45º Handicap Lav-toilet Combination

3.) Toilet Orientation:
- ❑ L Angled Left
- ❑ R Angled Right

4.) Fixture Mounting:
- ❑ OF Off-Floor (ECW only)
- ❑ ON On-Floor

5.) Bubbler Selection:
- ❑ DMBH Ligature-resistant Deck Mounted Bubbler (Standard)

6.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

7.) Lavatory Valve Selection:
- ❑ NV No Valve
- ❑ PSL1 Single Temp. Pneumatic Non-metering
- ❑ PSL2 Dual Temp. Pneumatic Non-metering
- ❑ PML1 Single Temp. Pneumatic Metering
- ❑ PML2 Dual Temp. Pneumatic Metering
- ❑ E1L1 Single Temp. Electronic (Pick Control)
- ❑ E1L2 Dual Temp. Electronic (Pick Control)

Valve Manifold Options:

Pneumatic or Electronic Only:

❑ MA2 ❑ MA3 ❑ MA4

8.) Lavatory Push Button Selection:
- ❑ PBH Ligature-resistant Pneumatic Push Buttons
- ❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

9.) Electronic Controls*
(Must Use Electronic Lavatory & Flush Valves):
- ❑ WUCC-3010 ❑Pneutronic ❑WMSII

10.) Lavatory Waste:
- ❑ EB Elbow Waste (1-1/2" Plain End) (Standard)
- ❑ PT Integral 'P'-Trap (1-1/2" Plain End)
- ❑ LWE Lavatory Waste Extension (Specify if more than 3")
- ❑ OV Lavatory Overflow
- ❑ CW1 Combined Waste w/o Clean-out
- ❑ CW2 Combined Waste w/ Clean-out
- ❑ LW1 Thru-Wall Extension, 'P'-Trap
- ❑ LW2 Thru-Wall Extension & Clean-out
- ❑ SLOW Slow Drain
- ❑ LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube
- ❑ LWC2 Coupling, 1-1/2" Tube to 1-1/2" PVC /Cast Iron

11.) Toilet Waste:
- ❑ GWC Gasketed Waste Connection (Standard on ECF)
- ❑ TWE Toilet Waste Extension (Standard on ECW)
- ❑ TW3 3" Clean-out for (TWE)
- ❑ TW4 Floor Outlet Waste Connection
- ❑ TW5 4" Clean-out for (TWE)
- ❑ PC3 Pinned Clean-out Plug PVC-3"
- ❑ PCB3 Pinned Clean-out Plug Brass-3"
- ❑ PC4 Pinned Clean-out Plug PVC-4"
- ❑ PCB4 Pinned Clean-out Plug Brass-4"
- ❑ COH4 4" Clean-out Hook, 4" PVC Plug
- ❑ COHB4 4" Clean-out Hook, 4" Brass Plug

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

12.) Waste Coupling for (TWE) Toilet Waste Extension:
- ❑ TWC3P Connecting to 3" PVC
- ❑ TWC3C Connecting to 3" Cast Iron
- ❑ TWC4P Connecting to 4" PVC
- ❑ TWC4C Connecting to 4" Cast Iron

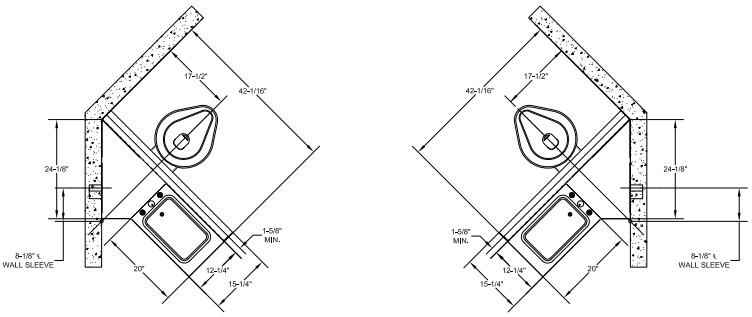
13.) Other Options:
- ❑ T4 Manual Reset Toilet Overflow Preventer, Req. (FV)
- ❑ T4A Auto Reset Toilet Overflow Preventer, Req. (FV)
- ❑ ET4 Electronic Toilet Overflow Preventer, Requires (EFV) & (WUCC-3010) or (WMSII)
- ❑ FV Hydraulic Flush Valve (Includes Push Button)
- ❑ EFVP Electronic Flush Valve w/ (PZPB) (Pick Control)
- ❑ TFE Toilet Flush Extension
- ❑ FVT Flush Valve Connection
- ❑ HS Hinged White Plastic Seat (Not recommended for Max. Security/Ligature-resistant use; No Cover)
- ❑ RTHC Recessed Tissue Holder **(Not ADA Compliant)** (Behind Toilet)
- ❑ TB1 Single Toothbrush Holder (Opposite toilet bowl)
- ❑ TB2 Dual Toothbrush Holder (Opposite toilet bowl)
- ❑ TH1 Single Towel Hook (Opposite toilet bowl)
- ❑ TH2 Dual Towel Hook (Opposite toilet bowl)
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ VG Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in² free area) (Under Lav. Bowl)
- ❑ MT Wall Template
- ❑ WS Wall Sleeve (Requires Accessible Chase)
- ❑ SK Ligature-resistant Toilet Skirt, (ON) On-Floor Only
- ❑ TG 12 Gauge Cabinet
- ❑ TSC Toilet Shipping Cover
- ❑ LVCP Ligature-resistant Lavatory Closure Panel
- ❑ LGB Less Grab Bar
- ❑ DFBH Ligature-resistant DM Drinking Fountain Bubbler**
  **(Panel Mounted Push Button)
- ❑ Other _____

Approved For Manufacturing By:_____ Date:_____ Company:_____

Wall Thickness:_____ Wall Type:_____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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IN COMPLIANCE WITH A.D.A. 2010

IN COMPLIANCE WITH C.B.C. 2016, 11B

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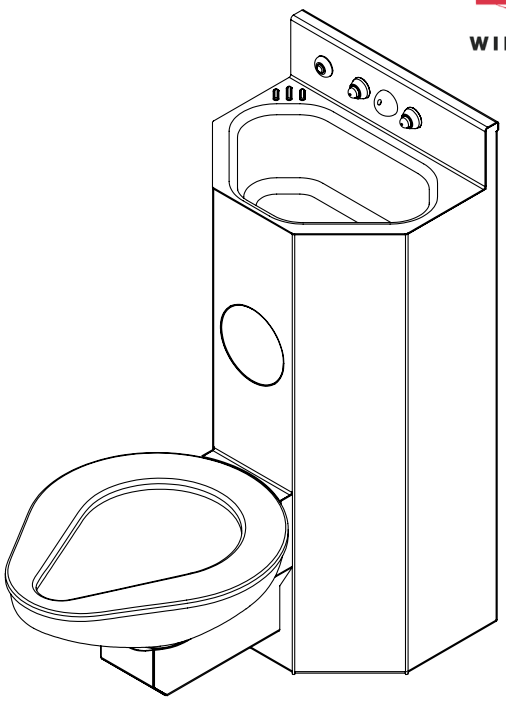
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Willoughby Industries - *Security Products*

1546 Series
15" Wide
Combination Units



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a wall outlet 15" combination unit with centered toilet, on floor, standard ligature-resistant filler/bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard ligature-resistant pneumatic push buttons, lav. elbow waste, lav. fast drain, toilet waste extension, 3" PVC waste coupling, hydraulic flush valve, flush valve connection, center recessed tissue holder, and wall sleeve

Use the following Willoughby Model Number:
ECW-1546-C-ON-BPH-1.6-PML2-PBH-EB-TWE-TWC3P-FV-FVT-RTHC-WS

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

Recommended Specifications

15" combination lavatory/toilet shall be:
Willoughby Model No. **EC__-1546**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:
- Multi-sided bowl, 12-3/4" x 8-1/4" x 5" deep
- Stainless steel ligature-resistant bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" Plain End)
- Self-draining soap dish

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system. Ø1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

WARNING: Cancer and Reproductive Harm
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MODEL NUMBER AND OPTIONS:

1.) Toilet Waste Location:
- ❑ ECW Wall Outlet
- ❑ ECF Floor Outlet

2.) Base Model Number:
- ❑ 1546 15" Lav-toilet Combination

3.) Toilet Orientation:
- ❑ L Angled Left
- ❑ R Angled Right
- ❑ C Centered

4.) Fixture Mounting:
- ❑ OF Off-Floor (ECW Only)
- ❑ ON On-Floor

5.) Bubbler Selection:
- ❑ BPH Ligature-resistant Bubbler/Filler (Standard)
- ❑ BC Code Bubbler/Filler (w/ Non Ligature-Resistant Mouth Guard)
- ❑ FLH Ligature-resistant Lav. Filler

6.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

7.) Lavatory Valve Selection:
- ❑ NV No Valve
- ❑ PSL1 Single Temp. Pneumatic Non-metering
- ❑ PSL2 Dual Temp. Pneumatic Non-metering
- ❑ PML1 Single Temp. Pneumatic Metering
- ❑ PML2 Dual Temp. Pneumatic Metering
- ❑ E1L1 Single Temp. Electronic (Pick Control)
- ❑ E1L2 Dual Temp. Electronic (Pick Control)

Valve Manifold Options:

Pneumatic or Electronic Only:

❑ MA2 ❑ MA3 ❑ MA4

8.) Lavatory Push Button Selection:
- ❑ PBH Ligature-resistant Pneumatic Push Buttons
- ❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

9.) Electronic Controls*
(Must Use Electronic Lavatory & Flush Valves):

❑ WUCC-3010 ❑Pneutronic ❑WMSII

10.) Lavatory Waste:
- ❑ EB Elbow Waste (1-1/2" Plain End) (Standard)
- ❑ PT Integral 'P'-Trap (1-1/2" Plain End)
- ❑ LWE Lavatory Waste Extension (Specify if more than 3")
- ❑ OV Lavatory Overflow
- ❑ CW1 Combined Waste w/o Clean-out
- ❑ CW2 Combined Waste w/ Clean-out
- ❑ LW1 Thru-Wall Extension, 'P'-Trap
- ❑ LW2 Thru-Wall Extension & Clean-out
- ❑ SLOW Slow Drain
- ❑ LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube
- ❑ LWC2 Coupling, 1-1/2" Tube to 1-1/2" PVC /Cast Iron

11.) Toilet Waste:
- ❑ GWC Gasketed Waste Connection (Standard on ECF)
- ❑ TWE Toilet Waste Extension (Standard on ECW)
- ❑ TW3 3" Clean-out for (TWE)
- ❑ TW4 Floor Outlet Waste Connection
- ❑ TW5 4" Clean-out for (TWE)
- ❑ PC3 Pinned Clean-out Plug PVC-3"
- ❑ PCB3 Pinned Clean-out Plug Brass-3"
- ❑ PC4 Pinned Clean-out Plug PVC-4"
- ❑ PCB4 Pinned Clean-out Plug Brass-4"
- ❑ COH4 4" Clean-out Hook, 4" PVC Plug
- ❑ COHB4 4" Clean-out Hook, 4" Brass Plug

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

12.) Waste Coupling for (TWE) Toilet Waste Extension:
- ❑ TWC3P Connecting to 3" PVC
- ❑ TWC3C Connecting to 3" Cast Iron
- ❑ TWC4P Connecting to 4" PVC
- ❑ TWC4C Connecting to 4" Cast Iron

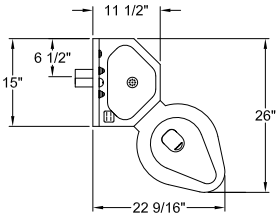
13.) Other Options:
- ❑ T4 Manual Reset Toilet Overflow Preventer, Req. (FV)
- ❑ T4A Auto Reset Toilet Overflow Preventer, Req. (FV)
- ❑ ET4 Electronic Toilet Overflow Preventer, Requires (EFV) & (WUCC-3010) or (WMSII)
- ❑ FV Hydraulic Flush Valve (Includes Push Button)
- ❑ EFVP Electronic Flush Valve w/ (PZPB) (Pick Control)
- ❑ TFE Toilet Flush Extension
- ❑ FVT Flush Valve Connection
- ❑ HS Hinged White Plastic Seat (Not recommended for Max. Security/Ligature-resistant use; No Cover)
- ❑ RTH__Recessed Tissue Holder ❑ L ❑ LF ❑ C ❑ RF ❑ R
- ❑ ISH Integral Shelf
- ❑ TB1__ Single Toothbrush Holder ❑ L ❑ R
- ❑ TB2__ Dual Toothbrush Holder
- ❑ TH1__ Single Towel Hook ❑ L ❑ LF ❑ C ❑ RF ❑ R
- ❑ TH2__ Dual Towel Hook ❑ L ❑ LF ❑ C ❑ RF ❑ R
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ VG Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in² free area) ❑ L ❑ LF ❑ RF ❑ R
- ❑ MT Wall Template
- ❑ WS Wall Sleeve (Requires Accessible Chase)
- ❑ SK Ligature-resistant Toilet Skirt, (ON) On-Floor Only
- ❑ TG 12 Gauge Cabinet
- ❑ TSC Toilet Shipping Cover
- ❑ Other _____
- ❑ Other _____

Approved For Manufacturing By:_____ Date:_____ Company:_____

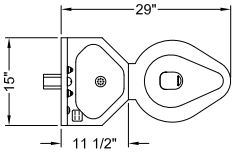
Wall Thickness:_____ Wall Type:_____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

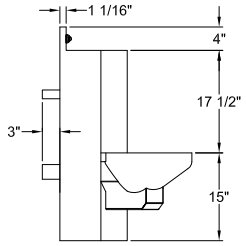
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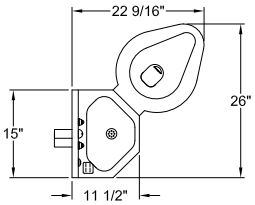
PLAN VIEW
LEFT HAND CONFIGURATION



PLAN VIEW
CENTER CONFIGURATION



SIDE VIEW



PLAN VIEW
RIGHT HAND CONFIGURATION

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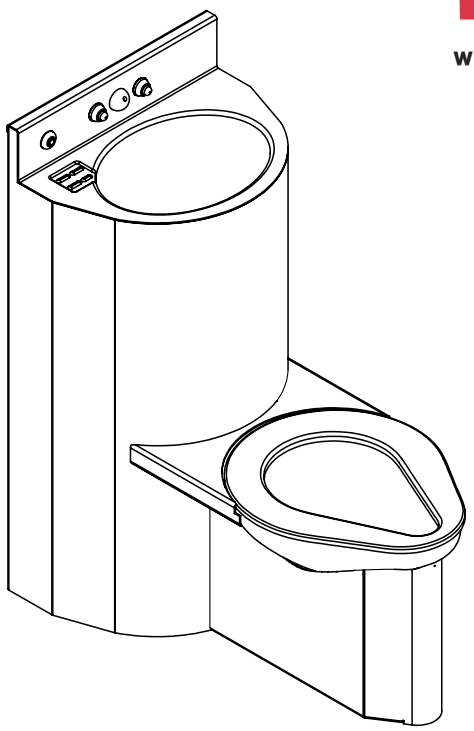
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Willoughby Industries - *Security Products*

1806 Series Ligature-resistant 18" Wide Combination Units



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a wall outlet ligature-resistant 18" combination unit with centered toilet, on floor, standard ligature-resistant filler/bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard ligature-resistant pneumatic push buttons, lav. elbow waste, lav. slow drain, toilet waste extension, 3" PVC waste coupling, hydraulic flush valve, flush valve connection, and wall sleeve

Use the following Willoughby Model Number:
ECW-1806-C-ON-BPH-1.6-PML2-PBH-EB-SLOW-TWE-TWC3P-FV-FVT-WS

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

Recommended Specifications

Ligature-resistant 18" combination lavatory/toilet shall be: Willoughby Model No. **EC__-1806**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel, with a rounded, ligature-resistant design. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Ligature resistant toilet skirt (extends to floor)
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:
- Oval-shaped bowl, 13" x 9-1/2" x 6" deep
- Stainless steel ligature-resistant bubbler/filler
- Slow drain with air vent
- Elbow waste (1-1/2" Plain End)
- Self-draining soap dish

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system. Ø1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

WARNING: Cancer and Reproductive Harm
- www.P65Warnings.ca.gov

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MODEL NUMBER AND OPTIONS:

1.) Toilet Waste Location:
- ❑ ECW Wall Outlet
- ❑ ECF Floor Outlet

2.) Base Model Number:
- ❑ 1806 Ligature-resistant 18" Lav-toilet Combination

3.) Toilet Orientation:
- ❑ L Angled Left
- ❑ R Angled Right
- ❑ C Centered

4.) Fixture Mounting:
- ❑ ON On-Floor (Standard)

5.) Bubbler Selection:
- ❑ BPH Ligature-resistant Bubbler/Filler (Standard)
- ❑ FLH Ligature-resistant Lav. Filler

6.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

7.) Lavatory Valve Selection:
- ❑ NV No Valve
- ❑ PSL1 Single Temp. Pneumatic Non-metering
- ❑ PSL2 Dual Temp. Pneumatic Non-metering
- ❑ PML1 Single Temp. Pneumatic Metering
- ❑ PML2 Dual Temp. Pneumatic Metering
- ❑ E1L1 Single Temp. Electronic (Pick Control)
- ❑ E1L2 Dual Temp. Electronic (Pick Control)

Valve Manifold Options:

Pneumatic or Electronic Only:

❑ MA2 ❑ MA3 ❑ MA4

8.) Lavatory Push Button Selection:
- ❑ PBH Ligature-resistant Pneumatic Push Buttons
- ❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

9.) Electronic Controls*
(Must Use Electronic Lavatory & Flush Valves):

❑ WUCC-3010 ❑Pneutronic ❑WMSII

10.) Lavatory Waste:
- ❑ EB Elbow Waste (1-1/2" Plain End) (Standard)
- ❑ PT Integral 'P'-Trap (1-1/2" Plain End)
- ❑ LWE Lavatory Waste Extension (Specify if more than 3")
- ❑ OV Lavatory Overflow
- ❑ CW1 Combined Waste w/o Clean-out
- ❑ CW2 Combined Waste w/ Clean-out
- ❑ LW1 Thru-Wall Extension, 'P'-Trap
- ❑ LW2 Thru-Wall Extension & Clean-out
- ❑ SLOW Slow Drain (Standard)
- ❑ LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube
- ❑ LWC2 Coupling, 1-1/2" Tube to 1-1/2" PVC /Cast Iron

11.) Toilet Waste:
- ❑ GWC Gasketed Waste Connection (Standard on ECF)
- ❑ TWE Toilet Waste Extension (Standard on ECW)
- ❑ TW3 3" Clean-out for (TWE)
- ❑ TW4 Floor Outlet Waste Connection
- ❑ TW5 4" Clean-out for (TWE)
- ❑ PC3 Pinned Clean-out Plug PVC-3"
- ❑ PCB3 Pinned Clean-out Plug Brass-3"
- ❑ PC4 Pinned Clean-out Plug PVC-4"
- ❑ PCB4 Pinned Clean-out Plug Brass-4"
- ❑ COH4 4" Clean-out Hook, 4" PVC Plug
- ❑ COHB4 4" Clean-out Hook, 4" Brass Plug

12.) Waste Coupling for (TWE) Toilet Waste Extension:
- ❑ TWC3P Connecting to 3" PVC
- ❑ TWC3C Connecting to 3" Cast Iron
- ❑ TWC4P Connecting to 4" PVC
- ❑ TWC4C Connecting to 4" Cast Iron

13.) Other Options:
- ❑ T4 Manual Reset Toilet Overflow Preventer, Req. (FV)
- ❑ T4A Auto Reset Toilet Overflow Preventer, Req. (FV)
- ❑ ET4 Electronic Toilet Overflow Preventer, Requires (EFV) & (WUCC-3010) or (WMSII)
- ❑ FV Hydraulic Flush Valve (Includes Push Button)
- ❑ EFVP Electronic Flush Valve w/ (PZPB) (Pick Control)
- ❑ TFE Toilet Flush Extension
- ❑ FVT Flush Valve Connection
- ❑ RTH__Recessed Tissue Holder ❑ L ❑ R
- ❑ TH1__ Single Towel Hook ❑ L ❑ R
- ❑ TH2__ Dual Towel Hook ❑ L ❑ R
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ MT Wall Template
- ❑ WS Wall Sleeve (Requires Accessible Chase)
- ❑ TG 12 Gauge Cabinet
- ❑ TSC Toilet Shipping Cover
- ❑ Other _____
- ❑ Other _____

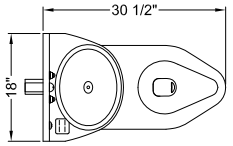
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By:_____ Date:_____ Company:_____

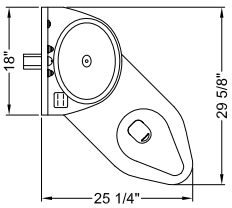
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VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

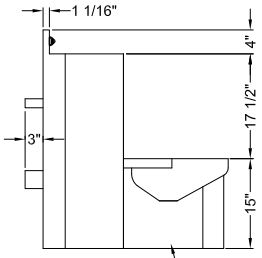
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PLAN VIEW
CENTER CONFIGURATION

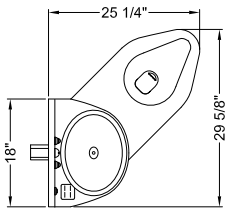


PLAN VIEW
LEFT HAND CONFIGURATION



SIDE VIEW

INTEGRAL LIGATURE-RESISTANT SKIRT



PLAN VIEW
RIGHT HAND CONFIGURATION

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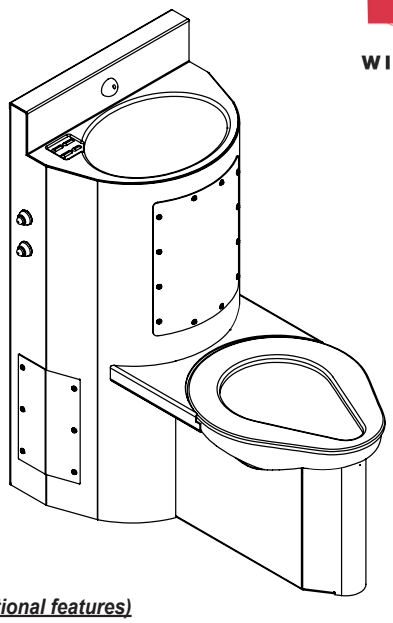
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Willoughby Industries - *Security Products*

1806-FA Series Ligature-resistant Front Access 18" Wide Combination Unit

Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a wall outlet ligature-resistant front-access 18" combination unit with center toilet, standard ligature-resistant filler/bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard ligature-resistant pneumatic push buttons, removable lav. 'p' trap, lav. slow drain, standard gasketed waste connection, hydraulic flush valve, and wall template

Use the following Willoughby Model Number:
ECW-1806-FA-C-ON-BPH-1.6-PML2-PBH-RPT-SLOW-GWC-FV

Recommended Specifications

Ligature-resistant 18" front access combination lav./toilet shall be: Willoughby Model No. **EC__-1806-FA**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish. Removable access panels, attached w/ security screws shall provide access to fixture interior.

Standard toilet shall include:
- Ligature resistant toilet skirt (extends to floor)
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type which requires 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:
- Oval shaped bowl,13" x 9-1/2" x 6" deep
- Stainless steel ligature-resistant bubbler/filler
- Slow drain with air vent
- Slip-joint brass union 'P'-trap (1-1/2" N.P.T.)
- Self-draining soap dish

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Cabinet interior shall be sound deadened with fire-resistant material.

Optionally selected lavatory valve and flush valve shall be factory installed inside fixture cabinet.

Anchoring shall be from the front, anchoring holes provided. Anchoring hardware provided by others. Standard unit requires no chase area for installation and maintenance, however certain non-standard options may require an accessible chase (see options list for details).

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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MODEL NUMBER AND OPTIONS:

1.) Toilet Waste Location:
- ❑ ECW Wall Outlet
- ❑ ECF Floor Outlet

2.) Base Model Number:
- ❑ 1806-FA Ligature-resistant Front Access 18" Lav-toilet Combination

3.) Toilet Orientation:
- ❑ L Angled Left
- ❑ R Angled Right
- ❑ C Centered

4.) Fixture Mounting:
- ❑ ON On-Floor

5.) Bubbler Selection:
- ❑ BPH Ligature-resistant Bubbler/Filler (Standard)
- ❑ FLH Ligature-resistant Lav. Filler

6.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

7.) Lavatory Valve Selection:
- ❑ NV No Valve
- ❑ PSL1 Single Temp. Pneumatic Non-metering
- ❑ PSL2 Dual Temp. Pneumatic Non-metering
- ❑ PML1 Single Temp. Pneumatic Metering
- ❑ PML2 Dual Temp. Pneumatic Metering
- ❑ E1L1 Single Temp. Electronic (Pick Control)
- ❑ E1L2 Dual Temp. Electronic (Pick Control)

8.) Lavatory Push Button Selection:
- ❑ PBH Ligature-resistant Pneumatic Push Buttons
- ❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

9.) Electronic Controls*
(Must Use Electronic Lavatory & Flush Valves):
- ❑ WUCC-3010 ❑Pneutronic ❑WMSII

10.) Lavatory Waste:
- ❑ RPT Removable 'P'-Trap (1-1/2" N.P.T.) (Standard)
- ❑ OV Lavatory Overflow
- ❑ CW1 Combined Waste w/o Clean-out
- ❑ CW2 Combined Waste w/ Clean-out
- ❑ SLOW Slow Drain (Standard)

11.) Toilet Waste:
- ❑ GWC Gasketed Waste Connection (Standard)
- ❑ TWE Toilet Waste Extension (Requires Accessible Chase)

12.) Waste Coupling for (TWE) Toilet Waste Extension:
- ❑ TWC3P Connecting to 3" PVC
- ❑ TWC3C Connecting to 3" Cast Iron
- ❑ TWC4P Connecting to 4" PVC
- ❑ TWC4C Connecting to 4" Cast Iron

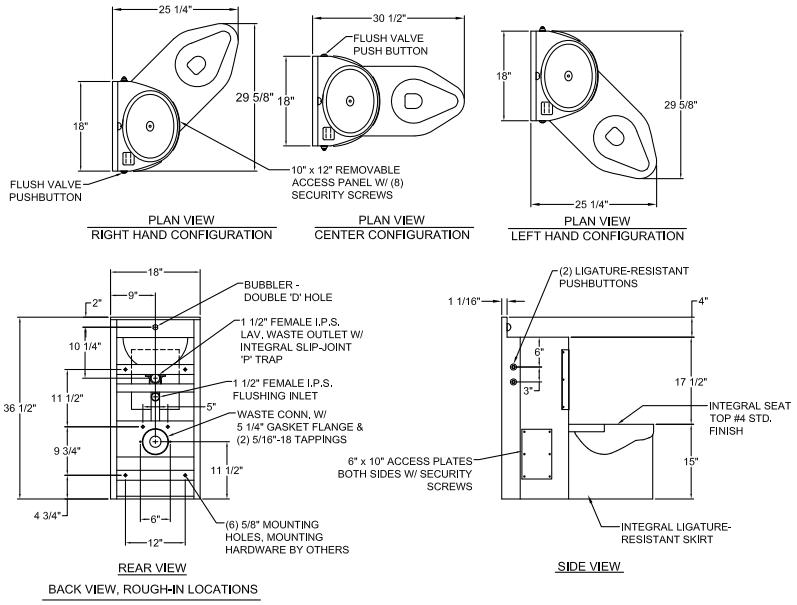
13.) Other Options:
- ❑ T4 Manual Reset Toilet Overflow Preventer, Req. (FV)
- ❑ T4A Auto Reset Toilet Overflow Preventer, Req. (FV)
- ❑ ET4 Electronic Toilet Overflow Preventer, Requires (EFV) & (WUCC-3010) or (WMSII)
- ❑ FV Hydraulic Flush Valve (Includes Push Button)
- ❑ EFVP Electronic Flush Valve w/ (PZPB) (Pick Control)
- ❑ RTH__Recessed Tissue Holder
  - ❑ LF -Left Front for C/R Toilet Orientation
  - ❑ RF -Right Front for L Toilet Orientation
- ❑ TH1__Single Towel Hook ❑ L ❑ R
- ❑ TH2__ Dual Towel Hook ❑ L ❑ R
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ MT Wall Template
- ❑ WS Wall Sleeve (Requires Accessible Chase)
- ❑ TG 12 Gauge Cabinet
- ❑ TSC Toilet Shipping Cover
- ❑ Other _____
- ❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By:_____ Date:_____ Company:_____
Wall Thickness:_____ Wall Type:_____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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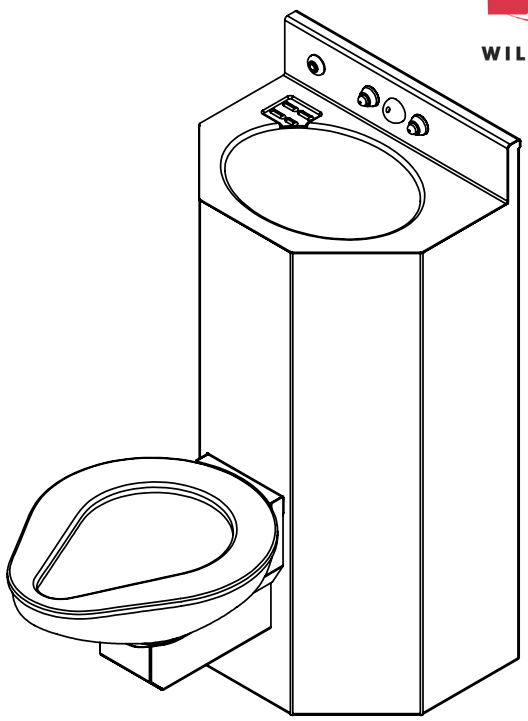


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1846 Series
18" Wide
Combination Units



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a wall outlet 18" combination unit with centered toilet, on floor, standard ligature-resistant filler/bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard ligature-resistant pneumatic push buttons, lav. elbow waste, lav. fast drain, toilet waste extension, 3" PVC waste coupling, hydraulic flush valve, flush valve connection, center recessed tissue holder, and wall sleeve

Use the following Willoughby Model Number:
ECW-1846-C-ON-BPH-1.6-PML2-PBH-EB-TWE-TWC3P-FV-FVT-RTHC-WS

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

Recommended Specifications

18" combination lavatory/toilet shall be:
Willoughby Model No. **EC__-1846**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:
- Oval-shaped bowl, 13" x 9-1/2" x 5-1/2" deep
- Stainless steel ligature-resistant bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" Plain End)
- Self-draining soap dish

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system. Ø1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Toilet Waste Location:
- ❑ ECW Wall Outlet
- ❑ ECF Floor Outlet

2.) Base Model Number:
- ❑ 1846 18" Lav-toilet Combination

3.) Toilet Orientation:
- ❑ L Angled Left
- ❑ R Angled Right
- ❑ C Centered

4.) Fixture Mounting:
- ❑ OF Off-Floor (ECW Only)
- ❑ ON On-Floor

5.) Bubbler Selection:
- ❑ BPH Ligature-resistant Bubbler/Filler (Standard)
- ❑ BC Code Bubbler/Filler (w/ Non Ligature-Resistant Mouth Guard)
- ❑ FLH Ligature-resistant Lav. Filler

6.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

7.) Lavatory Valve Selection:
- ❑ NV No Valve
- ❑ PSL1 Single Temp. Pneumatic Non-metering
- ❑ PSL2 Dual Temp. Pneumatic Non-metering
- ❑ PML1 Single Temp. Pneumatic Metering
- ❑ PML2 Dual Temp. Pneumatic Metering
- ❑ E1L1 Single Temp. Electronic (Pick Control)
- ❑ E1L2 Dual Temp. Electronic (Pick Control)

Valve Manifold Options:

Pneumatic or Electronic Only:

❑ MA2 ❑ MA3 ❑ MA4

8.) Lavatory Push Button Selection:
- ❑ PBH Ligature-resistant Pneumatic Push Buttons
- ❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

9.) Electronic Controls*
(Must Use Electronic Lavatory & Flush Valves):

❑ WUCC-3010 ❑Pneutronic ❑WMSII

10.) Lavatory Waste:
- ❑ EB Elbow Waste (1-1/2" Plain End) (Standard)
- ❑ PT Integral 'P'-Trap (1-1/2" Plain End)
- ❑ LWE Lavatory Waste Extension (Specify if more than 3")
- ❑ OV Lavatory Overflow
- ❑ CW1 Combined Waste w/o Clean-out
- ❑ CW2 Combined Waste w/ Clean-out
- ❑ LW1 Thru-Wall Extension, 'P'-Trap
- ❑ LW2 Thru-Wall Extension & Clean-out
- ❑ SLOW Slow Drain
- ❑ LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube
- ❑ LWC2 Coupling, 1-1/2" Tube to 1-1/2" PVC /Cast Iron

11.) Toilet Waste:
- ❑ GWC Gasketed Waste Connection (Standard on ECF)
- ❑ TWE Toilet Waste Extension (Standard on ECW)
- ❑ TW3 3" Clean-out for (TWE)
- ❑ TW4 Floor Outlet Waste Connection
- ❑ TW5 4" Clean-out for (TWE)
- ❑ PC3 Pinned Clean-out Plug PVC-3"
- ❑ PCB3 Pinned Clean-out Plug Brass-3"
- ❑ PC4 Pinned Clean-out Plug PVC-4"
- ❑ PCB4 Pinned Clean-out Plug Brass-4"
- ❑ COH4 4" Clean-out Hook, 4" PVC Plug
- ❑ COHB4 4" Clean-out Hook, 4" Brass Plug

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

12.) Waste Coupling for (TWE) Toilet Waste Extension:
- ❑ TWC3P Connecting to 3" PVC
- ❑ TWC3C Connecting to 3" Cast Iron
- ❑ TWC4P Connecting to 4" PVC
- ❑ TWC4C Connecting to 4" Cast Iron

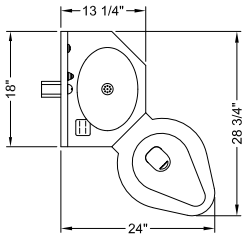
13.) Other Options:
- ❑ T4 Manual Reset Toilet Overflow Preventer, Req. (FV)
- ❑ T4A Auto Reset Toilet Overflow Preventer, Req. (FV)
- ❑ ET4 Electronic Toilet Overflow Preventer, Requires (EFV) & (WUCC-3010) or (WMSII)
- ❑ FV Hydraulic Flush Valve (Includes Push Button)
- ❑ EFVP Electronic Flush Valve w/ (PZPB) (Pick Control)
- ❑ TFE Toilet Flush Extension
- ❑ FVT Flush Valve Connection
- ❑ HS Hinged White Plastic Seat (Not recommended for Max. Security/Ligature-resistant use; No Cover)
- ❑ RTH__Recessed Tissue Holder ❑ L ❑ LF ❑ C ❑ RF ❑ R
- ❑ ISH Integral Shelf
- ❑ TB1__ Single Toothbrush Holder ❑ L ❑ R
- ❑ TB2__ Dual Toothbrush Holder
- ❑ TH1__ Single Towel Hook ❑ L ❑ LF ❑ C ❑ RF ❑ R
- ❑ TH2__ Dual Towel Hook ❑ L ❑ LF ❑ C ❑ RF ❑ R
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ VG Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in² free area) ❑ L ❑ LF ❑ RF ❑ R
- ❑ MT Wall Template
- ❑ WS Wall Sleeve (Requires Accessible Chase)
- ❑ SK Ligature-resistant Toilet Skirt, (ON) On-Floor Only
- ❑ TG 12 Gauge Cabinet
- ❑ TSC Toilet Shipping Cover
- ❑ Other _____
- ❑ Other _____

Approved For Manufacturing By:_____ Date:_____ Company:_____

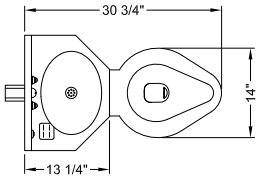
Wall Thickness:_____ Wall Type:_____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

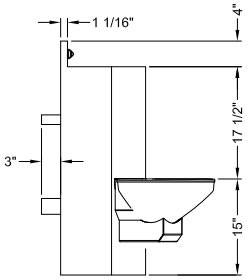
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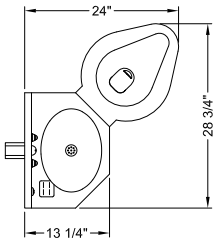
PLAN VIEW
LEFT HAND CONFIGURATION



PLAN VIEW
CENTER CONFIGURATION



SIDE VIEW



PLAN VIEW
RIGHT HAND CONFIGURATION

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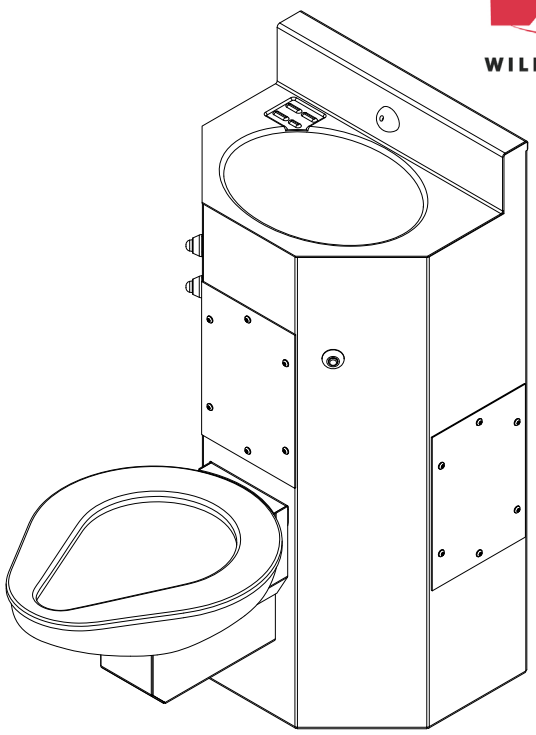
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Willoughby Industries - *Security Products*

1846-FA Series
Front Access
18" Wide
Combination Units



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a wall outlet front access 18" combination unit with centered toilet, standard ligature-resistant filler/bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard ligature-resistant pneumatic push buttons, removable lav. 'p' trap, lav. fast drain, standard gasketed waste connection, hydraulic flush valve, left recessed tissue holder (for Centered toilet), and wall template

Use the following Willoughby Model Number:
ECW-1846-FA-C-ON-BPH-1.6-PML2-PBH-RPT-GWC-FV-RTHL-MT

Recommended Specifications

Front access 18" combination lavatory/toilet shall be:
Willoughby Model No. **EC__-1846-FA**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish. Removable access panels, attached w/ security screws, shall provide access to fixture interior.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:
- Oval-shaped bowl, 13" x 9-1/2" x 5-1/2" deep
- Stainless steel ligature-resistant bubbler/filler
- Fast drain with air vent
- Removable slip-joint brass union 'P' trap (1-1/2" N.P.T.)
- Self-draining soap dish

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Cabinet interior shall be sound deadened with fire-resistant material.

Optionally selected lavatory valve and flush valve shall be factory installed inside fixture cabinet.

Anchoring shall be from the front, anchoring holes provided. Anchoring hardware provided by others. Standard unit requires no chase area for installation and maintenance, however certain non-standard options may require an accessible chase (see options list for details).

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Toilet Waste Location:
- ❑ ECW Wall Outlet
- ❑ ECF Floor Outlet

2.) Base Model Number:
- ❑ 1846-FA Front Access 18" Lav-toilet Combination

3.) Toilet Orientation:
- ❑ L Angled Left
- ❑ R Angled Right
- ❑ C Centered

4.) Fixture Mounting:
- ❑ ON On-Floor

5.) Bubbler Selection:
- ❑ BPH Ligature-resistant Bubbler/Filler (Standard)
- ❑ BC Code Bubbler/Filler (w/ Non Ligature-Resistant Mouth Guard)
- ❑ FLH Ligature-resistant Lav. Filler

6.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

7.) Lavatory Valve Selection:
- ❑ NV No Valve
- ❑ PSL1 Single Temp. Pneumatic Non-metering
- ❑ PSL2 Dual Temp. Pneumatic Non-metering
- ❑ PML1 Single Temp. Pneumatic Metering
- ❑ PML2 Dual Temp. Pneumatic Metering
- ❑ E1L1 Single Temp. Electronic (Pick Control)
- ❑ E1L2 Dual Temp. Electronic (Pick Control)

8.) Lavatory Push Button Selection:
- ❑ PBH Ligature-resistant Pneumatic Push Buttons
- ❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

9.) Electronic Controls*
(Must Use Electronic Lavatory & Flush Valves):
- ❑ WUCC-3010 ❑Pneutronic ❑WMSII

10.) Lavatory Waste:
- ❑ RPT Removable 'P'-Trap (1-1/2" N.P.T.) (Standard)
- ❑ OV Lavatory Overflow
- ❑ CW1 Combined Waste w/o Clean-out
- ❑ CW2 Combined Waste w/ Clean-out
- ❑ SLOW Slow Drain

11.) Toilet Waste:
- ❑ GWC Gasketed Waste Connection (Standard)
- ❑ TWE Toilet Waste Extension (Requires Accessible Chase)
- ❑ TW4 Floor Outlet Waste Connection

12.) Waste Coupling for (TWE) Toilet Waste Extension:
- ❑ TWC3P Connecting to 3" PVC
- ❑ TWC3C Connecting to 3" Cast Iron
- ❑ TWC4P Connecting to 4" PVC
- ❑ TWC4C Connecting to 4" Cast Iron

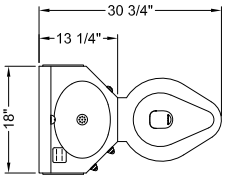
13.) Other Options:
- ❑ T4 Manual Reset Toilet Overflow Preventer, Req. (FV)
- ❑ T4A Auto Reset Toilet Overflow Preventer, Req. (FV)
- ❑ ET4 Electronic Toilet Overflow Preventer, Requires (EFV) & (WUCC-3010) or (WMSII)
- ❑ FV Hydraulic Flush Valve (Includes Push Button)
- ❑ EFVP Electronic Flush Valve w/ (PZPB) (Pick Control)
- ❑ HS Hinged White Plastic Seat (Not recommended for Max. Security/Ligature-resistant use; No Cover)
- ❑ RTH__Recessed Tissue Holder
  - ❑ L -Left Side Holder for C & R Toilet Orientation
  - ❑ R -Right Side Holder for L Toilet Orientation
- ❑ ISH Integral Shelf
- ❑ TB1__ Single Toothbrush Holder ❑ L ❑ R
- ❑ TB2__ Dual Toothbrush Holder
- ❑ TH1__ Single Towel Hook ❑ L ❑ LF ❑ C ❑ RF ❑ R
- ❑ TH2__ Dual Towel Hook ❑ L ❑ LF ❑ C ❑ RF ❑ R
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ VG Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in² free area) ❑ L ❑ LF ❑ RF ❑ R
- ❑ MT Wall Template
- ❑ WS Wall Sleeve (Requires Accessible Chase)
- ❑ SK Ligature-resistant Toilet Skirt
- ❑ TG 12 Gauge Cabinet
- ❑ TSC Toilet Shipping Cover
- ❑ Other _____
- ❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

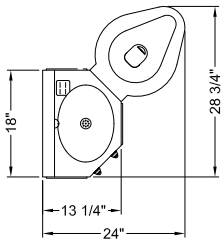
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Wall Thickness:_____ Wall Type:_____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

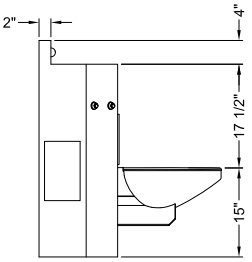
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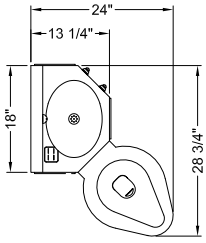
PLAN VIEW
CENTER CONFIGURATION



PLAN VIEW
RIGHT HAND CONFIGURATION



SIDE VIEW



PLAN VIEW
LEFT HAND CONFIGURATION

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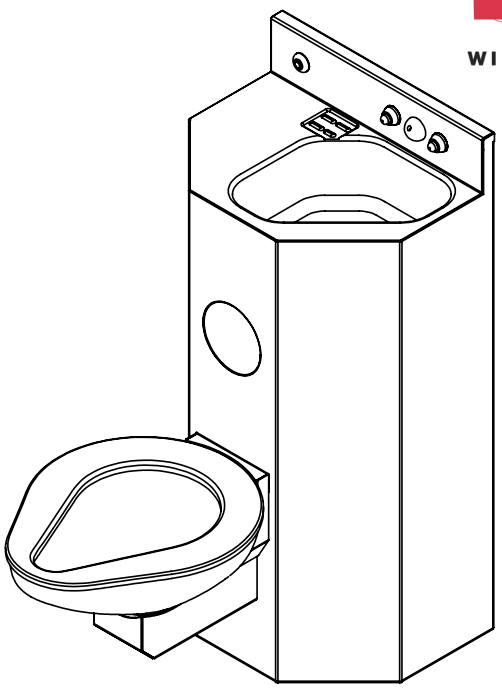
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Willoughby Industries - *Security Products*

WILLOUGHBY

1847 Series
18" Wide
Angled Lav. Bowl
Combination Units

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer



ANGLED RIGHT LAV. UNIT SHOWN
(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a wall outlet 18" combination unit with angled right lav. bowl, centered toilet, on floor, standard ligature-resistant filler/bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard ligature-resistant pneumatic push buttons, lav. elbow waste, lav. fast drain, toilet waste extension, 3" PVC waste coupling, hydraulic flush valve, flush valve connection, center recessed tissue holder, and wall sleeve

Use the following Willoughby Model Number:
ECW-1847-R-C-ON-BPH-1.6-PML2-PBH-EB-TWE-TWC3P-FV-FVT-RTHC-WS

Recommended Specifications

18" angled lav. bowl combination lavatory/toilet shall be:
Willoughby Model No. **EC__-1847**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:
- Multi-sided bowl, 12-3/4" x 8-1/4" x 5" deep
- Stainless steel ligature-resistant bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" Plain End)
- Self-draining soap dish

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system. Ø1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Toilet Waste Location:
- ❑ ECW Wall Outlet
- ❑ ECF Floor Outlet

2.) Base Model Number:
- ❑ 1847 18" Angled Lav-toilet Combination

3.) Lav. Bowl Orientation:
- ❑ L -Angled Left
- ❑ R -Angled Right

4.) Toilet Orientation:
- ❑ L -Angled Left
- ❑ R -Angled Right
- ❑ C -Centered

5.) Fixture Mounting:
- ❑ OF Off-Floor (ECW Only)
- ❑ ON On-Floor

6.) Bubbler Selection:
- ❑ BPH Ligature-resistant Bubbler/Filler (Standard)
- ❑ BC Code Bubbler/Filler (w/ Non Ligature-Resistant Mouth Guard)
- ❑ FLH Ligature-resistant Lav. Filler

6.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

8.) Lavatory Valve Selection:
- ❑ NV No Valve
- ❑ PSL1 Single Temp. Pneumatic Non-metering
- ❑ PSL2 Dual Temp. Pneumatic Non-metering
- ❑ PML1 Single Temp. Pneumatic Metering
- ❑ PML2 Dual Temp. Pneumatic Metering
- ❑ E1L1 Single Temp. Electronic (Pick Control)
- ❑ E1L2 Dual Temp. Electronic (Pick Control)

Valve Manifold Options:

Pneumatic or Electronic Only:

❑ MA2 ❑ MA3 ❑ MA4

9.) Lavatory Push Button Selection:
- ❑ PBH Ligature-resistant Pneumatic Push Buttons
- ❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

10.) Electronic Controls* **(Must Use Electronic Lavatory & Flush Valves):**

❑ WUCC-3010 ❑Pneutronic ❑WMSII

11.) Lavatory Waste:
- ❑ EB Elbow Waste (1-1/2" Plain End) (Standard)
- ❑ PT Integral 'P'-Trap (1-1/2" Plain End)
- ❑ LWE Lavatory Waste Extension (Specify if more than 3")
- ❑ OV Lavatory Overflow
- ❑ CW1 Combined Waste w/o Clean-out
- ❑ CW2 Combined Waste w/ Clean-out
- ❑ LW1 Thru-Wall Extension, 'P'-Trap
- ❑ LW2 Thru-Wall Extension & Clean-out
- ❑ SLOW Slow Drain
- ❑ LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube
- ❑ LWC2 Coupling, 1-1/2" Tube to 1-1/2" PVC /Cast Iron

12.) Toilet Waste:
- ❑ GWC Gasketed Waste Connection (Standard on ECF)
- ❑ TWE Toilet Waste Extension (Standard on ECW)
- ❑ TW3 3" Clean-out for (TWE)
- ❑ TW4 Floor Outlet Waste Connection
- ❑ TW5 4" Clean-out for (TWE)
- ❑ PC3 Pinned Clean-out Plug PVC-3"
- ❑ PCB3 Pinned Clean-out Plug Brass-3"
- ❑ PC4 Pinned Clean-out Plug PVC-4"
- ❑ PCB4 Pinned Clean-out Plug Brass-4"
- ❑ COH4 4" Clean-out Hook, 4" PVC Plug
- ❑ COHB4 4" Clean-out Hook, 4" Brass Plug

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

13.) Waste Coupling for (TWE) Toilet Waste Extension:
- ❑ TWC3P Connecting to 3" PVC
- ❑ TWC3C Connecting to 3" Cast Iron
- ❑ TWC4P Connecting to 4" PVC
- ❑ TWC4C Connecting to 4" Cast Iron

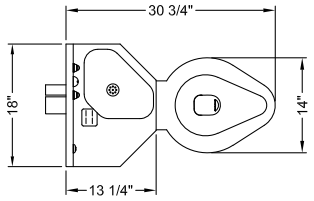
14.) Other Options:
- ❑ T4 Manual Reset Toilet Overflow Preventer, Req. (FV)
- ❑ T4A Auto Reset Toilet Overflow Preventer, Req. (FV)
- ❑ ET4 Electronic Toilet Overflow Preventer, Requires (EFV) & (WUCC-3010) or (WMSII)
- ❑ FV Hydraulic Flush Valve (Includes Push Button)
- ❑ EFVP Electronic Flush Valve w/ (PZPB) (Pick Control)
- ❑ TFE Toilet Flush Extension
- ❑ FVT Flush Valve Connection
- ❑ HS Hinged White Plastic Seat (Not recommended for Max. Security/Ligature-resistant use; No Cover)
- ❑ RTH__Recessed Tissue Holder ❑ L ❑ LF ❑ C ❑ RF ❑ R
- ❑ ISH Integral Shelf
- ❑ TB1__ Single Toothbrush Holder ❑ L ❑ R
- ❑ TB2__ Dual Toothbrush Holder
- ❑ TH1__ Single Towel Hook ❑ L ❑ LF ❑ RF ❑ R
- ❑ TH2__ Dual Towel Hook ❑ L ❑ LF ❑ RF ❑ R
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ VG Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in² free area) ❑ L ❑ LF ❑ RF ❑ R
- ❑ MT Wall Template
- ❑ WS Wall Sleeve (Requires Accessible Chase)
- ❑ SK Ligature-resistant Toilet Skirt, (ON) On-Floor Only
- ❑ TG 12 Gauge Cabinet
- ❑ TSC Toilet Shipping Cover
- ❑ FA Front Access (For use when no chase exists)
- ❑ Other _____

Approved For Manufacturing By:_____ Date:_____ Company:_____

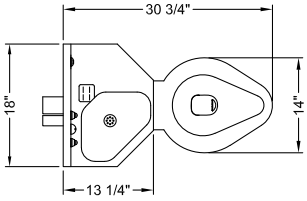
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VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

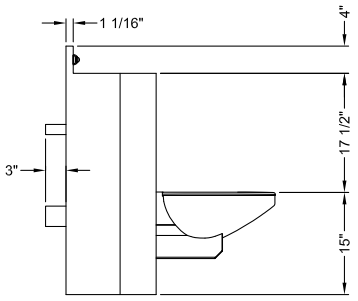
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RIGHT HAND LAV BOWL PLAN VIEW



LEFT HAND LAV BOWL PLAN VIEW



SIDE VIEW

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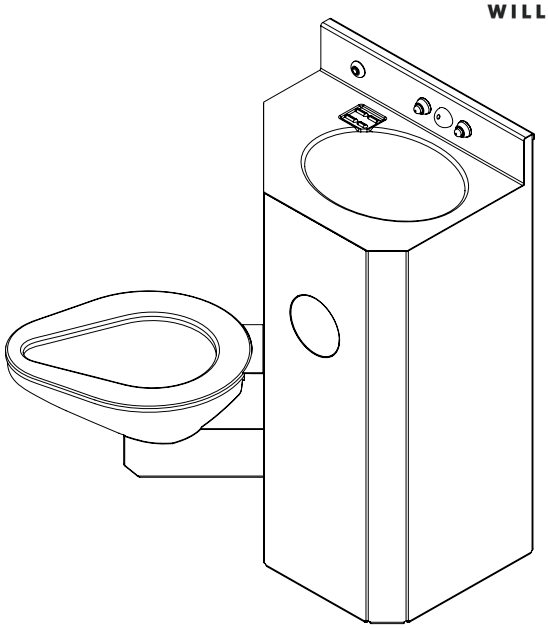
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Willoughby Industries - *Security Products*

WILLOUGHBY

2046 Series
20" Wide
Angled Toilet Bowl
Combination Units

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer



ANGLED LEFT TOILET UNIT SHOWN
(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a wall outlet 20" combination unit with angled left toilet, on floor, standard ligature-resistant filler/bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard ligature-resistant pneumatic push buttons, lav. elbow waste, lav. fast drain, toilet waste extension, 3" PVC waste coupling, hydraulic flush valve, flush valve connection, center recessed tissue holder, and wall sleeve

Use the following Willoughby Model Number:
ECW-2046-L-ON-BPH-1.6-PML2-PBH-EB-TWE-TWC3P-FV-FVT-RTHC-WS

Recommended Specifications

20" angled toilet bowl combination lavatory/toilet shall be:
Willoughby Model No. **EC__-2046**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:
- Oval-shaped bowl, 13" x 9-1/2" x 6" deep
- Stainless steel ligature-resistant bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" Plain End)
- Self-draining soap dish

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system. Ø1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Toilet Waste Location:
- ❑ ECW Wall Outlet
- ❑ ECF Floor Outlet

2.) Base Model Number:
- ❑ 2046 20" Angled Lav-toilet Combination

3.) Toilet Orientation:
- ❑ L Angled Left
- ❑ R Angled Right

4.) Fixture Mounting:
- ❑ OF Off-Floor (ECW Only)
- ❑ ON On-Floor

5.) Bubbler Selection:
- ❑ BPH Ligature-resistant Bubbler/Filler (Standard)
- ❑ BC Code Bubbler/Filler (w/ Non Ligature-Resistant Mouth Guard)
- ❑ FLH Ligature-resistant Lav. Filler

6.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

7.) Lavatory Valve Selection:
- ❑ NV No Valve
- ❑ PSL1 Single Temp. Pneumatic Non-metering
- ❑ PSL2 Dual Temp. Pneumatic Non-metering
- ❑ PML1 Single Temp. Pneumatic Metering
- ❑ PML2 Dual Temp. Pneumatic Metering
- ❑ E1L1 Single Temp. Electronic (Pick Control)
- ❑ E1L2 Dual Temp. Electronic (Pick Control)

Valve Manifold Options:

Pneumatic or Electronic Only:

❑ MA2 ❑ MA3 ❑ MA4

8.) Lavatory Push Button Selection:
- ❑ PBH Ligature-resistant Pneumatic Push Buttons
- ❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

9.) Electronic Controls*
(Must Use Electronic Lavatory & Flush Valves):

❑ WUCC-3010 ❑Pneutronic ❑WMSII

10.) Lavatory Waste:
- ❑ EB Elbow Waste (1-1/2" Plain End) (Standard)
- ❑ PT Integral 'P'-Trap (1-1/2" Plain End)
- ❑ LWE Lavatory Waste Extension (Specify if more than 3")
- ❑ OV Lavatory Overflow
- ❑ CW1 Combined Waste w/o Clean-out
- ❑ CW2 Combined Waste w/ Clean-out
- ❑ LW1 Thru-Wall Extension, 'P'-Trap
- ❑ LW2 Thru-Wall Extension & Clean-out
- ❑ SLOW Slow Drain
- ❑ LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube
- ❑ LWC2 Coupling, 1-1/2" Tube to 1-1/2" PVC /Cast Iron

11.) Toilet Waste:
- ❑ GWC Gasketed Waste Connection (Standard on ECF)
- ❑ TWE Toilet Waste Extension (Standard on ECW)
- ❑ TW3 3" Clean-out for (TWE)
- ❑ TW4 Floor Outlet Waste Connection
- ❑ TW5 4" Clean-out for (TWE)
- ❑ PC3 Pinned Clean-out Plug PVC-3"
- ❑ PCB3 Pinned Clean-out Plug Brass-3"
- ❑ PC4 Pinned Clean-out Plug PVC-4"
- ❑ PCB4 Pinned Clean-out Plug Brass-4"
- ❑ COH4 4" Clean-out Hook, 4" PVC Plug
- ❑ COHB4 4" Clean-out Hook, 4" Brass Plug

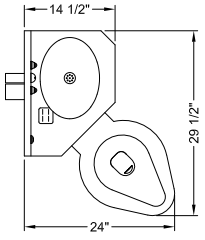
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

12.) Waste Coupling for (TWE) Toilet Waste Extension:
- ❑ TWC3P Connecting to 3" PVC
- ❑ TWC3C Connecting to 3" Cast Iron
- ❑ TWC4P Connecting to 4" PVC
- ❑ TWC4C Connecting to 4" Cast Iron

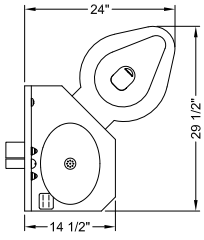
13.) Other Options:
- ❑ T4 Manual Reset Toilet Overflow Preventer, Req. (FV)
- ❑ T4A Auto Reset Toilet Overflow Preventer, Req. (FV)
- ❑ ET4 Electronic Toilet Overflow Preventer, Requires (EFV) & (WUCC-3010) or (WMSII)
- ❑ FV Hydraulic Flush Valve (Includes Push Button)
- ❑ EFVP Electronic Flush Valve w/ (PZPB) (Pick Control)
- ❑ TFE Toilet Flush Extension
- ❑ FVT Flush Valve Connection
- ❑ HS Hinged White Plastic Seat (Not recommended for Max. Security/Ligature-resistant use; No Cover)
- ❑ RTH__Recessed Tissue Holder ❑ L ❑ LF ❑ C ❑ RF ❑ R
- ❑ ISH Integral Shelf
- ❑ TB1__ Single Toothbrush Holder ❑ L ❑ R
- ❑ TB2__ Dual Toothbrush Holder
- ❑ TH1__ Single Towel Hook ❑ L ❑ LF ❑ C ❑ RF ❑ R
- ❑ TH2__Dual Towel Hook ❑ L ❑ LF ❑ C ❑ RF ❑ R
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ VG Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in^2 free area) ❑ L ❑ C ❑ R
- ❑ MT Wall Template
- ❑ WS Wall Sleeve (Requires Accessible Chase)
- ❑ SK Ligature-resistant Toilet Skirt, (ON) On-Floor Only
- ❑ TG 12 Gauge Cabinet
- ❑ TSC Toilet Shipping Cover
- ❑ FA Front Access (For use when no chase exists)
- ❑ Other _____

Approved For Manufacturing By:_____ Date:_____ Company:_____

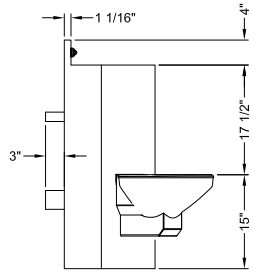
Wall Thickness:_____ Wall Type:_____



PLAN VIEW
LEFT HAND CONFIGURATION



PLAN VIEW
RIGHT HAND CONFIGURATION



SIDE VIEW

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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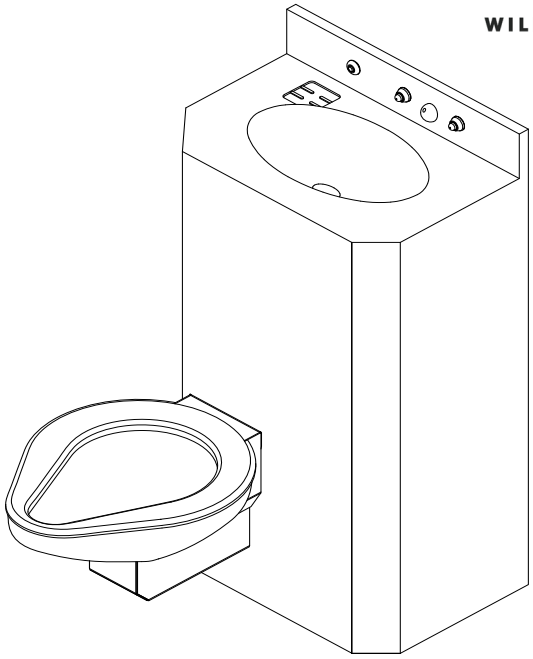
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Willoughby Industries - *Security Products*

2096 Series
20" Wide
Offset Toilet Bowl
Combination Units



OFFSET LEFT TOILET UNIT SHOWN
(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a wall outlet 20" combination unit with offset left toilet, on floor, standard ligature-resistant filler/bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard ligature-resistant pneumatic push buttons, lav. elbow waste, lav. fast drain, toilet waste extension, 3" PVC waste coupling, hydraulic flush valve, flush valve connection, and wall sleeve

Use the following Willoughby Model Number:
ECW-2096-L-ON-BPH-1.6-PML2-PBH-EB-TWE-TWC3P-FV-FVT-WS

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

Recommended Specifications

20" offset toilet bowl combination lavatory/toilet shall be:
Willoughby Model No. **EC__-2096**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:
- Oval-shaped bowl, 13" x 9-1/2" x 6" deep
- Stainless steel ligature-resistant bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" Plain End)
- Self-draining soap dish

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system. Ø1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Toilet Waste Location:
- ❑ ECW Wall Outlet
- ❑ ECF Floor Outlet

2.) Base Model Number:
- ❑ 2096 20" Offset Lav-toilet Combination

3.) Toilet Orientation:
- ❑ L Offset Left
- ❑ R Offset Right

4.) Fixture Mounting:
- ❑ OF Off-Floor (ECW Only)
- ❑ ON On-Floor

5.) Bubbler Selection:
- ❑ BPH Ligature-resistant Bubbler/Filler (Standard)
- ❑ BC Code Bubbler/Filler (w/ Non Ligature-Resistant Mouth Guard)
- ❑ FLH Ligature-resistant Lav. Filler

6.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

7.) Lavatory Valve Selection:
- ❑ NV No Valve
- ❑ PSL1 Single Temp. Pneumatic Non-metering
- ❑ PSL2 Dual Temp. Pneumatic Non-metering
- ❑ PML1 Single Temp. Pneumatic Metering
- ❑ PML2 Dual Temp. Pneumatic Metering
- ❑ E1L1 Single Temp. Electronic (Pick Control)
- ❑ E1L2 Dual Temp. Electronic (Pick Control)

Valve Manifold Options:

Pneumatic or Electronic Only:

❑ MA2 ❑ MA3 ❑ MA4

8.) Lavatory Push Button Selection:
- ❑ PBH Ligature-resistant Pneumatic Push Buttons
- ❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

9.) Electronic Controls*
(Must Use Electronic Lavatory & Flush Valves):

❑ WUCC-3010 ❑Pneutronic ❑WMSII

10.) Lavatory Waste:
- ❑ EB Elbow Waste (1-1/2" Plain End) (Standard)
- ❑ PT Integral 'P'-Trap (1-1/2" Plain End)
- ❑ LWE Lavatory Waste Extension (Specify if more than 3")
- ❑ OV Lavatory Overflow
- ❑ CW1 Combined Waste w/o Clean-out
- ❑ CW2 Combined Waste w/ Clean-out
- ❑ LW1 Thru-Wall Extension, 'P'-Trap
- ❑ LW2 Thru-Wall Extension & Clean-out
- ❑ SLOW Slow Drain
- ❑ LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube
- ❑ LWC2 Coupling, 1-1/2" Tube to 1-1/2" PVC /Cast Iron

11.) Toilet Waste:
- ❑ GWC Gasketed Waste Connection (Standard on ECF)
- ❑ TWE Toilet Waste Extension (Standard on ECW)
- ❑ TW3 3" Clean-out for (TWE)
- ❑ TW4 Floor Outlet Waste Connection
- ❑ TW5 4" Clean-out for (TWE)
- ❑ PC3 Pinned Clean-out Plug PVC-3"
- ❑ PCB3 Pinned Clean-out Plug Brass-3"
- ❑ PC4 Pinned Clean-out Plug PVC-4"
- ❑ PCB4 Pinned Clean-out Plug Brass-4"
- ❑ COH4 4" Clean-out Hook, 4" PVC Plug
- ❑ COHB4 4" Clean-out Hook, 4" Brass Plug

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

12.) Waste Coupling for (TWE) Toilet Waste Extension:
- ❑ TWC3P Connecting to 3" PVC
- ❑ TWC3C Connecting to 3" Cast Iron
- ❑ TWC4P Connecting to 4" PVC
- ❑ TWC4C Connecting to 4" Cast Iron

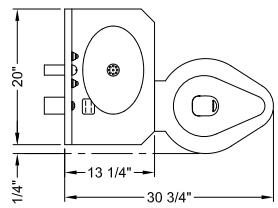
13.) Other Options:
- ❑ T4 Manual Reset Toilet Overflow Preventer, Req. (FV)
- ❑ T4A Auto Reset Toilet Overflow Preventer, Req. (FV)
- ❑ ET4 Electronic Toilet Overflow Preventer, Requires (EFV) & (WUCC-3010) or (WMSII)
- ❑ FV Hydraulic Flush Valve (Includes Push Button)
- ❑ EFVP Electronic Flush Valve w/ (PZPB) (Pick Control)
- ❑ TFE Toilet Flush Extension
- ❑ FVT Flush Valve Connection
- ❑ HS Hinged White Plastic Seat (Not recommended for Max. Security/Ligature-resistant use; No Cover)
- ❑ RTH__Recessed Tissue Holder ❑ L ❑ LF ❑ RF ❑ R
- ❑ ISH Integral Shelf
- ❑ TB1__ Single Toothbrush Holder ❑ L ❑ R
- ❑ TB2__ Dual Toothbrush Holder
- ❑ TH1__ Single Towel Hook ❑ L ❑ LF ❑ RF ❑ R
- ❑ TH2__ Dual Towel Hook ❑ L ❑ LF ❑ RF ❑ R
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ VG Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in² free area) ❑ L ❑ LF ❑ RF ❑ R
- ❑ MT Wall Template
- ❑ WS Wall Sleeve (Requires Accessible Chase)
- ❑ SK Ligature-resistant Toilet Skirt, (ON) On-Floor Only
- ❑ TG 12 Gauge Cabinet
- ❑ TSC Toilet Shipping Cover
- ❑ FA Front Access (For use when no chase exists)
- ❑ Other _____

Approved For Manufacturing By:_____ Date:_____ Company:_____

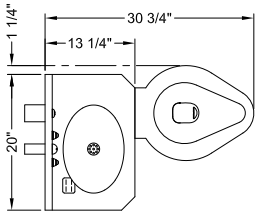
Wall Thickness:_____ Wall Type:_____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

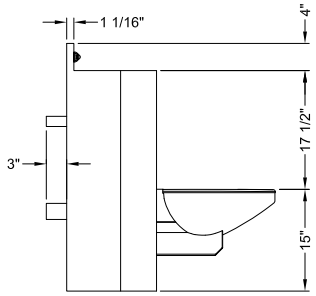
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PLAN VIEW
LEFT HAND CONFIGURATION



PLAN VIEW
RIGHT HAND CONFIGURATION



SIDE VIEW

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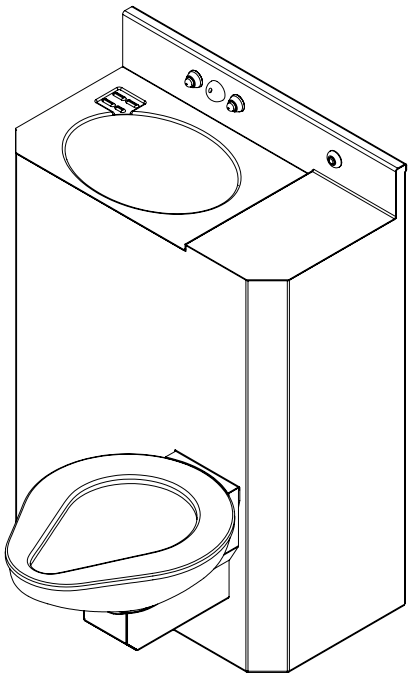
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Willoughby Industries - *Security Products*

2696 Series
26" Wide
Offset Toilet Bowl
Combination Units



OFFSET RIGHT TOILET UNIT SHOWN
(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a wall outlet 26" combination unit with offset right toilet, on floor, standard ligature-resistant filler/bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard ligature-resistant pneumatic push buttons, lav. elbow waste, lav. fast drain, toilet waste extension, 3" PVC waste coupling, hydraulic flush valve, flush valve connection, and wall sleeve

Use the following Willoughby Model Number:
ECW-2696-R-ON-BPH-1.6-PML2-PBH-EB-TWE-TWC3P-FV-FVT-WS

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

Recommended Specifications

26" offset toilet bowl combination lavatory/toilet shall be:
Willoughby Model No. **EC__-2696**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:
- Oval-shaped bowl, 13" x 9-1/2" x 6" deep
- Stainless steel ligature-resistant bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" Plain End)
- Self-draining soap dish

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system. Ø1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

WARNING: Cancer and Reproductive Harm
- www.P65Warnings.ca.gov

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MODEL NUMBER AND OPTIONS:

1.) Toilet Waste Location:
- ❑ ECW Wall Outlet
- ❑ ECF Floor Outlet

2.) Base Model Number:
- ❑ 2696 26" Offset Lav-toilet Combination

3.) Toilet Orientation:
- ❑ L Offset Left
- ❑ R Offset Right

4.) Fixture Mounting:
- ❑ OF Off-Floor (ECW Only)
- ❑ ON On-Floor

5.) Bubbler Selection:
- ❑ BPH Ligature-resistant Bubbler/Filler (Standard)
- ❑ BC Code Bubbler/Filler (w/ Non Ligature-Resistant Mouth Guard)
- ❑ FLH Ligature-resistant Lav. Filler

6.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

7.) Lavatory Valve Selection:
- ❑ NV No Valve
- ❑ PSL1 Single Temp. Pneumatic Non-metering
- ❑ PSL2 Dual Temp. Pneumatic Non-metering
- ❑ PML1 Single Temp. Pneumatic Metering
- ❑ PML2 Dual Temp. Pneumatic Metering
- ❑ E1L1 Single Temp. Electronic (Pick Control)
- ❑ E1L2 Dual Temp. Electronic (Pick Control)

Valve Manifold Options:

Pneumatic or Electronic Only:

❑ MA2 ❑ MA3 ❑ MA4

8.) Lavatory Push Button Selection:
- ❑ PBH Ligature-resistant Pneumatic Push Buttons
- ❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

9.) Electronic Controls*
(Must Use Electronic Lavatory & Flush Valves):

❑ WUCC-3010 ❑Pneutronic ❑WMSII

10.) Lavatory Waste:
- ❑ EB Elbow Waste (1-1/2" Plain End) (Standard)
- ❑ PT Integral 'P'-Trap (1-1/2" Plain End)
- ❑ LWE Lavatory Waste Extension (Specify if more than 3")
- ❑ OV Lavatory Overflow
- ❑ CW1 Combined Waste w/o Clean-out
- ❑ CW2 Combined Waste w/ Clean-out
- ❑ LW1 Thru-Wall Extension, 'P'-Trap
- ❑ LW2 Thru-Wall Extension & Clean-out
- ❑ SLOW Slow Drain
- ❑ LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube
- ❑ LWC2 Coupling, 1-1/2" Tube to 1-1/2" PVC /Cast Iron

11.) Toilet Waste:
- ❑ GWC Gasketed Waste Connection (Standard on ECF)
- ❑ TWE Toilet Waste Extension (Standard on ECW)
- ❑ TW3 3" Clean-out for (TWE)
- ❑ TW4 Floor Outlet Waste Connection
- ❑ TW5 4" Clean-out for (TWE)
- ❑ PC3 Pinned Clean-out Plug PVC-3"
- ❑ PCB3 Pinned Clean-out Plug Brass-3"
- ❑ PC4 Pinned Clean-out Plug PVC-4"
- ❑ PCB4 Pinned Clean-out Plug Brass-4"
- ❑ COH4 4" Clean-out Hook, 4" PVC Plug
- ❑ COHB4 4" Clean-out Hook, 4" Brass Plug

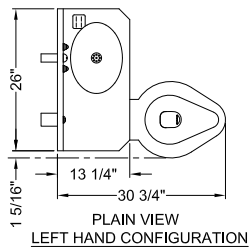
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

12.) Waste Coupling for (TWE) Toilet Waste Extension:
- ❑ TWC3P Connecting to 3" PVC
- ❑ TWC3C Connecting to 3" Cast Iron
- ❑ TWC4P Connecting to 4" PVC
- ❑ TWC4C Connecting to 4" Cast Iron

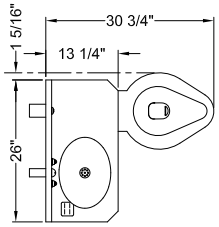
13.) Other Options:
- ❑ T4 Manual Reset Toilet Overflow Preventer, Req. (FV)
- ❑ T4A Auto Reset Toilet Overflow Preventer, Req. (FV)
- ❑ ET4 Electronic Toilet Overflow Preventer, Requires (EFV) & (WUCC-3010) or (WMSII)
- ❑ FV Hydraulic Flush Valve (Includes Push Button)
- ❑ EFVP Electronic Flush Valve w/ (PZPB) (Pick Control)
- ❑ TFE Toilet Flush Extension
- ❑ FVT Flush Valve Connection
- ❑ HS Hinged White Plastic Seat (Not recommended for Max. Security/Ligature-resistant use; No Cover)
- ❑ RTH__Recessed Tissue Holder ❑ L ❑ LF ❑ R ❑ RF
- ❑ ISH Integral Shelf
- ❑ TB1__ Single Toothbrush Holder ❑ L ❑ R
- ❑ TB2__ Dual Toothbrush Holder
- ❑ TH1__ Single Towel Hook ❑ L ❑ LF ❑ RF ❑ R
- ❑ TH2__ Dual Towel Hook ❑ L ❑ LF ❑ RF ❑ R
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ VG Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in^2 free area) ❑ L ❑ LF ❑ RF ❑ R
- ❑ MT Wall Template
- ❑ WS Wall Sleeve (Requires Accessible Chase)
- ❑ SK Ligature-resistant Toilet Skirt, (ON) On-Floor Only
- ❑ TG 12 Gauge Cabinet
- ❑ TSC Toilet Shipping Cover
- ❑ FA Front Access (For use when no chase exists)
- ❑ Other _____

Approved For Manufacturing By:_____ Date:_____ Company:_____

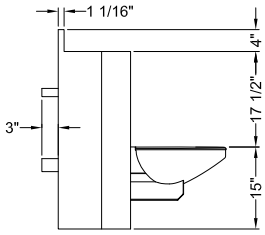
Wall Thickness:_____ Wall Type:_____



PLAIN VIEW
LEFT HAND CONFIGURATION



PLAIN VIEW
RIGHT HAND CONFIGURATION



SIDE VIEW

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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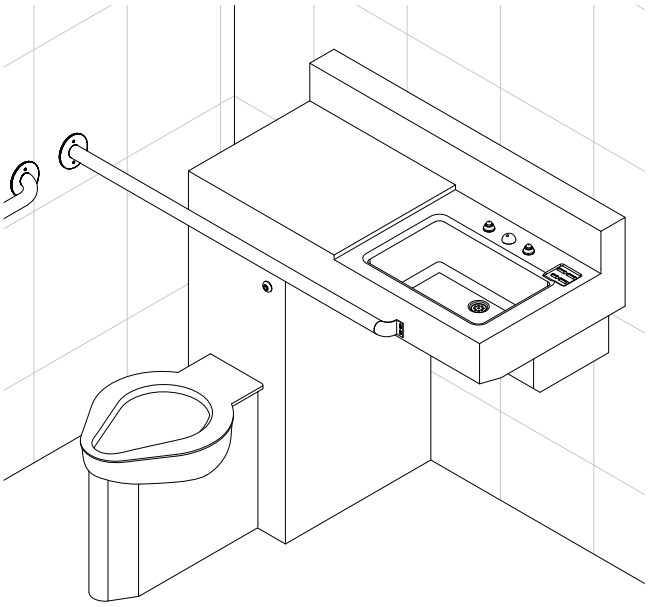
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Willoughby Industries - *Security Products*

WILLOUGHBY

3696 Series
Handicap-ADA Compliant*
36" Wide (for 90º Chase)
Combination Units



OFFSET LEFT UNIT SHOWN
(Unit shown with optional features; (GB4296) ADA grab is not included standard*)

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010 & CBC 2016, 11B*

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a wall outlet 36" handicap combination unit with offset left toilet, on floor, standard ligature-resistant deck mounted bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard ligature-resistant pneumatic push buttons, lav. elbow waste, lav. fast drain, toilet waste extension, 3" PVC waste coupling, 42" ADA grab bar, hydraulic flush valve, flush valve connection, and wall sleeve

Use the following Willoughby Model Number:
ECW-3696-L-ON-DMBH-1.6-PML2-PBH-EB-TWE-TWC3P-GB4296-FV-FVT-WS

Recommended Specifications

36" handicap-ADA compliant* combination lavatory/toilet shall be:
Willoughby Model No. **EC__-3696**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:
- Rectangular-shaped bowl, 14" x 9-1/2" x 4-3/8" deep
- Stainless steel ligature-resistant bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" Plain End)
- Self-draining soap dish
- Ligature-resistant toilet skirt

Fixture shall withstand loadings of 5,000 lbs. without permanent damage. Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 6-point system. Ø1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

***1.) ADA Compliance requires the addition of Grab Bar #(GB4296); see Section *S11-SUPPLEMENTAL INFORMATION* for 3696 Series ADA Diagram.**
2.) (RTH)- Recessed Tissue Holder option is not ADA Compliant.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Toilet Waste Location:
- ❑ ECW Wall Outlet
- ❑ ECF Floor Outlet

2.) Base Model Number:
- ❑ 3696 36" Handicap* Lav-toilet Combination

3.) Toilet Orientation:
- ❑ L Offset Left
- ❑ R Offset Right

4.) Fixture Mounting:
- ❑ OF Off-Floor (ECW Only, no ligature-resistant toilet skirt)
- ❑ ON On-Floor

5.) Bubbler Selection:
- ❑ DMBH Ligature-resistant Deck Mounted Bubbler (Standard)

6.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

7.) Lavatory Valve Selection:
- ❑ NV No Valve
- ❑ PSL1 Single Temp. Pneumatic Non-metering
- ❑ PSL2 Dual Temp. Pneumatic Non-metering
- ❑ PML1 Single Temp. Pneumatic Metering
- ❑ PML2 Dual Temp. Pneumatic Metering
- ❑ E1L1 Single Temp. Electronic (Pick Control)
- ❑ E1L2 Dual Temp. Electronic (Pick Control)

Valve Manifold Options:

Pneumatic or Electronic Only:

❑ MA2 ❑ MA3 ❑ MA4

8.) Lavatory Push Button Selection:
- ❑ PBH Ligature-resistant Pneumatic Push Buttons
- ❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

9.) Electronic Controls*
(Must Use Electronic Lavatory & Flush Valves):

❑ WUCC-3010 ❑Pneutronic ❑WMSII

10.) Lavatory Waste:
- ❑ EB Elbow Waste (1-1/2" Plain End) (Standard)
- ❑ PT Integral 'P'-Trap (1-1/2" Plain End)
- ❑ LWE Lavatory Waste Extension (Specify if more than 3")
- ❑ OV Lavatory Overflow
- ❑ CW1 Combined Waste w/o Clean-out
- ❑ CW2 Combined Waste w/ Clean-out
- ❑ LW1 Thru-Wall Extension, 'P'-Trap
- ❑ LW2 Thru-Wall Extension & Clean-out
- ❑ SLOW Slow Drain
- ❑ LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube
- ❑ LWC2 Coupling, 1-1/2" Tube to 1-1/2" PVC /Cast Iron

11.) Toilet Waste:
- ❑ GWC Gasketed Waste Connection (Standard on ECF)
- ❑ TWE Toilet Waste Extension (Standard on ECW)
- ❑ TW3 3" Clean-out for (TWE)
- ❑ TW4 Floor Outlet Waste Connection
- ❑ TW5 4" Clean-out for (TWE)
- ❑ PC3 Pinned Clean-out Plug PVC-3"
- ❑ PCB3 Pinned Clean-out Plug Brass-3"
- ❑ PC4 Pinned Clean-out Plug PVC-4"
- ❑ PCB4 Pinned Clean-out Plug Brass-4"
- ❑ COH4 4" Clean-out Hook, 4" PVC Plug
- ❑ COHB4 4" Clean-out Hook, 4" Brass Plug

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

12.) Waste Coupling for (TWE) Toilet Waste Extension:
- ❑ TWC3P Connecting to 3" PVC
- ❑ TWC3C Connecting to 3" Cast Iron
- ❑ TWC4P Connecting to 4" PVC
- ❑ TWC4C Connecting to 4" Cast Iron

13.) Grab Bar Option:

❑ GB4296 42" ADA Grab Bar **(Req. for ADA Compliance)***

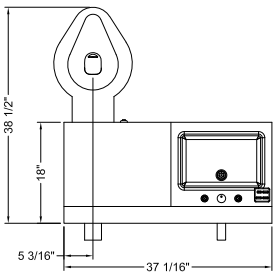
14.) Other Options:
- ❑ T4 Manual Reset Toilet Overflow Preventer, Req. (FV)
- ❑ T4A Auto Reset Toilet Overflow Preventer, Req. (FV)
- ❑ ET4 Electronic Toilet Overflow Preventer, Requires (EFV) & (WUCC-3010) or (WMSII)
- ❑ FV Hydraulic Flush Valve (Includes Push Button)
- ❑ EFVP Electronic Flush Valve w/ (PZPB) (Pick Control)
- ❑ TFE Toilet Flush Extension
- ❑ FVT Flush Valve Connection
- ❑ HS Hinged White Plastic Seat (Not recommended for Max. Security/Ligature-resistant use; No Cover)
- ❑ RTH Recessed Tissue Holder **(Not ADA Compliant)** (Underneath Lav. Bowl)
- ❑ TB1 Single Toothbrush Holder (Opposite Toilet)
- ❑ TB2 Dual Toothbrush Holder (Opposite Toilet)
- ❑ TH1 Single Towel Hook (Opposite Toilet)
- ❑ TH2 Dual Towel Hook (Opposite Toilet)
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ VG Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in² free area) ❑ L ❑ R
- ❑ MT Wall Template
- ❑ WS Wall Sleeve (Requires Accessible Chase)
- ❑ LSK Less Ligature-resistant Toilet Skirt
- ❑ TG 12 Gauge Cabinet
- ❑ TSC Toilet Shipping Cover
- ❑ DFBH Ligature-resistant DM Drinking Fountain Bubbler** **(Panel Mounted Push Button)
- ❑ Other _____

Approved For Manufacturing By:_____ Date:_____ Company:_____

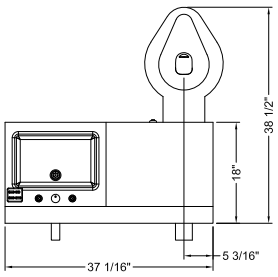
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VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

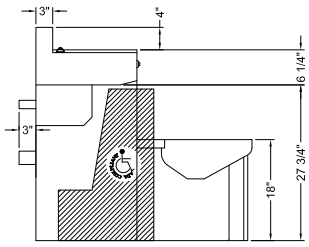
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RIGHT HAND CONFIGURATION



PLAN VIEW
LEFT HAND CONFIGURATION



SIDE VIEW

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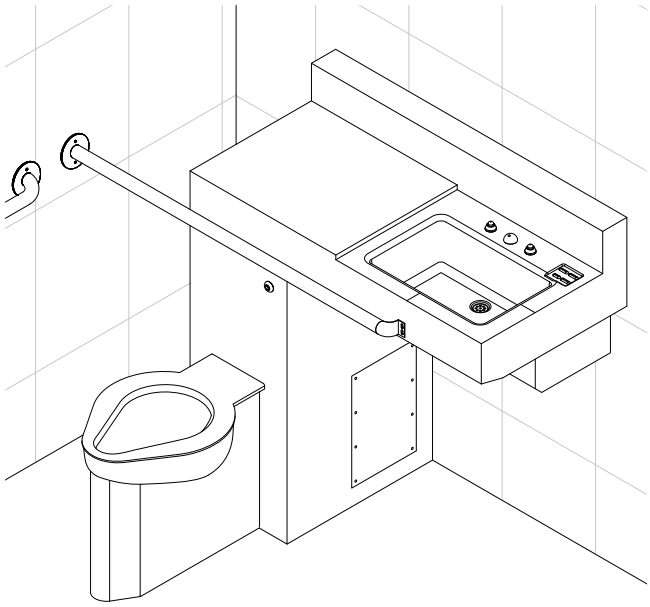
Willoughby Industries - *Security Products*

WILLOUGHBY

3696-FA Series
Front Access
Handicap-ADA Compliant*
36" Wide (for 90° Chase)
Combination Units

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010 & CBC 2016, 11B*



OFFSET LEFT UNIT SHOWN
(Unit shown with optional features; (GB4296) ADA grab is not included standard*)

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify a wall outlet front access 36" handicap combination unit with offset left toilet, standard ligature-resistant deck mounted bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard ligature-resistant pneumatic push buttons, removable lav. 'p' trap, lav. fast drain, standard gasketed waste connection, 42" ADA grab bar, hydraulic flush valve, and wall template

Use the following Willoughby Model Number:
ECW-3696-FA-L-ON-DMBH-1.6-PML2-PBH-RPT-GWC-GB4296-FV-MT

Recommended Specifications

Front access 36" handicap-ADA compliant* combination lavatory/toilet shall be: Willoughby Model No. **EC__-3696-FA**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish. Removable access panels, attached w/ security screws shall provide access to fixture interior.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:
- Rectangular-shaped bowl, 14" x 9-1/2" x 4-3/8" deep
- Stainless steel ligature-resistant bubbler/filler
- Fast drain with air vent
- Removable slip-joint brass union 'P' trap (1-1/2" N.P.T.)
- Self-draining soap dish
- Ligature-resistant toilet skirt

Fixture shall withstand loadings of 5,000 lbs. without permanent damage. Cabinet interior shall be sound deadened with fire-resistant material. Optionally selected lavatory valve and flush valve shall be factory installed inside fixture cabinet.

Anchoring shall be from the front, anchoring holes provided. Anchoring hardware provided by others. Standard unit requires no chase area for installation and maintenance, however certain non-standard options may require an accessible chase (see options list for details).

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

***1.) ADA Compliance requires the addition of Grab Bar #(GB4296); see Section *S11-SUPPLEMENTAL INFORMATION* for 3696 Series ADA Diagram.**
2.) (RTH)- Recessed Tissue Holder option is not ADA Compliant.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Toilet Waste Location:
- ❑ ECW Wall Outlet
- ❑ ECF Floor Outlet

2.) Base Model Number:
- ❑ 3696-FA 36" Front Access Handicap* Lav-toilet Combination

3.) Toilet Orientation:
- ❑ L Offset Left
- ❑ R Offset Right

4.) Fixture Mounting:
- ❑ ON On-Floor

5.) Bubbler Selection:
- ❑ DMBH Ligature-resistant Deck Mounted Bubbler (Standard)

6.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

7.) Lavatory Valve Selection:
- ❑ NV No Valve
- ❑ PSL1 Single Temp. Pneumatic Non-metering
- ❑ PSL2 Dual Temp. Pneumatic Non-metering
- ❑ PML1 Single Temp. Pneumatic Metering
- ❑ PML2 Dual Temp. Pneumatic Metering
- ❑ E1L1 Single Temp. Electronic (Pick Control)
- ❑ E1L2 Dual Temp. Electronic (Pick Control)

8.) Lavatory Push Button Selection:
- ❑ PBH Ligature-resistant Pneumatic Push Buttons
- ❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

9.) Electronic Controls*
(Must Use Electronic Lavatory & Flush Valves):
- ❑ WUCC-3010 ❑Pneutronic ❑WMSII

10.) Lavatory Waste:
- ❑ RPT Removable 'P'-Trap (1-1/2" N.P.T.) (Standard)
- ❑ OV Lavatory Overflow
- ❑ CW1 Combined Waste w/o Clean-out
- ❑ CW2 Combined Waste w/ Clean-out
- ❑ SLOW Slow Drain

11.) Toilet Waste:
- ❑ GWC Gasketed Waste Connection (Standard)
- ❑ TWE Toilet Waste Extension (Requires Accessible Chase)
- ❑ TW4 Floor Outlet Waste Connection

12.) Waste Coupling for (TWE) Toilet Waste Extension:
- ❑ TWC3P Connecting to 3" PVC
- ❑ TWC3C Connecting to 3" Cast Iron
- ❑ TWC4P Connecting to 4" PVC
- ❑ TWC4C Connecting to 4" Cast Iron

13.) Grab Bar Options:
- ❑ GB4296 42" ADA Grab Bar **(Req. for ADA Compliance)***

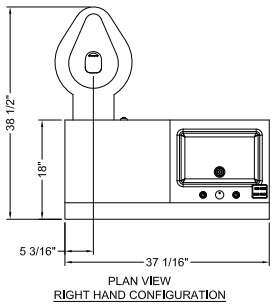
14.) Other Options:
- ❑ T4 Manual Reset Toilet Overflow Preventer, Req. (FV)
- ❑ T4A Auto Reset Toilet Overflow Preventer, Req. (FV)
- ❑ ET4 Electronic Toilet Overflow Preventer, Requires (EFV) & (WUCC-3010) or (WMSII)
- ❑ FV Hydraulic Flush Valve (Includes Push Button)
- ❑ EFVP Electronic Flush Valve w/ (PZPB) (Pick Control)
- ❑ HS Hinged White Plastic Seat (Not recommended for Max. Security/Ligature-resistant use; No Cover)
- ❑ RTH Recessed Tissue Holder **(Not ADA Compliant)** (Underneath Lav. Bowl)
- ❑ TB1 Single Toothbrush Holder (Located beside Lav. Bowl, opposite Toilet)
- ❑ TB2 Dual Toothbrush Holder (Located beside Lav. Bowl, opposite Toilet)
- ❑ TH1 Single Towel Hook (Located beside Lav. Bowl, opposite Toilet)
- ❑ TH2 Dual Towel Hook (Located beside Lav. Bowl, opposite Toilet)
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ VG Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in² free area) ❑ L ❑ R
- ❑ MT Wall Template
- ❑ WS Wall Sleeve (Requires Accessible Chase)
- ❑ LSK Less Ligature-resistant Toilet Skirt
- ❑ TG 12 Gauge Cabinet
- ❑ TSC Toilet Shipping Cover
- ❑ DFBH Ligature-resistant DM Drinking Fountain Bubbler** **(Panel Mounted Push Button)
- ❑ Other _____
- ❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

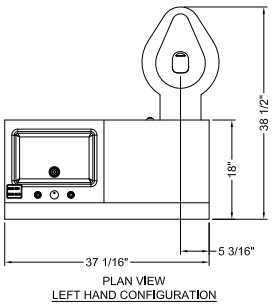
Approved For Manufacturing By:_____ Date:_____ Company:_____
Wall Thickness:_____ Wall Type:_____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

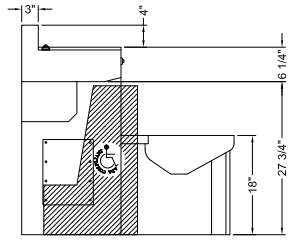
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RIGHT HAND CONFIGURATION



PLAN VIEW
LEFT HAND CONFIGURATION



SIDE VIEW

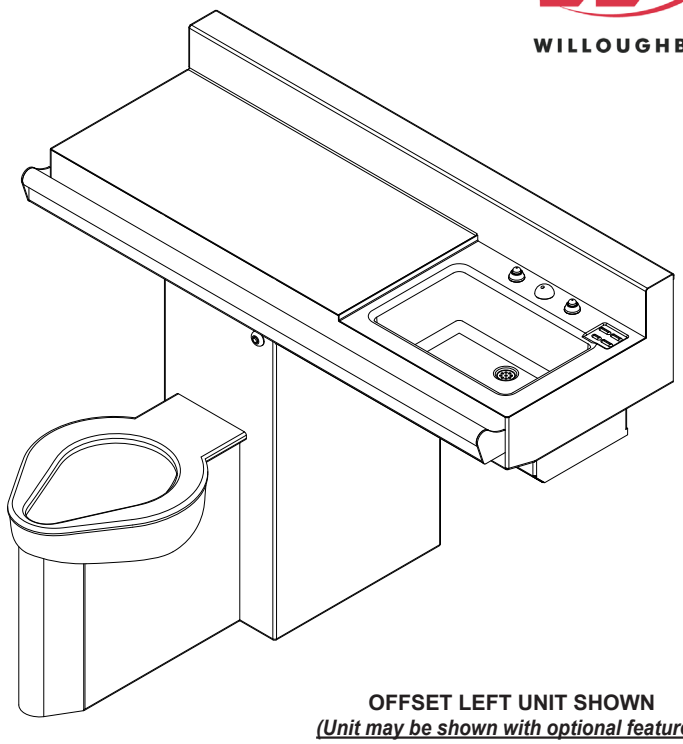
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Willoughby Industries - *Security Products*

4896 Series Ligature-resistant Handicap-ADA Compliant 49" Wide (90° Chase) Combination Units



OFFSET LEFT UNIT SHOWN
(Unit may be shown with optional features)

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010 & CBC 2016, 11B*

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Ligature-resistant Handicap-ADA Compliant 49" Wide (90° Chase) Combination Lavatory/ Toilet with wall outlet, offset left toilet, standard ligature-resistant deck mounted bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard ligature-resistant pneumatic push buttons, lav. elbow waste, lav. slow drain, toilet waste extension, 3" PVC waste coupling, hydraulic flush valve, flush valve connection, and wall sleeve

Use the following Willoughby Model Number:
ECW-4896-L-ON-DMBH-1.6-PML2-PBH-EB-SLOW-TWE-TWC3P-FV-FVT-WS

Recommended Specifications

Ligature-resistant Handicap-ADA Compliant 49" Wide (90° Chase) Combination Lavatory/Toilet shall be:
Willoughby Model No. **EC__-4896**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Ligature resistant toilet skirt (extends to floor)
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:
- Rectangular-shaped bowl, 14" x 9-1/2" x 4-3/8" deep
- Stainless steel ligature-resistant bubbler/filler
- Slow drain with air vent
- Self-draining soap dish
- Elbow waste (1-1/2" Plain End)

An integral behind-toilet grab bar with ligature-resistant closure plate is provided standard.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 6-point system. Ø1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Toilet Waste Location:
- ❑ ECW Wall Outlet
- ❑ ECF Floor Outlet

2.) Base Model Number:
- ❑ 4896 Ligature-resistant Handicap-ADA Compliant 49" Wide (90°Chase) Combination Lav./Toilet

3.) Toilet Orientation:
- ❑ L Offset Left
- ❑ R Offset Right

4.) Fixture Mounting:
- ❑ ON On-Floor

5.) Bubbler Selection:
- ❑ DMBH Ligature-resistant Deck Mounted Bubbler (Standard)

6.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

7.) Lavatory Valve Selection:
- ❑ NV No Valve
- ❑ PSL1 Single Temp. Pneumatic Non-metering
- ❑ PSL2 Dual Temp. Pneumatic Non-metering
- ❑ PML1 Single Temp. Pneumatic Metering
- ❑ PML2 Dual Temp. Pneumatic Metering
- ❑ E1L1 Single Temp. Electronic (Pick Control)
- ❑ E1L2 Dual Temp. Electronic (Pick Control)

Valve Manifold Options:

Pneumatic or Electronic Only:

❑ MA2 ❑ MA3 ❑ MA4

8.) Lavatory Push Button Selection:
- ❑ PBH Ligature-resistant Pneumatic Push Buttons
- ❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

9.) Electronic Controls*
(Must Use Electronic Lavatory & Flush Valves):

❑ WUCC-3010 ❑Pneutronic ❑WMSII

10.) Lavatory Waste:
- ❑ EB Elbow Waste (1-1/2" Plain End) (Standard)
- ❑ PT Integral 'P'-Trap (1-1/2" Plain End)
- ❑ LWE Lavatory Waste Extension (Specify if more than 3")
- ❑ OV Lavatory Overflow
- ❑ CW1 Combined Waste w/o Clean-out
- ❑ CW2 Combined Waste w/ Clean-out
- ❑ LW1 Thru-Wall Extension, 'P'-Trap
- ❑ LW2 Thru-Wall Extension & Clean-out
- ❑ SLOW Slow Drain (Standard)
- ❑ LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube
- ❑ LWC2 Coupling, 1-1/2" Tube to 1-1/2" PVC /Cast Iron

11.) Toilet Waste:
- ❑ GWC Gasketed Waste Connection (Standard on ECF)
- ❑ TWE Toilet Waste Extension (Standard on ECW)
- ❑ TW3 3" Clean-out for (TWE)
- ❑ TW4 Floor Outlet Waste Connection
- ❑ TW5 4" Clean-out for (TWE)
- ❑ PC3 Pinned Clean-out Plug PVC-3"
- ❑ PCB3 Pinned Clean-out Plug Brass-3"
- ❑ PC4 Pinned Clean-out Plug PVC-4"
- ❑ PCB4 Pinned Clean-out Plug Brass-4"
- ❑ COH4 4" Clean-out Hook, 4" PVC Plug
- ❑ COHB4 4" Clean-out Hook, 4" Brass Plug

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

12.) Waste Coupling for (TWE) Toilet Waste Extension:
- ❑ TWC3P Connecting to 3" PVC
- ❑ TWC3C Connecting to 3" Cast Iron
- ❑ TWC4P Connecting to 4" PVC
- ❑ TWC4C Connecting to 4" Cast Iron

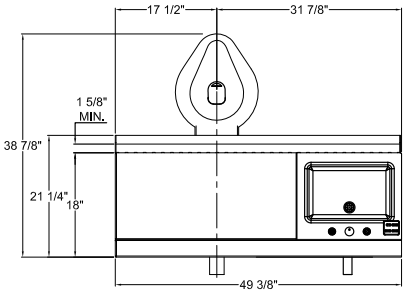
13.) Other Options:
- ❑ T4 Manual Reset Toilet Overflow Preventer, Req. (FV)
- ❑ T4A Auto Reset Toilet Overflow Preventer, Req. (FV)
- ❑ ET4 Electronic Toilet Overflow Preventer, Requires (EFV) & (WUCC-3010) or (WMSII)
- ❑ FV Hydraulic Flush Valve (Includes Push Button)
- ❑ EFVP Electronic Flush Valve w/ (PZPB) (Pick Control)
- ❑ HS Hinged White Plastic Seat (Not recommended for Max. Security/Ligature-resistant use; No Cover)
- ❑ TFE Toilet Flush Extension
- ❑ FVT Flush Valve Connection
- ❑ RTH Recessed Tissue Holder **(Not ADA Compliant)** (Underneath Lav. Bowl)
- ❑ TB1 Single Toothbrush Holder (Not Ligature-resistant), (Located beside Lav. Bowl, opposite Toilet)
- ❑ TB2 Dual Toothbrush Holder (Not Ligature-resistant), (Located beside Lav. Bowl, opposite Toilet)
- ❑ TH1 Single Towel Hook (Located beside Lav. Bowl, opposite Toilet)
- ❑ TH2 Dual Towel Hook (Located beside Lav. Bowl, opposite Toilet)
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ MT Wall Template
- ❑ WS Wall Sleeve (Requires Accessible Chase)
- ❑ TG 12 Gauge Cabinet
- ❑ TSC Toilet Shipping Cover
- ❑ LSK Less Ligature-resistant Toilet Skirt
- ❑ DFBH Ligature-resistant DM Drinking Fountain Bubbler**
  **(Panel Mounted Push Button)
- ❑ Other _____
- ❑ Other _____

Approved For Manufacturing By:_____ Date:_____ Company:_____

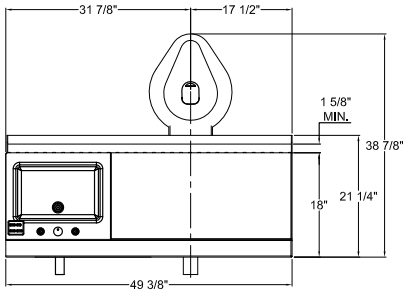
Wall Thickness:_____ Wall Type:_____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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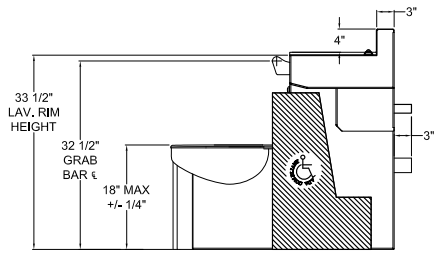
PLAN VIEW- RIGHT HAND CONFIGURATION



PLAN VIEW- LEFT HAND CONFIGURATION

IN COMPLIANCE WITH A.D.A. 2010

IN COMPLIANCE WITH C.B.C. 2016, 11B



SIDE VIEW (LEFT HAND CONFIGURATION)

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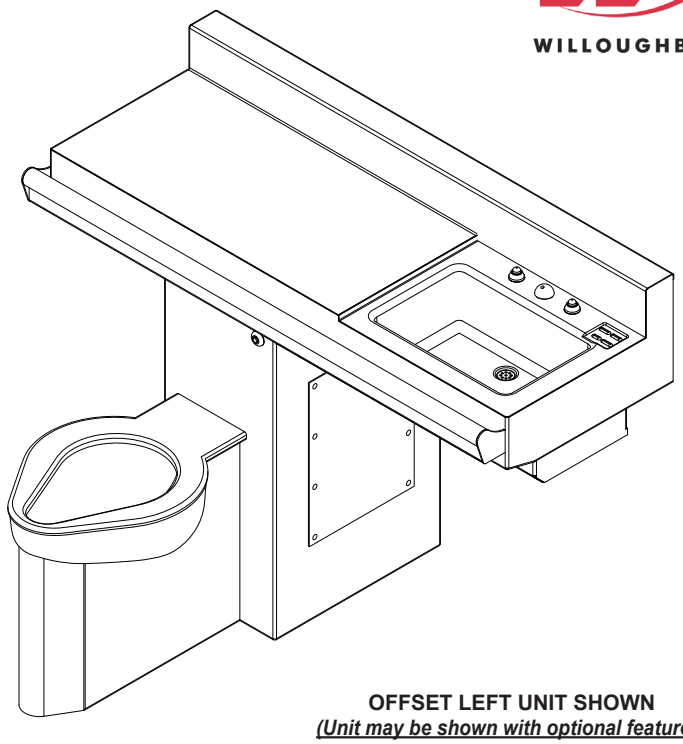
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Willoughby Industries - *Security Products*

WILLOUGHBY

4896-FA Series Front Access Ligature-resistant Handicap-ADA Compliant 49" Wide (90° Chase) Combination Units



OFFSET LEFT UNIT SHOWN
(Unit may be shown with optional features)

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010 & CBC 2016, 11B*

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Front Access Ligature-resistant Handicap-ADA Compliant 49" Wide (90° Chase) Combination Lavatory/Toilet with wall outlet, offset left toilet, standard ligature-resistant deck mounted bubbler, 1.6 GPF, dual temp. pneumatic metering valve, standard ligature-resistant pneumatic push buttons, removable lav. 'p' trap, lav. slow drain, toilet waste extension, standard gasketed waste connection, hydraulic flush valve, and wall template

Use the following Willoughby Model Number:
ECW-4896-FA-L-ON-DMBH-1.6-PML2-PBH-RPT-SLOW-GWC-FV-MT

Recommended Specifications

Front Access Ligature-resistant Handicap-ADA Compliant 49" Wide (90° Chase) Combination Lavatory/Toilet shall be:
Willoughby Model No. **EC__-4896-FA**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish. Removable access panels, attached w/ security screws shall provide access to fixture interior.

Standard toilet shall include:
- Ligature resistant toilet skirt (extends to floor)
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 psi min. flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:
- Rectangular-shaped bowl, 14” x 9-1/2” x 4-3/8” deep
- Stainless steel ligature-resistant bubbler/filler
- Slow drain with air vent
- Self-draining soap dish
- Removable slip-joint brass union ‘P’ trap (1-1/2” N.P.T.)

An integral behind-toilet grab bar with ligature-resistant closure plate is provided standard.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage. Cabinet interior shall be sound deadened with fire-resistant material.

Optionally selected lavatory valve and flush valve shall be factory installed inside fixture cabinet.

Anchoring shall be from the front, anchoring holes provided. Anchoring hardware provided by others. Standard unit requires no chase area for installation and maintenance, however certain non-standard options may require an accessible chase (see options list for details).

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

WARNING: Cancer and Reproductive Harm
- www.P65Warnings.ca.gov

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MODEL NUMBER AND OPTIONS:

1.) Toilet Waste Location:
- ❑ ECW Wall Outlet
- ❑ ECF Floor Outlet

2.) Base Model Number:
- ❑ 4896-FA Front Access Ligature-resistant Handicap-ADA Compliant 49" Wide (90°Chase) Combination Lav./Toilet

3.) Toilet Orientation:
- ❑ L Offset Left
- ❑ R Offset Right

4.) Fixture Mounting:
- ❑ ON On-Floor

5.) Bubbler Selection:
- ❑ DMBH Ligature-resistant Deck Mounted Bubbler (Standard)

6.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

7.) Lavatory Valve Selection:
- ❑ NV No Valve
- ❑ PSL1 Single Temp. Pneumatic Non-metering
- ❑ PSL2 Dual Temp. Pneumatic Non-metering
- ❑ PML1 Single Temp. Pneumatic Metering
- ❑ PML2 Dual Temp. Pneumatic Metering
- ❑ E1L1 Single Temp. Electronic (Pick Control)
- ❑ E1L2 Dual Temp. Electronic (Pick Control)

8.) Lavatory Push Button Selection:
- ❑ PBH Ligature-resistant Pneumatic Push Buttons
- ❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

9.) Electronic Controls*
(Must Use Electronic Lavatory & Flush Valves):
- ❑ WUCC-3010 ❑Pneutronic ❑WMSII

10.) Lavatory Waste:
- ❑ RPT Removable 'P'-Trap (1-1/2" N.P.T.) (Standard)
- ❑ OV Lavatory Overflow
- ❑ CW1 Combined Waste w/o Clean-out
- ❑ CW2 Combined Waste w/ Clean-out
- ❑ SLOW Slow Drain (Standard)

11.) Toilet Waste:
- ❑ GWC Gasketed Waste Connection (Standard)
- ❑ TWE Toilet Waste Extension (Requires Accessible Chase)
- ❑ TW4 Floor Outlet Waste Connection

12.) Waste Coupling for (TWE) Toilet Waste Extension:
- ❑ TWC3P Connecting to 3" PVC
- ❑ TWC3C Connecting to 3" Cast Iron
- ❑ TWC4P Connecting to 4" PVC
- ❑ TWC4C Connecting to 4" Cast Iron

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

13.) Other Options:
- ❑ T4 Manual Reset Toilet Overflow Preventer, Req. (FV)
- ❑ T4A Auto Reset Toilet Overflow Preventer, Req. (FV)
- ❑ ET4 Electronic Toilet Overflow Preventer, Requires (EFV) & (WUCC-3010) or (WMSII)
- ❑ FV Hydraulic Flush Valve (Includes Push Button)
- ❑ EFVP Electronic Flush Valve w/ (PZPB) (Pick Control)
- ❑ HS Hinged White Plastic Seat (Not recommended for Max. Security/Ligature-resistant use; No Cover)
- ❑ RTH Recessed Tissue Holder **(Not ADA Compliant)** (Underneath Lav. Bowl)
- ❑ TB1 Single Toothbrush Holder (Not Ligature-resistant), (Located beside Lav. Bowl, opposite Toilet)
- ❑ TB2 Dual Toothbrush Holder (Not Ligature-resistant), (Located beside Lav. Bowl, opposite Toilet)
- ❑ TH1 Single Towel Hook (Located beside Lav. Bowl, opposite Toilet)
- ❑ TH2 Dual Towel Hook (Located beside Lav. Bowl, opposite Toilet)
- ❑ DC Decorator Color (Fixture exterior only - White)
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- ❑ TG 12 Gauge Cabinet
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- ❑ LSK Less Ligature-resistant Toilet Skirt
- ❑ DFBH Ligature-resistant DM Drinking Fountain Bubbler**

**(Panel Mounted Push Button)

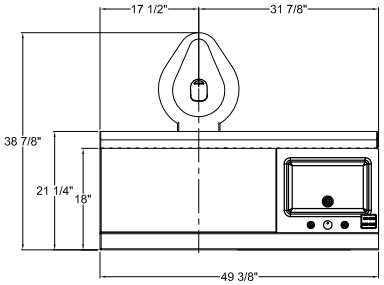
- ❑ Other _____
- ❑ Other _____

Approved For Manufacturing By:_____ Date:_____ Company:_____

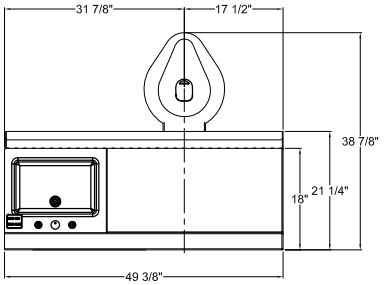
Wall Thickness:_____ Wall Type:_____

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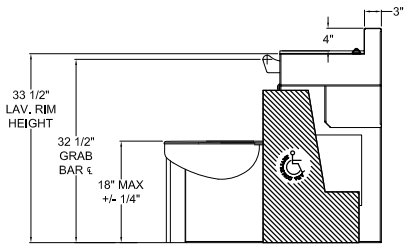
PLAN VIEW- RIGHT HAND CONFIGURATION



PLAN VIEW- LEFT HAND CONFIGURATION

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SIDE VIEW (LEFT HAND CONFIGURATION)

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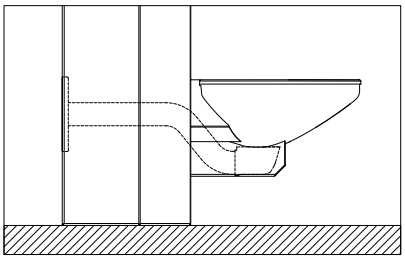
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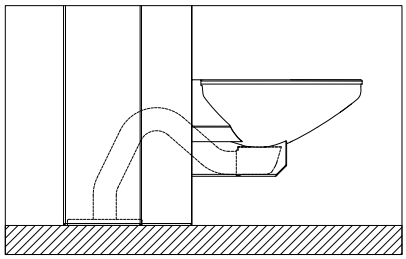
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TOILET WASTE LOCATION

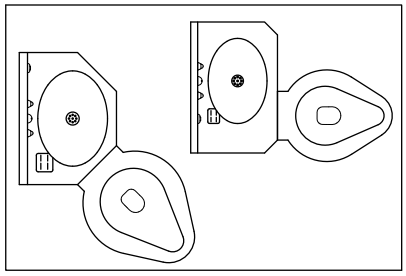


(ECW)- WALL OUTLET

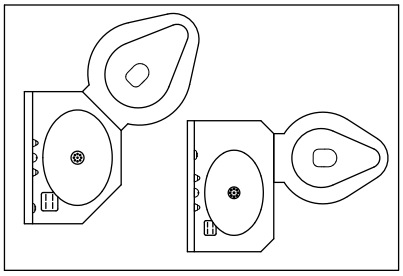


(ECF)- FLOOR OUTLET

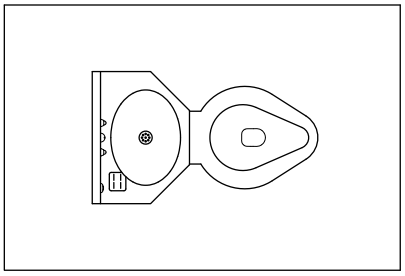
TOILET ORIENTATION



(L)- ANGLED LEFT
(L)- OFFSET LEFT

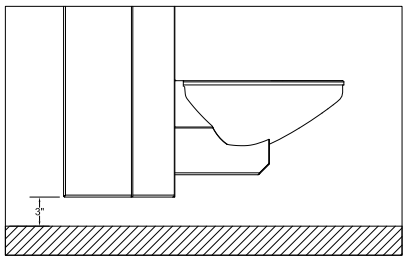


(R)- ANGLED RIGHT
(R)- OFFSET RIGHT

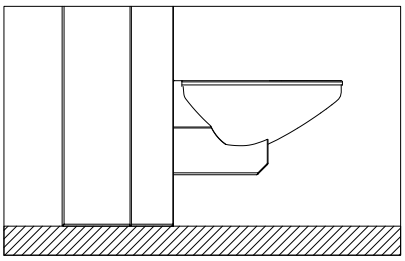


(C)- CENTER

FIXTURE MOUNTING



(OF)- OFF FLOOR



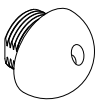
(ON)- ON FLOOR

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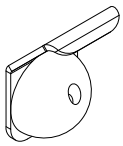
LAVATORY BUBBLER SELECTION



MACHINED
STAINLESS STEEL

HEMISPHERICAL
PENAL BUBBLER /
FILLER PROVIDES A
FLOW OF WATER FOR
DRINKING AND FILLING
THE BASIN. DESIGN IS
LIGATURE-RESISTANT.

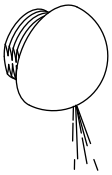
(BPH)- LIGATURE-RESISTANT
BUBBLER / FILLER



MACHINED
STAINLESS STEEL

"CODE TYPE" PENAL
BUBBLER / FILLER
INCLUDES A NON
LIGATURE-RESISTANT
MOUTH GUARD. MUST
SPECIFY WHERE MOUTH
GUARDS ARE REQUIRED
BY LOCAL CODES.

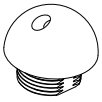
(BC)- CODE BUBBLER / FILLER



MACHINED
STAINLESS STEEL

HEMISPHERICAL
LAVATORY FILLER
PROVIDES A FLOW OF
WATER TO THE
LAVATORY BASIN ONLY.
DESIGN IS LIGATURE-
RESISTANT.

(FLH)- LIGATURE-RESISTANT
LAV. FILLER



MACHINED
STAINLESS STEEL

HEMISPHERICAL DECK
MOUNTED BUBBLER/
FILLER PROVIDES A
FLOW OF WATER FOR
DRINKING AND FILLING
THE BASIN. DESIGN IS
LIGATURE-RESISTANT.

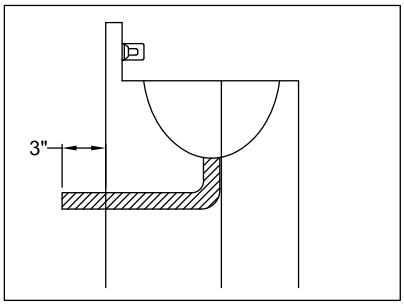
(DMBH)- LIGATURE-RESISTANT DECK
MOUNTED BUBBLER / FILLER

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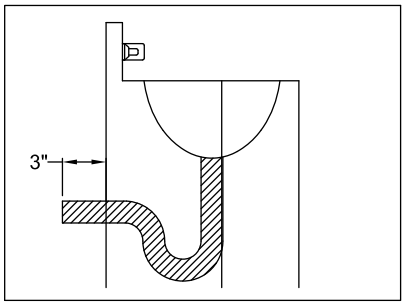
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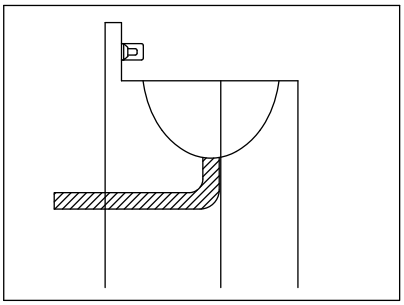
LAVATORY WASTE



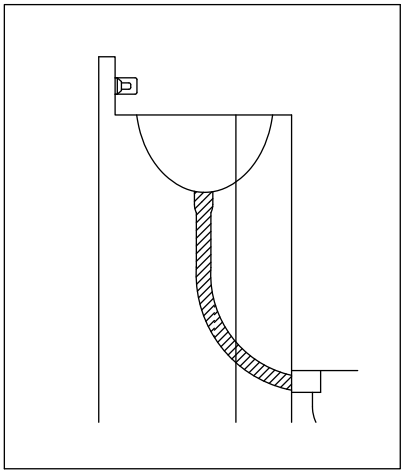
(EB)- ELBOW WASTE
(1-1/2" PLAIN END)



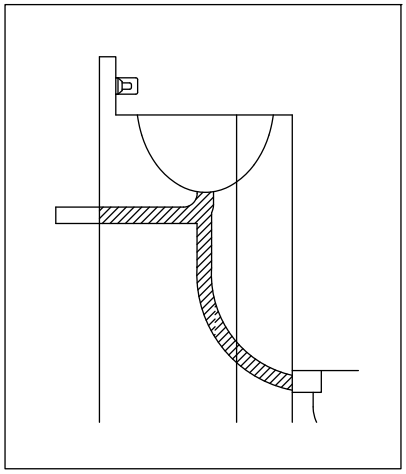
(PT)- INTEGRAL P-TRAP
(1-1/2" PLAIN END)



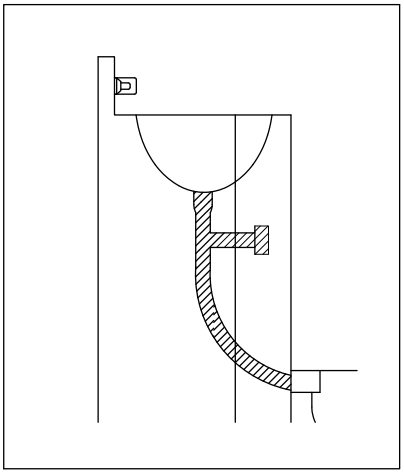
(LWE)- LAVATORY WASTE EXTENSION
GREATER THAN 3" (1-1/2" PLAIN END)



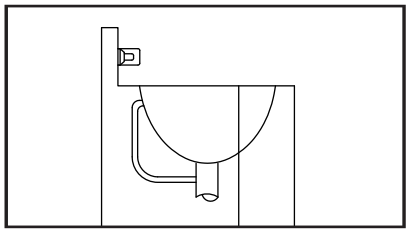
(CW1)- COMBINED WASTE
W/O CLEANOUT
(CHECK CODES FOR ACCEPTANCE)



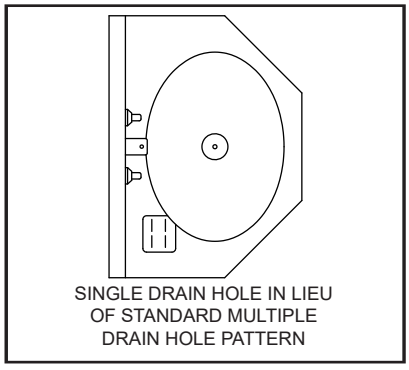
(CW2)- COMBINED WASTE
W/ CLEANOUT (1-1/2" PLAIN END)
(CHECK CODES FOR ACCEPTANCE)



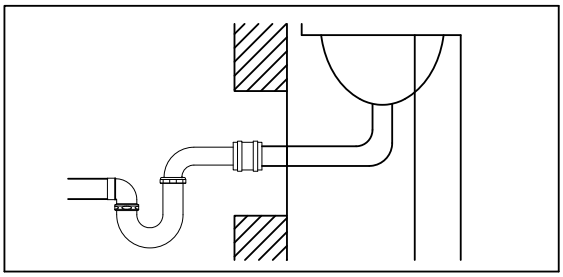
(CW2) FOR "FA"- COMBINED WASTE
W/ "FA" CLEANOUT (1-1/2" F.I.P.)
(CHECK CODES FOR ACCEPTANCE)



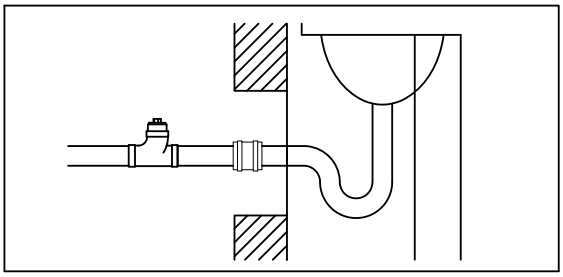
(OV)- LAVATORY OVERFLOW



(SLOW)- SLOW DRAIN



(LW1)- BRASS THRU-WALL EXTENSION P-TRAP
(FOR USE W/ (EB) ELBOW WASTE)



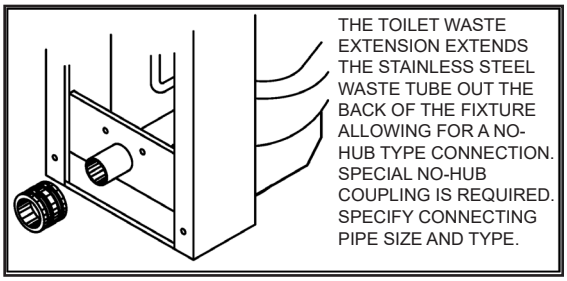
(LW2)- BRASS THRU-WALL EXTENSION P-TRAP
(FOR USE W/ (PT) INTEGRAL 'P'-TRAP)

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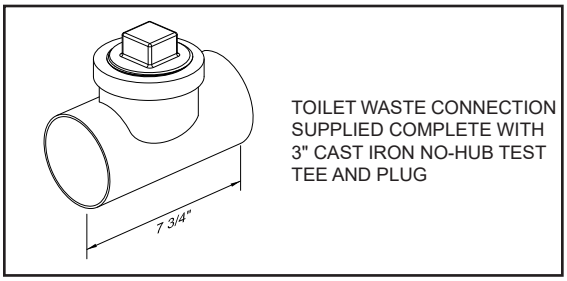
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TOILET WASTE



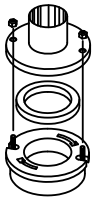
THE TOILET WASTE EXTENSION EXTENDS THE STAINLESS STEEL WASTE TUBE OUT THE BACK OF THE FIXTURE ALLOWING FOR A NO-HUB TYPE CONNECTION. SPECIAL NO-HUB COUPLING IS REQUIRED. SPECIFY CONNECTING PIPE SIZE AND TYPE.

(TWE)- TOILET WASTE EXTENSION



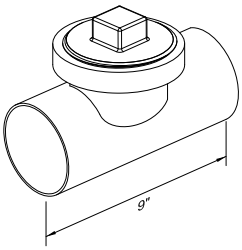
TOILET WASTE CONNECTION SUPPLIED COMPLETE WITH 3" CAST IRON NO-HUB TEST TEE AND PLUG

(TW3)- NO-HUB WASTE W/ 3" CLEAN-OUT



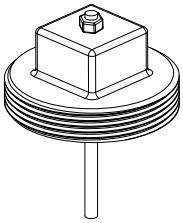
TOILET WASTE CONNECTION, SUPPLIED COMPLETE WITH Ø5-1/4" NEOPRENE GASKET, 5/16" ANCHOR STUDS AND 4" x 4" FLOOR FLANGE.

(TW4) FLOOR OUTLET WASTE CONNECTION



TOILET WASTE CONNECTION SUPPLIED COMPLETE WITH 4" CAST IRON NO-HUB TEST TEE AND PLUG

(TW5)- NO-HUB WASTE W/ 4" CLEAN-OUT



THE PINNED CLEAN-OUT PLUG IS USED TO STOP LARGE OBJECTS FROM ENTERING THE BUILDING'S MAIN WASTE SYSTEM.

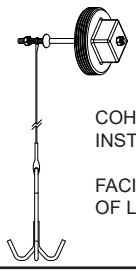
3" PVC OR 4" PVC CLEAN-OUT PLUGS ARE STANDARD. BRASS CLEAN-OUT PLUGS ARE AVAILABLE UPON REQUEST. SPECIFY "PCB" FOR BRASS.

(PC__)- PINNED CLEAN-OUT PLUG



GASKETED TOILET WASTE CONNECTION TO MATE WITH INSTALLER-SUPPLIED FLANGE

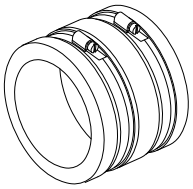
(GWC)- GASKETED WASTE CONNECTION (WALL OUTLET SHOWN)



COH4 - CLEAN-OUT HOOK IS CONVENIENTLY INSTALLED INTO VERTICAL WASTE PIPING.

FACILITATES REMOVAL FROM CHASE SIDE OF LARGE OBJECTS (SHEETS, TOWELS, ETC.)

(COH4) CLEAN-OUT HOOK

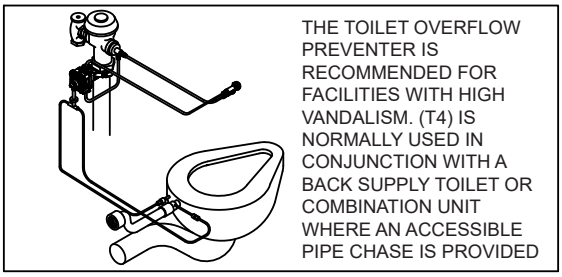


WASTE COUPLING USED TO CONNECT FIXTURE (TWE) TOILET WASTE EXTENSION TO WASTE OUTLET

(TWC__)- TOILET WASTE COUPLING

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OTHER OPTIONS



THE TOILET OVERFLOW PREVENTER IS RECOMMENDED FOR FACILITIES WITH HIGH VANDALISM. (T4) IS NORMALLY USED IN CONJUNCTION WITH A BACK SUPPLY TOILET OR COMBINATION UNIT WHERE AN ACCESSIBLE PIPE CHASE IS PROVIDED

(T4)- MANUAL RESET TOP FOUR OVERFLOW PREVENTER
(REQUIRES HYDRAULIC FLUSH VALVE)



THE TOILET OVERFLOW PREVENTER IS RECOMMENDED FOR FACILITIES WITH HIGH VANDALISM. (T4A) IS NORMALLY USED IN CONJUNCTION WITH A BACK SUPPLY TOILET OR COMBINATION UNIT WHERE AN ACCESSIBLE PIPE CHASE IS PROVIDED

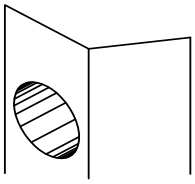
(T4A)- AUTO RESET TOP FOUR OVERFLOW PREVENTER
(REQUIRES HYDRAULIC FLUSH VALVE)



ELONGATED PLASTIC SEAT IS OF SANITARY, OPEN FRONT DESIGN, NOT RECOMMENDED IN MAXIMUM SECURITY AREAS

(AVAILABLE IN WHITE)

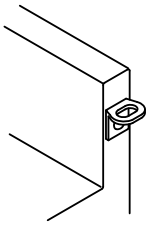
(HS)- HINGED PLASTIC SEAT



DESIGNED TO ACCOMMODATE A STANDARD TISSUE ROLL. THE TISSUE HOLDER IS WELDED INTO THE CABINET, GROUND SMOOTH AND POLISHED.

(MUST SPECIFY LOCATION)

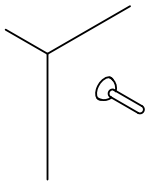
(RTH__)- RECESSED TISSUE HOLDER



TOOTHBRUSH HOLDER(S) CAN BE MOUNTED TO EITHER SIDE OR BOTH SIDES OF THE FIXTURE BACKSPLASH, THE TOOTHBRUSH HOLDER IS FASTENED TO THE FIXTURE CABINET.

(MUST SPECIFY LOCATION)

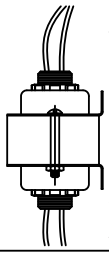
(TB1__)- SINGLE TOOTHBRUSH HOLDER
(TB2__)- DUAL TOOTHBRUSH HOLDER



THIS PRESSURE ACTIVATED RELEASE TOWEL HOOK WILL SUPPORT LIGHT CLOTHING & TOWEL LOADS, HOWEVER, EXCESSIVE LOADS PLACED ON THE HOOK WILL CAUSE IT TO RELEASE DOWNWARD.

(MUST SPECIFY LOCATION)

(TH1__)- SINGLE TOWEL HOOK
(TH2__)- DUAL TOWEL HOOK



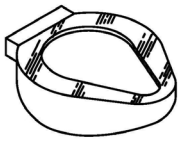
JACKSON CONTROL OR EQUIVALENT 24VAC, 40A TRANSFORMER.

(TF24H) HARDWIRE: FOOT MOUNT END COVERS, VERTICAL W/ 1/2" THREADED CONDUIT HUBS & LOCK NUTS ON BOTH EXITS

(TF24P) PLUG-IN: FOR 110VAC GFCI OUTLET

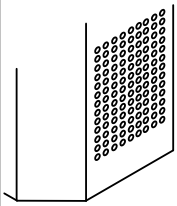
TRANSFORMER TO BE LABELED WITH "UL" AND "CSA" CERTIFICATION MARKS.

(TF24__)- TRANSFORMER, 110VAC TO 24VAC



TOILET SEAT TOP IS POLISHED TO A #7 MIRROR FINISH.

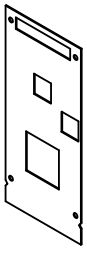
(HPS)- HIGH POLISH SEAT



A SERIES OF 1/4" HOLES PUNCHED ON 1/2" CENTERS PROVIDES AN ECONOMICAL MEANS OF PROVIDING A RETURN AIR SOURCE THROUGH THE FIXTURE AND WALL OPENING. (DUCT WORK AND DUCT FLANGES BY OTHERS).

(MUST SPECIFY LOCATION AND FREE AREA REQUIREMENTS.)

(VG)- VENTILATION GRILLE



CONSTRUCTED OF 18 GAUGE GALVANIZED STEEL.

METAL WALL TEMPLATES PROVIDE FOR FIXTURE ROUGH-IN CUT-OUTS IN A STEEL WALL. THE TEMPLATE HAS INTEGRAL LAYOUT PATTERNS FOR CUTTING OR DRILLING WALL OPENINGS.

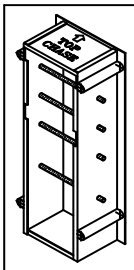
(MT)- WALL TEMPLATE

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OTHER OPTIONS (CONTINUED)

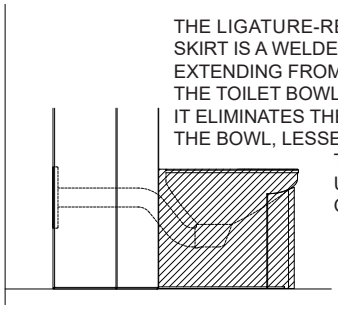


CONSTRUCTED OF 20 GA. GALVANIZED STEEL, WALL SLEEVES PROVIDE FIXTURE PLUMBING ROUGH-IN OPENINGS IN BLOCK/POURED CONCRETE WALLS, BECOMING A PERMANENT PART OF THE WALL

THE Ø1/2" STEEL RODS WELDED TO THE FRAME PROVIDE RIGIDITY AND HINDER ESCAPE INTO THE CHASE SHOULD THE FIXTURE BE REMOVED.

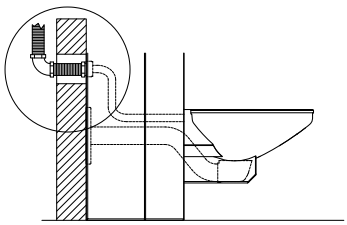
(SLEEVE BRACING IS REQUIRED DURING WALL CONSTRUCTION, BY OTHERS. MUST SPECIFY WALL THICKNESS AND TYPE WHEN ORDERING SLEEVE)

(WS)- WALL SLEEVE



THE LIGATURE-RESISTANT TOILET SKIRT IS A WELDED STAINLESS SHROUD EXTENDING FROM THE OUTER EDGE OF THE TOILET BOWL DOWN TO THE FLOOR. IT ELIMINATES THE AREA UNDERNEATH THE BOWL, LESSENING THE CHANCE OF THE FIXTURE BEING USED AS A LIGATURE, OR TIE-OFF, DEVICE.

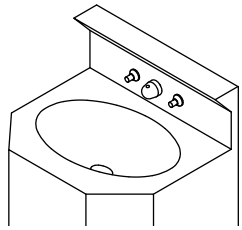
(SK)- LIGATURE-RESISTANT TOILET SKIRT



FLUSH VALVE TAILPIECES ARE FURNISHED STANDARD WITH SLIP JOINT FIXTURE CONNECTIONS . STANDARD SLIP JOINT CONNECTIONS WILL WORK FOR WALL THICKNESSES UP TO 2", BEYOND WHICH THE CONNECTION BECOMES MORE DIFFICULT TO MAKE

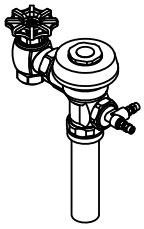
WILLOUGHBY RECOMMENDS THE USE OF A THRU-THE-WALL FLUSHING CONNECTION, ALLOWING FOR THE CONNECTION TO BE MADE IN THE CHASE.

(FVT)- FLUSH VALVE THROUGH WALL CONNECTION



FIXTURE BACKSPLASH IS BUILT OUT TO PROVIDE AN INTEGRAL SHELF. SPECIFY SHELF DIMENSIONS WHEN ORDERING.

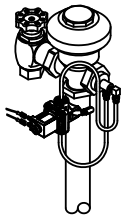
(ISH)- INTEGRAL SHELF



PROVIDES WATER SUPPLY CONTROL FOR FLUSHING WATER CLOSETS. DELANY, SLOAN, AND ZURN FLUSH VALVES ARE COMPATIBLE WITH WILLOUGHBY UNITS.

FLUSH VALVES ARE AVAILABLE IN 3.5 GPF (13.2 Lpf), 1.6 GPF (6.0 Lpf), AND 1.28 GPF (4.8 Lpf).
(SEE **S11-SUPPLEMENTAL INFORMATION**)

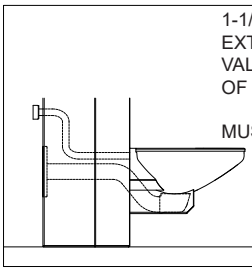
(FV)- FLUSH VALVE



PROVIDES WATER SUPPLY CONTROL FOR FLUSHING WATER CLOSETS. DELANY, SLOAN, AND ZURN FLUSH VALVES ARE COMPATIBLE WITH WILLOUGHBY UNITS.

FLUSH VALVES ARE AVAILABLE IN 3.5 GPF (13.2 Lpf), 1.6 GPF (6.0 Lpf), AND 1.28 GPF (4.8 Lpf).
(SEE **S11-SUPPLEMENTAL INFORMATION**)

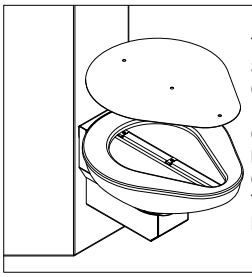
(EFVP)- ELECTRONIC FLUSH VALVE w/ (PZPB)
(FOR USE W/ WILLOUGHBY ELECTRONIC CONTROLS)



1-1/2" MALE I.P.S. FLUSHING INLET EXTENSION, EXTENDS FLUSH VALVE CONNECTION BEYOND BACK OF FIXTURE.

MUST SPECIFY LENGTH.

(TFE)- TOILET FLUSH EXTENSION



THIS OPTION PROVIDES A STAINLESS STEEL SHIPPING COVER FOR TOILET BOWLS.

COVERS ARE DESIGNED TO LIMIT POSSIBLE INSERTION OF FOREIGN MATERIAL INTO THE FIXTURE PRIOR TO FACILITY STARTUP.

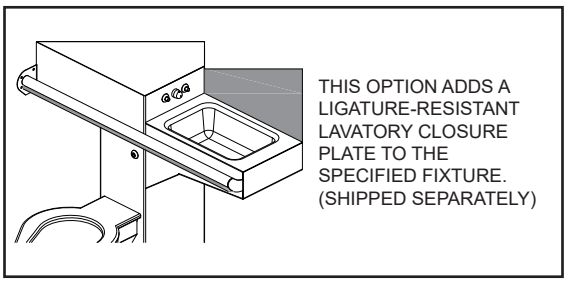
(TSC)- TOILET SHIPPING COVER

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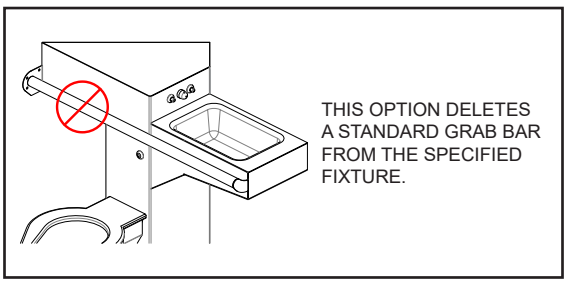
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OTHER OPTIONS (CONTINUED)



THIS OPTION ADDS A LIGATURE-RESISTANT LAVATORY CLOSURE PLATE TO THE SPECIFIED FIXTURE. (SHIPPED SEPARATELY)

(LVCP)- LAVATORY CLOSURE PLATE



THIS OPTION DELETES A STANDARD GRAB BAR FROM THE SPECIFIED FIXTURE.

(LGB)- LESS GRAB BAR (ON (GB)-STANDARD COMBI)

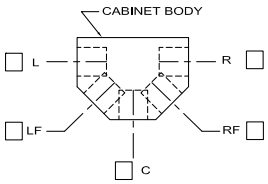
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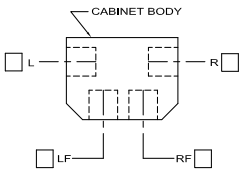
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PLACEMENT DIAGRAMS

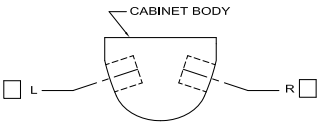
(RTH__)



MULTI-SIDED CABINET



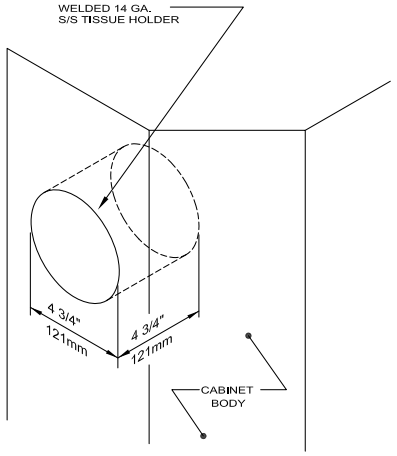
RECTANGULAR CABINET



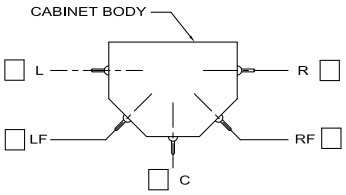
ROUNDED CABINET

RTH - Designed to accommodate a tissue roll and to facilitate the detection of hidden contraband. The tissue holder is integrally welded into the cabinet, ground smooth and polished to match the standard cabinet finish.

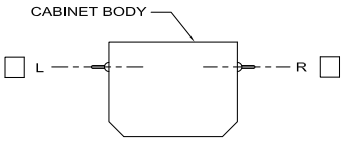
IF NO SELECTION IS MADE, TISSUE HOLDER WILL BE PLACED IN FRONT (C) LOCATION FOR UNITS WITH ANGLED TOILET BOWLS, AND IN LEFT FRONT (LF) LOCATION FOR UNITS WITH CENTERED TOILET BOWLS.



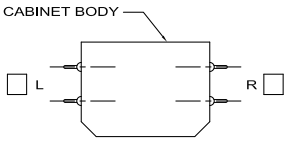
(TH__)



TH1 (CLA-1788)
MULTI-SIDED CABINET



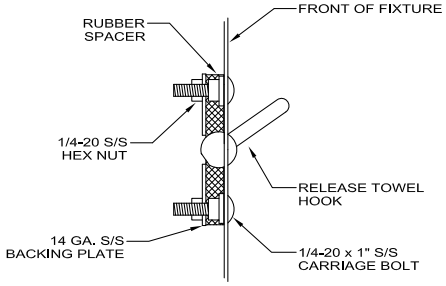
TH1 (CLA-1788)
RECTANGULAR CABINET



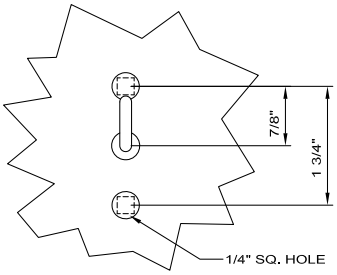
TH2 (CLA-1788-2)
RECTANGULAR CABINET

CLA-1788 - This ligature-resistant pressure activated release towel hook will support light clothing and towel loads, however, excessive loads placed on the hook will render its function useless.

IF NO SELECTION IS MADE, TOWEL HOOK WILL BE PLACED ON SIDE OPPOSITE FLUSH VALVE.



TYP. SECTION



FRONT VIEW
(1) HOOK

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Willoughby Industries - *Security Products*

ETW-1490-CM
Wall Outlet
Carrier Mounted (3-bolt)
Blowout Series
Water Closet



(1.6 GPF UNIT SHOWN)
(Unit may be shown with optional features)

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE* WITH ADA 2010 & CBC 2013, 11B

* IF MOUNTING FIXTURE WITH FINISHED TOILET SEAT HEIGHT BETWEEN 17"-19" A.F.F.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Wall Outlet, Carrier Mounted (3-bolt), Blowout Series Toilet with top spud, 1.6 GPF, gasketed waste connection, hydraulic flush valve, flush valve cover, high polish seat, and toilet shipping cover

Use the following Willoughby Model Number:
ETW-1490-CM-TS-1.6-GWC-FV-FVC-HPS-TSC

Recommended Specifications

Wall Outlet, Carrier Mounted (3-bolt), Blowout Series Toilet shall be: Willoughby Model No. **ETW-1490-CM**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, T304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/ CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Anchoring shall be by standard 3-bolt blowout carrier. (Carrier and fasteners by others).

Unit requires no chase area for installation and maintenance unless specified with any Toilet Waste Extension options or Toilet Overflow Preventer options.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or off-set type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ ETW-1490-CM Wall Outlet, Carrier Mounted (3-bolt), Blowout Series Toilet

2.) Inlet Location:

❑ BS Back Spud
❑ TS Top Spud

3.) Flush Valve GPF (Must Specify):

❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
❑ 1.6 GPF ULF (6.0 Lpf)
❑ 3.5 GPF (13.2 Lpf)

4.) Toilet Waste:

❑ GWC Gasketed Waste Connection (Standard)

5.) Other Options:

❑ T4 Manual Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
❑ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV), Accessible Chase, & (WUCC-3010) or (WMSII) control
❑ FV Hydraulic Flush Valve (Includes Actuator)
❑ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*
❑ FVT Flush Valve Connection (Back Spud Only)
❑ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)
❑ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
❑ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)
❑ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
❑ AP Flush Valve Access Panel (Allows access to chase-mounted flush valve from fixture side)
❑ HS Hinged White Plastic Seat (No Cover, not recommended for Maximum Security/Ligature-resistant use)
❑ DC Decorator Color (Fixture exterior only - White)
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*

[CONTINUED IN NEXT COLUMN:]

[Other Options CONTINUED:]

❑ HPS High Polish Seat
❑ TSC Toilet Shipping Cover
❑ RTH1 Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase)
❑ RTH2 Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth)
❑ RFVB Remote Flush Valve with Box
❑ REFVB Remote Electronic Flush Valve with Box*
❑ Other _____
❑ Other _____

6.) Electronic Controls* (Must Use Electronic Flush Valve):

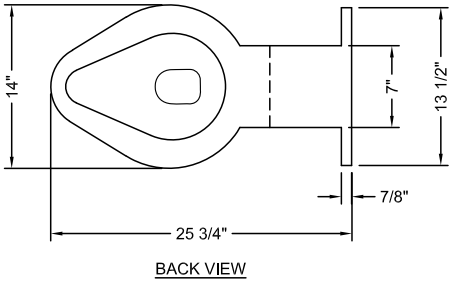
❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
❑ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

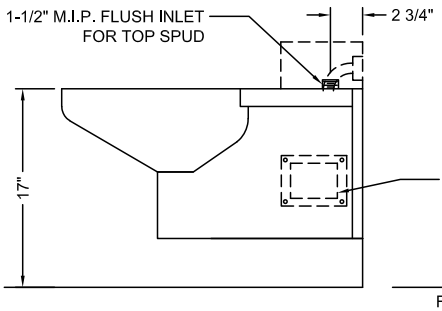
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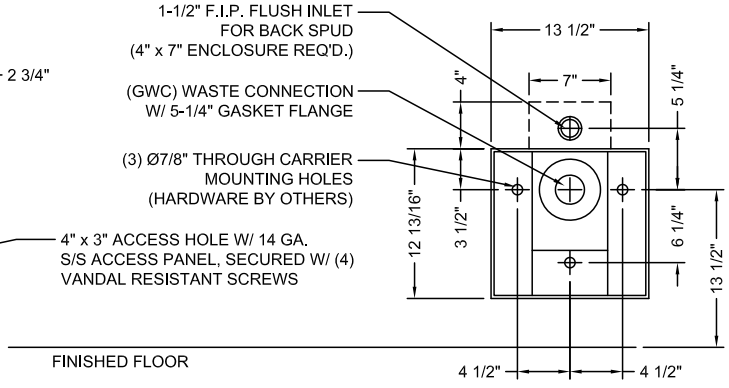
BACK VIEW

IN COMPLIANCE* WITH ADA 2010 & CBC 2013, 11B

* IF MOUNTING FIXTURE WITH FINISHED TOILET SEAT HEIGHT BETWEEN 17"-19" A.F.F.



BACK VIEW



REAR VIEW

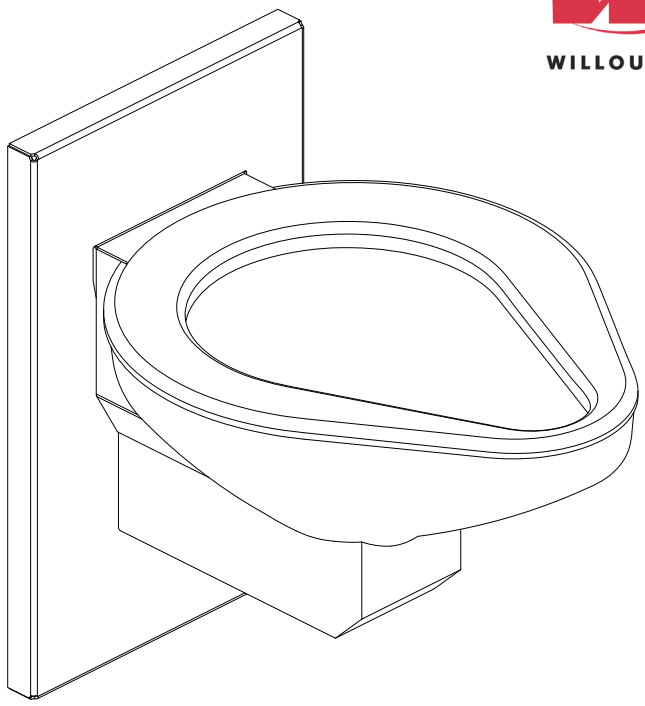
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Willoughby Industries - *Security Products*

ETW-1490-ES
Wall Outlet
Compact
Blowout Series
Water Closet



(1.6 GPF UNIT SHOWN)
(Unit may be shown with optional features)

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010

* IF MOUNTING WITH SEAT HEIGHT BETWEEN 17"-19" A.F.F.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Wall Outlet, Compact Blowout Series Toilet with standard back spud, 1.6 GPF, toilet waste extension, 3" PVC waste connection, hydraulic flush valve, flush valve connection, toilet flush extension, high polish seat, wall sleeve, and toilet shipping cover

Use the following Willoughby Model Number:
ETW-1490-ES-BS-1.6-TWE-TWC3P-FV-TFE-HPS-WS-TSC

Recommended Specifications

Wall Outlet, Compact Blowout Series Toilet shall be:
Willoughby Model No. **ETW-1490-ES**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/ CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Anchoring shall be by standard 6-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick.

Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or off-set type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ ETW-1490-ES Wall Outlet, Compact Blowout Series Toilet

2.) Inlet Location:
- ❑ BS Back Spud

3.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

4.) Toilet Waste:
- ❑ TWE Toilet Waste Extension (Standard)
- ❑ TW3 3" Clean-out for (TWE)
- ❑ TW5 4" Clean-out for (TWE)
- ❑ GWC Gasketed Waste Connection
- ❑ PC3 Pinned Clean-out Plug PVC-3”
- ❑ PCB3 Pinned Clean-out Plug Brass-3”
- ❑ PC4 Pinned Clean-out Plug PVC-4”
- ❑ PCB4 Pinned Clean-out Plug Brass-4”
- ❑ COH4 4" Clean-out Hook, 4" PVC Plug
- ❑ COHB4 4" Clean-out Hook, 4" Brass Plug

5.) Waste Coupling for (TWE) Toilet Waste Extension:
- ❑ TWC3P Connecting to 3" PVC
- ❑ TWC3C Connecting to 3" Cast Iron
- ❑ TWC4P Connecting to 4" PVC
- ❑ TWC4C Connecting to 4" Cast Iron

6.) Other Options:
- ❑ T4 Manual Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
- ❑ T4A Auto Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase

[CONTINUED IN NEXT COLUMN:]

[Other Options CONTINUED:]
- ❑ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV), Accessible Chase, & (WUCC-3010) or (WMSII) control
- ❑ FV Hydraulic Flush Valve (Includes Actuator)
- ❑ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*
- ❑ TFE Toilet Flush Extension (Standard)
- ❑ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ MT Wall Template
- ❑ WS Wall Sleeve (Requires Accessible Chase)
- ❑ TSC Toilet Shipping Cover
- ❑ RTH1 Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase)
- ❑ RTH2 Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth)
- ❑ Other _____
- ❑ Other _____

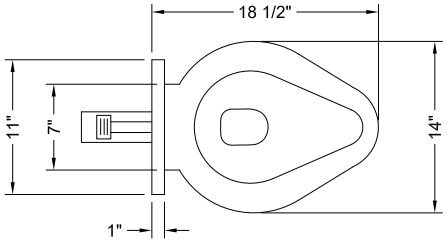
7.) Electronic Controls* (Must Use Electronic Flush Valve):
- ❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
- ❑ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

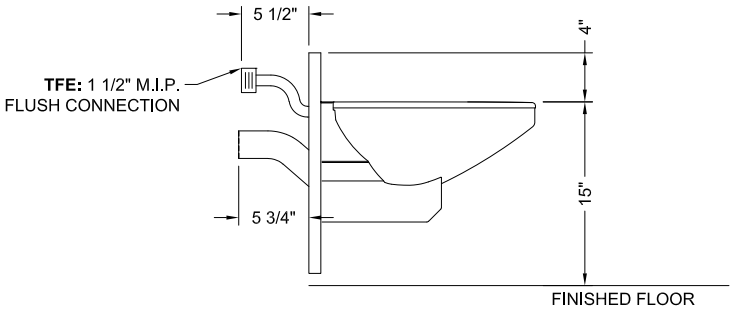
Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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PLAN VIEW



SIDE VIEW

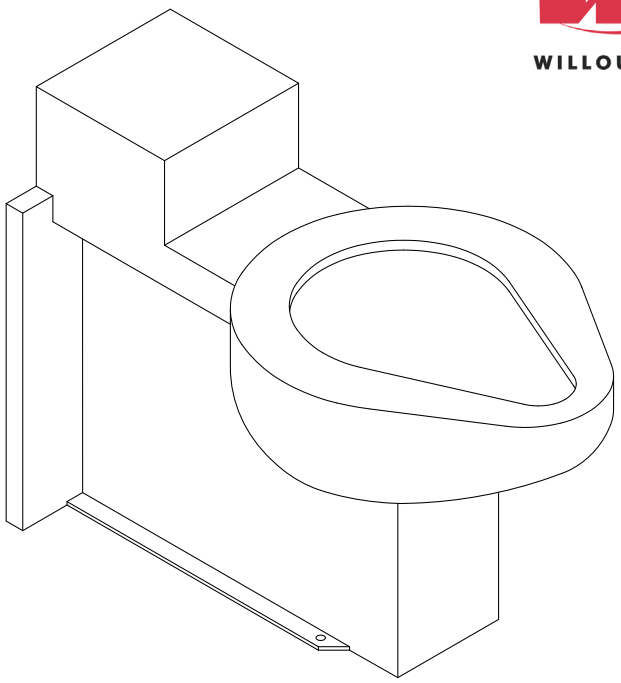
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Willoughby Industries - *Security Products*

ETW-1490-FM
Wall Outlet
Floor Mounted
Blowout Series
Water Closet



(1.6 GPF UNIT W/ 15" A.F.F. SEAT HEIGHT* SHOWN)
(Unit may be shown with optional features)

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010

** USE "HC" SUFFIX FOR 18" A.F.F.SEAT HEIGHT

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify aWall Outlet, Floor Mounted, Blowout Series Toilet with back spud, standard 15" seat height, 1.6 GPF, toilet waste extension, 3" PVC waste connection, hydraulic flush valve, flush valve connection, high polish seat, wall sleeve, and toilet shipping cover

Use the following Willoughby Model Number:
ETW-1490-FM-BS-1.6-TWE-TWC3P-FV-FVT-HPS-WS-TSC

Recommended Specifications

Wall Outlet, Floor Mounted, Blowout Series Toilet shall be:
Willoughby Model No. **ETW-1490-FM**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8” O.D. trap which shall maintain a minimum 2" seal and pass a 2” ball
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/ CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Anchoring shall be by standard 6-point system (4 in the wall and 2 in the floor): threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Floor anchoring by others.

Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or off-set type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ ETW-1490-FM Wall Outlet, Floor Mounted, Blowout Series Toilet

2.) Inlet Location:
- ❑ BS Back Spud
- ❑ TS Top Spud

3.) Toilet Seat Height:
- ❑ 15" Seat Height (Standard)
- ❑ HC 18" Seat Height, Handicap-ADA Compliant

4.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

5.) Toilet Waste:
- ❑ TWE Toilet Waste Extension (Standard)
- ❑ TW3 3" Clean-out for (TWE)
- ❑ TW5 4" Clean-out for (TWE)
- ❑ GWC Gasketed Waste Connection
- ❑ PC3 Pinned Clean-out Plug PVC-3”
- ❑ PCB3 Pinned Clean-out Plug Brass-3”
- ❑ PC4 Pinned Clean-out Plug PVC-4”
- ❑ PCB4 Pinned Clean-out Plug Brass-4”
- ❑ COH4 4" Clean-out Hook, 4" PVC Plug
- ❑ COHB4 4" Clean-out Hook, 4" Brass Plug

6.) Waste Coupling for (TWE) Toilet Waste Extension:
- ❑ TWC3P Connecting to 3" PVC
- ❑ TWC3C Connecting to 3" Cast Iron
- ❑ TWC4P Connecting to 4" PVC
- ❑ TWC4C Connecting to 4" Cast Iron

7.) Other Options:
- ❑ T4 Manual Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
- ❑ T4A Auto Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
- ❑ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV), Accessible Chase, & (WUCC-3010) or (WMSII) control
- ❑ FV Hydraulic Flush Valve (Includes Actuator)
- ❑ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*
- ❑ TFE Toilet Flush Extension
- ❑ FVT Flush Valve Connection (Back Spud Only)
- ❑ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)
- ❑ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
- ❑ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
- ❑ HS Hinged White Plastic Seat (No Cover, not recommended for Maximum Security/Ligature-resistant use)
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ MT Wall Template
- ❑ WS Wall Sleeve (Requires Accessible Chase)
- ❑ TSC Toilet Shipping Cover
- ❑ RTH1 Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase)
- ❑ RTH2 Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth)
- ❑ Other _____

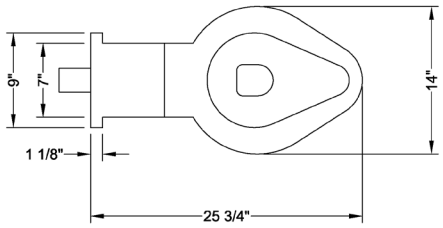
8.) Electronic Controls* (Must Use Electronic Flush Valve):
- ❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
- ❑ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

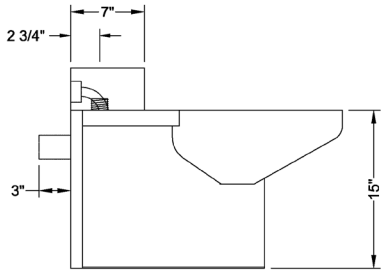
Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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PLAN VIEW



SIDE VIEW

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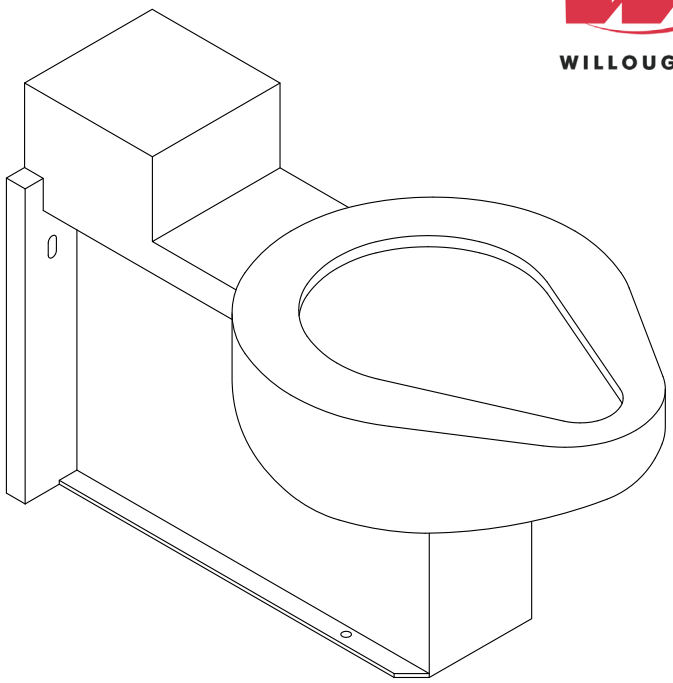
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ETW-1490-FM-FA
Front Access
Wall Outlet
Floor Mounted
Blowout Series
Water Closet

Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010

** USE "HC" SUFFIX FOR 18" A.F.F.SEAT HEIGHT



(1.6 GPF UNIT W/ 15" A.F.F. SEAT HEIGHT* SHOWN)
(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Front Access, Wall Outlet, Floor Mounted, Blowout Series Toilet with back spud, standard 15" seat height, 1.6 GPF, gasketed waste connection, hydraulic flush valve, flush valve connection, high polish seat, wall template, and toilet shipping cover

Use the following Willoughby Model Number:
ETW-1490-FM-FA-BS-1.6-GWC-FV-FVT-HPS-MT-TSC

Recommended Specifications

Front Access, Wall Outlet, Floor Mounted, Blowout Series Toilet shall be: Willoughby Model No. **ETW-1490-FM-FA**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/ CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Anchoring shall be through the front and through the floor (anchoring hardware provided by others).

Unit requires no chase area for installation and maintenance unless specified with any Toilet Waste Extension options or Toilet Overflow Preventer options.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or off-set type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

- ❑ ETW-1490-FM-FA — Front Access, Wall Outlet, Floor Mounted, Blowout Series Toilet

2.) Inlet Location:

- ❑ BS Back Spud
- ❑ TS Top Spud

3.) Toilet Seat Height:

- ❑ 15" Seat Height (Standard)
- ❑ HC 18" Seat Height, Handicap-ADA Compliant

4.) Flush Valve GPF (Must Specify):

- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

5.) Toilet Waste:

- ❑ GWC Gasketed Waste Connection (Standard)
- ❑ PC3 Pinned Clean-out Plug PVC-3”
- ❑ PCB3 Pinned Clean-out Plug Brass-3”
- ❑ PC4 Pinned Clean-out Plug PVC-4”
- ❑ PCB4 Pinned Clean-out Plug Brass-4”

6.) Other Options:

- ❑ T4 Manual Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
- ❑ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV), Accessible Chase, & (WUCC-3010) or (WMSII) control
- ❑ FV Hydraulic Flush Valve (Includes Actuator)
- ❑ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*
- ❑ FVT Flush Valve Connection (Back Spud Only)
- ❑ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)
- ❑ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)

[CONTINUED IN NEXT COLUMN:]

[Other Options CONTINUED:]

- ❑ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
- ❑ HS Hinged White Plastic Seat (No Cover, not recommended for Maximum Security/Ligature-resistant use)
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ MT Wall Template
- ❑ TSC Toilet Shipping Cover
- ❑ RTH1 Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase)
- ❑ RTH2 Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth)
- ❑ RFVB Remote Flush Valve with Box
- ❑ REFVB Remote Electronic Flush Valve with Box*
- ❑ Other _____

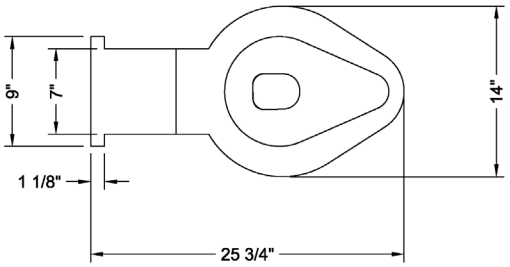
7.) Electronic Controls* (Must Use Electronic Flush Valve):

- ❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
- ❑ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

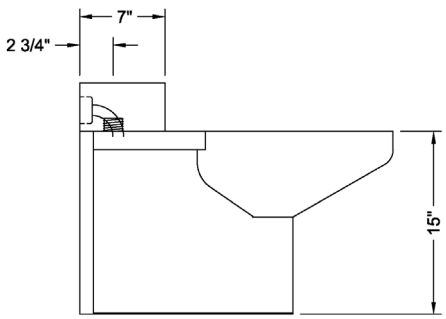
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____



PLAN VIEW



SIDE VIEW

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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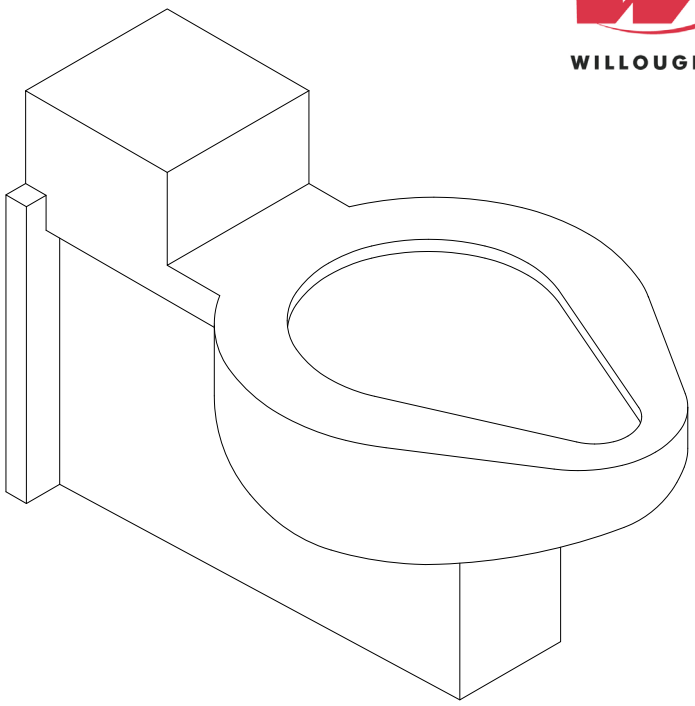
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Willoughby Industries - *Security Products*

ETW-1490-OF
Wall Outlet
Off Floor Mounted
Blowout Series
Water Closet



(1.6 GPF UNIT SHOWN)
(Unit may be shown with optional features)

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010

* IF MOUNTING WITH SEAT HEIGHT BETWEEN 17"-19" A.F.F.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Wall Outlet, Off Floor Mounted, Blowout Series Toilet with back spud, 1.6 GPF, toilet waste extension, 3" PVC waste coupling, hydraulic flush valve, flush valve connection, high polish seat, wall sleeve, and toilet shipping cover

Use the following Willoughby Model Number:
ETW-1490-OF-BS-1.6-TWE-TWC3P-FV-FVT-HPS-WS-TSC

Recommended Specifications

Wall Outlet, Off Floor Mounted, Blowout Series Toilet shall be:
Willoughby Model No. **ETW-1490-OF**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/ CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick.

Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or off-set type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ ETW-1490-OF Wall Outlet, Off Floor Mounted, Blowout Series Toilet

2.) Inlet Location:
- ❑ BS Back Spud
- ❑ TS Top Spud

3.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

4.) Toilet Waste:
- ❑ TWE Toilet Waste Extension (Standard)
- ❑ TW3 3" Clean-out for (TWE)
- ❑ TW5 4" Clean-out for (TWE)
- ❑ GWC Gasketed Waste Connection
- ❑ PC3 Pinned Clean-out Plug PVC-3"
- ❑ PCB3 Pinned Clean-out Plug Brass-3"
- ❑ PC4 Pinned Clean-out Plug PVC-4"
- ❑ PCB4 Pinned Clean-out Plug Brass-4"
- ❑ COH4 4" Clean-out Hook, 4" PVC Plug
- ❑ COHB4 4" Clean-out Hook, 4" Brass Plug

5.) Waste Coupling for (TWE) Toilet Waste Extension:
- ❑ TWC3P Connecting to 3" PVC
- ❑ TWC3C Connecting to 3" Cast Iron
- ❑ TWC4P Connecting to 4" PVC
- ❑ TWC4C Connecting to 4" Cast Iron

6.) Other Options:
- ❑ T4 Manual Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
- ❑ T4A Auto Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase

[CONTINUED IN NEXT COLUMN:]

[Other Options CONTINUED:]
- ❑ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV), Accessible Chase, & (WUCC-3010) or (WMSII) control
- ❑ FV Hydraulic Flush Valve (Includes Actuator)
- ❑ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*
- ❑ TFE Toilet Flush Extension
- ❑ FVT Flush Valve Connection (Back Spud Only)
- ❑ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)
- ❑ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
- ❑ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
- ❑ HS Hinged White Plastic Seat (No Cover, not recommended for Maximum Security/Ligature-resistant use)
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ MT Wall Template
- ❑ WS Wall Sleeve (Requires Accessible Chase)
- ❑ TSC Toilet Shipping Cover
- ❑ RTH1 Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase)
- ❑ RTH2 Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth)
- ❑ Other _____

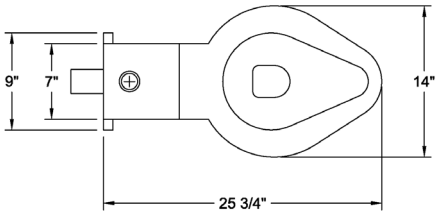
7.) Electronic Controls* (Must Use Electronic Flush Valve):
- ❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
- ❑ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

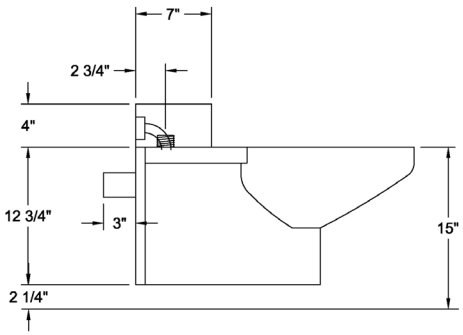
Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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PLAN VIEW



SIDE VIEW

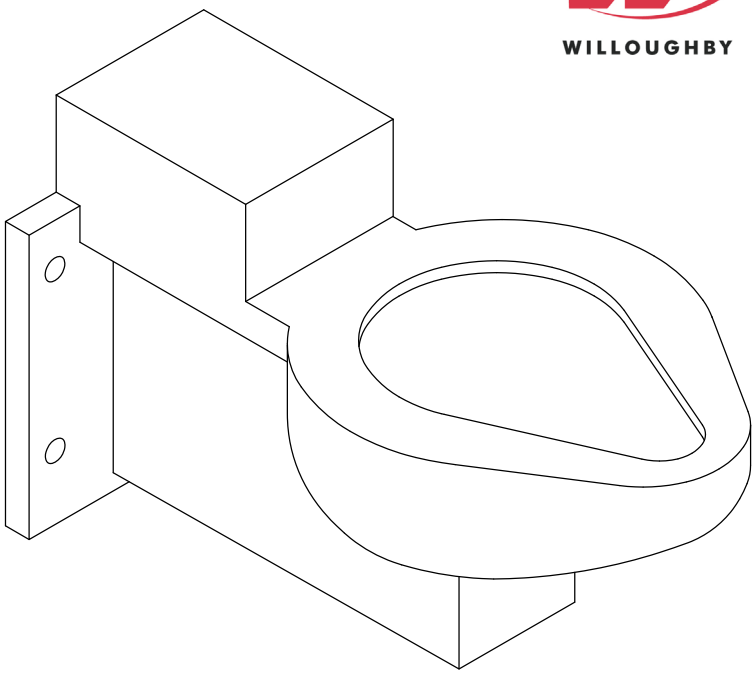
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Willoughby Industries - *Security Products*

ETWS-1490-CM
Wall Outlet
Carrier Mounted (4-bolt)
Siphon Jet Series
Water Closet



(1.6 GPF UNIT SHOWN)
(Unit may be shown with optional features)

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010

* IF MOUNTING WITH SEAT HEIGHT BETWEEN 17"-19" A.F.F.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Wall Outlet, Carrier Mounted (4-bolt) Siphon Jet Toilet with back spud, 1.6 GPF, gasketed waste connection, hydraulic flush valve, flush valve connection, high polish seat, and toilet shipping cover

Use the following Willoughby Model Number:
ETWS-1490-CM-BS-1.6-GWC-FV-FVT-HPS-TSC

Recommended Specifications

Wall Outlet, Carrier Mounted (4-bolt) Siphon Jet Toilet shall be:
Willoughby Model No. **ETWS-1490-CM**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be siphon jet type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/ CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Anchoring shall be by standard 4-bolt siphon jet carrier. (Carrier and fasteners by others).

Unit requires no chase area for installation and maintenance unless specified with any Toilet Waste Extension options or Toilet Overflow Preventer options.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or off-set type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ ETWS-1490-CM Wall Outlet, Carrier Mounted (4-bolt) Siphon Jet Toilet

2.) Inlet Location:
- ❑ BS Back Spud
- ❑ TS Top Spud

3.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

4.) Toilet Waste:
- ❑ GWC Gasketed Waste Connection (Standard)

5.) Other Options:
- ❑ T4 Manual Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
- ❑ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV), Accessible Chase, & (WUCC-3010) or (WMSII) control
- ❑ FV Hydraulic Flush Valve (Includes Actuator)
- ❑ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*
- ❑ FVT Flush Valve Connection (Back Spud Only)
- ❑ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)
- ❑ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
- ❑ AP Flush Valve Access Panel (Allows access to chase-mounted flush valve from fixture side)
- ❑ HS Hinged White Plastic Seat (No Cover, not recommended for Maximum Security/Ligature-resistant use)
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*

[CONTINUED IN NEXT COLUMN:]

[Other Options CONTINUED:]
- ❑ HPS High Polish Seat
- ❑ TSC Toilet Shipping Cover
- ❑ RTH1 Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase)
- ❑ RTH2 Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth)
- ❑ RFVB Remote Flush Valve with Box
- ❑ REFVB Remote Electronic Flush Valve with Box*
- ❑ Other _____
- ❑ Other _____

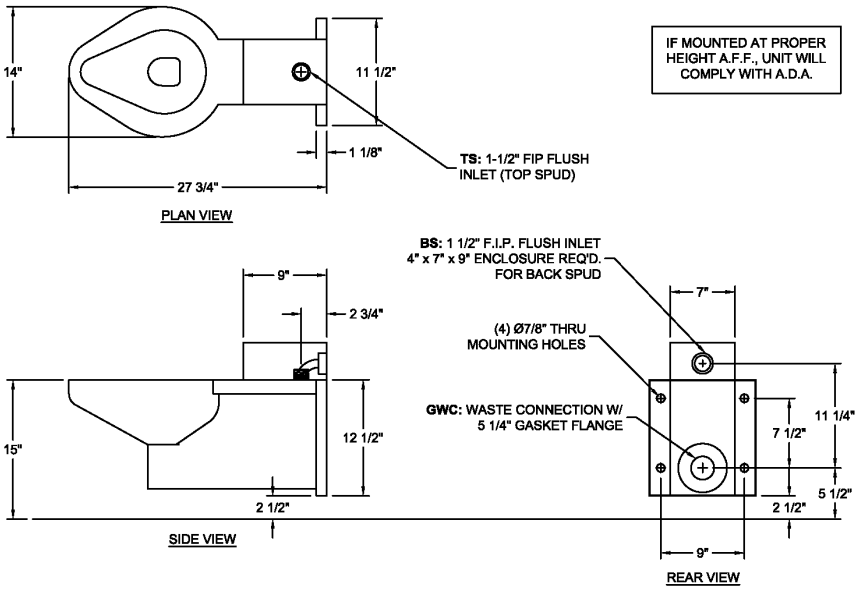
6.) Electronic Controls* (Must Use Electronic Flush Valve):
- ❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
- ❑ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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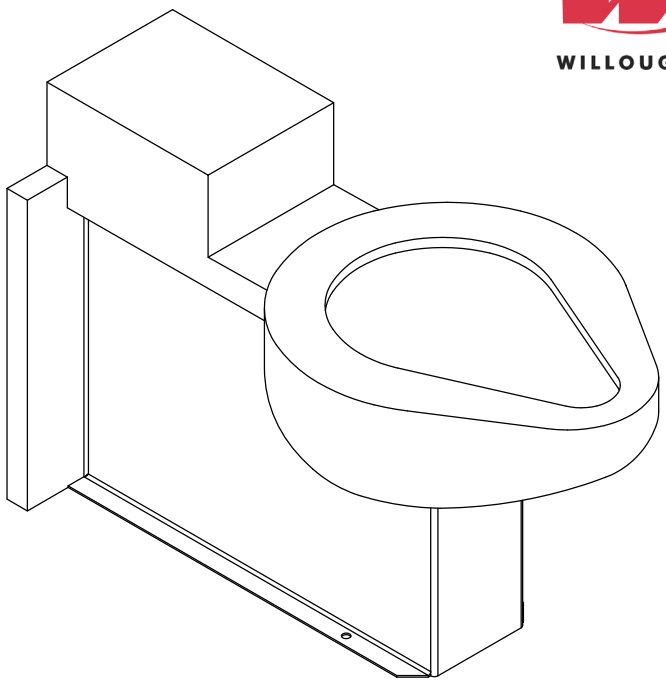
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Willoughby Industries - *Security Products*

ETWS-1490-FM
Wall Outlet
Floor Mounted
Siphon Jet Series
Water Closet



(1.6 GPF UNIT W/ 15" A.F.F. SEAT HEIGHT* SHOWN)
(Unit may be shown with optional features)

Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010

** USE "HC" SUFFIX FOR 18" A.F.F.SEAT HEIGHT

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Wall Outlet, Floor Mounted, Siphon Jet Series Toilet with back spud, standard 15" seat height, 1.6 GPF, toilet waste extension, 3" PVC waste connection, hydraulic flush valve, flush valve connection, high polish seat, wall sleeve, and toilet shipping cover

Use the following Willoughby Model Number:
ETWS-1490-FM-BS-1.6-TWE-TWC3P-FV-FVT-HPS-WS-TSC

Recommended Specifications

Wall Outlet, Floor Mounted, Siphon Jet Series Toilet shall be:
Willoughby Model No. **ETWS-1490-FM**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be siphon jet type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/ CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Anchoring shall be by standard 6-point system (4 in the wall and 2 in the floor): threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Floor anchoring hardware by others.

Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ ETWS-1490-FM Wall Outlet, Floor Mounted, Siphon Jet Series Toilet

2.) Inlet Location:
- ❑ BS Back Spud
- ❑ TS Top Spud

3.) Toilet Seat Height:
- ❑ 15" Seat Height (Standard)
- ❑ HC 18" Seat Height, Handicap-ADA Compliant

4.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

5.) Toilet Waste:
- ❑ TWE Toilet Waste Extension (Standard)
- ❑ TW3 3" Clean-out for (TWE)
- ❑ TW5 4" Clean-out for (TWE)
- ❑ GWC Gasketed Waste Connection
- ❑ PC3 Pinned Clean-out Plug PVC-3”
- ❑ PCB3 Pinned Clean-out Plug Brass-3”
- ❑ PC4 Pinned Clean-out Plug PVC-4”
- ❑ PCB4 Pinned Clean-out Plug Brass-4”
- ❑ COH4 4" Clean-out Hook, 4" PVC Plug
- ❑ COHB4 4" Clean-out Hook, 4" Brass Plug

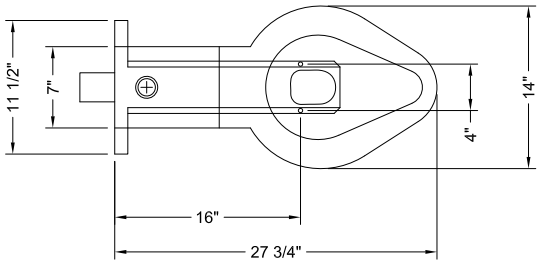
6.) Waste Coupling for (TWE) Toilet Waste Extension:
- ❑ TWC3P Connecting to 3" PVC
- ❑ TWC3C Connecting to 3" Cast Iron
- ❑ TWC4P Connecting to 4" PVC
- ❑ TWC4C Connecting to 4" Cast Iron

7.) Other Options:
- ❑ T4 Manual Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
- ❑ T4A Auto Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
- ❑ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV), Accessible Chase, & (WUCC-3010) or (WMSII) control
- ❑ FV Hydraulic Flush Valve (Includes Actuator)
- ❑ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*
- ❑ TFE Toilet Flush Extension
- ❑ FVT Flush Valve Connection (Back Spud Only)
- ❑ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)
- ❑ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
- ❑ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
- ❑ HS Hinged White Plastic Seat (No Cover, not recommended for Maximum Security/Ligature-resistant use)
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ MT Wall Template
- ❑ WS Wall Sleeve (Requires Accessible Chase)
- ❑ TSC Toilet Shipping Cover
- ❑ RTH1 Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase)
- ❑ RTH2 Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth)
- ❑ Other _____

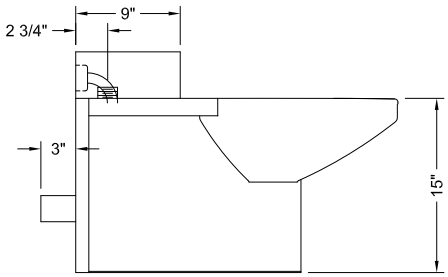
8.) Electronic Controls* (Must Use Electronic Flush Valve):
- ❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
- ❑ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____



PLAN VIEW



SIDE VIEW

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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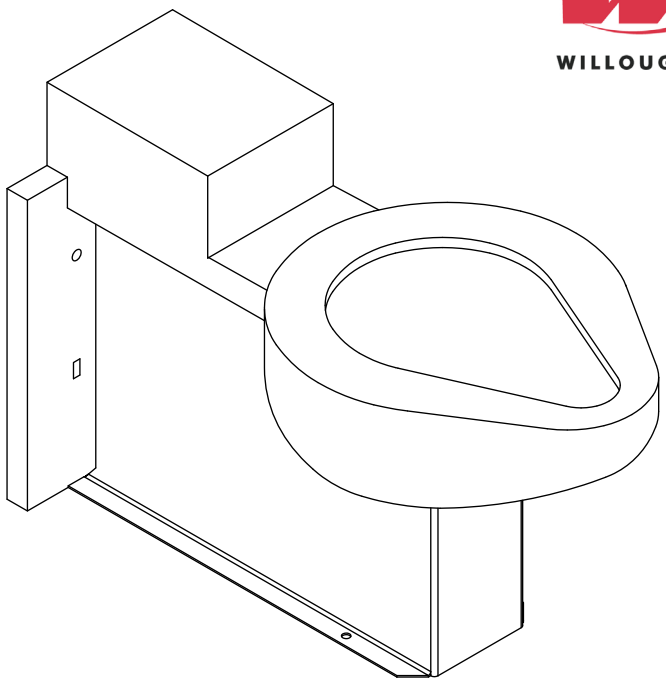
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ETWS-1490-FM-FA
Front Access
Wall Outlet
Floor Mounted
Siphon Jet Series
Water Closet

Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010

** USE "HC" SUFFIX FOR 18" A.F.F.SEAT HEIGHT



(1.6 GPF UNIT W/ 15" A.F.F. SEAT HEIGHT* SHOWN)
(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Front Access, Wall Outlet, Floor Mounted Siphon Jet Series Toilet with back spud, standard 15" seat height, 1.6 GPF, gasketed waste connection, hydraulic flush valve, flush valve connection, high polish seat, and toilet shipping cover

Use the following Willoughby Model Number:
ETWS-1490-FM-FA-BS-1.6-GWC-FV-FVT-HPS-TSC

Recommended Specifications

Front Access, Wall Outlet, Floor Mounted Siphon Jet Series Toilet shall be: Willoughby Model No. **ETWS-1490-FM-FA**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be siphon jet type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/ CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Anchoring shall be through the front and through the floor(anchoring hardware provided by others).

Unit requires no chase area for installation and maintenance unless specified with any Toilet Waste Extension options or Toilet Overflow Preventer options.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or off-set type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ ETWS-1490-FM-FA Front Access, Wall Outlet, Floor Mounted Siphon Jet Series Toilet

2.) Inlet Location:

❑ BS Back Spud
❑ TS Top Spud

3.) Toilet Seat Height:

❑ 15" Seat Height (Standard)
❑ HC 18" Seat Height, Handicap-ADA Compliant

4.) Flush Valve GPF (Must Specify):

❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
❑ 1.6 GPF ULF (6.0 Lpf)
❑ 3.5 GPF (13.2 Lpf)

5.) Toilet Waste:

❑ GWC Gasketed Waste Connection (Standard)
❑ PC3 Pinned Clean-out Plug PVC-3”
❑ PCB3 Pinned Clean-out Plug Brass-3”
❑ PC4 Pinned Clean-out Plug PVC-4”
❑ PCB4 Pinned Clean-out Plug Brass-4”

6.) Other Options:

❑ T4 Manual Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
❑ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV), Accessible Chase, & (WUCC-3010) or (WMSII) control
❑ FV Hydraulic Flush Valve (Includes Actuator)
❑ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*
❑ FVT Flush Valve Connection (Back Spud Only)

[CONTINUED IN NEXT COLUMN:]

[Other Options CONTINUED:]

❑ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)
❑ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
❑ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
❑ HS Hinged White Plastic Seat (No Cover, not recommended for Maximum Security/Ligature-resistant use)
❑ DC Decorator Color (Fixture exterior only - White)
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ HPS High Polish Seat
❑ MT Wall Template
❑ TSC Toilet Shipping Cover
❑ RTH1 Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase)
❑ RTH2 Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth)
❑ RFVB Remote Flush Valve with Box
❑ REFVB Remote Electronic Flush Valve with Box*
❑ Other _____

7.) Electronic Controls* (Must Use Electronic Flush Valve):

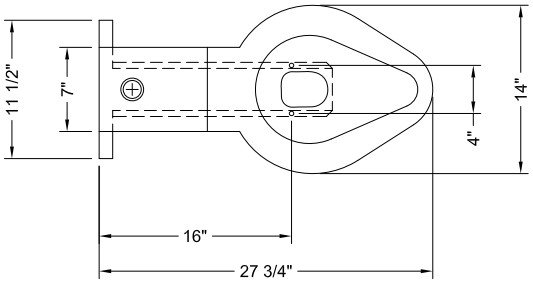
❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
❑ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

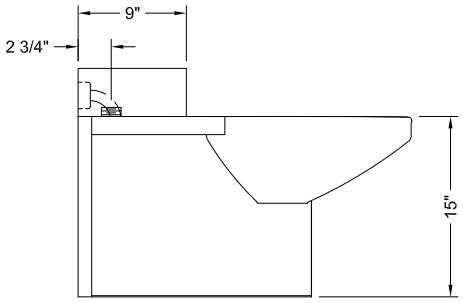
Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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PLAN VIEW



SIDE VIEW

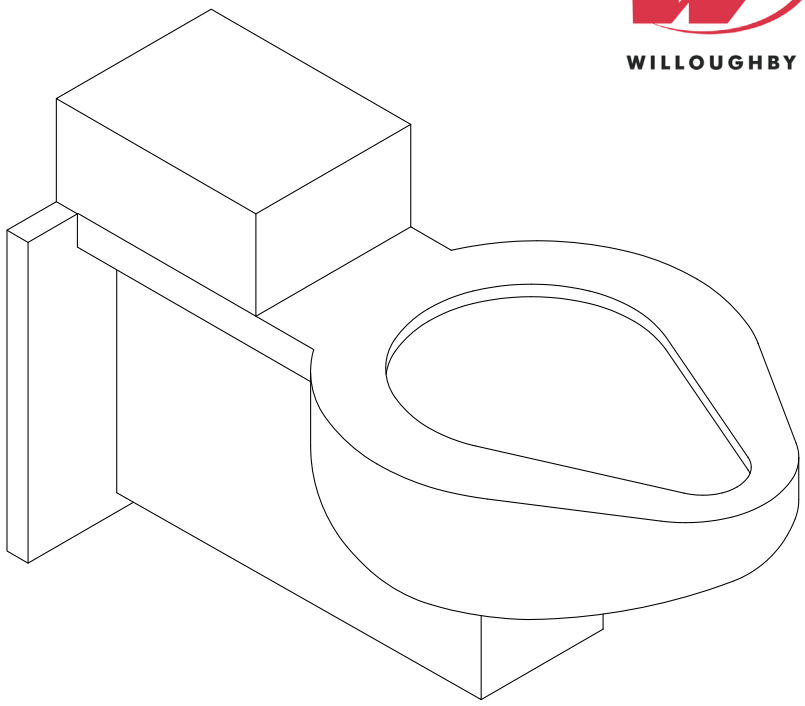
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Willoughby Industries - *Security Products*

ETWS-1490-OF
Wall Outlet
Off Floor Mounted
Siphon Jet Series
Water Closet



(1.6 GPF UNIT SHOWN)
(Unit may be shown with optional features)

Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010

* IF MOUNTING WITH SEAT HEIGHT BETWEEN 17"-19" A.F.F.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Wall Outlet, Off Floor Mounted, Siphon Jet Series Toilet with back spud, 1.6 GPF, toilet waste extension, 3" PVC waste connection, hydraulic flush valve, flush valve connection, high polish seat, wall sleeve, and toilet shipping cover

Use the following Willoughby Model Number:
ETWS-1490-OF-BS-1.6-TWE-TWC3P-FV-FVT-HPS-WS-TSC

Recommended Specifications

Wall Outlet, Off Floor Mounted, Siphon Jet Series Toilet shall be:
Willoughby Model No. **ETWS-1490-OF**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be siphon jet type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/ CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick.

Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or off-set type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ ETWS-1490-OF Wall Outlet, Off Floor Mounted, Siphon Jet Series Toilet

2.) Inlet Location:
- ❑ BS Back Spud
- ❑ TS Top Spud

3.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

4.) Toilet Waste:
- ❑ TWE Toilet Waste Extension (Standard)
- ❑ TW3 3" Clean-out for (TWE)
- ❑ TW5 4" Clean-out for (TWE)
- ❑ GWC Gasketed Waste Connection
- ❑ PC3 Pinned Clean-out Plug PVC-3"
- ❑ PCB3 Pinned Clean-out Plug Brass-3"
- ❑ PC4 Pinned Clean-out Plug PVC-4"
- ❑ PCB4 Pinned Clean-out Plug Brass-4"
- ❑ COH4 4" Clean-out Hook, 4" PVC Plug
- ❑ COHB4 4" Clean-out Hook, 4" Brass Plug

5.) Waste Coupling for (TWE) Toilet Waste Extension:
- ❑ TWC3P Connecting to 3" PVC
- ❑ TWC3C Connecting to 3" Cast Iron
- ❑ TWC4P Connecting to 4" PVC
- ❑ TWC4C Connecting to 4" Cast Iron

6.) Other Options:
- ❑ T4 Manual Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
- ❑ T4A Auto Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase

[CONTINUED IN NEXT COLUMN:]

[Other Options CONTINUED:]
- ❑ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV), Accessible Chase, & (WUCC-3010) or (WMSII) control
- ❑ FV Hydraulic Flush Valve (Includes Actuator)
- ❑ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*
- ❑ TFE Toilet Flush Extension
- ❑ FVT Flush Valve Connection (Back Spud Only)
- ❑ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)
- ❑ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
- ❑ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
- ❑ HS Hinged White Plastic Seat (No Cover, not recommended for Maximum Security/Ligature-resistant use)
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ MT Wall Template
- ❑ WS Wall Sleeve (Requires Accessible Chase)
- ❑ TSC Toilet Shipping Cover
- ❑ RTH1 Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase)
- ❑ RTH2 Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth)
- ❑ Other _____

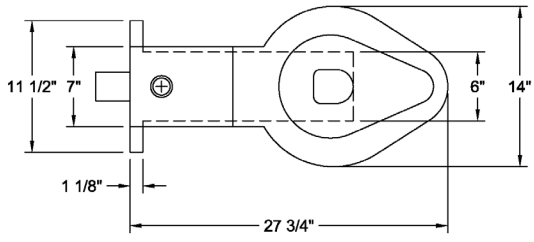
7.) Electronic Controls* (Must Use Electronic Flush Valve):
- ❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
- ❑ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

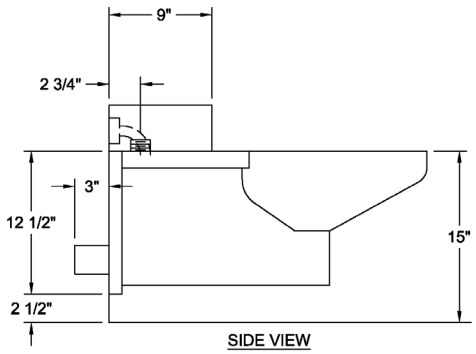
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Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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PLAN VIEW



SIDE VIEW

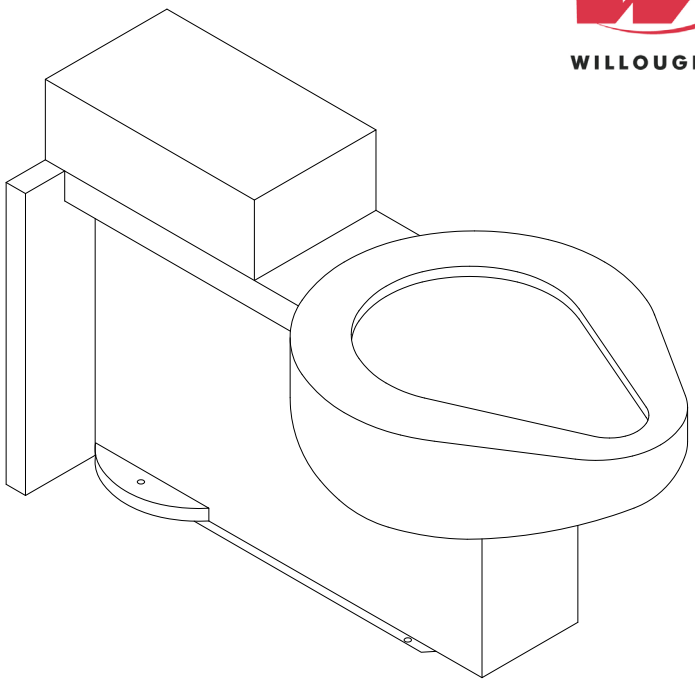
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Willoughby Industries - *Security Products*

ETF-1490-FM
Floor Outlet
Floor Mounted
Siphon Jet Series
Water Closet



(1.6 GPF UNIT W/ 15" A.F.F. SEAT HEIGHT* SHOWN)
(Unit may be shown with optional features)

Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010

** USE "HC" SUFFIX FOR 18" A.F.F.SEAT HEIGHT

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an ETF-1490-FM floor mounted, floor outlet siphon jet toilet with top spud, standard 15" seat height, 1.6 GPF, standard gasketed waste connection, floor outlet waste connection, hydraulic flush valve, flush valve cover, high polish seat, wall sleeve, and toilet shipping cover

Use the following Willoughby Model Number:
ETF-1490-FM-TS-1.6-GWC-TW4-FV-FVC-HPS-WS-TSC

Recommended Specifications

Floor Outlet, Floor Mounted, Siphon Jet Series Toilet shall be:
Willoughby Model No. **ETF-1490-FM**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be siphon jet type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/ CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Floor anchoring hardware by others.

Unit shall require chase area for installation and maintenance.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ ETF-1490-FM Floor Outlet, Floor Mounted, Siphon Jet Series Toilet

2.) Floor Outlet Rough-In:
- ❑ 4-1/4" Fixture Rough-In (Shown, Standard)
- ❑ 10" 10" Fixture Rough-In
- ❑ 12" 12" Fixture Rough-In (Changes Overall Fixture Length to 32-3/4")

3.) Inlet Location:
- ❑ BS Back Spud
- ❑ TS Top Spud

4.) Toilet Seat Height:
- ❑ 15" Seat Height (Standard)
- ❑ HC 18" Seat Height, Handicap-ADA Compliant

5.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

6.) Toilet Waste:
- ❑ GWC Gasketed Waste Connection (Standard)
- ❑ TW4 Floor Outlet Waste Connection

7.) Other Options:
- ❑ T4 Manual Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
- ❑ T4A Auto Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
- ❑ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV), Accessible Chase, & (WUCC-3010) or (WMSII) control
- ❑ FV Hydraulic Flush Valve (Includes Actuator)
- ❑ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*

[CONTINUED IN NEXT COLUMN:]

[Other Options CONTINUED:]
- ❑ TFE Toilet Flush Extension
- ❑ FVT Flush Valve Connection (Back Spud Only)
- ❑ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)
- ❑ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
- ❑ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
- ❑ HS Hinged White Plastic Seat (No Cover, not recommended for Maximum Security/Ligature-resistant use)
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ MT Wall Template
- ❑ WS Wall Sleeve (Requires Accessible Chase)
- ❑ TSC Toilet Shipping Cover
- ❑ RTH1 Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase)
- ❑ RTH2 Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth)
- ❑ Other _____

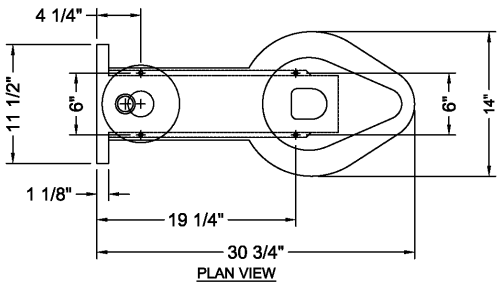
8.) Electronic Controls* (Must Use Electronic Flush Valve):
- ❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
- ❑ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

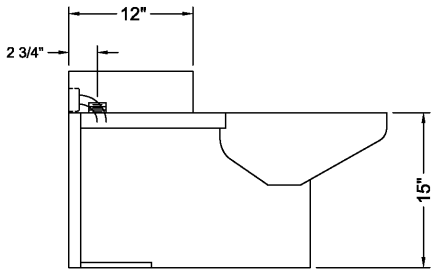
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Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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PLAN VIEW



SIDE VIEW

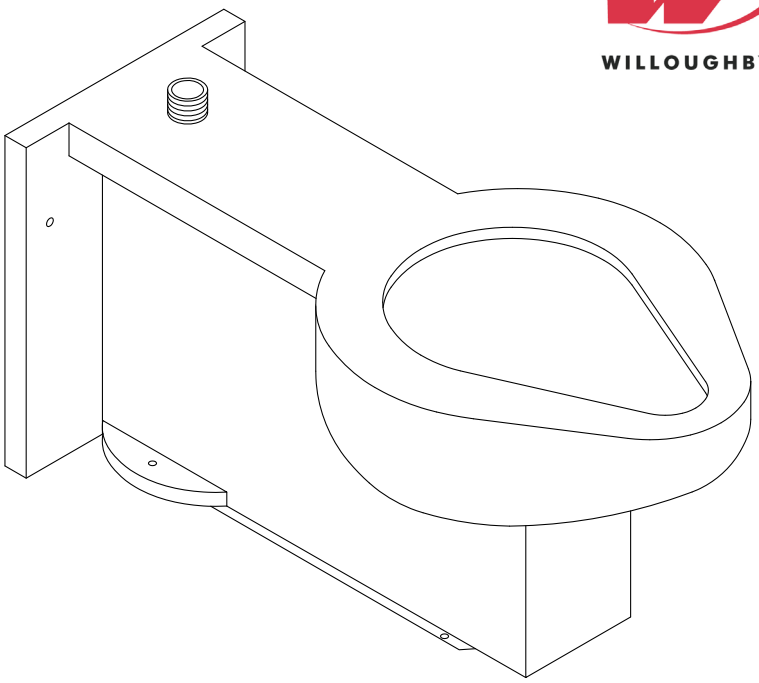
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ETF-1490-FM-FA
Front Access
Floor Outlet
Floor Mounted
Siphon Jet Series
Water Closet



(1.6 GPF UNIT W/ 15" A.F.F. SEAT HEIGHT* SHOWN)
(Unit may be shown with optional features)

Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010

** USE "HC" SUFFIX FOR 18" A.F.F.SEAT HEIGHT

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Front Access, Floor Outlet, Floor Mounted Siphon Jet Series Toilet with top spud, standard 15" seat height, 1.6 GPF, standard gasketed waste connection, floor outlet waste connection, hydraulic flush valve, flush valve cover, high polish seat, and toilet shipping cover

Use the following Willoughby Model Number:
ETF-1490-FM-FA-TS-1.6-GWC-TW4-FV-FVC-HPS-TSC

Recommended Specifications

Front Access, Floor Outlet, Floor Mounted Siphon Jet Series Toilet shall be: Willoughby Model No. **ETF-1490-FM-FA**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be siphon jet type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/ CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Anchoring shall be through the front and through the floor (anchoring hardware provided by others).

Unit requires no chase area for installation and maintenance unless specified with any Toilet Waste Extension options or Toilet Overflow Preventer options.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ ETF-1490-FM-FA — Front Access, Floor Outlet, Floor Mounted Siphon Jet Series Toilet

2.) Floor Outlet Rough-In:

❑ 4-1/4" Fixture Rough-In (Shown, Standard)
❑ 10" 10" Fixture Rough-In
❑ 12" 12" Fixture Rough-In (Changes Overall Fixture Length to 32-3/4")

3.) Inlet Location:

❑ BS Back Spud
❑ TS Top Spud

4.) Toilet Seat Height:

❑ 15" Seat Height (Standard)
❑ HC 18" Seat Height, Handicap-ADA Compliant

5.) Flush Valve GPF (Must Specify):

❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
❑ 1.6 GPF ULF (6.0 Lpf)
❑ 3.5 GPF (13.2 Lpf)

6.) Toilet Waste:

❑ GWC Gasketed Waste Connection (Standard)
❑ TW4 Floor Outlet Waste Connection

7.) Other Options:

❑ T4 Manual Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
❑ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV), Accessible Chase, & (WUCC-3010) or (WMSII) control
❑ FV Hydraulic Flush Valve (Includes Actuator)
❑ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*

[CONTINUED IN NEXT COLUMN:]

[Other Options CONTINUED:]

❑ FVT Flush Valve Connection (Back Spud Only)
❑ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)
❑ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
❑ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
❑ HS Hinged White Plastic Seat (No Cover, not recommended for Maximum Security/Ligature-resistant use)
❑ DC Decorator Color (Fixture exterior only - White)
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ HPS High Polish Seat
❑ MT Wall Template
❑ TSC Toilet Shipping Cover
❑ RTH1 Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase)
❑ RTH2 Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth)
❑ RFVB Remote Flush Valve with Box
❑ REFVB Remote Electronic Flush Valve with Box*
❑ Other _____
❑ Other _____

8.) Electronic Controls* (Must Use Electronic Flush Valve):

❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
❑ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

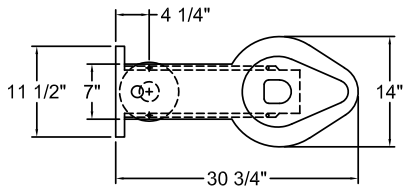
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

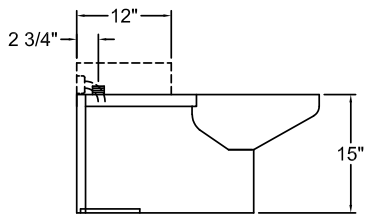
VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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ETF-1490-FM-FA
(4-1/4" ROUGH-IN)

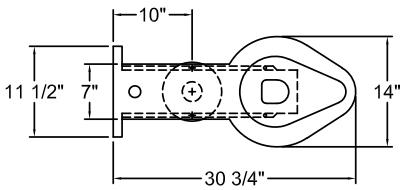


PLAN VIEW

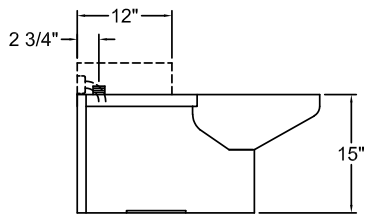


SIDE VIEW

ETF-1490-FM-FA-10"
(10" ROUGH-IN)

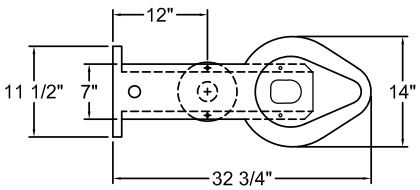


PLAN VIEW

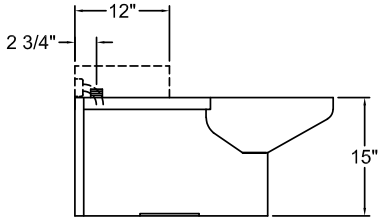


SIDE VIEW

ETF-1490-FM-FA-12"
(12" ROUGH-IN)



PLAN VIEW



SIDE VIEW

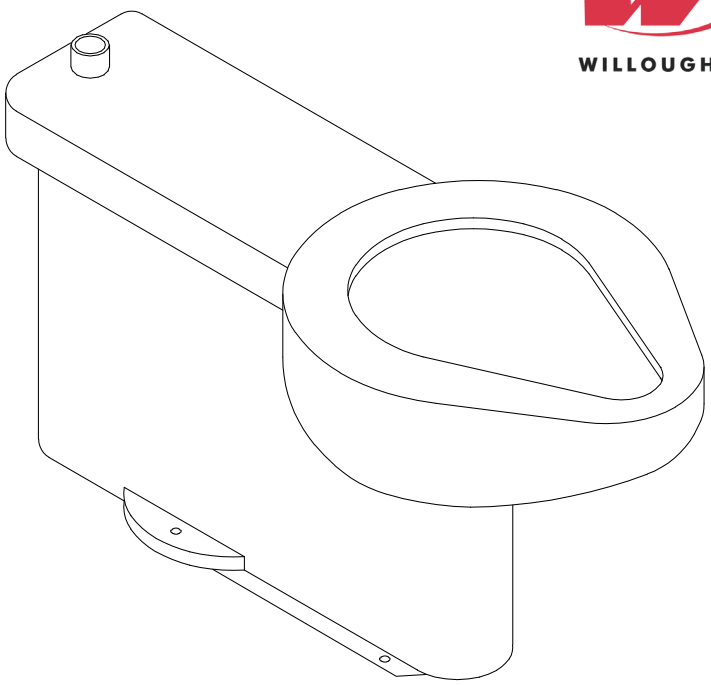
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Willoughby Industries - *Security Products*

ETF-1490-OW
Floor Outlet
Off Wall Mounted
Siphon Jet Series
Water Closet



(1.6 GPF UNIT W/ 15" A.F.F. SEAT HEIGHT* SHOWN)
(Unit may be shown with optional features)

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010

** USE "HC" SUFFIX FOR 18" A.F.F.SEAT HEIGHT

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Floor Outlet, Off Wall Mounted, Siphon Jet Series Toilet with top spud, standard 15" seat height, 1.6 GPF, floor outlet waste connection, high polish seat, and toilet shipping cover

Use the following Willoughby Model Number:
ETF-1490-OW-TS-1.6-TW4-HPS-TSC

Recommended Specifications

Floor Outlet, Off Wall Mounted, Siphon Jet Series Toilet shall be:
Willoughby Model No. **ETF-1490-OW**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be siphon jet type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/ CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Anchoring shall be through the floor (anchoring hardware provided by others).

Unit requires no chase area for installation and maintenance.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ ETF-1490-OW Floor Outlet, Off Wall Mounted, Siphon Jet Series Toilet

2.) Inlet Location:
- ❑ TS Top Spud

3.) Toilet Seat Height:
- ❑ 15" Seat Height (Standard)
- ❑ HC 18" Seat Height, Handicap-ADA Compliant

4.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

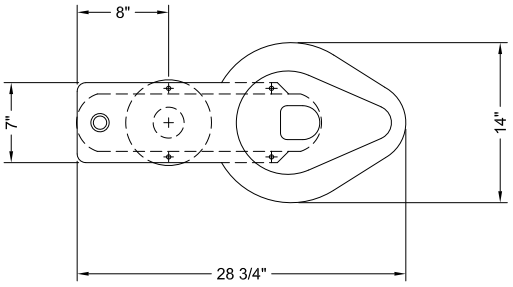
5.) Toilet Waste:
- ❑ GWC Gasketed Waste Connection (Standard)
- ❑ TW4 Floor Outlet Waste Connection

6.) Other Options:
- ❑ HS Hinged White Plastic Seat (No Cover, not recommended for Maximum Security/Ligature-resistant use)
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ HPS High Polish Seat
- ❑ TSC Toilet Shipping Cover
- ❑ RTH1 Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase)
- ❑ RTH2 Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth)
- ❑ Other _____
- ❑ Other _____

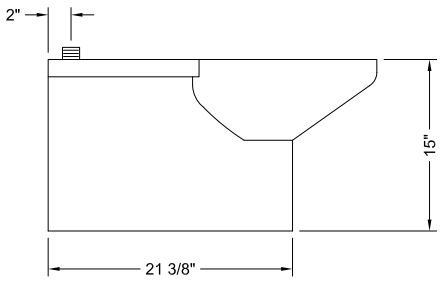
Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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PLAN VIEW



SIDE VIEW

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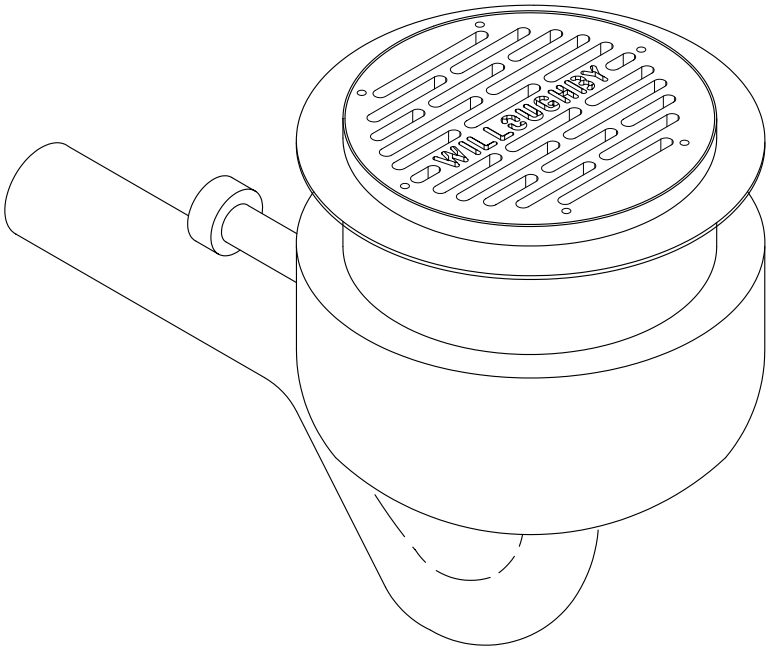
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Willoughby Industries - *Security Products*

WILLOUGHBY

FD-1400
Detox Toilet



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an FD-1400 detox with flange, 3.5 GPF (13.2 Lpf), and remote flush valve with wall box

Use the following Willoughby Model Number:
FD-1400-WF-3.5-RFVB

Recommended Specifications

Detox Toilet shall be:
Willoughby Model No. **FD-1400**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:
- 14" diameter round bowl with 2" top band
- Removable 7 GA. S/S top grate for access to bowl interior
- Integral crevice free flushing rim with positive afterfill
  (1" wide full perimeter flange is standard on FD-1400-WF fixture for padded cell installations)

Toilet shall be blowout type, requiring 35 PSI minimum flushing pressure. Trap shall be fully enclosed, maintain a minimum 3-1/2" seal and pass a 2-5/8" ball.

Note: For ULF 1.6 GPF, unit will pass a 2-1/8" ball.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ FD-1400

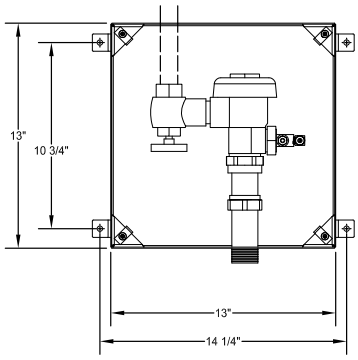
2.) Flange:
- ❑ LFL Less Flange
- ❑ WF With Flange

3.) Flush Valve GPF (Must Specify):
- ❑ 3.5 GPF (13.2 Lpf) (Standard, 3" waste tube required)
- ❑ 1.6 GPF ULF (6.0 Lpf)

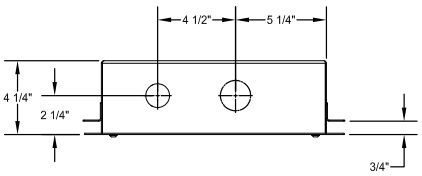
4.) Other Options:
- ❑ FV Hydraulic Flush Valve (Includes Actuator)
- ❑ AP Flush Valve Access Panel
- ❑ RFVB Remote Flush Valve with Box
- ❑ REFVB Remote Electronic Flush Valve with Box*
- ❑ RMPB Remote Mounted Flush Valve Push Button (Must be located within 10' of Flush Valve)
- ❑ HB-8156 Dual Temp. Single Outlet Hose Box
- ❑ EFV Electronic Flush Valve (Pick Control)*
- ❑ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*
- ❑ TF24H Hard-wired Transformer, 110/24VAC*
- ❑ TF24P Plug-in Transformer, 110/24VAC*
- ❑ Other _____

5.) Electronic Controls (Must Use Electronic Flush Valve):
- ❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
- ❑ WUCC-3010 (Select WUCC-3010 Control if pairing a Detox Toilet with a Lavatory)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)



FRONT VIEW
COVER REMOVED



TOP VIEW

Recommended Specifications: **RFVB**

Remote flush box with integral flush valve shall be:
Willoughby Model No. **RFVB**

The front cover shall be fabricated from 14 gauge, type 304 stainless steel with exposed surfaces polished to a #4 satin finish.

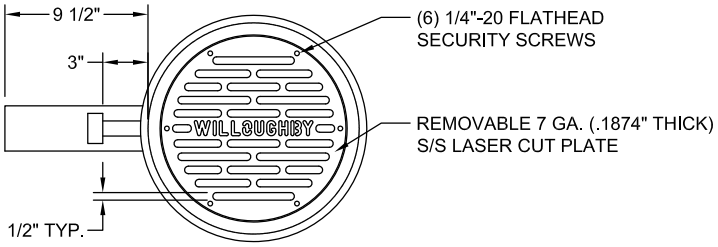
The cover shall be mounted to the wall box with security screws. The wall box and wall brackets shall be fabricated from 20 gauge galvanized steel.

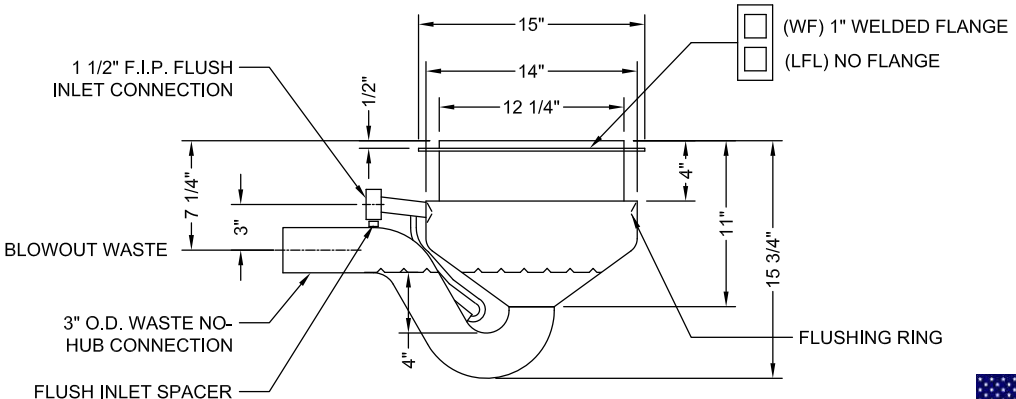
The integral flush valve shall be non-hold open type.

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN
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3.5 GPF VERSION SHOWN



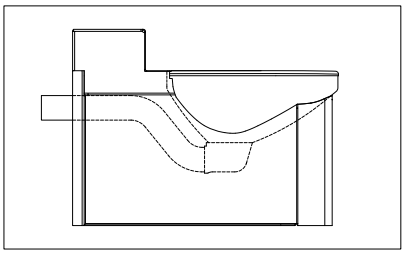


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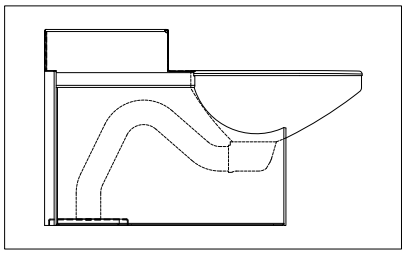
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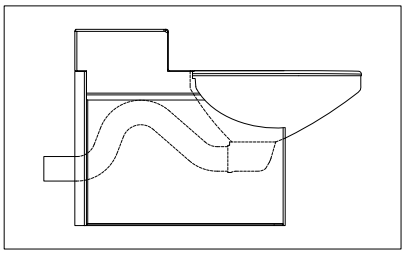
TOILET WASTE LOCATION



(ETW)- WALL OUTLET, BLOWOUT

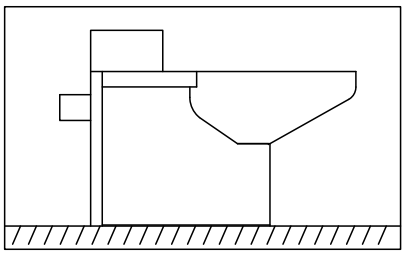


(ETF)- FLOOR OUTLET, SIPHON JET

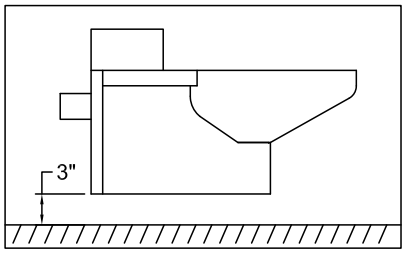


(ETWS)- WALL OUTLET, SIPHON JET

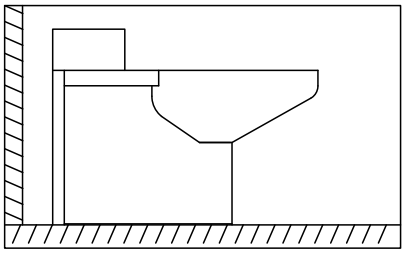
FIXTURE MOUNTING



(FM)- FLOOR MOUNTED

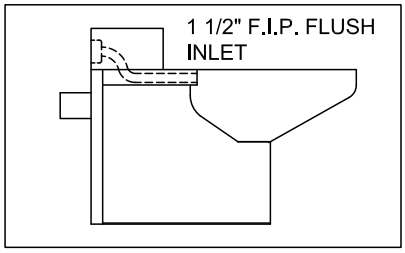


(OF)- OFF FLOOR MOUNTED

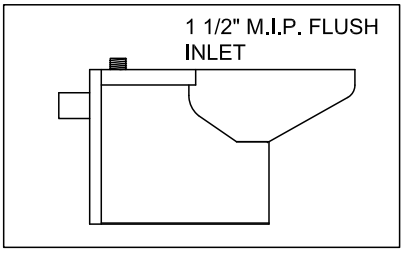


(OW)- OFF WALL MOUNTED

INLET LOCATION



(BS)- BACK SPUD



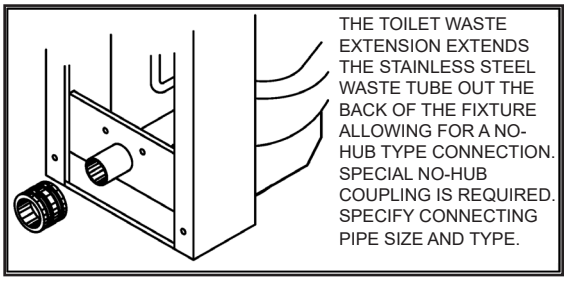
(TS)- TOP SPUD

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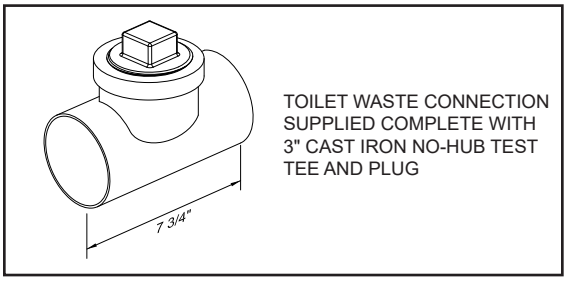
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TOILET WASTE OPTIONS



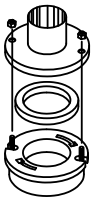
THE TOILET WASTE EXTENSION EXTENDS THE STAINLESS STEEL WASTE TUBE OUT THE BACK OF THE FIXTURE ALLOWING FOR A NO-HUB TYPE CONNECTION. SPECIAL NO-HUB COUPLING IS REQUIRED. SPECIFY CONNECTING PIPE SIZE AND TYPE.

(TWE)- TOILET WASTE EXTENSION



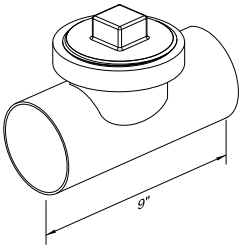
TOILET WASTE CONNECTION SUPPLIED COMPLETE WITH 3" CAST IRON NO-HUB TEST TEE AND PLUG

(TW3)- NO-HUB WASTE W/ 3" CLEAN-OUT



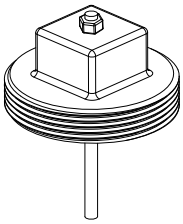
TOILET WASTE CONNECTION, SUPPLIED COMPLETE WITH Ø5-1/4" NEOPRENE GASKET, 5/16" ANCHOR STUDS AND 4" x 4" FLOOR FLANGE.

(TW4) FLOOR OUTLET WASTE CONNECTION



TOILET WASTE CONNECTION SUPPLIED COMPLETE WITH 4" CAST IRON NO-HUB TEST TEE AND PLUG

(TW5)- NO-HUB WASTE W/ 4" CLEAN-OUT



THE PINNED CLEAN-OUT PLUG IS USED TO STOP LARGE OBJECTS FROM ENTERING THE BUILDING'S MAIN WASTE SYSTEM.

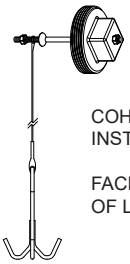
3" PVC OR 4" PVC CLEAN-OUT PLUGS ARE STANDARD. BRASS CLEAN-OUT PLUGS ARE AVAILABLE UPON REQUEST. SPECIFY "PCB" FOR BRASS.

(PC__)- PINNED CLEAN-OUT PLUG



GASKETED TOILET WASTE CONNECTION TO MATE WITH INSTALLER-SUPPLIED FLANGE

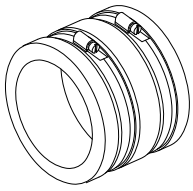
(GWC)- GASKETED WASTE CONNECTION (WALL OUTLET SHOWN)



COH - CLEAN-OUT HOOK IS CONVENIENTLY INSTALLED INTO VERTICAL WASTE PIPING.

FACILITATES REMOVAL FROM CHASE SIDE OF LARGE OBJECTS (SHEETS, TOWELS, ETC.)

(COH4) CLEAN-OUT HOOK



WASTE COUPLING USED TO CONNECT FIXTURE (TWE) TOILET WASTE EXTENSION TO WASTE OUTLET

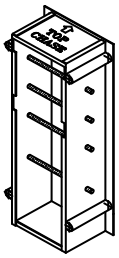
(TWC__)- TOILET WASTE COUPLING

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OPTIONS

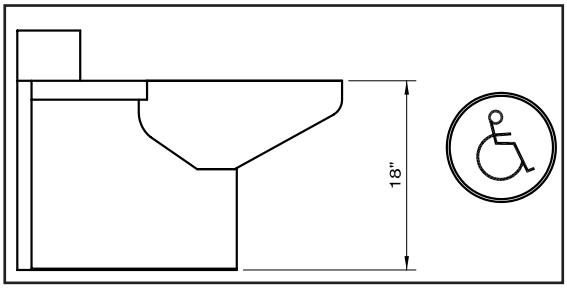


CONSTRUCTED OF 20 GA. GALVANIZED STEEL, WALL SLEEVES PROVIDE FIXTURE PLUMBING ROUGH-IN OPENINGS IN BLOCK/POURED CONCRETE WALLS, BECOMING A PERMANENT PART OF THE WALL

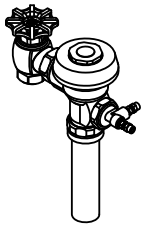
THE Ø1/2" STEEL RODS WELDED TO THE FRAME PROVIDE RIGIDITY AND HINDER ESCAPE INTO THE CHASE SHOULD THE FIXTURE BE REMOVED.

(SLEEVE BRACING IS REQUIRED DURING WALL CONSTRUCTION, BY OTHERS. MUST SPECIFY WALL THICKNESS AND TYPE WHEN ORDERING SLEEVE)

(WS)- WALL SLEEVE



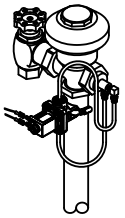
(HC)- 18" ADA-COMPLIANT HANDICAP SEAT HEIGHT



PROVIDES WATER SUPPLY CONTROL FOR FLUSHING WATER CLOSETS. DELANY, SLOAN, AND ZURN FLUSH VALVES ARE COMPATIBLE WITH WILLOUGHBY UNITS.

FLUSH VALVES ARE AVAILABLE IN 3.5 GPF (13.2 Lpf), 1.6 GPF (6.0 Lpf), AND 1.28 GPF (4.8 Lpf).
(SEE **S11-SUPPLEMENTAL INFORMATION**)

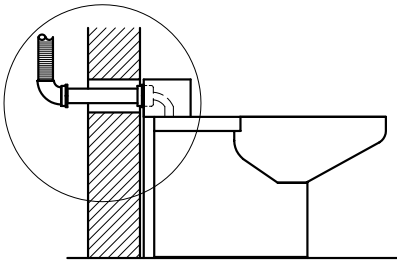
(FV)- HYDRAULIC FLUSH VALVE
(INCLUDES ACTUATOR)



PROVIDES WATER SUPPLY CONTROL FOR FLUSHING WATER CLOSETS. DELANY, SLOAN, AND ZURN FLUSH VALVES ARE COMPATIBLE WITH WILLOUGHBY UNITS.

FLUSH VALVES ARE AVAILABLE IN 3.5 GPF (13.2 Lpf), 1.6 GPF (6.0 Lpf), AND 1.28 GPF (4.8 Lpf).
(SEE **S11-SUPPLEMENTAL INFORMATION**)

(EFVP)- ELECTRONIC FLUSH VALVE w/ (PZPB)
(FOR USE W/ WILLOUGHBY ELECTRONIC CONTROLS)

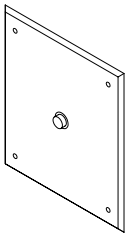


FLUSH VALVE TAILPIECES ARE FURNISHED STANDARD WITH SLIP JOINT FIXTURE CONNECTIONS.

STANDARD SLIP JOINT CONNECTIONS WILL WORK FOR WALL THICKNESSES UP TO 2", BEYOND WHICH THE CONNECTION BECOMES MORE DIFFICULT TO MAKE.

WILLOUGHBY RECOMMENDS THE USE OF A THROUGH-THE-WALL FLUSHING CONNECTION, ALLOWING FOR THE CONNECTION TO BE MADE IN THE CHASE.

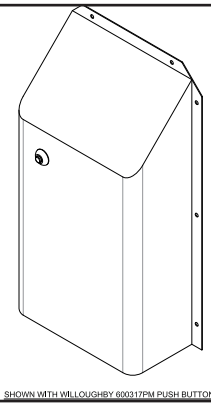
(FVT)- FLUSH VALVE THROUGH WALL CONNECTION



CONSTRUCTED OF 14 GA. TYPE 304 STAINLESS STEEL AND 20 GA. GALVANIZED STEEL (IN-WALL FRAME)

FOR USE WHEN ACCESS TO CHASE MOUNTED FLUSH VALVE IS DESIRED FROM THE FIXTURE SIDE OF THE WALL (SPECIFY WALL THICKNESS AND TYPE)

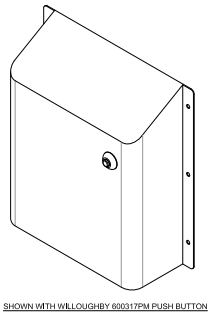
(AP)- FLUSH VALVE ACCESS PANEL



CONSTRUCTED OF 14 GA. TYPE 304 STAINLESS STEEL W/ #4 SATIN FINISH AND LIGATURE-RESISTANT SLOPED TOP

FOR USE WHEN FLUSH VALVES ARE EXPOSED IN SECURE AREAS WHERE LIGATURE POINTS ARE A CONSIDERATION. VANDAL RESISTANT AND COMPATIBLE WITH TOP SUPPLY TOILETS

(ASFVC)- LIGATURE-RESISTANT
FLUSH VALVE COVER



CONSTRUCTED OF 14 GA. TYPE 304 STAINLESS STEEL W/ #4 SATIN FINISH AND LIGATURE-RESISTANT SLOPED TOP

FOR USE WHEN FLUSH VALVES ARE EXPOSED IN SECURE AREAS WHERE BOTH ADA-COMPLIANCE & LIGATURE POINTS ARE CONSIDERATIONS. VANDAL RESISTANT AND COMPATIBLE WITH TOP SUPPLY TOILETS

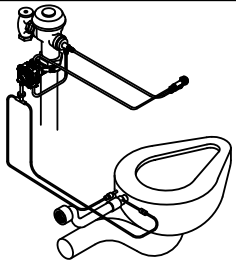
(ASFVCADA)- LIGATURE-RESISTANT
ADA FLUSH VALVE COVER

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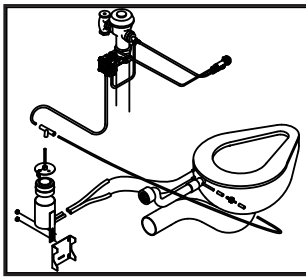
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OPTIONS (CONTINUED)



THE TOILET OVERFLOW PREVENTER IS RECOMMENDED FOR FACILITIES WITH HIGH VANDALISM. (T4) IS NORMALLY USED IN CONJUNCTION WITH A BACK SUPPLY TOILET OR COMBINATION UNIT WHERE AN ACCESSIBLE PIPE CHASE IS PROVIDED

(T4)- MANUAL RESET TOP FOUR OVERFLOW PREVENTER
(REQUIRES (FV) HYDRAULIC FLUSH VALVE
AND ACCESSIBLE CHASE)



THE TOILET OVERFLOW PREVENTER IS RECOMMENDED FOR FACILITIES WITH HIGH VANDALISM. (T4A) IS NORMALLY USED IN CONJUNCTION WITH A BACK SUPPLY TOILET OR COMBINATION UNIT WHERE AN ACCESSIBLE PIPE CHASE IS PROVIDED

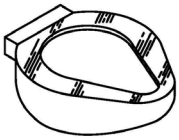
(T4A)- AUTO RESET TOP FOUR OVERFLOW PREVENTER
(REQUIRES (FV) HYDRAULIC FLUSH VALVE
AND ACCESSIBLE CHASE)



ELONGATED PLASTIC SEAT IS OF SANITARY, OPEN FRONT DESIGN, NOT RECOMMENDED IN MAXIMUM SECURITY AREAS

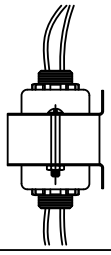
(AVAILABLE IN WHITE)

(HS)- HINGED PLASTIC SEAT



TOILET SEAT TOP IS POLISHED TO A #7 MIRROR FINISH.

(HPS)- HIGH POLISH SEAT



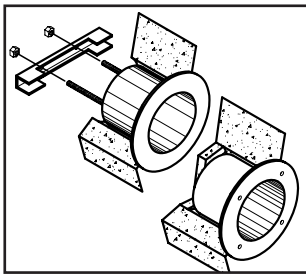
JACKSON CONTROL OR EQUIVALENT 24VAC, 40A TRANSFORMER.

(TF24H) HARDWIRE: FOOT MOUNT END COVERS, VERTICAL W/ 1/2" THREADED CONDUIT HUBS & LOCK NUTS ON BOTH EXITS

(TF24P) PLUG-IN: FOR 110VAC GFCI OUTLET

TRANSFORMER TO BE LABELED WITH "UL" AND "CSA" CERTIFICATION MARKS.

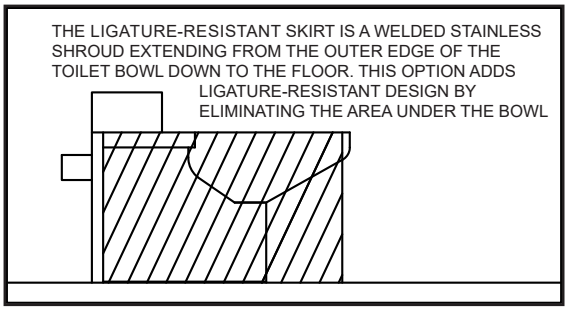
(TF24__)- TRANSFORMER, 110VAC TO 24VAC



CONSTRUCTED OF 14 GA. TYPE 304 STAINLESS STEEL

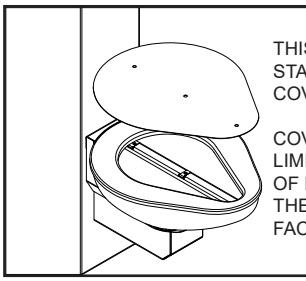
FOR USE WITH INDIVIDUAL WATER CLOSETS WHERE TISSUE HOLDER CANNOT BE MOUNTED IN FIXTURE CABINET

(RTH1)- RECESSED TISSUE HOLDER (REAR MOUNT)
(RTH2)- RECESSED TISSUE HOLDER (FRONT MOUNT)
(ASRTH1)- LIGATURE-RESISTANT RECESSED TISSUE HOLDER (REAR MOUNT)
(ASRTH2)- LIGATURE-RESISTANT RECESSED TISSUE HOLDER (FRONT MOUNT)
(ASRTH3)- LIGATURE-RESISTANT STUD WALL RECESSED TISSUE HOLDER (FRONT MOUNT)



THE LIGATURE-RESISTANT SKIRT IS A WELDED STAINLESS SHROUD EXTENDING FROM THE OUTER EDGE OF THE TOILET BOWL DOWN TO THE FLOOR. THIS OPTION ADDS LIGATURE-RESISTANT DESIGN BY ELIMINATING THE AREA UNDER THE BOWL

(SK)- LIGATURE-RESISTANT TOILET SKIRT



THIS OPTION PROVIDES A STAINLESS STEEL SHIPPING COVER FOR TOILET BOWLS.

COVERS ARE DESIGNED TO LIMIT POSSIBLE INSERTION OF FOREIGN MATERIAL INTO THE FIXTURE PRIOR TO FACILITY STARTUP.

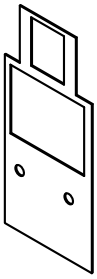
(TSC)- TOILET SHIPPING COVER

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OPTIONS (CONTINUED)



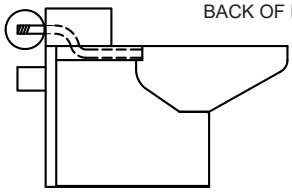
CONSTRUCTED OF 18 GAUGE GALVANIZED STEEL.

METAL WALL TEMPLATES PROVIDE FOR FIXTURE ROUGH-IN CUT-OUTS IN A STEEL WALL. THE TEMPLATE HAS INTEGRAL LAYOUT PATTERNS FOR CUTTING OR DRILLING WALL OPENINGS.

NOTE: TEMPLATE IS NOT MEANT TO BE INSTALLED BETWEEN FIXTURE AND WALL/FLOOR

(MT)- WALL TEMPLATE

1-1/2" M.I.P. FLUSHING INLET EXTENSION, EXTENDS FLUSH VALVE CONNECTION BEYOND BACK OF FIXTURE. MUST SPECIFY LENGTH.



(TFE)- TOILET FLUSH EXTENSION

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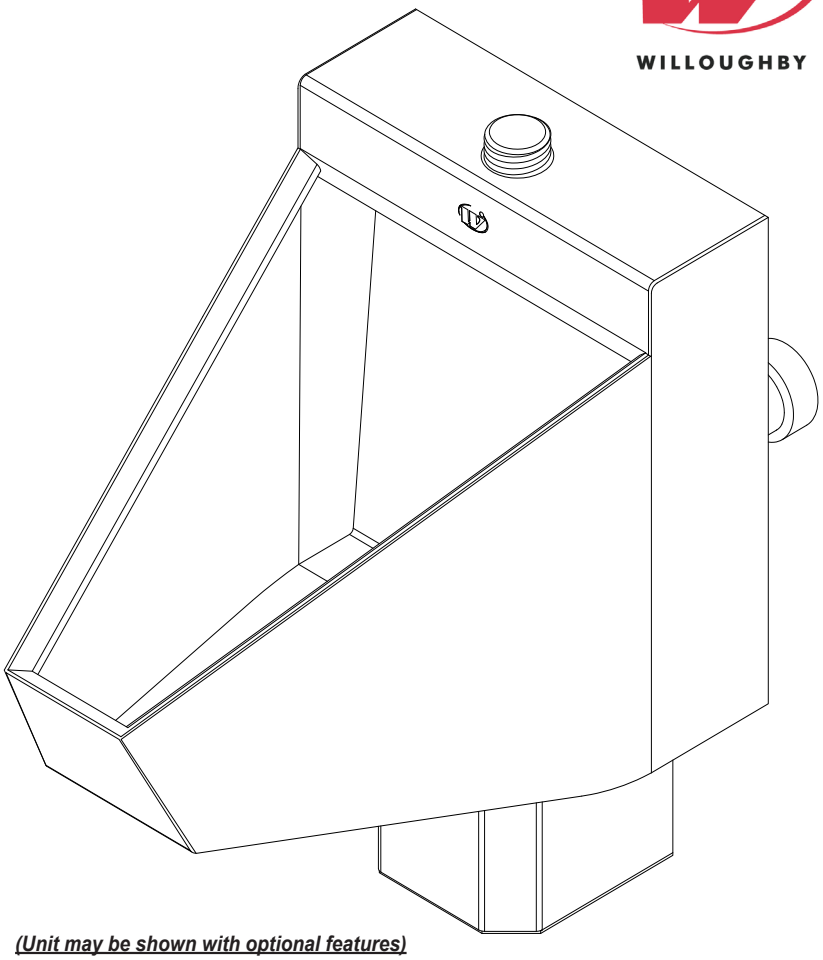
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Willoughby Industries - *Security Products*

UW-1412-BJ
Single Person
Rear Mounted
Blowout Flush
Straddle Urinal



(Unit may be shown with optional features)

IN COMPLIANCE
WITH A.D.A. 2010

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Single Person, Rear Mounted, Blowout Flush Straddle Urinal with top spud, wall sleeve, and hydraulic flush valve

Use the following Willoughby Model Number:
UW-1412-BJ-TS-WS-FV

Recommended Specifications

Single Person, Rear Mounted, Blowout Flush Straddle Urinal shall be: Willoughby Model No. **UW-1412-BJ**
(Select from model number and options list on next page)

Fixture is fabricated from 14 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Full perimeter 360º flushing rim
- Integral stainless steel P-trap

Urinal shall be blowout type which requires 25 PSI minimum flushing pressure. Trap shall be fully enclosed and maintain a 3" seal.

Anchoring shall be by a standard 4-point system: threaded rods, nuts and washers furnished for walls up to 8" thick.

Unit requires chase area for installation and maintenance.

WARNING: Cancer and Reproductive Harm
- www.P65Warnings.ca.gov

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ UW-1412-BJ Single Person, Rear Mounted, Blowout Flush Straddle Urinal

2.) Inlet Location:

❑ BS Back Spud
❑ TS Top Spud

3.) Flush Valve GPF (Must Specify):

❑ 1.5 GPF
❑ 1.0 GPF Low Flow

4.) Options:

❑ MT Wall Template
❑ WS Wall Sleeve (Requires Accessible Chase)
❑ FV Hydraulic Flush Valve (Includes Actuator)
❑ EFV Electronic Flush Valve (Pick Control)*
❑ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*
❑ ASUFVC Ligature-resistant Urinal Flush Valve Cover (Top Spud Only)
❑ FVT Flush Valve Connection (Back Spud Only)
❑ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ Other _____
❑ Other _____

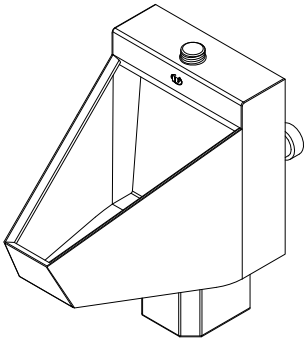
5.) Electronic Controls* (Must Use Electronic Flush Valve):

❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

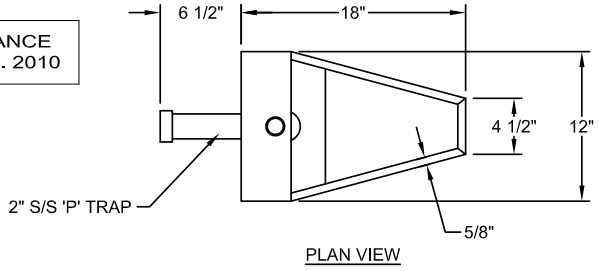
Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

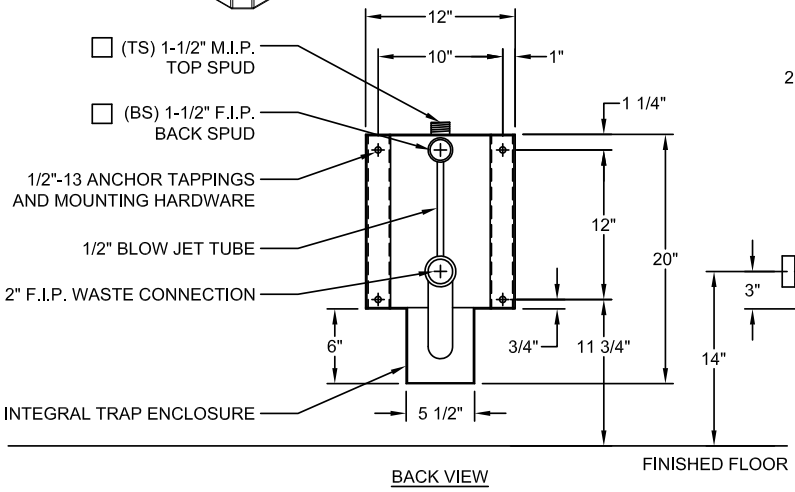
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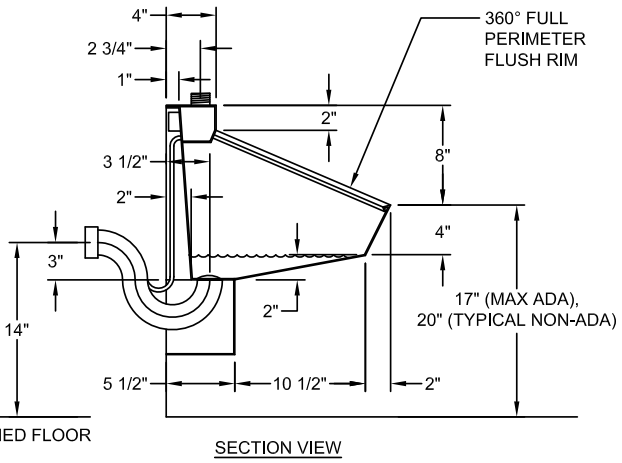
IN COMPLIANCE WITH A.D.A. 2010



PLAN VIEW



BACK VIEW



FINISHED FLOOR

SECTION VIEW

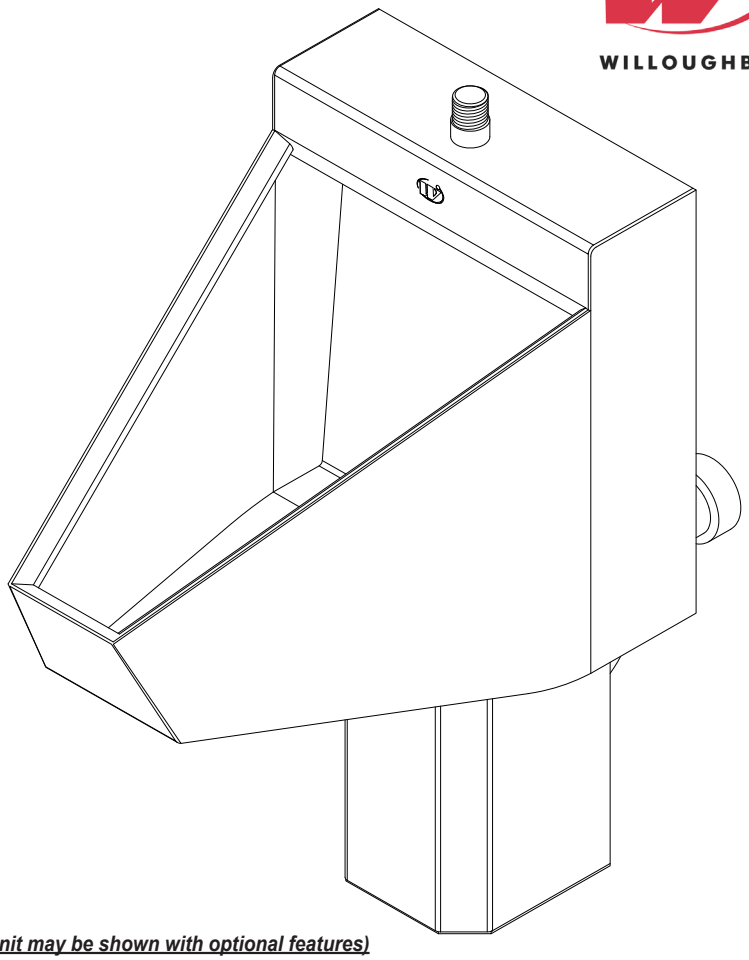
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Willoughby Industries - *Security Products*

UW-1412-WO Single Person Rear Mounted Washout Flush Straddle Urinal



(Unit may be shown with optional features)

IN COMPLIANCE WITH A.D.A. 2010

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Single Person, Rear Mounted, Washout Flush Straddle Urinal with top spud, 1.0 GPF, wall sleeve, and hydraulic flush valve

Use the following Willoughby Model Number:
UW-1412-WO-TS-1.0-WS-FV

Recommended Specifications

Single Person, Rear Mounted, Washout Flush Straddle Urinal shall be: Willoughby Model No. **UW-1412-WO** (Select from model number and options list on next page)

Fixture is fabricated from 14 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Full perimeter 360º flushing rim
- Beehive strainer
- Integral stainless steel P-trap

Urinal shall be washout type which requires 25 PSI minimum flushing pressure. Trap shall be fully enclosed and maintain a 3" seal.

Anchoring shall be by a standard 4-point system: threaded rods, nuts and washers furnished for walls up to 8" thick.

Unit requires chase area for installation and maintenance.

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ UW-1412-WO Single Person, Rear Mounted, Washout Flush Straddle Urinal

2.) Inlet Location:

❑ BS Back Spud
❑ TS Top Spud

3.) Flush Valve GPF (Must Specify):

❑ 1.0 GPF Low Flow
❑ 0.5 GPF High Efficiency (HEU)

4.) Options:

❑ MT Wall Template
❑ WS Wall Sleeve (Requires Accessible Chase)
❑ FV Hydraulic Flush Valve (Includes Actuator)
❑ EFV Electronic Flush Valve (Pick Control)*
❑ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*
❑ ASUFVC Ligature-resistant Urinal Flush Valve Cover (Top Spud Only)
❑ FVT Flush Valve Connection (Back Spud Only)
❑ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ Other _____
❑ Other _____

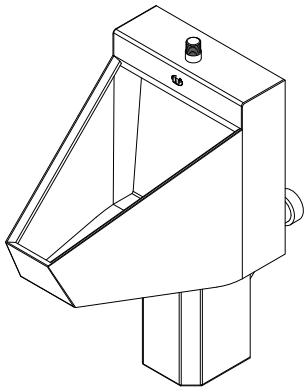
5.) Electronic Controls* (Must Use Electronic Flush Valve):

❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

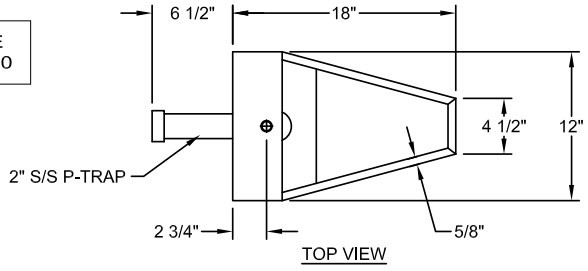
Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

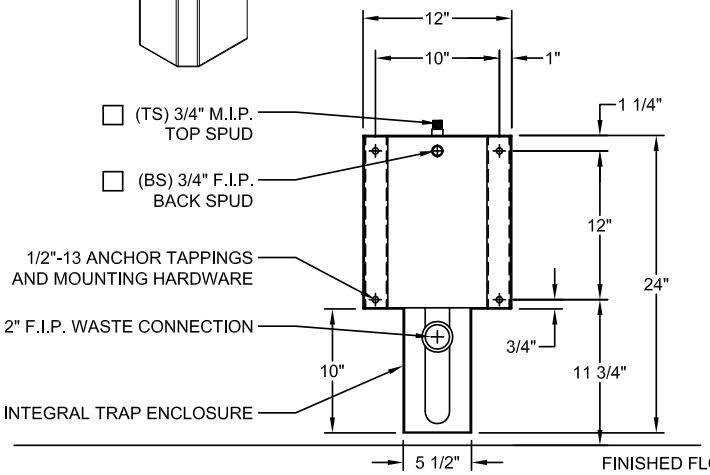
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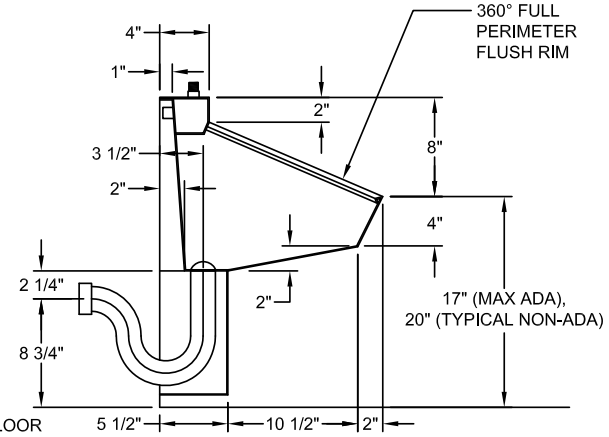
IN COMPLIANCE WITH A.D.A. 2010



TOP VIEW



BACK VIEW



SECTION VIEW

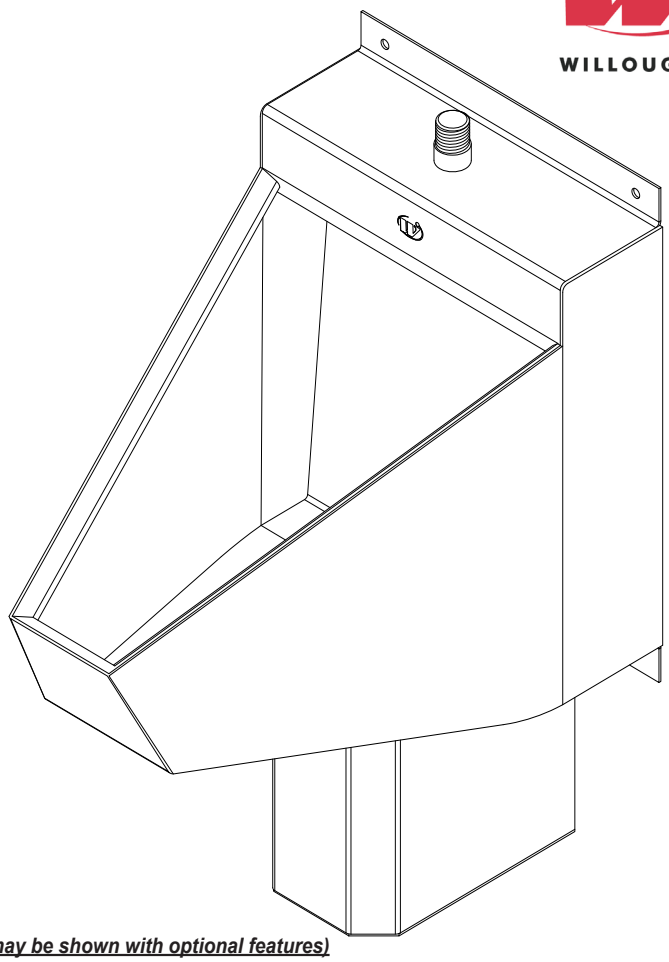
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Willoughby Industries - *Security Products*

UW-1412-WO-FA
Single Person
Front Mounted
Washout Flush
Straddle Urinal



(Unit may be shown with optional features)

IN COMPLIANCE
WITH A.D.A. 2010

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Single Person, Front Mounted, Washout Flush Straddle Urinal with top spud, 1.0 GPF, wall template, and hydraulic flush valve

Use the following Willoughby Model Number:
UW-1412-WO-FA-TS-1.0-MT-FV

Recommended Specifications

Single Person, Front Mounted, Washout Flush Straddle Urinal shall be: Willoughby Model No. **UW-1412-WO-FA** (Select from model number and options list on next page)

Fixture is fabricated from 14 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Full perimeter 360º flushing rim
- Beehive strainer
- 1-1/2" F.I.P. slip-joint P-trap
- Removable P-trap access

Urinal shall be washout type which requires 25 PSI minimum flushing pressure. Trap shall be fully enclosed and maintain a 3" seal.

Anchoring shall be from the front with anchoring hardware by others.

Unit requires no chase area for installation and maintenance unless specified with any options requiring an accessible chase.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ UW-1412-WO-FA Single Person, Front Mounted, Washout Flush Straddle Urinal

2.) Inlet Location:

❑ BS Back Spud
❑ TS Top Spud

3.) Flush Valve GPF (Must Specify):

❑ 1.0 GPF Low Flow
❑ 0.5 GPF High Efficiency (HEU)

4.) Options:

❑ MT Wall Template
❑ FV Hydraulic Flush Valve (Includes Actuator)
❑ EFV Electronic Flush Valve (Pick Control)*
❑ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*
❑ ASUFVC Ligature-resistant Urinal Flush Valve Cover (Top Spud Only)
❑ FVT Flush Valve Connection (Back Spud Only)
❑ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ Other _____
❑ Other _____

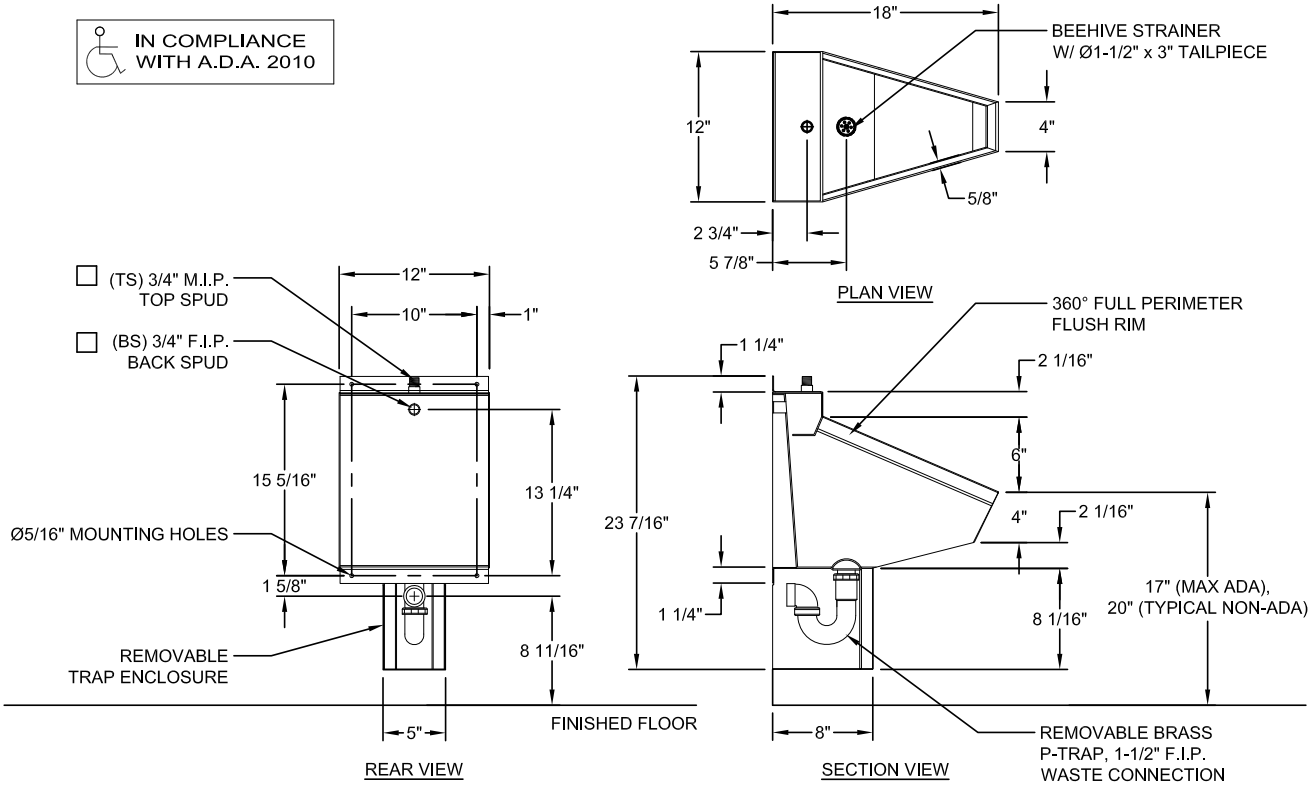
5.) Electronic Controls* (Must Use Electronic Flush Valve):

❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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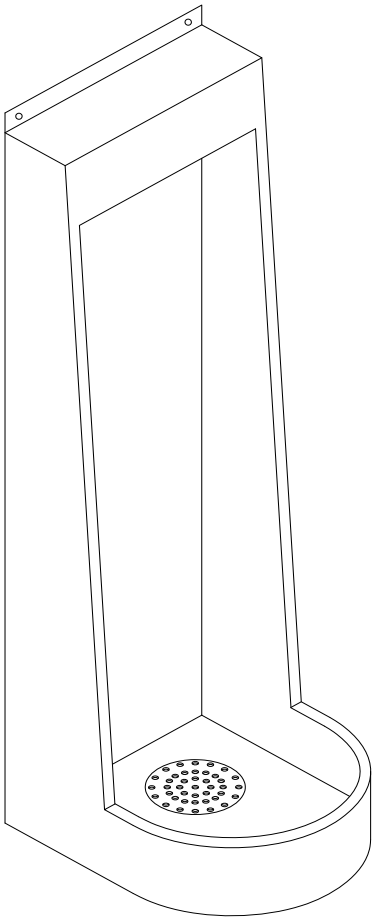


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UF-1438
Single Person
Floor Mounted
Stall Urinal



IN COMPLIANCE
WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Single Person, Floor Mounted Stall Urinal with back spud, hydraulic flush valve, flush valve connection, and flush valve access panel

Use the following Willoughby Model Number:
UF-1438-BS-FV-FVT-AP

Recommended Specifications

Single Person, Floor Mounted Stall Urinal shall be:
Willoughby Model No. **UF-1438**
(Select from model number and options list on next page)

Fixture is fabricated from 14 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Full perimeter 360º flushing rim
- Flat strainer

Urinal shall be washout type which requires 25 PSI minimum flushing pressure. Waste connection shall be 2" caulk type.

Anchoring shall be from the front with anchoring hardware by others.

Unit requires no chase area for installation and maintenance unless specified with (BS) Back Spud or any other options requiring an accessible chase.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
❑ UF-1438 Single Person, Floor Mounted Stall Urinal

2.) Inlet Location:
❑ BS Back Spud
❑ TS Top Spud

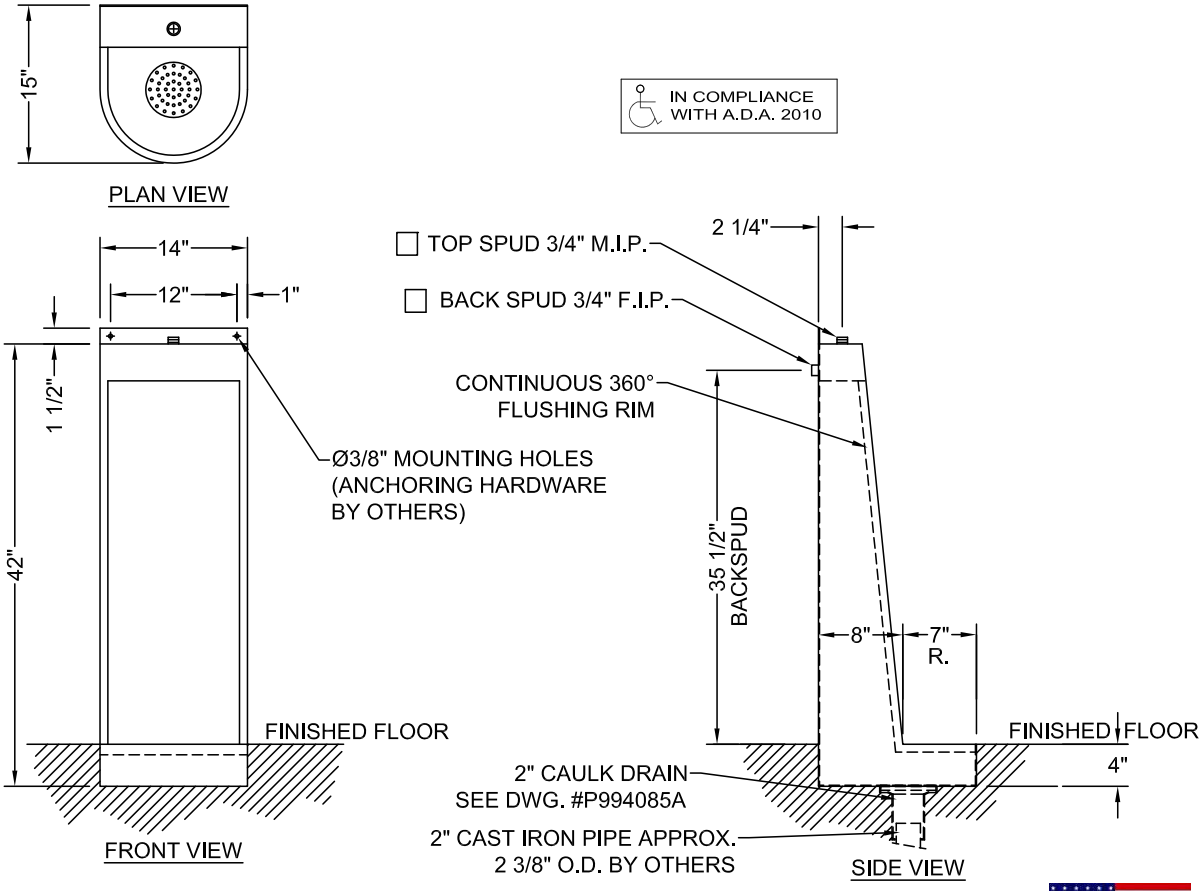
3.) Flush Valve GPF (Must Specify):
❑ 1.0 GPF Low Flow

4.) Options:
❑ MT Wall Template
❑ FV Hydraulic Flush Valve (Includes Actuator)
❑ EFV Electronic Flush Valve (Pick Control)*
❑ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*
❑ ASUFVC Ligature-resistant Urinal Flush Valve Cover (Top Spud Only)
❑ FVT Flush Valve Connection (Back Spud Only)
❑ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ Other _____
❑ Other _____

5.) Electronic Controls* (Must Use Electronic Flush Valve):
❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN
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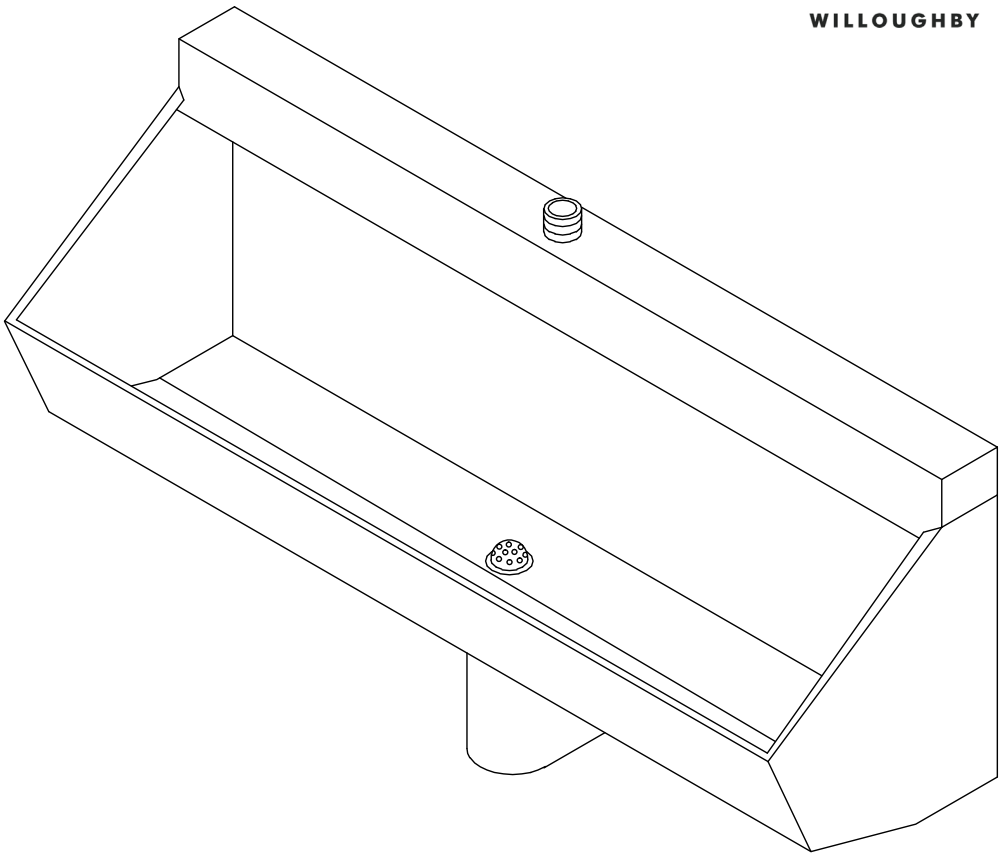
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UW-1800 Series Multi-Person Rear Mounted Washout Trough Urinal



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Multi-Person, Rear Mounted, Washout Trough Urinal, 36" length with top spud, wall sleeve, and hydraulic flush valve

Use the following Willoughby Model Number:
UW-1836-TS-WS-FV

Recommended Specifications

Multi-Person, Rear Mounted, Washout Trough Urinal shall be:
Willoughby Model No. **UW-18___**
(Select from model number and options list on next page)

Fixture is fabricated from 14 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Full perimeter 360º flushing rim
- Beehive strainer
- Integral stainless steel P-trap

Urinal shall be washout type which requires 25 PSI minimum flushing pressure. Trap shall be fully enclosed (with a removable access cover) and maintain a 3" seal.

Anchoring shall be by a standard 8-point system: threaded rods, nuts and washers furnished for walls up to 8" thick.

Unit requires chase area for installation and maintenance.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

- ❑ UW-1836 36" Multi-Person, Rear Mounted, Washout Trough Urinal (Wall Outlet)
- ❑ UW-1848 48" Multi-Person, "
- ❑ UW-1860 60" Multi-Person, "
- ❑ UW-1872 72" Multi-Person, "
- ❑ UW-1896 96" Multi-Person, "

2.) Inlet Location:

- ❑ BS Back Spud
- ❑ TS Top Spud

3.) Flush Valve GPF (Must Specify):

- ❑ 1.0 GPF Low Flow

4.) Options:

- ❑ MT Wall Template
- ❑ WS Wall Sleeve (Requires Accessible Chase)
- ❑ FV Hydraulic Flush Valve (Includes Actuator)
- ❑ EFV Electronic Flush Valve (Pick Control)*
- ❑ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*
- ❑ ASUFVC Ligature-resistant Urinal Flush Valve Cover (Top Spud Only)
- ❑ FVT Flush Valve Connection (Back Spud Only)
- ❑ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ Other _____

5.) Electronic Controls* (Must Use Electronic Flush Valve):

❑ WUFC-4000 ❑ Pneutronic ❑ WMSII

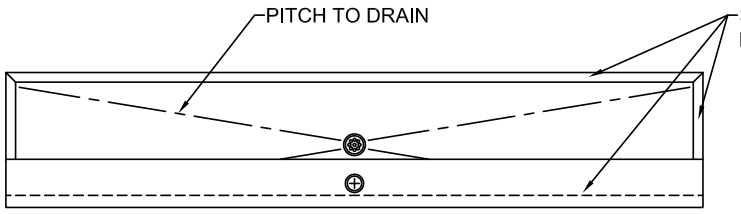
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

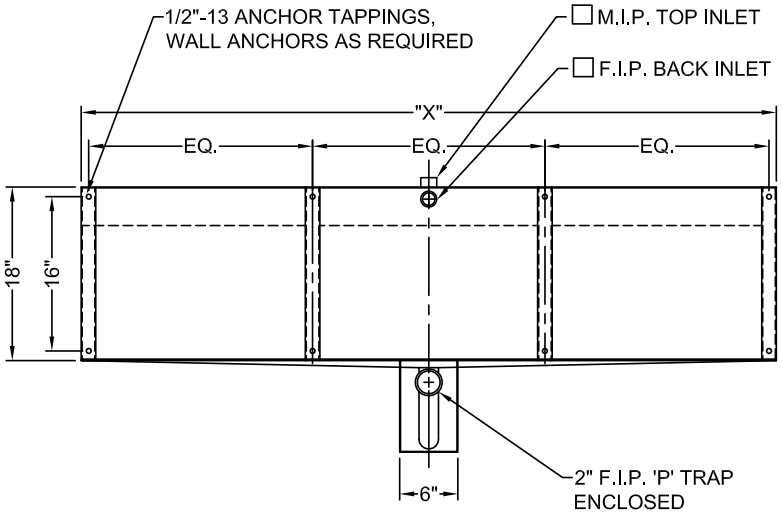
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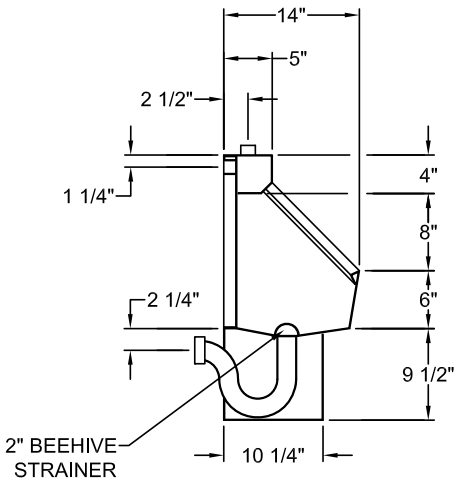


PLAN VIEW

✓	INLET	MODEL NO.	"X" DIM.
	3/4"	UW-1836	36"
	3/4"	UW-1848	48"
	3/4"	UW-1860	60"
	1-1/2"	UW-1872	72"
	1-1/2"	UW-1896	96"



REAR ELEVATION



TYP. SECTION

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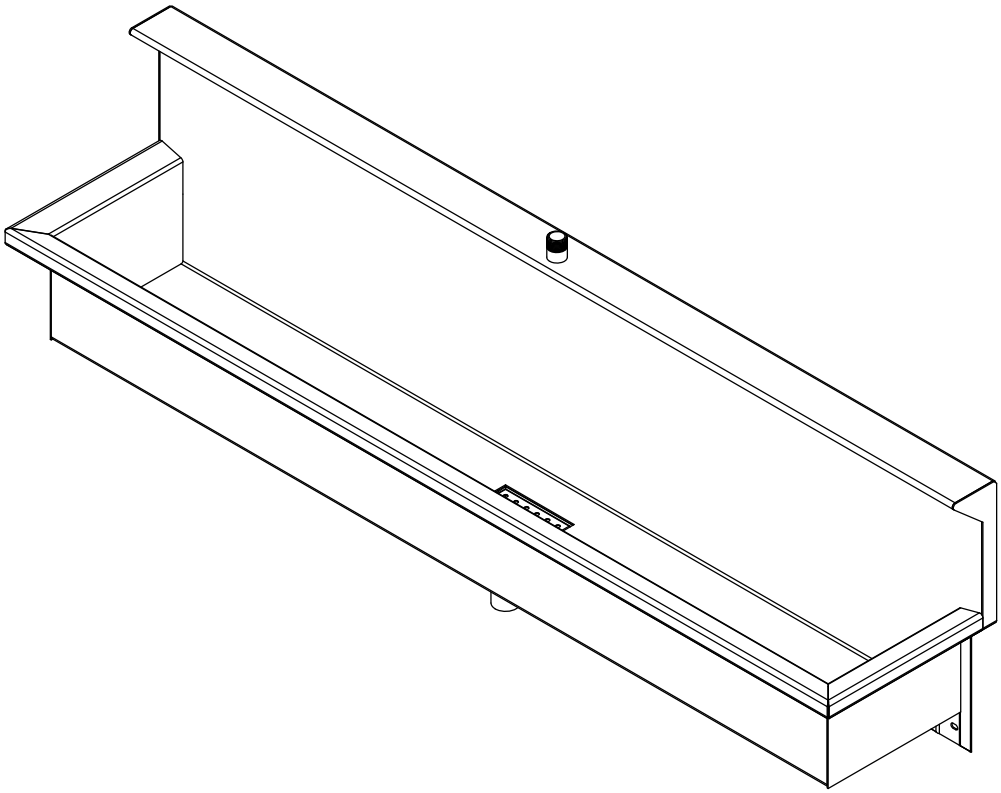
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UW-1800-FA Series Multi-Person Front Mounted Washout Trough Urinal



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Multi-Person, Front Mounted, Washout Trough Urinal, 60" length with Top Spud

Use the following Willoughby Model Number: **UW-1860-FA-TS**

Recommended Specifications

Multi-Person, Front Mounted, Washout Trough Urinal shall be:
Willoughby Model No. **UW-18___-FA**
(Select from model number and options list on next page)

Fixture is fabricated from 14 gauge, Type 304 stainless steel. The construction shall be all-welded with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Beehive strainer with tailpiece
- Full length back wall flushing chamber with Ø1/4" holes, spaced 1" apart

Anchoring shall be from Z-clip and anchoring holes provided. Anchoring hardware by others.

Unit requires no chase area for installation and maintenance unless specified with any options requiring an accessible chase.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

- ❑ UW-1836-FA 36" Multi-Person, Front Mounted, Washout Trough Urinal (Wall Outlet)
- ❑ UW-1848-FA 48" Multi-Person, "
- ❑ UW-1860-FA 60" Multi-Person, "
- ❑ UW-1872-FA 72" Multi-Person, "
- ❑ UW-1896-FA 96" Multi-Person, "

2.) Inlet Location:

- ❑ TS Top Spud
- ❑ LS Left Spud
- ❑ RS Right Spud

3.) Options:

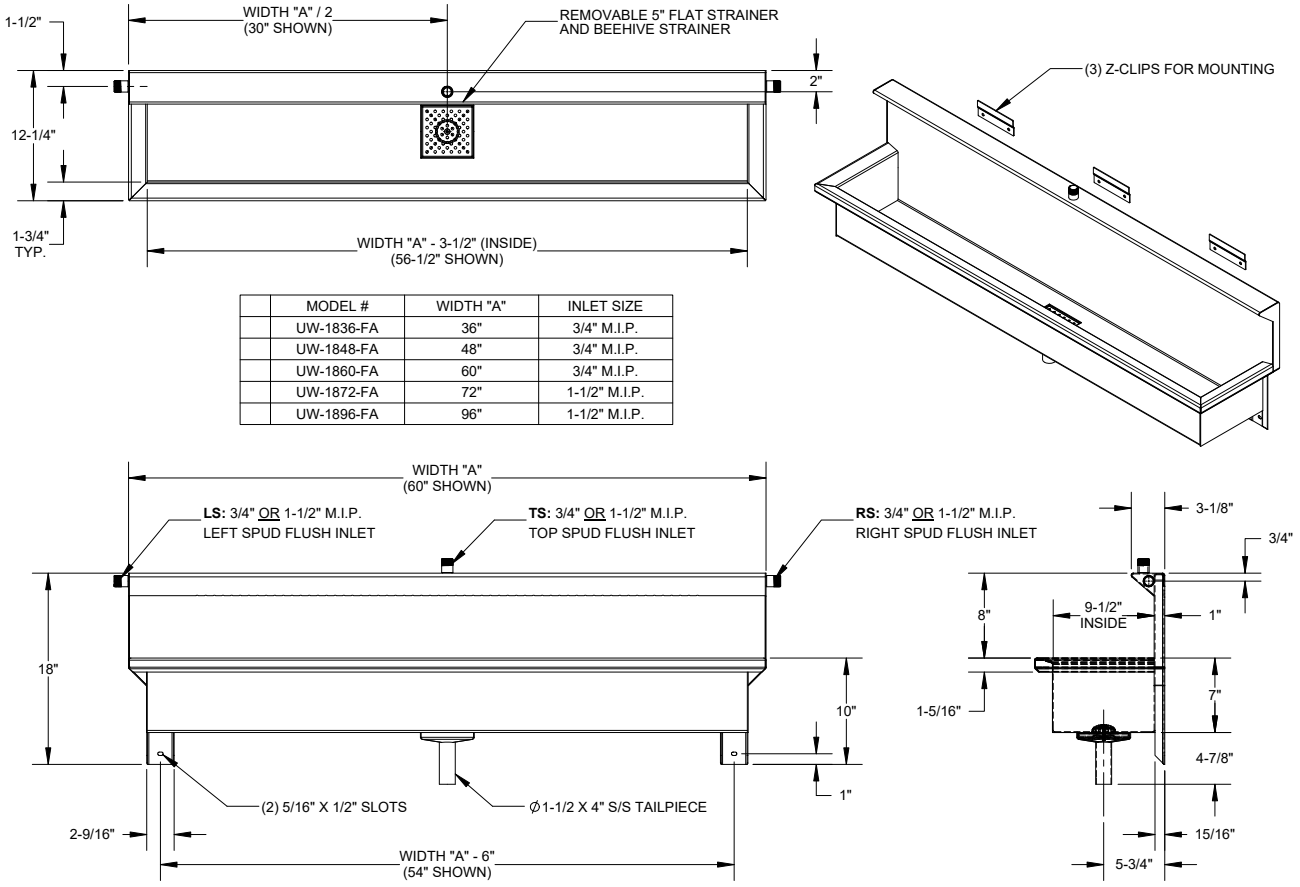
- ❑ TE Trap Enclosure
- ❑ Other _____
- ❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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	MODEL #	WIDTH "A"	INLET SIZE
	UW-1836-FA	36"	3/4" M.I.P.
	UW-1848-FA	48"	3/4" M.I.P.
	UW-1860-FA	60"	3/4" M.I.P.
	UW-1872-FA	72"	1-1/2" M.I.P.
	UW-1896-FA	96"	1-1/2" M.I.P.

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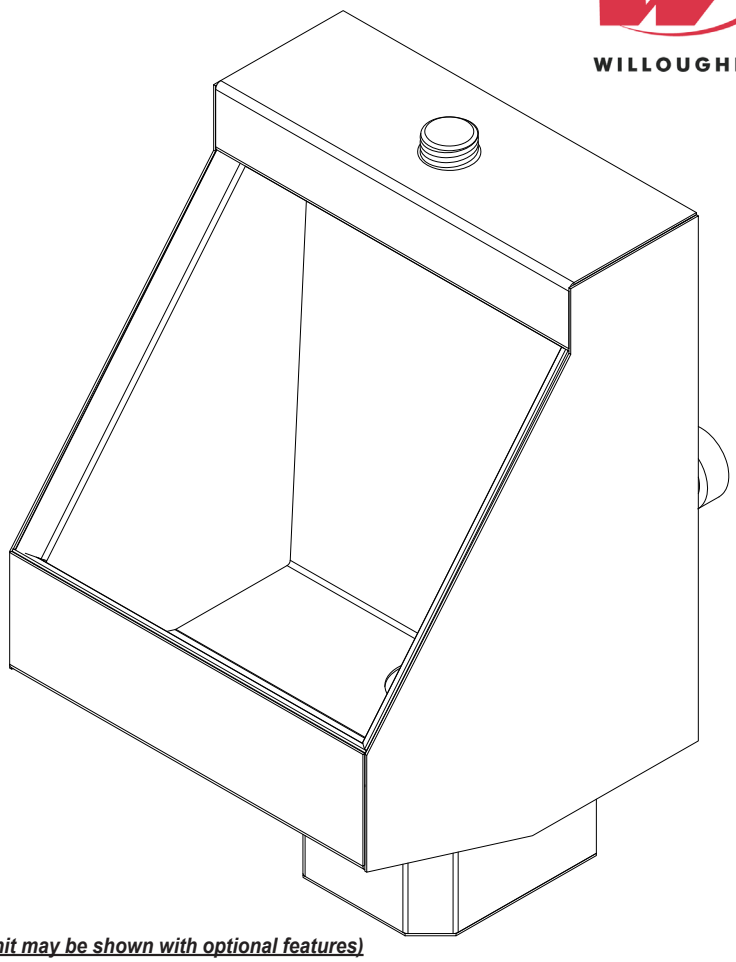
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UW-1814-BJ Single Person Rear Mounted Blowout Flush Trough Urinal



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Single Person, Rear Mounted, Blowout Flush Trough Urinal with top spud, hydraulic flush valve, and wall sleeve

Use the following Willoughby Model Number:
UW-1814-BJ-TS-FV-WS

Recommended Specifications

Single Person, Rear Mounted, Blowout Flush Trough Urinal shall be: Willoughby Model No. **UW-1814-BJ**
(Select from model number and options list on next page)

Fixture is fabricated from 14 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Full perimeter 360º flushing rim
- Integral stainless steel P-trap

Urinal shall be blowout type which requires 25 PSI minimum flushing pressure. Trap shall be fully enclosed and maintain a 3" seal.

Anchoring shall be by a standard 4-point system: threaded rods, nuts and washers furnished for walls up to 8" thick.

Unit requires chase area for installation and maintenance.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ UW-1814-BJ Single Person, Rear Mounted, Blowout Flush Trough Urinal

2.) Inlet Location:

❑ BS Back Spud
❑ TS Top Spud

3.) Flush Valve GPF (Must Specify):

❑ 1.5 GPF
❑ 1.0 GPF Low Flow

4.) Options:

❑ MT Wall Template
❑ WS Wall Sleeve (Requires Accessible Chase)
❑ FV Hydraulic Flush Valve (Includes Actuator)
❑ EFV Electronic Flush Valve (Pick Control)*
❑ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*
❑ ASUFVC Ligature-resistant Urinal Flush Valve Cover (Top Spud Only)
❑ FVT Flush Valve Connection (Back Spud Only)
❑ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ Other _____
❑ Other _____

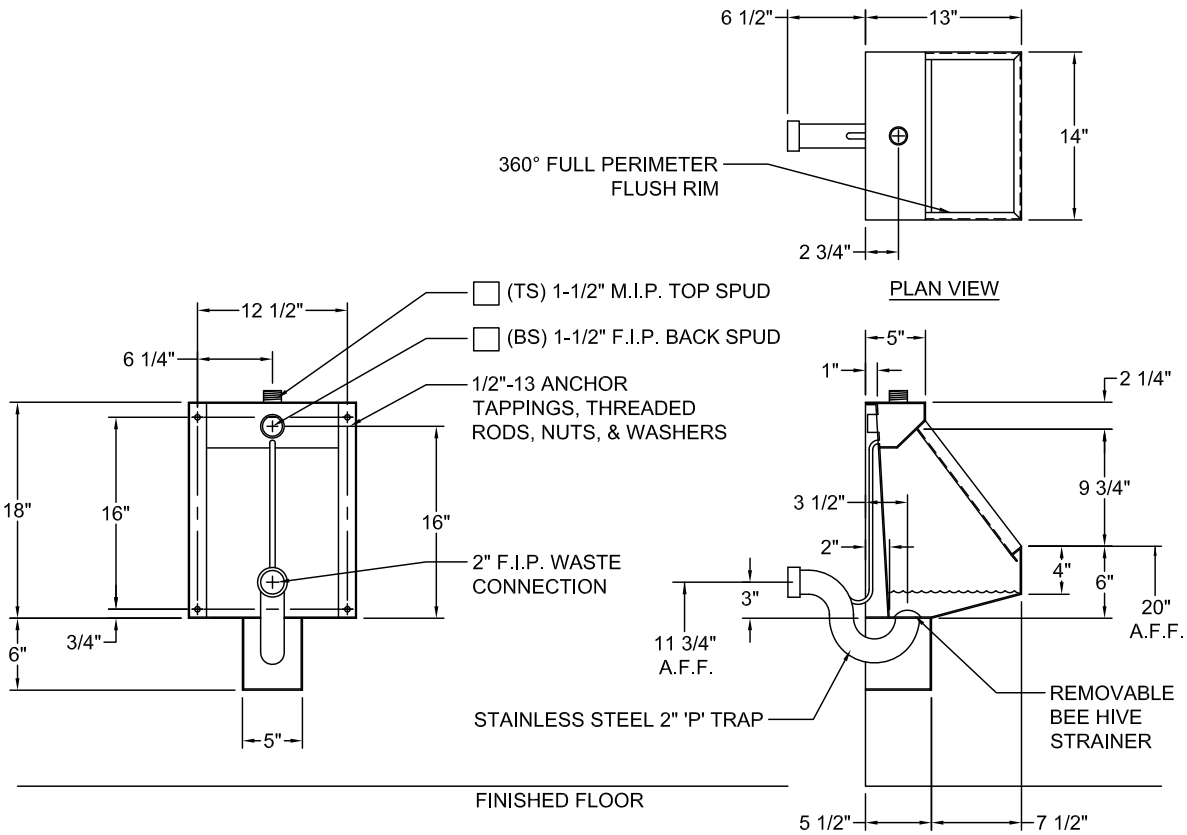
5.) Electronic Controls* (Must Use Electronic Flush Valve):

❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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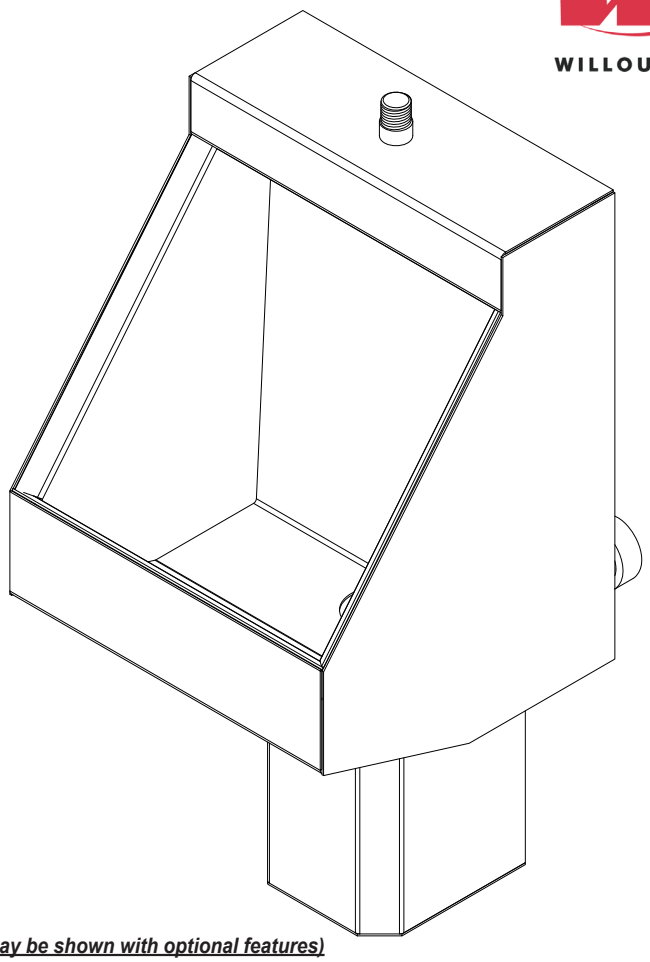
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UW-1814-WO Single Person Rear Mounted Washout Flush Trough Urinal



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Single Person, Rear Mounted, Washout Flush Trough Urinal with top spud, 1.0 GPF, wall sleeve, and hydraulic flush valve

Use the following Willoughby Model Number:
UW-1814-WO-TS-1.0-WS-FV

Recommended Specifications

Single Person, Rear Mounted, Washout Flush Trough Urinal shall be: Willoughby Model No. **UW-1814-WO**
(Select from model number and options list on next page)

Fixture is fabricated from 14 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Full perimeter 360º flushing rim
- Beehive strainer
- Integral stainless steel P-trap

Urinal shall be washout type which requires 25 PSI minimum flushing pressure. Trap shall be fully enclosed and maintain a 3" seal. Urinal is manufactured to ASME A112.19.3/ CSA B45.4.

Anchoring shall be by a standard 4-point system: threaded rods, nuts and washers furnished for walls up to 8" thick.

Unit requires chase area for installation and maintenance.

*WaterSense Certified for 0.5 GPF HEU fixtures.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ UW-1814-WO Single Person, Rear Mounted, Washout Flush Trough Urinal

2.) Inlet Location:

❑ BS Back Spud
❑ TS Top Spud

3.) Flush Valve GPF (Must Specify):

❑ 1.0 GPF Low Flow
❑ 0.5 GPF High Efficiency (HEU)

4.) Options:

❑ MT Wall Template
❑ WS Wall Sleeve (Requires Accessible Chase)
❑ FV Hydraulic Flush Valve (Includes Actuator)
❑ EFV Electronic Flush Valve (Pick Control)*
❑ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*
❑ ASUFVC Ligature-resistant Urinal Flush Valve Cover (Top Spud Only)
❑ FVT Flush Valve Connection (Back Spud Only)
❑ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ Other _____
❑ Other _____

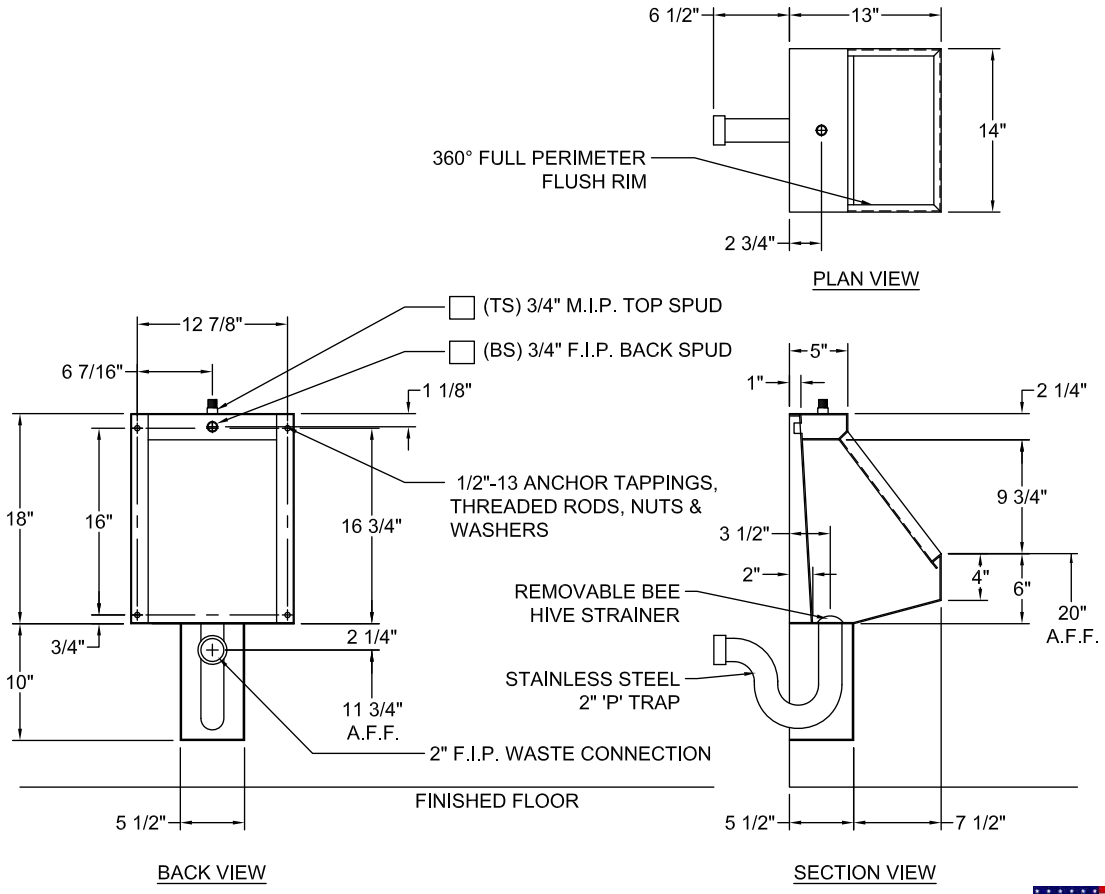
5.) Electronic Controls* (Must Use Electronic Flush Valve):

❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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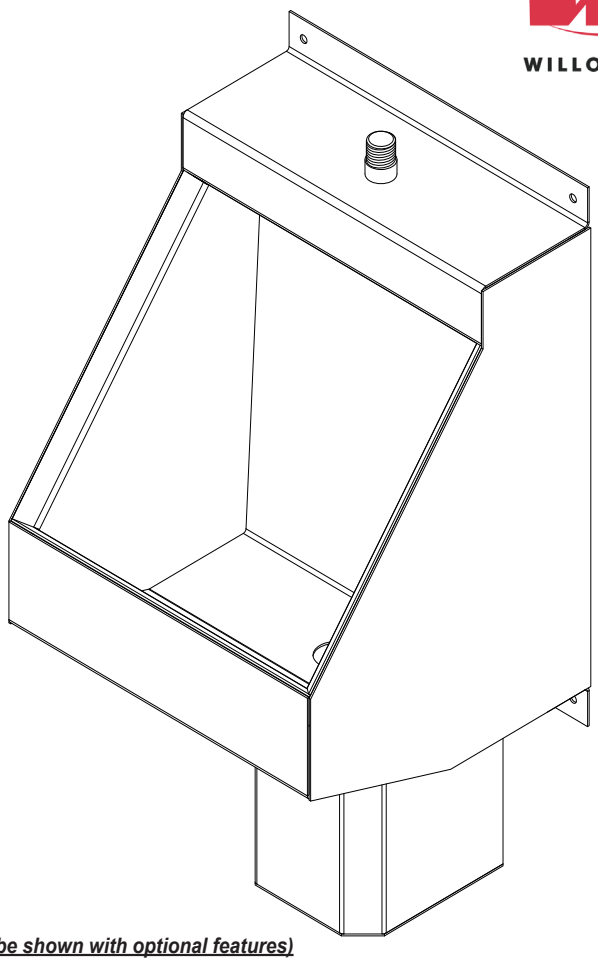
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UW-1814-WO-FA
Single Person
Front Mounted
Washout Flush
Trough Urinal



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Single Person, Front Mounted, Washout Flush Trough Urinal with top spud, 1.0 GPF, wall template, and hydraulic flush valve

Use the following Willoughby Model Number:
UW-1814-WO-FA-TS-1.0-MT-FV

Recommended Specifications

Single Person, Front Mounted, Washout Flush Trough Urinal shall be: Willoughby Model No. **UW-1814-WO-FA**
(Select from model number and options list on next page)

Fixture is fabricated from 14 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Full perimeter 360º flushing rim
- Beehive strainer
- 1-1/2" slip-joint P-trap
- Removable P-trap access

Urinal shall be washout type which requires 25 PSI minimum flushing pressure. Trap shall be fully enclosed and maintain a 3" seal.

Anchoring shall be from 'Z' clip and anchoring holes provided. Anchoring hardware by others.

Unit requires no chase area for installation and maintenance unless specified with any options requiring an accessible chase.

*WaterSense Certified for 0.5 GPF HEU fixtures.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ UW-1814-WO-FA Single Person, Front Mounted, Washout Flush Trough Urinal

2.) Inlet Location:

❑ BS Back Spud
❑ TS Top Spud

3.) Flush Valve GPF (Must Specify):

❑ 1.0 GPF Low Flow
❑ 0.5 GPF High Efficiency (HEU)

4.) Options:

❑ MT Wall Template
❑ FV Hydraulic Flush Valve (Includes Actuator)
❑ EFV Electronic Flush Valve (Pick Control)*
❑ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*
❑ ASUFVC Ligature-resistant Urinal Flush Valve Cover (Top Spud Only)
❑ FVT Flush Valve Connection (Back Spud Only)
❑ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ Other _____
❑ Other _____

5.) Electronic Controls* (Must Use Electronic Flush Valve):

❑ WUFC-4000 ❑ Pneutronic ❑ WMSII

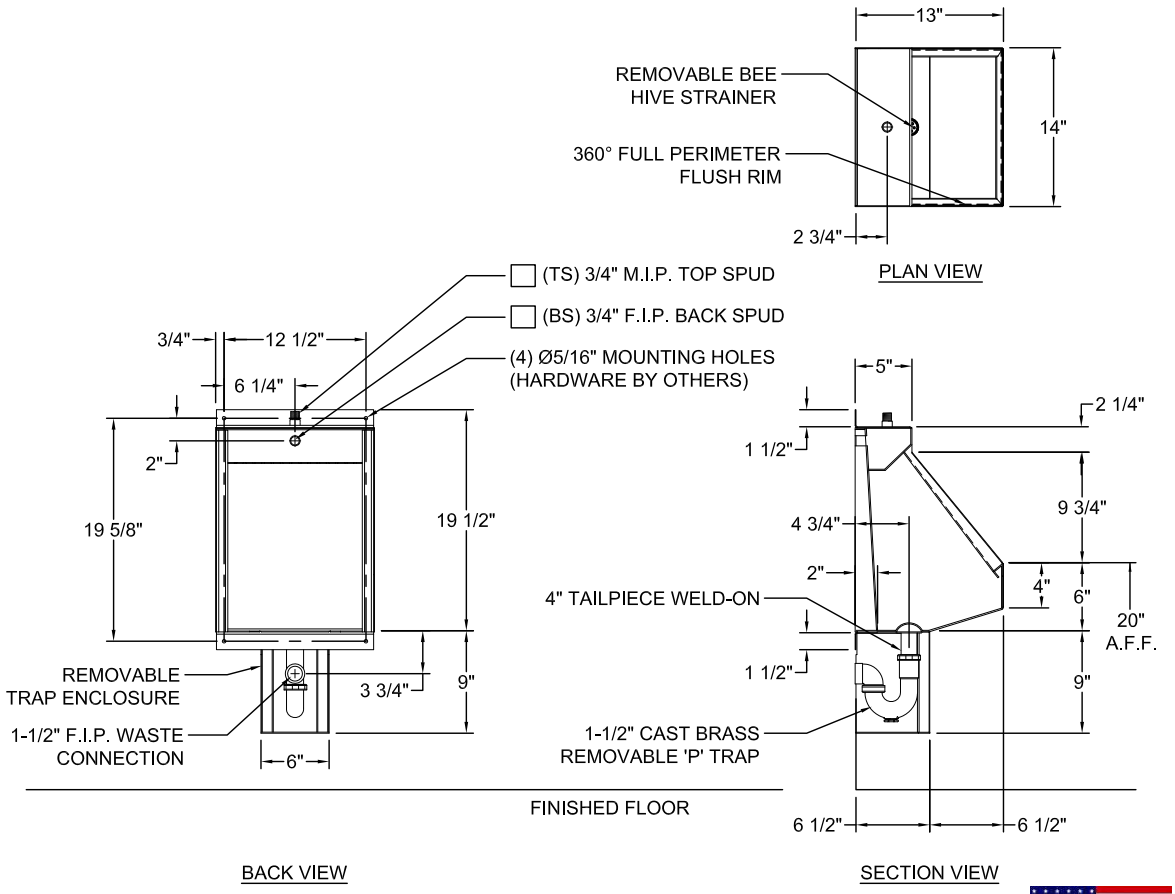
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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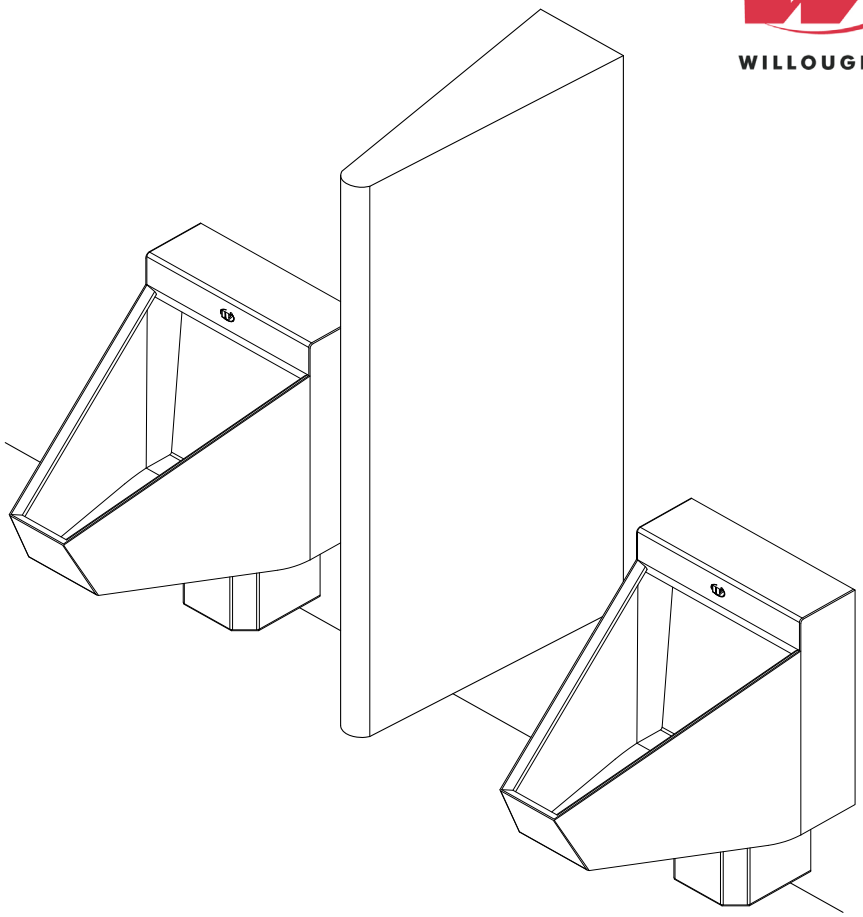
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Willoughby Industries - *Security Products*

URS-1836
Urinal Screen



(Unit may be shown with optional features, Urinals not included)

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify a Urinal Screen
Use the following Willoughby Model Number: **URS-1836**

Recommended Specifications

Urinal Screen shall be:
Willoughby Model No. **URS-1836**
(Select from model number and options list on next page)

Screen is fabricated from 14 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless surfaces polished to a #4 satin finish.

Screen interior shall be sound deadened with fire resistant material.

Anchoring shall be by standard 6 point system: threaded rods, nuts and washers furnished for walls up to 8" thick.

Screen requires chase area for installation.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ URS-1836 Urinal Screen

2.) Options:

❑ FA Front Mounted (Does not require chase)

❑ Other _____

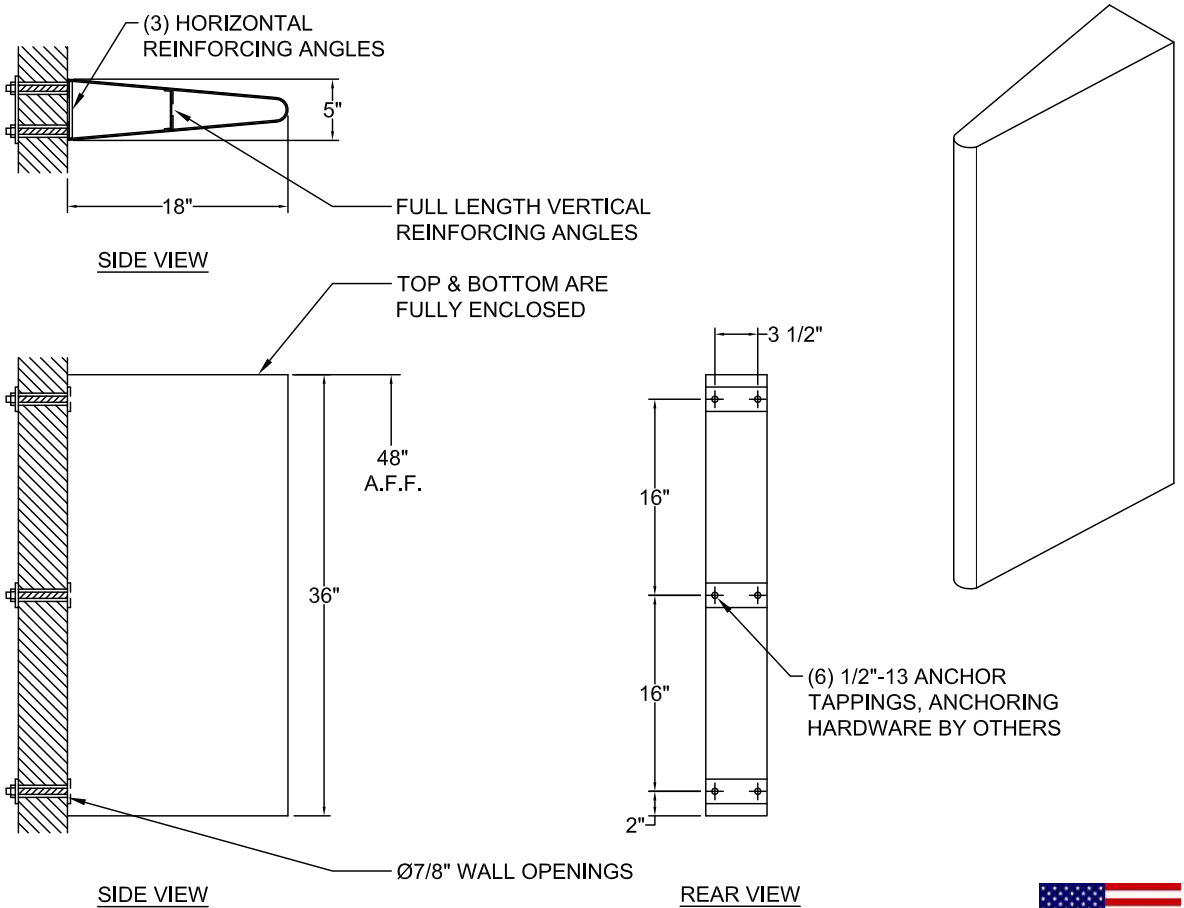
❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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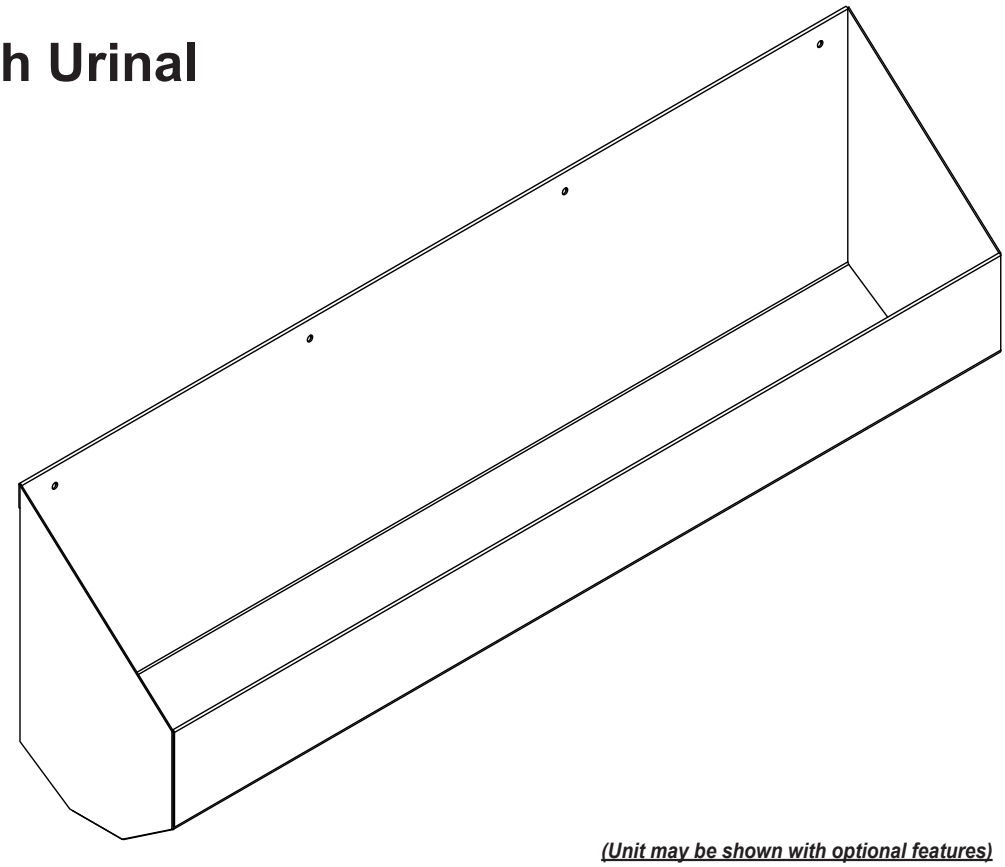
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Willoughby Industries - *Security Products*

WWU-1500 Series
Multi-Person
Waterless Trough Urinal



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a 36" Multi-Person Waterless Trough Urinal

Use the following Willoughby Model Number: **WWU-1536**

Recommended Specifications

Multi-Person Waterless Trough Urinal shall be:
Willoughby Model No. **WWU-15___**
(Select from model number and options list on next page)

Fixture is fabricated from 14 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Beehive strainer with Ø1-1/2", 2" long tailpiece

Anchoring shall be from the front, anchoring holes provided. Anchor hardware by others.

Unit requires no chase area for installation and maintenance.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

- ❑ WWU-1536 36" Multi-Person, Waterless Trough Urinal
- ❑ WWU-1548 48" Multi-Person, Waterless "
- ❑ WWU-1560 60" Multi-Person, Waterless "
- ❑ WWU-1572 72" Multi-Person, Waterless "
- ❑ WWU-1596 96" Multi-Person, Waterless "

2.) Options:

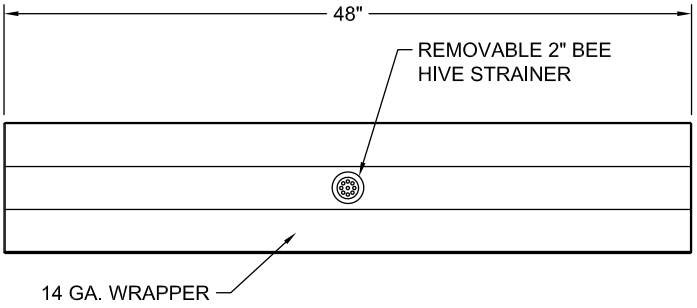
- ❑ BKSPL36 36" x 36" 14 GA. Stainless Steel Backsplash
- ❑ BKSPL48 36" x 48" 14 GA. "
- ❑ BKSPL60 36" x 60" 14 GA. "
- ❑ BKSPL72 36" x 72" 14 GA. "
- ❑ BKSPL96 36" x 96" 14 GA. "
- ❑ Other _____
- ❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____

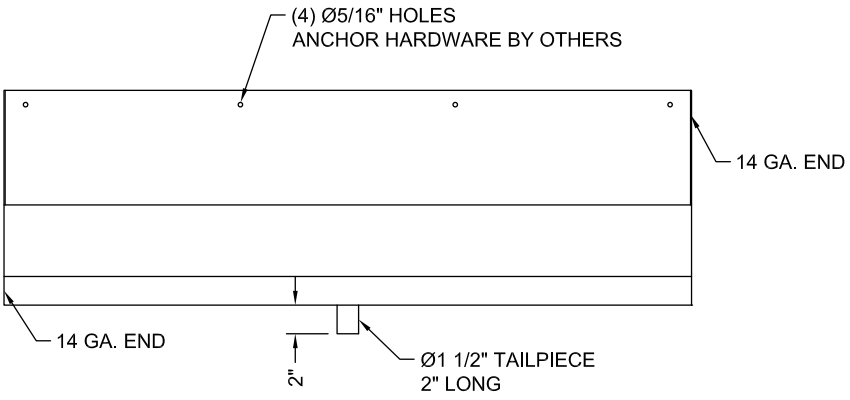
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

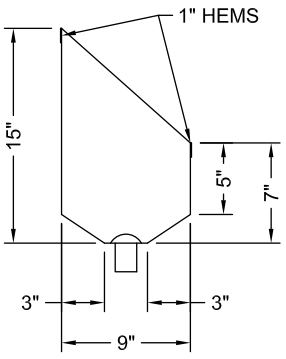
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PLAN VIEW



FRONT VIEW



SIDE VIEW

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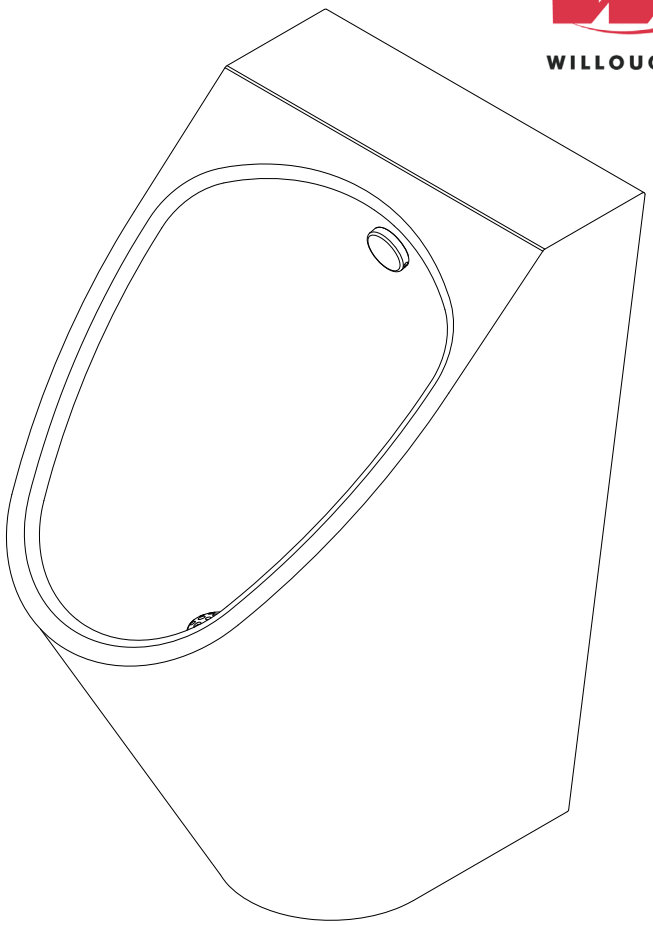
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Willoughby Industries - *Security Products*

UW-1317-HEU
Single Person
Rear Mounted
ADA-Compliant
Contoured
Washout Flush
High Efficiency Urinal



(Unit may be shown with optional features)

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Single Person, Rear Mounted, ADA-Compliant, Contoured, Washout Flush, High Efficiency Urinal with back spud, 1/8 GPF, wall sleeve, and hydraulic flush valve

Use the following Willoughby Model Number:
UW-1317-HEU-BS-0.125-WS-FV

Recommended Specifications

Single Person, Rear Mounted, ADA-Compliant, Contoured, Washout Flush, High Efficiency Urinal shall be:
Willoughby Model No. **UW-1317-HEU**
(Select from model number and options list on next page)

Fixture is fabricated from all 16 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless steel surfaces polished to a satin finish. Contoured interior and exterior surfaces for ease of cleaning.

Standard equipment shall include:
- Machined stainless steel flush nozzle
- Beehive strainer
- Removable P-trap with 1-1/2" F.I.P. waste connection
- 3/4" N.P.T. male inlet connection

High Efficiency Urinal shall be washout type requiring 1/8 to 1/2 GPF flush valve and 25 PSI minimum flushing pressure. Trap shall be fully enclosed and maintain a 3" seal.

Anchoring shall be by a standard 4-point system: threaded rods, nuts and washers furnished for walls up to 8" thick.

Unit requires chase area for installation and maintenance.

Urinals mounted at 17" rim height to comply with ANSI, ADA and UFAS accessibility requirements. Please consult local code as compliance is subject to the interpretation and requirements of the local code authority.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ UW-1317-HEU Single Person, Rear Mounted, ADA-Compliant, Contoured, Washout Flush, High Efficiency Urinal

2.) Inlet Location:

❑ BS Back Spud
❑ TS Top Spud

3.) Flush Valve GPF (Must Specify):

❑ 0.5 GPF (1.9 Lpf) High Efficiency (HEU) (WaterSense Labeled)
❑ 0.125 GPF (0.4 Lpf) High Efficiency (HEU)

4.) Options:

❑ MT Wall Template
❑ WS Wall Sleeve (Requires Accessible Chase)
❑ FV Hydraulic Flush Valve (Includes Actuator)
❑ EFV Electronic Flush Valve (Pick Control)*
❑ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*
❑ ASUFVC Ligature-resistant Urinal Flush Valve Cover (Top Spud Only)
❑ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ DC Decorator Color (Fixture exterior only - White)
❑ Other _____
❑ Other _____

5.) Electronic Controls* (Must Use Electronic Flush Valve):

❑ WUFC-4000 ❑ Pneutronic ❑ WMSII

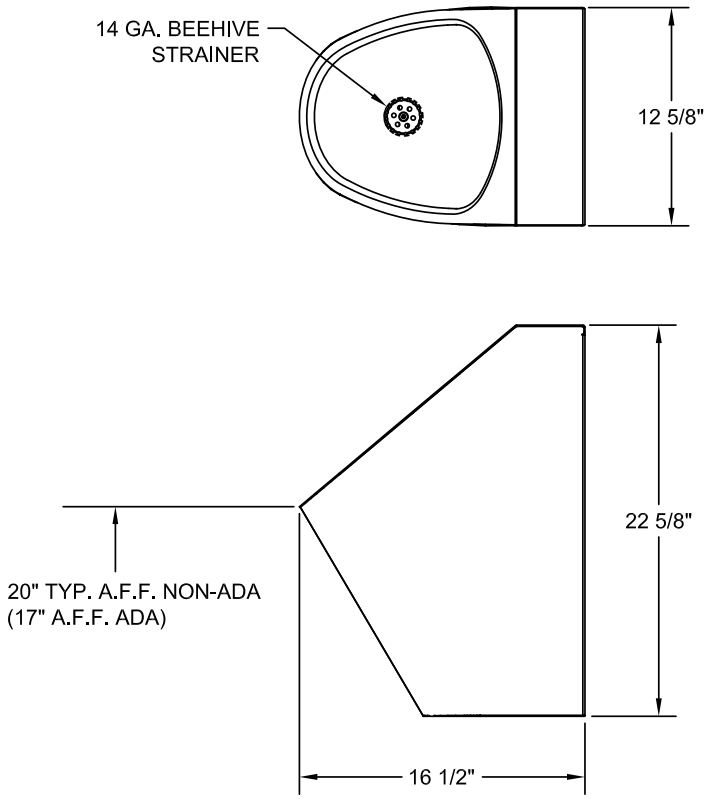
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____

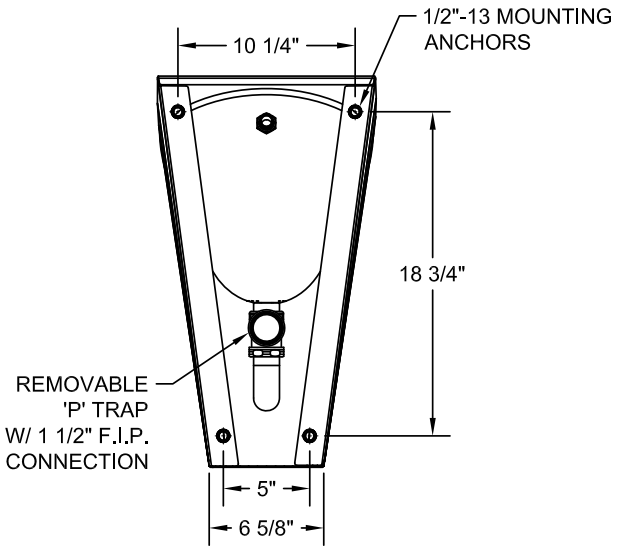
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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IN COMPLIANCE WITH A.D.A. 2010



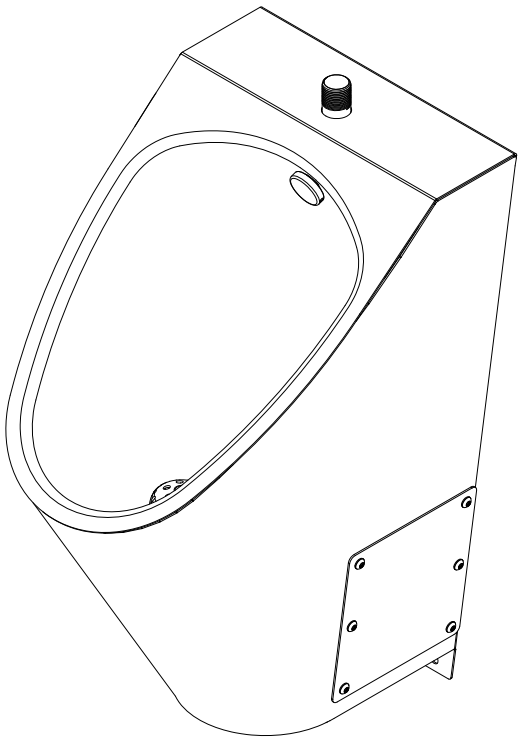
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Willoughby Industries - *Security Products*

UW-1317-HEU-FA
Single Person
Front Access
ADA-Compliant
Contoured
Washout Flush
High Efficiency Urinal



WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Single Person, Front Access, ADA-Compliant, Contoured, Washout Flush, High Efficiency Urinal with top spud, 1/8 GPF, wall template, hydraulic flush valve, and ligature-resistant flush valve cover

Use the following Willoughby Model Number:
UW-1317-HEU-FA-TS-0.125-MT-FV-ASFVC

Recommended Specifications

Single Person, Front Access, ADA-Compliant, Contoured, Washout Flush, High Efficiency Urinal shall be:
Willoughby Model No. **UW-1317-HEU-FA-BS**
(Select from model number and options list on next page)

Fixture is fabricated from all 16 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless steel surfaces polished to a satin finish. Contoured interior and exterior surfaces for ease of cleaning.

Standard equipment shall include:
- Machined stainless steel flush nozzle
- Beehive strainer
- Removable P-trap with 1-1/2" F.I.P. waste connection
- 3/4" N.P.T. male inlet connection
- Removable access cover

High Efficiency Urinal shall be washout type requiring 1/8 to 1/2 GPF flush valve and 25 PSI minimum flushing pressure. Trap shall be fully enclosed and maintain a 3" seal.

Mounting hardware by others.

Unit requires no chase area for installation and maintenance unless specified with any options requiring an accessible chase.

Urinals mounted at 17" rim height to comply with ANSI, ADA and UFAS accessibility requirements. Please consult local code as compliance is subject to the interpretation and requirements of the local code authority.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ UW-1317-HEU-FA Single Person, Front Access, ADA-Compliant, Contoured, Washout Flush, High Efficiency Urinal

2.) Inlet Location:

❑ BS Back Spud
❑ TS Top Spud

3.) Flush Valve GPF (Must Specify):

❑ 0.5 GPF (1.9 Lpf) High Efficiency (HEU) (WaterSense Labeled)
❑ 0.125 GPF (0.4 Lpf) High Efficiency (HEU)

4.) Options:

❑ MT Wall Template
❑ FV Hydraulic Flush Valve (Includes Actuator)
❑ EFV Electronic Flush Valve (Pick Control)*
❑ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*
❑ ASUFVC Ligature-resistant Urinal Flush Valve Cover (Top Spud Only)
❑ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ DC Decorator Color (Fixture exterior only - White)
❑ Other _____
❑ Other _____

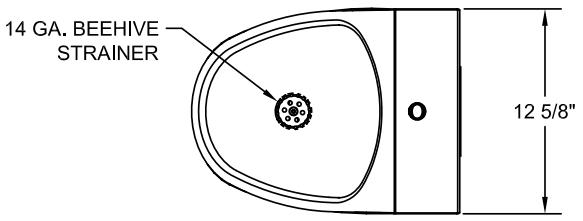
5.) Electronic Controls* (Must Use Electronic Flush Valve):

❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

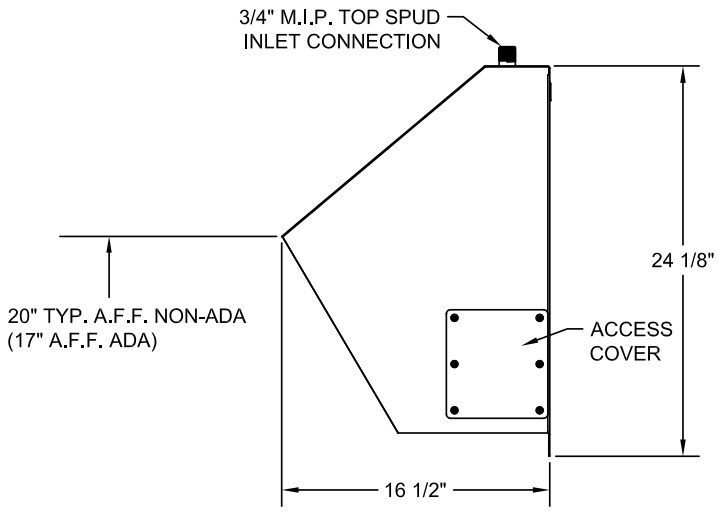
Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

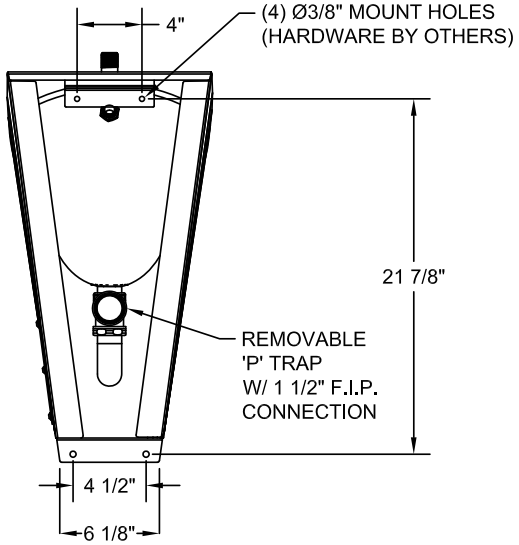
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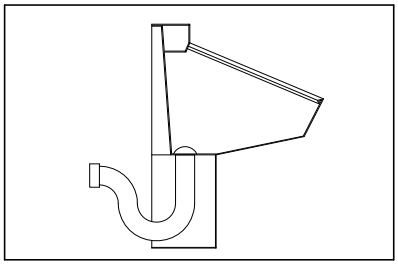
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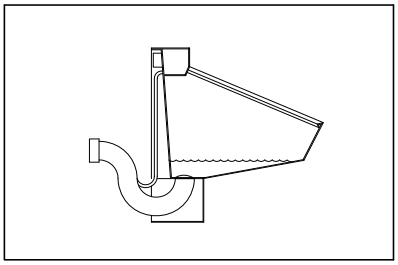
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URINAL OPTIONS

FLUSH TYPE

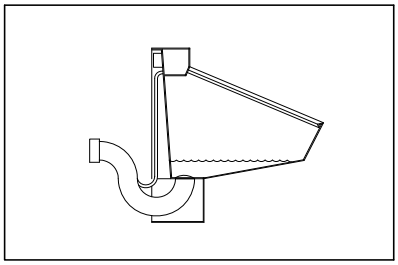


(WO)- WASH OUT

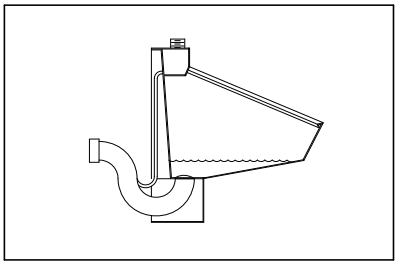


(BJ)- BLOW OUT

INLET LOCATION

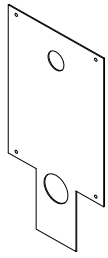


(BS)- BACK SPUD



(TS)- TOP SPUD

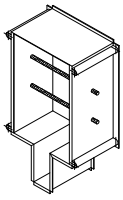
OTHER OPTIONS



CONSTRUCTED OF 18 GAUGE GALVANIZED STEEL.

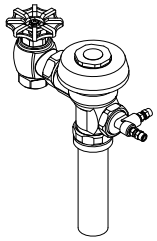
METAL WALL TEMPLATES PROVIDE FOR FIXTURE ROUGH-IN CUT-OUTS IN A STEEL WALL. THE TEMPLATE HAS INTEGRAL LAYOUT PATTERNS FOR CUTTING OR DRILLING WALL OPENINGS.

(MT)- WALL TEMPLATE



CONSTRUCTED OF 20 GAUGE GALVANIZED STEEL.
WALL SLEEVES PROVIDE FOR FIXTURE PLUMBING ROUGH-IN OPENINGS IN BLOCK AND POURED CONCRETE WALLS. THE SLEEVE BECOMES A PERMANENT PART OF THE WALL AND HAS 1/2" DIAMETER STEEL ROD(S) WELDED TO THE FRAME. THE STEEL RODS PROVIDE RIGIDITY AND HELP TO HINDER ESCAPE INTO THE CHASE SHOULD THE FIXTURE BE REMOVED. (SLEEVE BRACING BY OTHERS DURING WALL CONSTRUCTION REQUIRED) (MUST SPECIFY WALL THICKNESS AND TYPE)

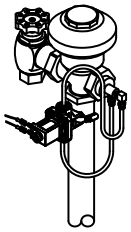
(WS)- WALL SLEEVE



PROVIDES WATER SUPPLY CONTROL FOR FLUSHING URINALS. DELANY, SLOAN, AND ZURN FLUSH VALVES ARE COMPATIBLE WITH WILLOUGHBY UNITS.

(SEE SUPPLEMENTAL INFORMATION SECTION)

(FV)- FLUSH VALVE



PROVIDES WATER SUPPLY CONTROL FOR FLUSHING WATER CLOSETS. DELANY, SLOAN, AND ZURN FLUSH VALVES ARE COMPATIBLE WITH WILLOUGHBY UNITS.

FLUSH VALVES ARE AVAILABLE IN 3.5 GPF, 1.6 GPF, AND 1.28 GPF.

(SEE **S11-SUPPLEMENTAL INFORMATION**)

(EFV)- ELECTRONIC FLUSH VALVE
(FOR USE W/ WILLOUGHBY ELECTRONIC CONTROLS)

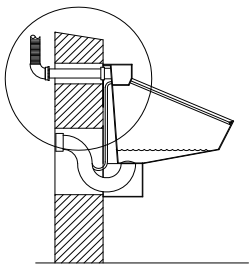
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URINAL OPTIONS (CONT.)

OTHER OPTIONS (CONT.)

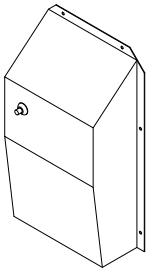


FLUSH VALVE TAILPIECES ARE FURNISHED STANDARD WITH SLIP JOINT FIXTURE CONNECTIONS.

STANDARD SLIP JOINT CONNECTIONS WILL WORK FOR WALL THICKNESSES UP TO 2", BEYOND WHICH THE CONNECTION BECOMES MORE DIFFICULT TO MAKE.

WILLOUGHBY RECOMMENDS THE USE OF A THROUGH-THE-WALL FLUSHING CONNECTION, ALLOWING FOR THE CONNECTION TO BE MADE IN THE CHASE.

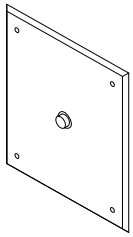
(FVT)- FLUSH VALVE THROUGH-WALL CONNECTION



CONSTRUCTED OF 14 GA. TYPE 304 STAINLESS STEEL W/ #4 SATIN FINISH AND LIGATURE-RESISTANT SLOPED TOP AND BOTTOM

FOR USE WHEN FLUSH VALVES ARE EXPOSED IN SECURE AREAS WHERE LIGATURE POINTS ARE A CONSIDERATION. VANDAL RESISTANT AND COMPATIBLE WITH TOP SUPPLY URINALS

(ASUFVC)- URINAL FLUSH VALVE COVER



CONSTRUCTED OF 14 GA. TYPE 304 STAINLESS STEEL AND 20 GA. GALVANIZED STEEL (IN-WALL FRAME)

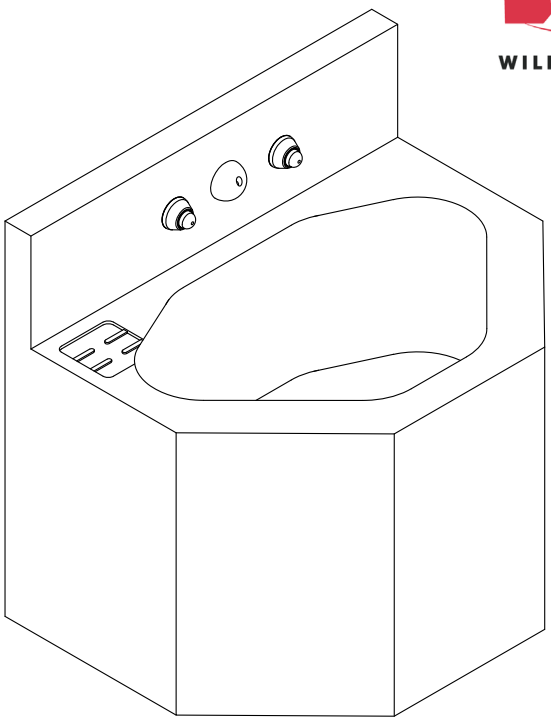
FOR USE WHEN ACCESS TO CHASE MOUNTED FLUSH VALVE IS DESIRED FROM THE FIXTURE SIDE OF THE WALL (SPECIFY WALL THICKNESS AND TYPE)

(AP)- FLUSH VALVE ACCESS PANEL

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HS-1013-46-15
15" Wide
Rear Mounted
Lavatory



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify a 15" Wide, Rear Mounted Lavatory with ligature-resistant bubbler, dual temp. pneumatic metering valve, ligature-resistant pneumatic push buttons, elbow waste, and single towel hook

Use the following Willoughby Model Number:
HS-1013-46-15-BPH-PML2-PBH-EB-TH1

Recommended Specifications

15" Wide, Rear Mounted Lavatory shall be:
Willoughby Model No. **HS-1013-46-15**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard lavatory shall include:
- Multi-sided bowl, 12-3/4" x 8-1/4" x 5" deep
- Stainless steel penal bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" Plain End)
- Self-draining soap dish
- 0.5 GPM flow rate

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

WARNING: Cancer and Reproductive Harm
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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
❑ HS-1013-46-15 15" Wide, Rear Mounted Lavatory

2.) Bubbler Selection:
❑ BPH Ligature-resistant Bubbler/Filler (Standard)
❑ BC Code Bubbler/Filler (w/ Non Ligature-Resistant Mouth Guard)
❑ FLH Ligature-resistant Lav. Filler

3.) Lavatory Valve Selection:
❑ NV No Valve
❑ PSL1 Single Temp. Pneumatic Non-metering
❑ PSL2 Dual Temp. Pneumatic Non-metering
❑ PML1 Single Temp. Pneumatic Metering
❑ PML2 Dual Temp. Pneumatic Metering
❑ E1L1 Single Temp. Electronic (pick control)*
❑ E1L2 Dual Temp. Electronic (pick control)*

Valve Manifold Options:
Pneumatic or Electronic Only:
❑ MA2 ❑ MA3 ❑ MA4

4.) Lavatory Valve Actuation:
❑ PBH Ligature-resistant Pneumatic Push Buttons
❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

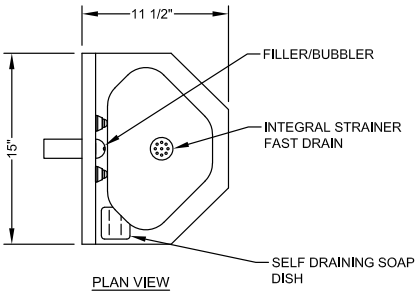
5.) Electronic Controls* (Must Use Electronic Push Button):
❑ WUCC-3010 ❑ Pneutronic ❑ WMSII
(The WUCC-3010 Control can be used to pair a Lavatory with a Toilet)

6.) Lavatory Waste:
❑ EB Elbow Waste (Standard)
❑ PT Integral 'P'-Trap
❑ LWE Lavatory Waste Extension
❑ OV Lavatory Overflow
❑ SLOW Slow Drain
❑ LW1 Thru-Wall Extension, 'P'-Trap
❑ LW2 Thru-Wall Extension and Clean-Out
❑ LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube
❑ LWC2 Coupling, 1-1/2" Tube to 1-1/2" PVC/Cast Iron

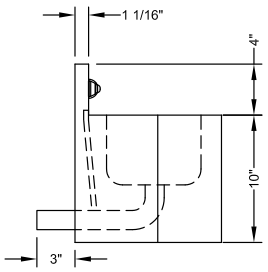
7.) Options:
❑ MT Wall Template
❑ TB1 Single Toothbrush Holder
❑ Right ❑ Left
❑ TB2 Dual Toothbrush Holder
❑ Right ❑ Left
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ TH1 Single Towel Hook
❑ Right ❑ Left
❑ TH2 Dual Towel Hook
❑ Right ❑ Left
❑ WS Wall Sleeve (Requires Accessible Chase)
❑ ISH Integral Shelf
❑ VG Ventilation Grille (Specify Location and Free Area)
❑ Other: _____
❑ Other: _____
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

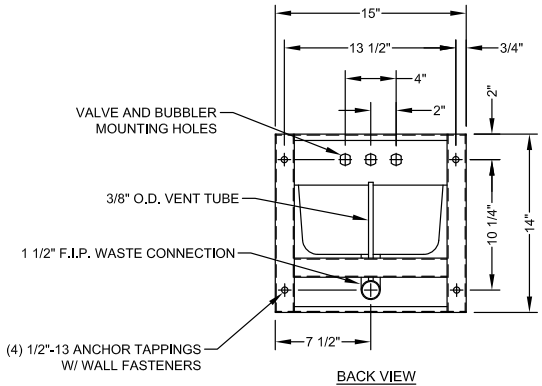
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PLAN VIEW



SIDE VIEW



BACK VIEW

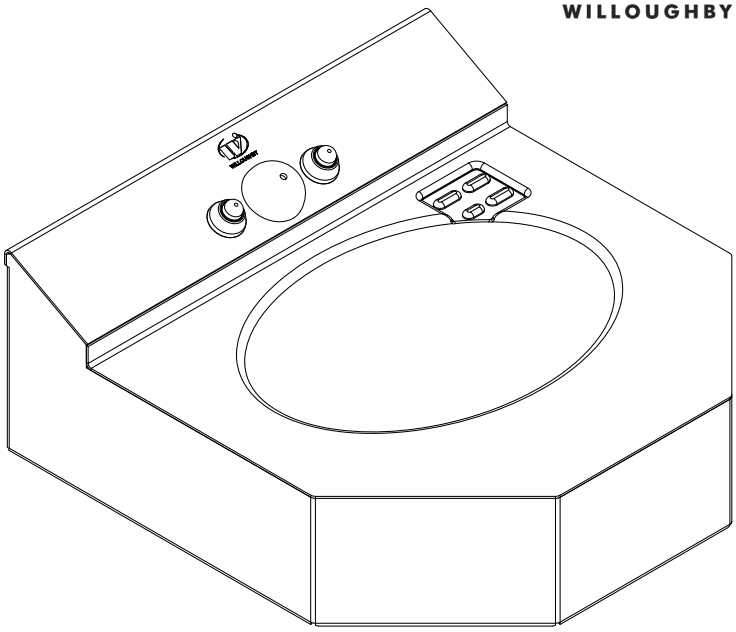
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Willoughby Industries - *Security Products*

HS-1013-46-HC
18" Wide
Rear Mounted
Handicap-ADA Compliant
Lavatory



IN COMPLIANCE
WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an 18" Wide, Rear Mounted, Handicap-ADA Compliant Lavatory with ligature-resistant security penal filler/bubbler, dual temp. pneumatic metering valve, ligature-resistant pneumatic push buttons, elbow waste, and single towel hook

Use the following Willoughby Model Number:
HS-1013-46-HC-SBPH-PML2-PBH-EB-TH1

Recommended Specifications

18" Wide, Rear Mounted, Handicap-ADA Compliant Lavatory shall be: Willoughby Model No. **HS-1013-46-HC**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard lavatory shall include:
- Oval-shaped bowl, 13" x 9-1/2" x 6" deep
- Stainless steel penal bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" Plain End)
- Self-draining soap dish
- 0.5 GPM flow rate

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
❑ HS-1013-46-HC 18" Wide, Rear Mounted, Handicap-ADA Compliant Lavatory

2.) Bubbler Selection:
❑ SBPH Security Ligature-resistant Penal Bubbler/Filler (Standard)
❑ SBC Security Code Bubbler/Filler (w/ Non Ligature-Resistant Mouth Guard)

3.) Lavatory Valve Selection:
❑ NV No Valve
❑ PML1 Single Temp. Pneumatic Metering
❑ PML2 Dual Temp. Pneumatic Metering
❑ E1L1 Single Temp. Electronic (pick control)*
❑ E1L2 Dual Temp. Electronic (pick control)*

Valve Manifold Options:
Pneumatic or Electronic Only:
❑ MA2 ❑ MA3 ❑ MA4

4.) Lavatory Valve Actuation:
❑ PBH Ligature-resistant Pneumatic Push Buttons
❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

5.) Electronic Controls* (Must Use Electronic Push Button):
❑ WUCC-3010 ❑ Pneutronic ❑ WMSII
(The WUCC-3010 Control can be used to pair a Lavatory with a Toilet)

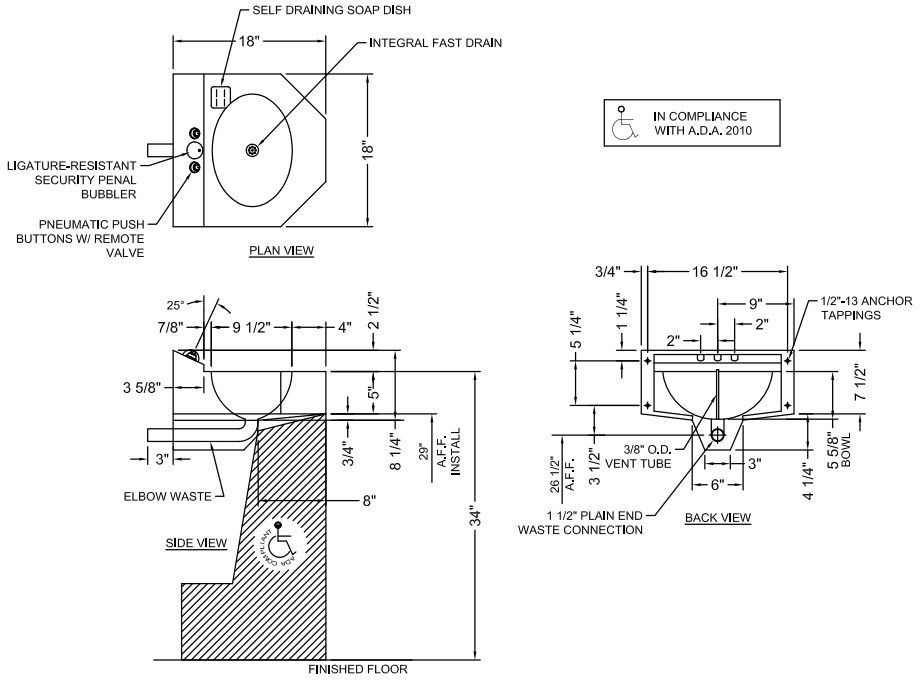
6.) Lavatory Waste:
❑ EB Elbow Waste (Standard)
❑ PT Integral 'P'-Trap
❑ LWE Lavatory Waste Extension
❑ OV Lavatory Overflow
❑ SLOW Slow Drain
❑ LW1 Thru-Wall Extension, 'P'-Trap
❑ LW2 Thru-Wall Extension and Clean-Out
❑ LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube
❑ LWC2 Coupling, 1-1/2" Tube to 1-1/2" PVC/Cast Iron

7.) Options:
❑ MT Wall Template
❑ TB1 Single Toothbrush Holder
❑ Right ❑ Left
❑ TB2 Dual Toothbrush Holder
❑ Right ❑ Left
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ TH1 Single Towel Hook
❑ Right ❑ Left
❑ TH2 Dual Towel Hook
❑ Right ❑ Left
❑ WS Wall Sleeve (Requires Accessible Chase)
❑ DFBH Ligature-resistant DM Drinking Fountian Bubbler**
**(Panel Mounted Push Button)
❑ DC Decorator Color (Fixture exterior only - White)
❑ Other: _____
❑ Other: _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN
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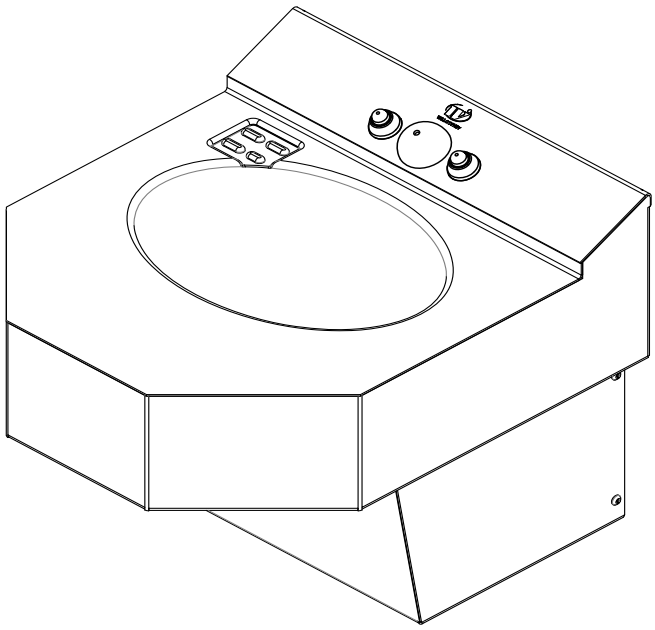
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Willoughby Industries - *Security Products*

HS-1013-46-HC-FA
18" Wide
Front Access
Handicap-ADA Compliant
Lavatory



IN COMPLIANCE
WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an 18" Wide, Front Access, Handicap-ADA Compliant Lavatory with ligature-resistant security penal filler/bubbler and dual temp. pneumatic metering valve, ligature-resistant pneumatic push buttons, and removable 'p' trap
Use the following Willoughby Model Number:
HS-1013-46-HC-FA-SBPH-PML2-PBH-RPT

Recommended Specifications

18" Wide, Front Access, Handicap-ADA Compliant Lavatory shall be: Willoughby Model No. **HS-1013-46-HC-FA**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard lavatory shall include:
- Oval-shaped bowl, 13" x 9-1/2" x 6" deep
- Stainless steel penal bubbler/filler
- Fast drain with air vent
- (1-1/2") slip joint, cast brass union 'p'-trap
- Removable bottom panel attached w/ vandal resistant screws
- Self-draining soap dish
- 0.5 GPM flow rate

Anchoring shall be from the front through the 'z'-clip back plate and anchoring holes. Anchoring hardware by others. Unit requires no chase area for installation and maintenance.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ HS-1013-46-HC-FA 18" Wide, Front Access, Handicap-ADA Compliant Lavatory

2.) Bubbler Selection:

❑ SBPH Security Ligature-resistant Penal Bubbler/Filler (Standard)
❑ SBC Security Code Bubbler/Filler (w/ Non Ligature-Resistant Mouth Guard)

3.) Lavatory Valve Selection:

❑ NV No Valve
❑ PML1 Single Temp. Pneumatic Metering
❑ PML2 Dual Temp. Pneumatic Metering
❑ E1L1 Single Temp. Electronic (pick control)*
❑ E1L2 Dual Temp. Electronic (pick control)*

4.) Lavatory Valve Actuation:

❑ PBH Ligature-resistant Pneumatic Push Buttons
❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

5.) Electronic Controls* (Must Use Electronic Push Button):

❑ WUCC-3010 ❑ Pneutronic ❑ WMSII
(The WUCC-3010 Control can be used to pair a Lavatory with a Toilet)

6.) Lavatory Waste:

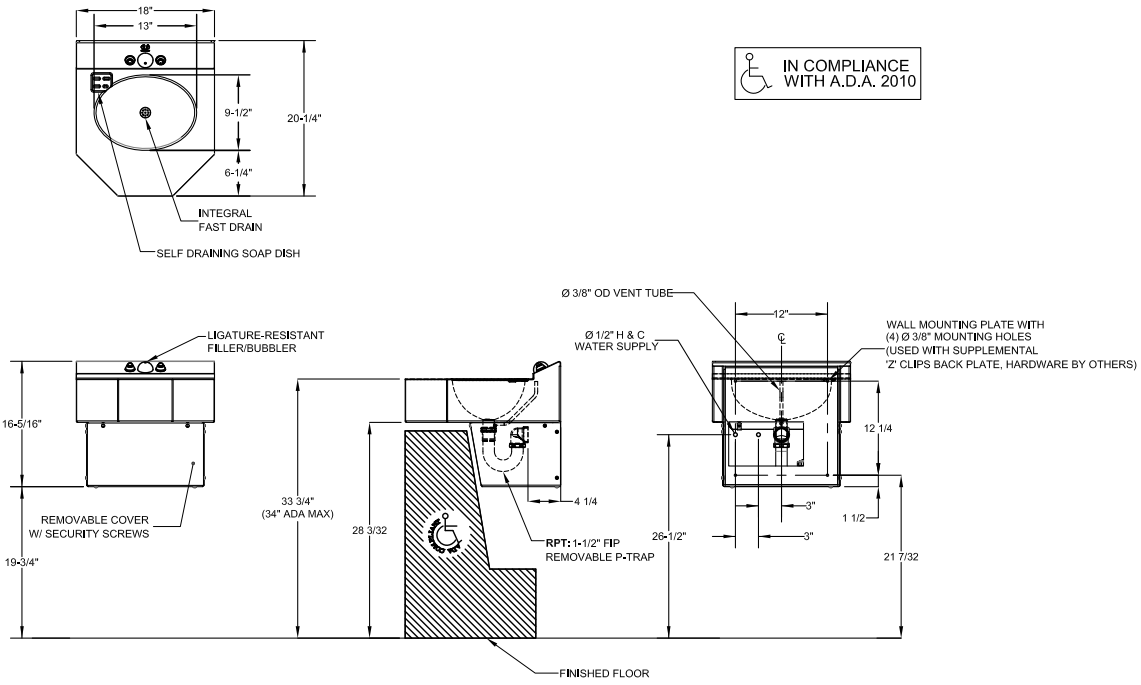
❑ RPT Removable 'P'-Trap (Standard)
❑ OV Lavatory Overflow
❑ SLOW Slow Drain

7.) Options:

❑ MT Wall Template
❑ TB1 Single Toothbrush Holder
❑ Right ❑ Left
❑ TB2 Dual Toothbrush Holder
❑ Right ❑ Left
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ TH1 Single Towel Hook
❑ Right ❑ Left
❑ TH2 Dual Towel Hook
❑ Right ❑ Left
❑ DFBH Ligature-resistant DM Drinking Fountian Bubbler**
**(Panel Mounted Push Button)
❑ Other: _____
❑ Other: _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____



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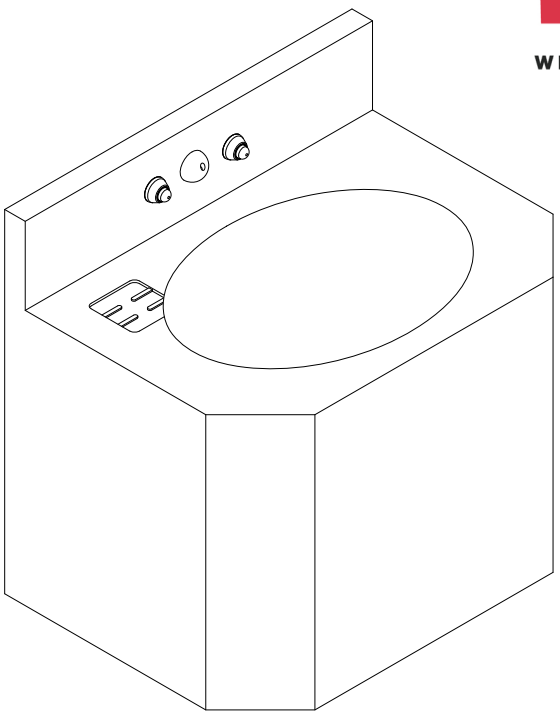
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Willoughby Industries - *Security Products*

HS-1013-96
18" Wide
Rear Mounted
Rectangular Cabinet
Lavatory



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an 18" Wide, Rear Mounted, Rectangular Cabinet Lavatory with ligature-resistant bubbler, dual temp. pneumatic metering valve, ligature-resistant pneumatic push buttons, integral 'p' trap, single towel hook, and wall sleeve
Use the following Willoughby Model Number:
HS-1013-96-BPH-PML2-PBH-PT-TH1-WS

Recommended Specifications

18" Wide, Rear Mounted, Rectangular Cabinet Lavatory shall be: Willoughby Model No. **HS-1013-96**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard lavatory shall include:
- Oval-shaped bowl, 13" x 9-1/2" x 6" deep
- Stainless steel penal bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" Plain End)
- Self-draining soap dish
- 0.5 GPM flow rate

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
❑ HS-1013-96 18" Wide, Rear Mounted, Rectangular Cabinet Lavatory

2.) Bubbler Selection:
❑ BPH Ligature-resistant Bubbler/Filler (Standard)
❑ BC Code Bubbler/Filler (w/ Non Ligature-Resistant Mouth Guard)
❑ FLH Ligature-resistant Lav. Filler

3.) Lavatory Valve Selection:
❑ NV No Valve
❑ PSL1 Single Temp. Pneumatic Non-metering
❑ PSL2 Dual Temp. Pneumatic Non-metering
❑ PML1 Single Temp. Pneumatic Metering
❑ PML2 Dual Temp. Pneumatic Metering
❑ E1L1 Single Temp. Electronic (pick control)*
❑ E1L2 Dual Temp. Electronic (pick control)*

Valve Manifold Options:
Pneumatic or Electronic Only:
❑ MA2 ❑ MA3 ❑ MA4

4.) Lavatory Valve Actuation:
❑ PBH Ligature-resistant Pneumatic Push Buttons
❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

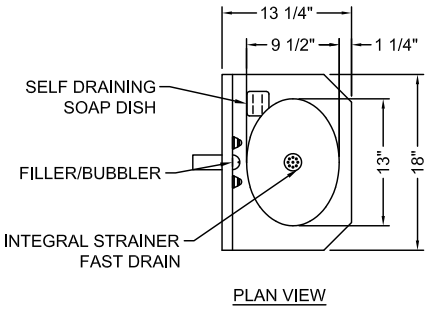
5.) Electronic Controls* (Must Use Electronic Push Button):
❑ WUCC-3010 ❑ Pneutronic ❑ WMSII
(The WUCC-3010 Control can be used to pair a Lavatory with a Toilet)

6.) Lavatory Waste:
❑ EB Elbow Waste (Standard)
❑ PT Integral 'P'-Trap
❑ LWE Lavatory Waste Extension
❑ OV Lavatory Overflow
❑ SLOW Slow Drain
❑ LW1 Thru-Wall Extension, 'P'-Trap
❑ LW2 Thru-Wall Extension and Clean-Out
❑ LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube
❑ LWC2 Coupling, 1-1/2" Tube to 1-1/2" PVC/Cast Iron

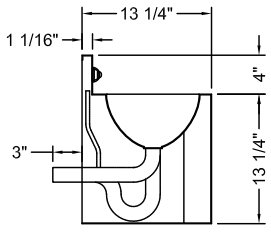
7.) Options:
❑ MT Wall Template
❑ TB1 Single Toothbrush Holder
❑ Right ❑ Left
❑ TB2 Dual Toothbrush Holder
❑ Right ❑ Left
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ TH1 Single Towel Hook
❑ Right ❑ Left
❑ TH2 Dual Towel Hook
❑ Right ❑ Left
❑ WS Wall Sleeve (Requires Accessible Chase)
❑ ISH Integral Shelf
❑ VG Ventilation Grille (Specify Location and Free Area)
❑ Other: _____
❑ Other: _____
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

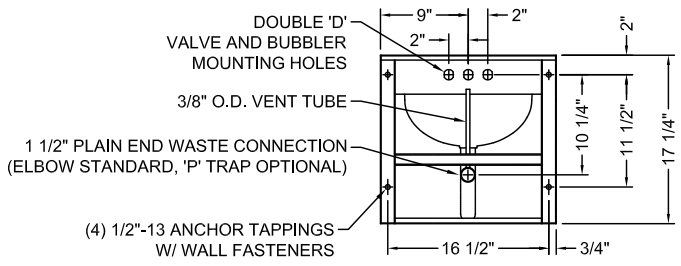
VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN
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PLAN VIEW



SIDE VIEW



REAR VIEW

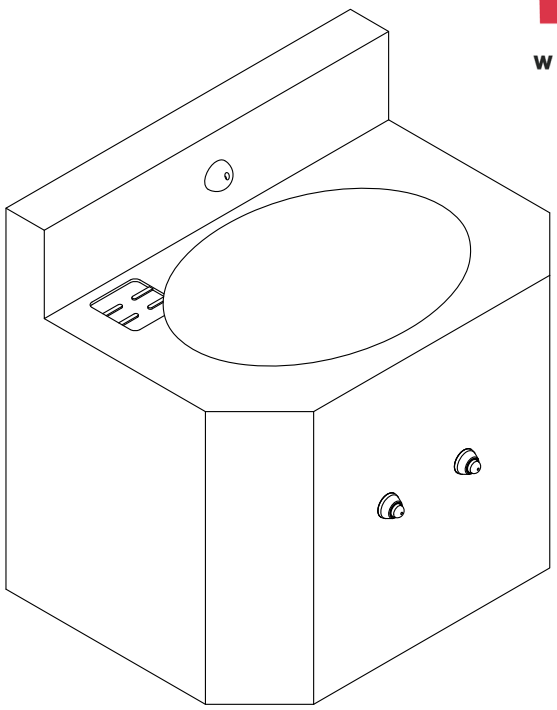
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HS-1013-96-FA
18" Wide
Front Access
Rectangular Cabinet
Lavatory



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an 18" Wide, Front Access, Rectangular Cabinet Lavatory with ligature-resistant bubbler, dual temp. pneumatic metering valve, ligature-resistant pneumatic push buttons, and removable 'p'-trap
Use the following Willoughby Model Number:
HS-1013-96-FA-BPH-PML2-PBH-RPT

Recommended Specifications

18" Wide, Front Access, Rectangular Cabinet Lavatory shall be: Willoughby Model No. **HS-1013-96-FA**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard lavatory shall include:
- Oval-shaped bowl, 13" x 9-1/2" x 6" deep
- Stainless steel penal bubbler/filler
- Fast drain with air vent
- (1-1/2") slip joint, cast brass 'p'-trap
- Removable bottom panel attached w/ vandal resistant screws
- Self-draining soap dish
- 0.5 GPM flow rate

Anchoring shall be from the front with 'z'-clip and anchoring holes provided. Anchoring hardware by others. Unit requires no chase area for installation and maintenance.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
❑ HS-1013-96-FA 18" Wide, Front Access, Rectangular Cabinet Lavatory

2.) Bubbler Selection:
❑ BPH Ligature-resistant Bubbler/Filler (Standard)
❑ BC Code Bubbler/Filler (w/ Non Ligature-Resistant Mouth Guard)
❑ FLH Ligature-resistant Lav. Filler

3.) Lavatory Valve Selection:
❑ NV No Valve
❑ PSL1 Single Temp. Pneumatic Non-metering
❑ PSL2 Dual Temp. Pneumatic Non-metering
❑ PML1 Single Temp. Pneumatic Metering
❑ PML2 Dual Temp. Pneumatic Metering
❑ E1L1 Single Temp. Electronic (pick control)*
❑ E1L2 Dual Temp. Electronic (pick control)*

4.) Lavatory Valve Actuation:
❑ PBH Ligature-resistant Pneumatic Push Buttons
❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

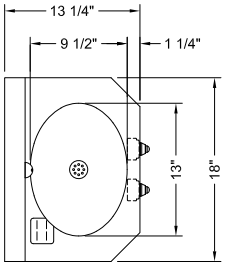
5.) Electronic Controls* (Must Use Electronic Push Button):
❑ WUCC-3010 ❑ Pneutronic ❑ WMSII
(The WUCC-3010 Control can be used to pair a Lavatory with a Toilet)

6.) Lavatory Waste:
❑ RPT Removable 'P'-Trap (Standard)
❑ OV Lavatory Overflow
❑ SLOW Slow Drain

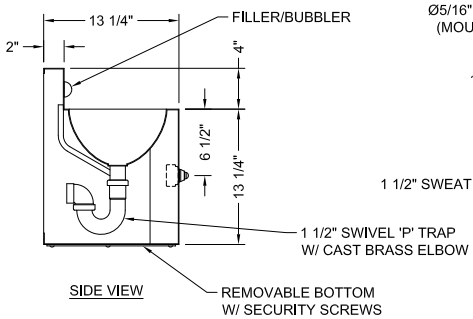
7.) Options:
❑ MT Wall Template
❑ TB1 Single Toothbrush Holder
❑ Right ❑ Left
❑ TB2 Dual Toothbrush Holder
❑ Right ❑ Left
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ TH1 Single Towel Hook
❑ Right ❑ Left
❑ TH2 Dual Towel Hook
❑ Right ❑ Left
❑ ISH Integral Shelf
❑ Other: _____
❑ Other: _____
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

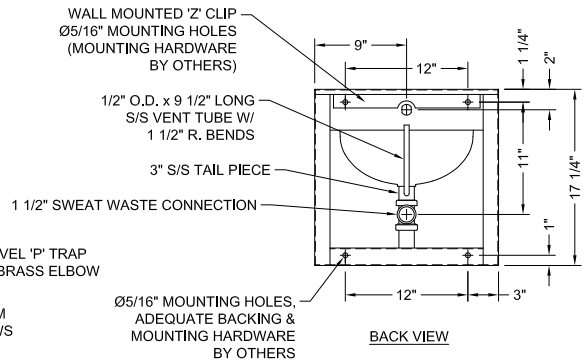
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PLAN VIEW



SIDE VIEW



BACK VIEW

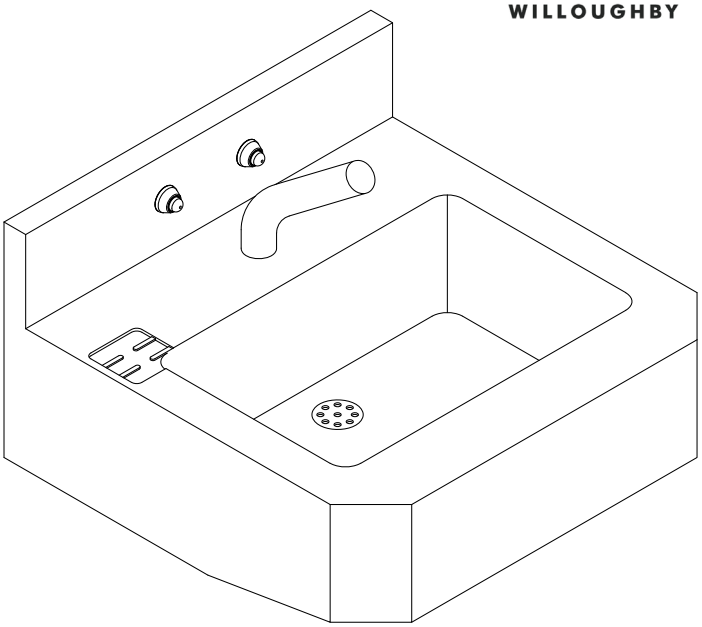
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Willoughby Industries - *Security Products*

HS-1014-96-HC
18" Wide
Rear Mounted
Handicap-ADA Compliant
Rectangular Bowl
Lavatory



IN COMPLIANCE
WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an 18" Wide, Rear Mounted, Handicap-ADA Compliant, Rectangular Bowl Lavatory with dual temp. pneumatic metering valve, ligature-resistant pneumatic push buttons, deck mounted spout, standard elbow waste, and wall sleeve

Use the following Willoughby Model Number:
HS-1014-96-HC-PML2-PBH-DMS-EB-WS

Recommended Specifications

18" Wide, Rear Mounted, Handicap-ADA Compliant, Rectangular Bowl Lavatory shall be:
Willoughby Model No. **HS-1014-96-HC**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard lavatory shall include:
- Rectangular-shaped bowl, 14-1/2" x 9-1/2" x 4-3/8" deep
- Fast drain with air vent
- Elbow waste (1-1/2" Plain End)
- Self-draining soap dish
- 0.5 GPM flow rate

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

Note: Only deck mounted Willoughby lavatory spouts and filler/bubblers are available with this lavatory model.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ HS-1014-96-HC 18" Wide, Rear Mounted, Handicap-ADA Compliant, Rectangular Bowl Lavatory

2.) Spout/Bubbler Selection:
- ❑ DMS Deck Mounted Spout
- ❑ DMB Deck Mounted Bubbler
- ❑ DMBH Ligature-resistant Deck Mounted Bubbler

3.) Lavatory Valve Selection:
- ❑ NV No Valve (Select Hole Punching if needed)
- ❑ PML1 Single Temp. Pneumatic Metering
- ❑ PML2 Dual Temp. Pneumatic Metering
- ❑ E1L1 Single Temp. Electronic (pick control)*
- ❑ E1L2 Dual Temp. Electronic (pick control)*

Valve Manifold Options:

Pneumatic or Electronic Only:

❑ MA2 ❑ MA3 ❑ MA4

4.) Lavatory Valve Actuation:
- ❑ PBH Ligature-resistant Pneumatic Push Buttons
- ❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

5.) Electronic Controls* (Must Use Electronic Push Button):

❑ WUCC-3010 ❑ Pneutronic ❑ WMSII

(The WUCC-3010 Control can be used to pair a Lavatory with a Toilet)

6.) Hole Punching:
- ❑ 4CC 4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
- ❑ 8CC 8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
- ❑ 1CC Center Shank, (1) Ø1-1/4" Hole
- ❑ SP Special Punching (Specify hole punching dim.)

SP: _____

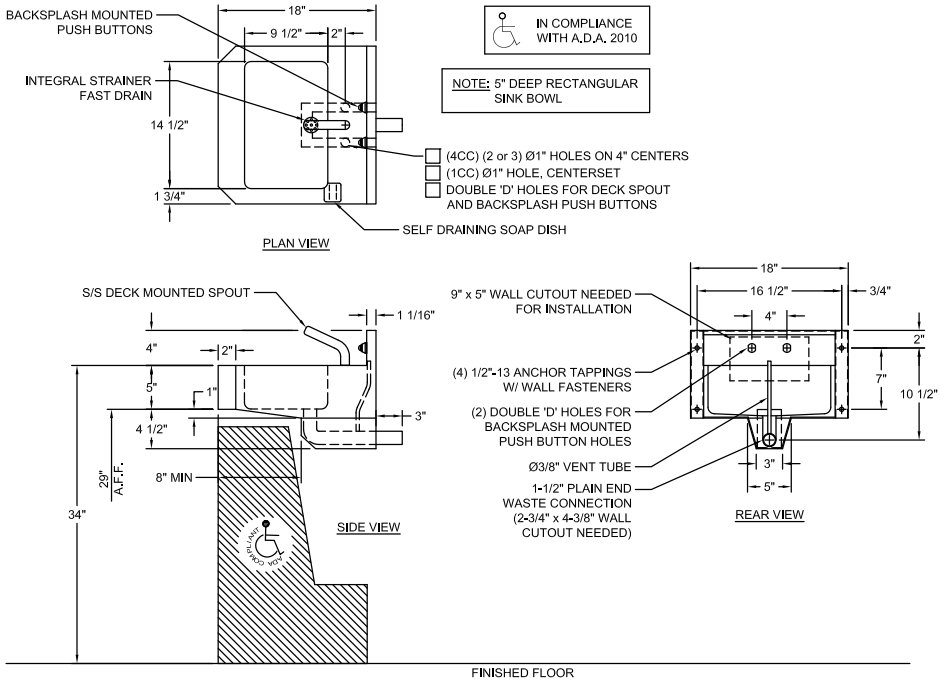
7.) Lavatory Waste:
- ❑ EB Elbow Waste (Standard)
- ❑ PT Integral 'P'-Trap
- ❑ LWE Lavatory Waste Extension
- ❑ OV Lavatory Overflow
- ❑ SLOW Slow Drain
- ❑ LW1 Thru-Wall Extension, 'P'-Trap
- ❑ LW2 Thru-Wall Extension and Clean-Out
- ❑ LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube
- ❑ LWC2 Coupling, 1-1/2" Tube to 1-1/2" PVC/Cast Iron

8.) Options:
- ❑ MT Wall Template
- ❑ TB1 Single Toothbrush Holder ❑ Right ❑ Left
- ❑ TB2 Dual Toothbrush Holder ❑ Right ❑ Left
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ TH1 Single Towel Hook ❑ Right ❑ Left
- ❑ TH2 Dual Towel Hook ❑ Right ❑ Left
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ WS Wall Sleeve (Requires Accessible Chase)
- ❑ ISH Integral Shelf
- ❑ VG Ventilation Grille (Specify Location and Free Area)
- ❑ Other: _____
- ❑ Other: _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____



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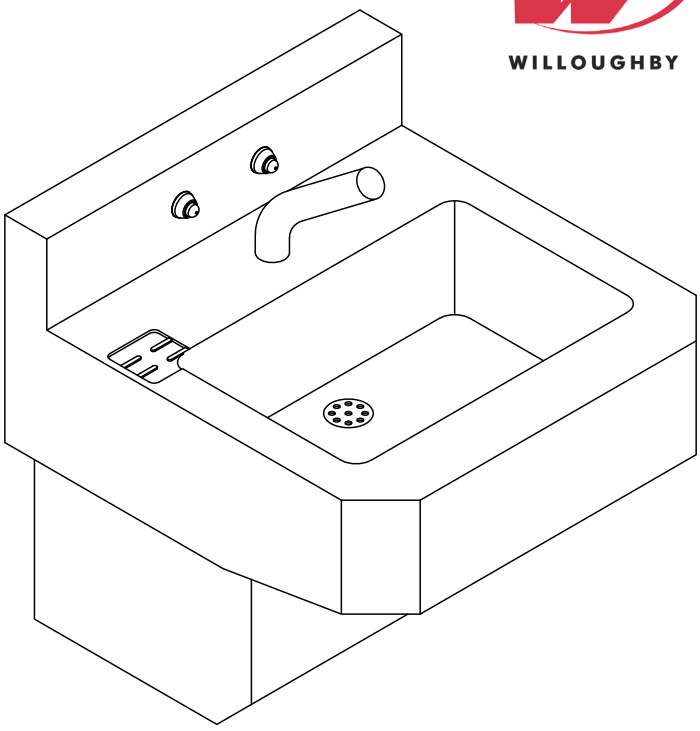
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HS-1014-96-HC-FA
18" Wide
Front Access
Handicap-ADA Compliant
Rectangular Bowl
Lavatory



(Unit may be shown with optional features)

IN COMPLIANCE
WITH A.D.A. 2010

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an 18" Wide, Front Access, Handicap-ADA Compliant, Rectangular Bowl Lavatory with dual temp. pneumatic metering valve, ligature-resistant pneumatic push buttons, deck mounted spout, standard removable 'p'-trap, and wall template

Use the following Willoughby Model Number:
HS-1014-96-HC-FA-PML2-PBH-DMS-RPT-MT

Recommended Specifications

18" Wide, Front Access, Handicap-ADA Compliant, Rectangular Bowl Lavatory shall be:
Willoughby Model No. **HS-1014-96-HC-FA**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard lavatory shall include:
- Rectangular-shaped bowl, 14-1/2" x 9-1/2" x 4-3/8" deep
- Fast drain with air vent
- (1-1/2") slip joint, cast brass union 'p' trap
- Removable bottom panel attached with vandal resistant screws
- Self-draining soap dish
- 0.5 GPM flow rate

Anchoring shall be from the front with 'z' clip, anchoring holes provided. Anchoring hardware by others. Unit requires no chase area for installation and maintenance.

Note: Only deck mounted Willoughby lavatory spouts and filler/bubblers are available with this lavatory model.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ HS-1014-96-HC-FA — 18" Wide, Front Access, Handicap-ADA Compliant, Rectangular Bowl Lavatory

2.) Spout/Bubbler Selection:
- ❑ DMS Deck Mounted Spout
- ❑ DMB Deck Mounted Bubbler
- ❑ DMBH Ligature-resistant Deck Mounted Bubbler

3.) Lavatory Valve Selection:
- ❑ NV No Valve (Select Hole Punching if needed)
- ❑ PML1 Single Temp. Pneumatic Metering
- ❑ PML2 Dual Temp. Pneumatic Metering
- ❑ E1L1 Single Temp. Electronic (pick control)*
- ❑ E1L2 Dual Temp. Electronic (pick control)*

4.) Lavatory Valve Actuation:
- ❑ PBH Ligature-resistant Pneumatic Push Buttons
- ❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

5.) Electronic Controls* (Must Use Electronic Push Button):
- ❑ WUCC-3010 ❑ Pneutronic ❑ WMSII

(The WUCC-3010 Control can be used to pair a Lavatory with a Toilet)

6.) Hole Punching:
- ❑ 4CC 4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
- ❑ 8CC 8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
- ❑ 1CC Center Shank, (1) Ø1-1/4" Hole
- ❑ SP Special Punching (Specify hole punching dim.)

SP: _____

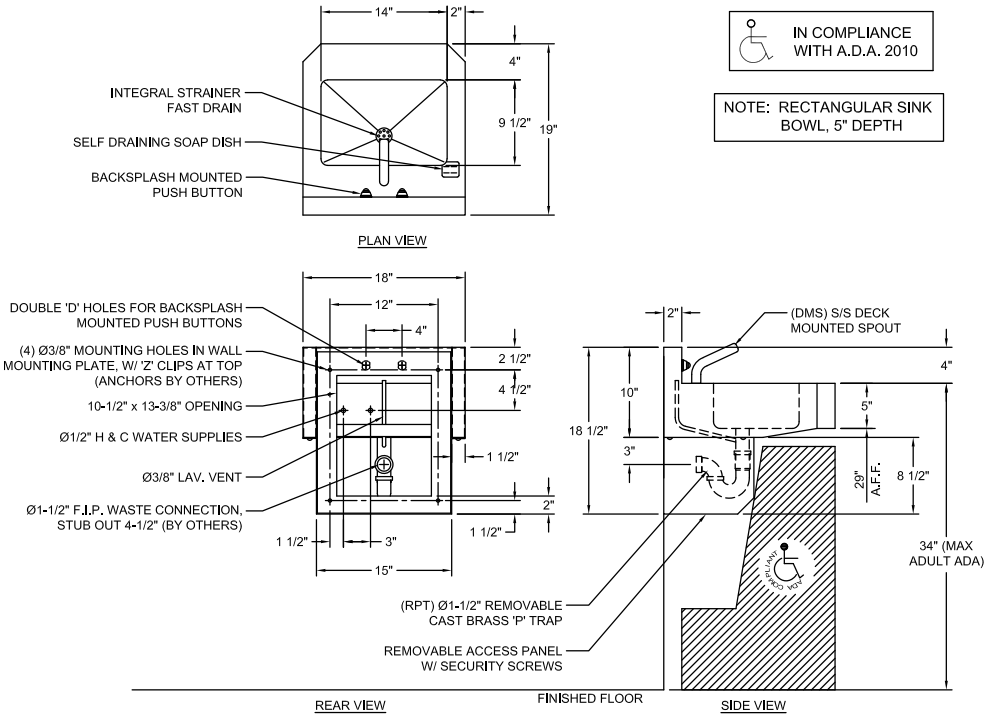
7.) Lavatory Waste:
- ❑ RPT Removable 'P'-Trap (Standard)
- ❑ OV Lavatory Overflow
- ❑ SLOW Slow Drain

8.) Options:
- ❑ MT Wall Template
- ❑ TB1 Single Toothbrush Holder
  - ❑ Right ❑ Left
- ❑ TB2 Dual Toothbrush Holder
  - ❑ Right ❑ Left
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ TH1 Single Towel Hook
  - ❑ Right ❑ Left
- ❑ TH2 Dual Towel Hook
  - ❑ Right ❑ Left
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ ISH Integral Shelf
- ❑ Other: _____
- ❑ Other: _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____



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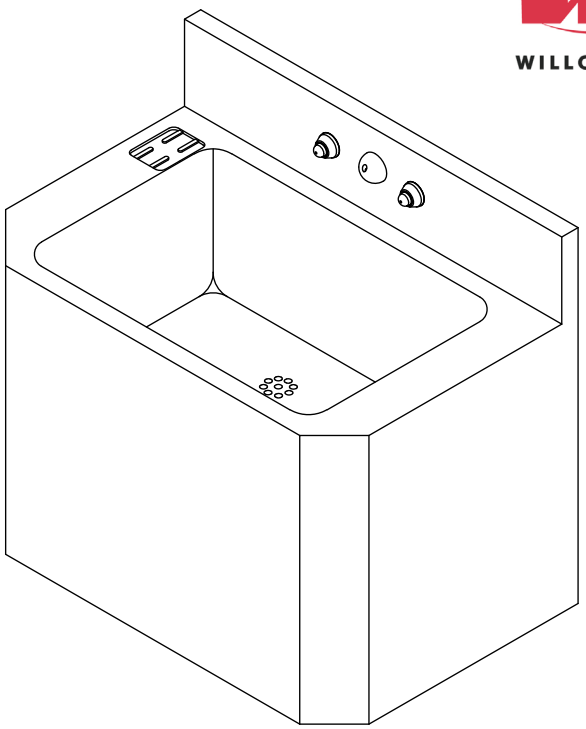
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Willoughby Industries - *Security Products*

HS-1015-20
20" Wide
Rear Mounted
Rectangular Bowl
Lavatory



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a 20" Wide, Rear Mounted, Rectangular Bowl Lavatory with ligature-resistant bubbler, dual temp. pneumatic metering valve ligature-resistant pneumatic push buttons, integral 'P' trap, single towel hook, and wall sleeve
Use the following Willoughby Model Number:
HS-1015-20-BPH-PML2-PBH-PT-TH1-WS

Recommended Specifications

20" Wide, Rear Mounted, Rectangular Bowl Lavatory shall be:
Willoughby Model No. **HS-1015-20**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard lavatory shall include:
- Rectangular-shaped bowl, 14-1/2" x 9-1/2" x 4-3/8" deep
- Stainless steel penal bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" Plain End)
- Self-draining soap dish
- 0.5 GPM flow rate

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
❑ HS-1015-20 20" Wide, Rear Mounted, Rectangular Bowl Lavatory

2.) Bubbler Selection:
❑ BPH Ligature-resistant Bubbler/Filler (Standard)
❑ BC Code Bubbler/Filler (w/ Non Ligature-Resistant Mouth Guard)
❑ FLH Ligature-resistant Lav. Filler

3.) Lavatory Valve Selection:
❑ NV No Valve
❑ PSL1 Single Temp. Pneumatic Non-metering
❑ PSL2 Dual Temp. Pneumatic Non-metering
❑ PML1 Single Temp. Pneumatic Metering
❑ PML2 Dual Temp. Pneumatic Metering
❑ E1L1 Single Temp. Electronic (pick control)*
❑ E1L2 Dual Temp. Electronic (pick control)*

Valve Manifold Options:
Pneumatic or Electronic Only:
❑ MA2 ❑ MA3 ❑ MA4

4.) Lavatory Valve Actuation:
❑ PBH Ligature-resistant Pneumatic Push Buttons
❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

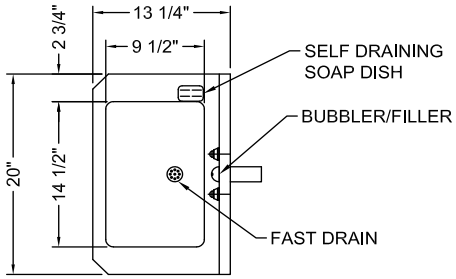
5.) Electronic Controls* (Must Use Electronic Push Button):
❑ WUCC-3010 ❑ Pneutronic ❑ WMSII
(The WUCC-3010 Control can be used to pair a Lavatory with a Toilet)

6.) Lavatory Waste:
❑ EB Elbow Waste (Standard)
❑ PT Integral 'P'-Trap
❑ LWE Lavatory Waste Extension
❑ OV Lavatory Overflow
❑ SLOW Slow Drain
❑ LW1 Thru-Wall Extension, 'P'-Trap
❑ LW2 Thru-Wall Extension and Clean-Out
❑ LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube
❑ LWC2 Coupling, 1-1/2" Tube to 1-1/2" PVC/Cast Iron

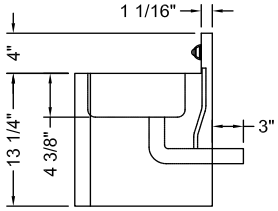
7.) Options:
❑ MT Wall Template
❑ TB1 Single Toothbrush Holder
❑ Right ❑ Left
❑ TB2 Dual Toothbrush Holder
❑ Right ❑ Left
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ TH1 Single Towel Hook
❑ Right ❑ Left
❑ TH2 Dual Towel Hook
❑ Right ❑ Left
❑ WS Wall Sleeve (Requires Accessible Chase)
❑ ISH Integral Shelf
❑ VG Ventilation Grille (Specify Location and Free Area)
❑ Other: _____
❑ Other: _____
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

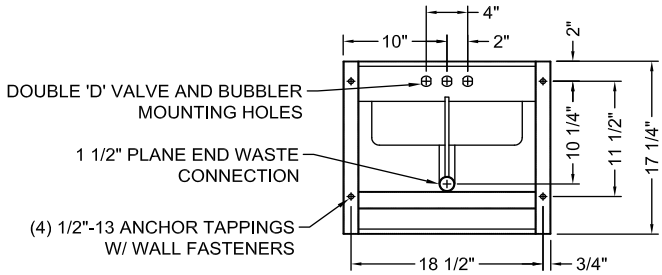
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PLAN VIEW



SIDE VIEW



REAR VIEW

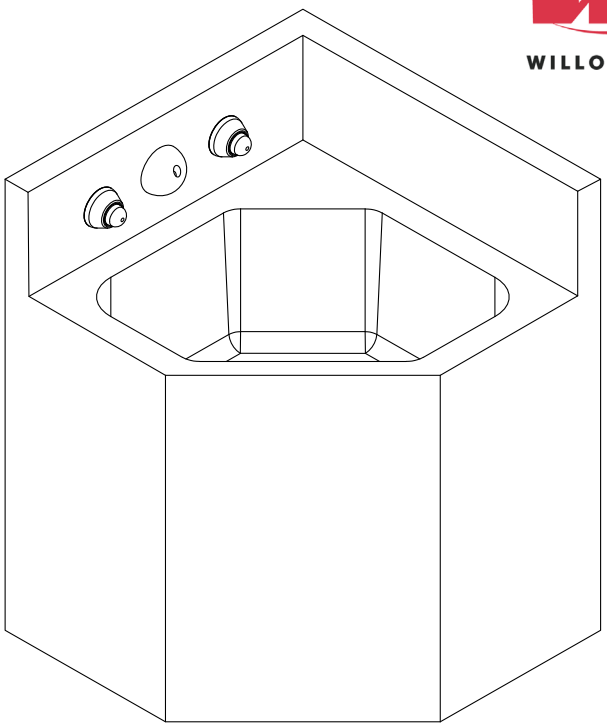
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Willoughby Industries - *Security Products*

CS-1013-46
13" Wide
Corner Lavatory



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify a 13" Wide Corner Lavatory, left hand with ligature-resistant bubbler, dual temp. pneumatic metering valve ligature-resistant pneumatic push buttons, elbow waste, and single towel hook

Use the following Willoughby Model Number:
CS-1013-46-L-BPH-PML2-PBH-EB-TH1

Recommended Specifications

13" Wide, Corner Lavatory shall be:
Willoughby Model No. **CS-1013-46**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard lavatory shall include:
- Multi-sided bowl, 12-3/4" x 8-1/4" x 5" deep
- Stainless steel penal bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" Plain End)
- Self-draining soap dish
- 0.5 GPM flow rate

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
❑ CS-1013-46 13" Wide, Corner Lavatory

2.) Cabinet Mounting:
❑ L Left Hand
❑ R Right Hand

3.) Bubbler Selection:
❑ BPH Ligature-resistant Bubbler/Filler (Standard)
❑ BC Code Bubbler/Filler (w/ Non Ligature-Resistant Mouth Guard)
❑ FLH Ligature-resistant Lav. Filler

4.) Lavatory Valve Selection:
❑ NV No Valve
❑ PSL1 Single Temp. Pneumatic Non-metering
❑ PSL2 Dual Temp. Pneumatic Non-metering
❑ PML1 Single Temp. Pneumatic Metering
❑ PML2 Dual Temp. Pneumatic Metering
❑ E1L1 Single Temp. Electronic (pick control)*
❑ E1L2 Dual Temp. Electronic (pick control)*

Valve Manifold Options:
Pneumatic or Electronic Only:
❑ MA2 ❑ MA3 ❑ MA4

5.) Lavatory Valve Actuation:
❑ PBH Ligature-resistant Pneumatic Push Buttons
❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

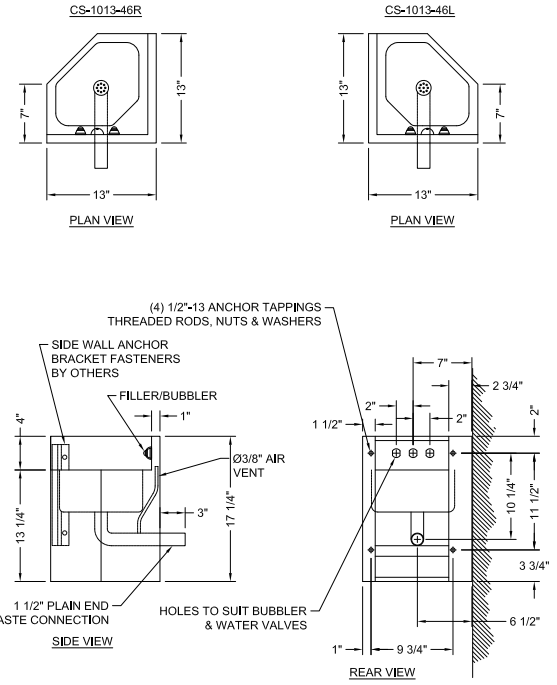
6.) Electronic Controls* (Must Use Electronic Push Button):
❑ WUCC-3010 ❑ Pneutronic ❑ WMSII
(The WUCC-3010 Control can be used to pair a Lavatory with a Toilet)

7.) Lavatory Waste:
❑ EB Elbow Waste (Standard)
❑ PT Integral 'P'-Trap
❑ LWE Lavatory Waste Extension
❑ OV Lavatory Overflow
❑ SLOW Slow Drain
❑ LW1 Thru-Wall Extension, 'P'-Trap
❑ LW2 Thru-Wall Extension and Clean-Out
❑ LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube
❑ LWC2 Coupling, 1-1/2" Tube to 1-1/2" PVC/Cast Iron

8.) Options:
❑ MT Wall Template
❑ TB1 Single Toothbrush Holder
❑ Right ❑ Left
❑ TB2 Dual Toothbrush Holder
❑ Right ❑ Left
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ TH1 Single Towel Hook
❑ Right ❑ Left
❑ TH2 Dual Towel Hook
❑ Right ❑ Left
❑ WS Wall Sleeve (Requires Accessible Chase)
❑ VG Ventilation Grille (Specify Location and Free Area)
❑ Other: _____
❑ Other: _____
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN
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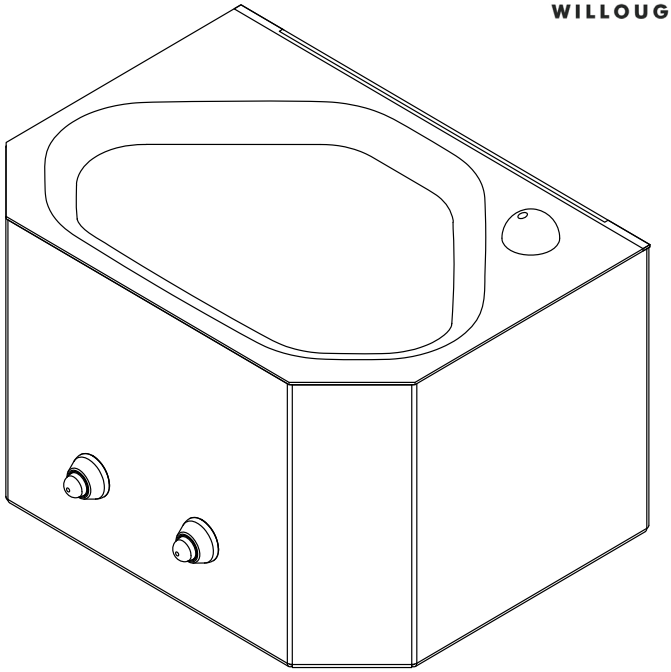


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CHS-1013-46
China Alternative Lavatory



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify a China Alternative Lavatory with ligature-resistant deck mounted bubbler, dual temp. pneumatic metering valve, ligature-resistant pneumatic push buttons, elbow waste, and single towel hook

Use the following Willoughby Model Number:
CHS-1013-46-DMBH-PML2-PBH-TH1

Recommended Specifications

China Alternative Lavatory shall be:
Willoughby Model No. **CHS-1013-46**
(Select from model number and options list on next page)

Fixture shall be fabricated from 16 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces having a bead blast finish. Lavatory underside shall be exposed with non-polished finish.

Standard lavatory shall include:
- Multi-sided bowl, 12-3/4" x 8-1/4" x 5" deep
- Stainless steel deck mounted bubbler
- Fast drain with air vent
- Integral elbow waste w/ 6-1/2" lav. waste extension and Ø1-1/2" no-hub waste connection
- 0.5 GPM flow rate

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers. Unit is wall hung and shall require chase area for installation and maintenance.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
❑ CHS-1013-46 China Alternative Lavatory

2.) Bubbler Selection:
❑ DMBH Ligature-resistant Deck Mounted Bubbler (Standard)

3.) Lavatory Valve Selection:
❑ NV No Valve
❑ PSL1 Single Temp. Pneumatic Non-metering
❑ PSL2 Dual Temp. Pneumatic Non-metering
❑ PML1 Single Temp. Pneumatic Metering
❑ PML2 Dual Temp. Pneumatic Metering
❑ E1L1 Single Temp. Electronic (pick control)*
❑ E1L2 Dual Temp. Electronic (pick control)*

Valve Manifold Options:
Pneumatic or Electronic Only:
❑ MA2 ❑ MA3 ❑ MA4

4.) Lavatory Valve Actuation:
❑ PBH Ligature-resistant Pneumatic Push Buttons
❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

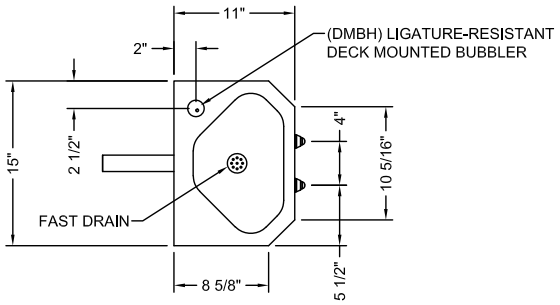
5.) Electronic Controls* (Must Use Electronic Push Button):
❑ WUCC-3010 ❑ Pneutronic ❑ WMSII
(The WUCC-3010 Control can be used to pair a Lavatory with a Toilet)

6.) Lavatory Waste:
❑ EB Integral Elbow Waste w/ 6-1/2" Lav. Waste Extension and 1-1/2" No-hub Waste Connection (Standard)
❑ PT Integral 'P'-Trap
❑ OV Lavatory Overflow
❑ SLOW Slow Drain
❑ LW1 Thru-Wall Extension, 'P'-Trap
❑ LW2 Thru-Wall Extension and Clean-Out
❑ LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube
❑ LWC2 Coupling, 1-1/2" Tube to 1-1/2" PVC/Cast Iron

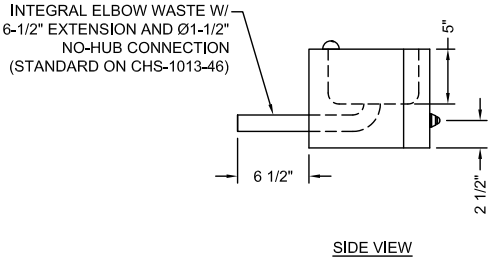
7.) Options:
❑ MT Wall Template
❑ TB1 Single Toothbrush Holder
❑ Right ❑ Left
❑ TB2 Dual Toothbrush Holder
❑ Right ❑ Left
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ TH1 Single Towel Hook
❑ Right ❑ Left
❑ TH2 Dual Towel Hook
❑ Right ❑ Left
❑ WS Wall Sleeve (Requires Accessible Chase)
❑ ISH Integral Shelf
❑ Other: _____
❑ Other: _____
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

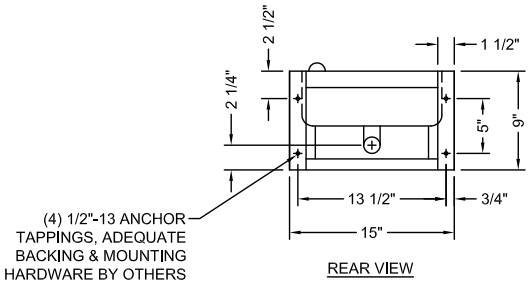
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PLAN VIEW



SIDE VIEW



REAR VIEW

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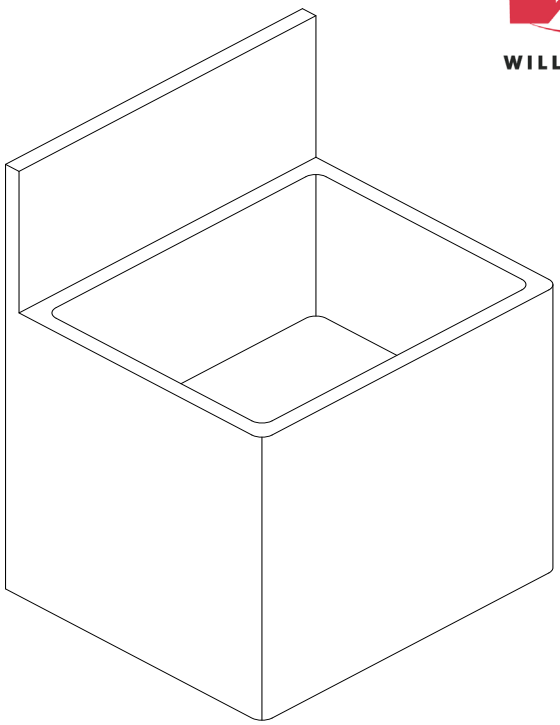
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Willoughby Industries - *Security Products*

WILLOUGHBY

SS Series
Rear Mounted
Service Sink



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify a 22" x 19" Rear Mounted Service Sink with no valves and standard elbow waste

Use the following Willoughby Model Number:
SS-2219-NV-EB

Recommended Specifications

Service Sink shall be:
Willoughby Model No. **SS**
(Select from model number and options list on next page)

Entire fixture, including bracing and internal plumbing, shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Rectangular shaped, 10" deep sink bowl
- Fast drain with air vent
- Elbow waste (2" F.I.P.)
- 0.5 GPM flow rate

Anchoring shall be by 6 or 8 point system: threaded rods, nuts and washers furnished for walls up to 8" thick. Unit requires chase area for installation and maintenance.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ SS-2219 22" x 19" Service Sink
- ❑ SS-2419 24" x 19" Service Sink

2.) Fixture Mounting & Waste:
- ❑ OF Off-Floor, Wall Outlet
- ❑ FM On-Floor, Wall Outlet

3.) Spout Selection:
- ❑ SE Spout with Plain End
- ❑ SHVB Spout with Hose End With Vacuum Breaker

4.) Lavatory Valve Selection:
- ❑ NV No Valve (Select Hole Punching if needed)
- ❑ PSL1 Single Temp. Pneumatic Non-metering
- ❑ PSL2 Dual Temp. Pneumatic Non-metering
- ❑ PML1 Single Temp. Pneumatic Metering
- ❑ PML2 Dual Temp. Pneumatic Metering
- ❑ E1L1 Single Temp. Electronic (pick control)*
- ❑ E1L2 Dual Temp. Electronic (pick control)*

Valve Manifold Options:

Pneumatic or Electronic Only:

❑ MA2 ❑ MA3 ❑ MA4

5.) Lavatory Valve Actuation:
- ❑ PBH Ligature-resistant Pneumatic Push Buttons
- ❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

6.) Electronic Controls* (Must Use Electronic Push Button):

❑ WUCC-3010 ❑ Pneutronic ❑ WMSII

(The WUCC-3010 Control can be used to pair a Sink with a Toilet)

7.) Hole Punching:
- ❑ 4CC 4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
- ❑ 8CC 8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
- ❑ 1CC Center Shank, (1) Ø1-1/4" Hole
- ❑ SP Special Punching (Specify hole punching dim.)

SP: _____

8.) Lavatory Waste:
- ❑ EB Elbow Waste (Standard)
- ❑ PT Integral 'P'-Trap
- ❑ LWE Lavatory Waste Extension

9.) Options:
- ❑ MT Wall Template
- ❑ WS Wall Sleeve (Requires Accessible Chase)
- ❑ SD Surface Mounted Soap Dish
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ VG Ventilation Grille (Specify Location and Free Area)
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TG 12 Gauge Cabinet
- ❑ Other: _____
- ❑ Other: _____

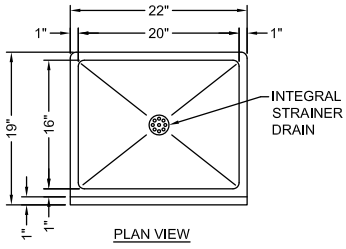
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

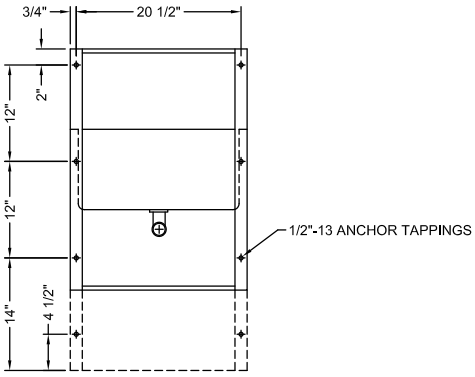
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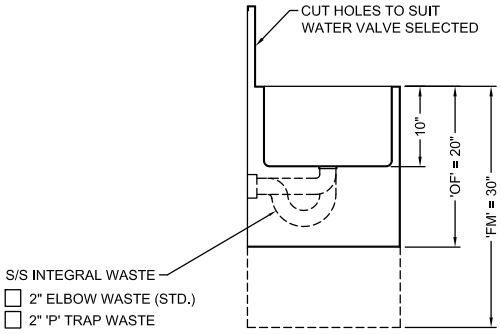


PLAN VIEW





BACK VIEW



SIDE VIEW

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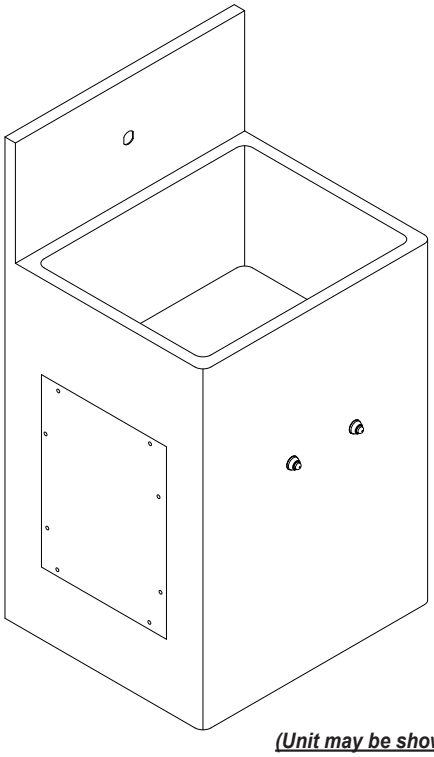
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Willoughby Industries - *Security Products*

SS-FA Series
Front Access
Service Sink



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify a Front Access Service Sink, 22" x 20" with plain end spout, dual temp. pneumatic metering valve ligature-resistant pneumatic push buttons, and removable 'p'-trap

Use the following Willoughby Model Number:
SS-2220-FM-FA-SE-PML2-PBH-RPT

Recommended Specifications

Front Access Service Sink shall be:
Willoughby Model No. **SS-FA**
(Select from model number and options list on next page)

Entire fixture, including bracing and internal plumbing, shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Rectangular shaped, 10" deep sink bowl
- Fast drain with air vent
- (1-1/2") slip joint, cast brass union 'p'-trap
- Removable access panels attached with security screws to provide access to fixture interior
- 0.5 GPM flow rate

Anchoring shall be from the front with 'z'-clip. Wall/floor anchoring holes provided. Anchoring hardware by others. Unit requires no chase area for installation and maintenance.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

- ❑ SS-2220-FM-FA — 22" x 20" Front Access Service Sink (Floor Mounted, Wall Outlet)
- ❑ SS-2420-FM-FA — 24" x 20" Front Access Service Sink (Floor Mounted, Wall Outlet)

2.) Spout Selection:

- ❑ SE Spout with Plain End
- ❑ SHVB Spout with Hose End With Vacuum Breaker

3.) Lavatory Valve Selection:

- ❑ NV No Valve (Select Hole Punching if needed)
- ❑ PSL1 Single Temp. Pneumatic Non-metering
- ❑ PSL2 Dual Temp. Pneumatic Non-metering
- ❑ PML1 Single Temp. Pneumatic Metering
- ❑ PML2 Dual Temp. Pneumatic Metering
- ❑ E1L1 Single Temp. Electronic (pick control)*
- ❑ E1L2 Dual Temp. Electronic (pick control)*

4.) Lavatory Valve Actuation:

- ❑ PBH Ligature-resistant Pneumatic Push Buttons
- ❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

5.) Electronic Controls* (Must Use Electronic Push Button):

❑ WUCC-3010 ❑ Pneutronic ❑ WMSII

(The WUCC-3010 Control can be used to pair a Sink with a Toilet)

6.) Hole Punching:

- ❑ 4CC 4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
- ❑ 8CC 8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
- ❑ 1CC Center Shank, (1) Ø1-1/4" Hole
- ❑ SP Special Punching (Specify hole punching dim.)

SP: _____

7.) Lavatory Waste:

- ❑ RPT Removable 'P'-Trap (Standard)

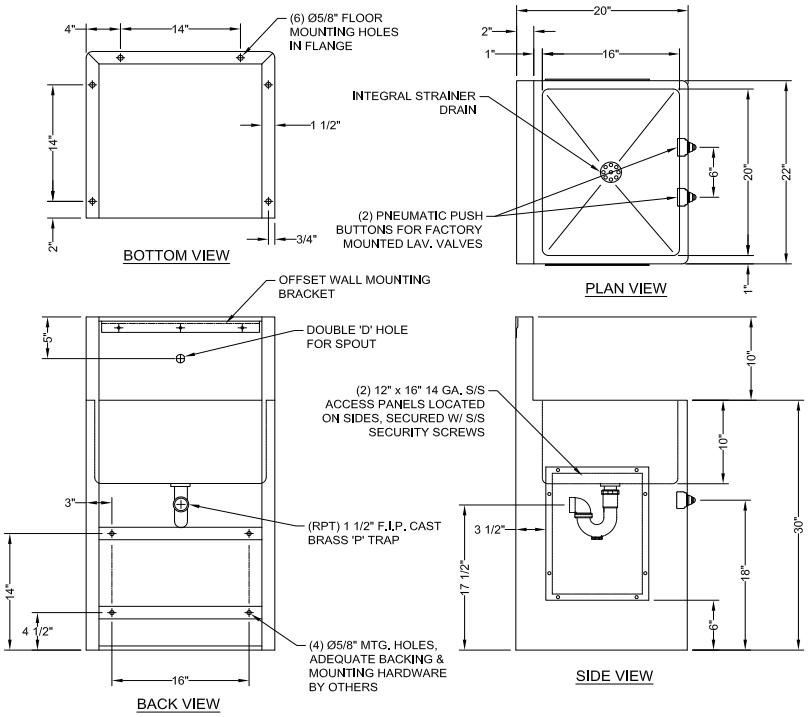
8.) Options:

- ❑ MT Wall Template
- ❑ SD Surface Mounted Soap Dish
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ VG Ventilation Grille (Specify Location and Free Area)
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TG 12 Gauge Cabinet
- ❑ Other: _____
- ❑ Other: _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____



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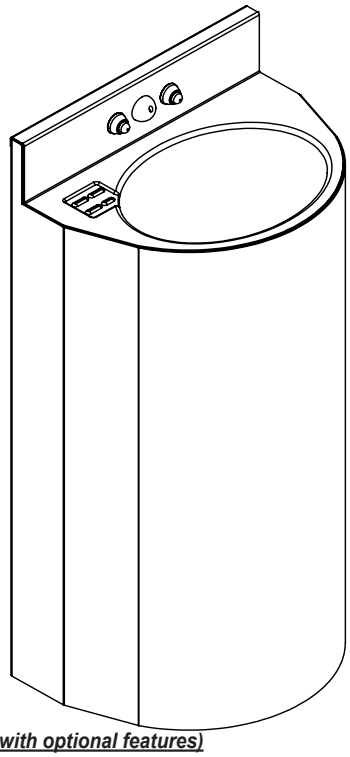
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Willoughby Industries - *Security Products*

ASHS-1013-06
18" Wide
Rear Mounted
Ligature-resistant
Lavatory



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an 18" Wide, Rear Mounted, Ligature-resistant Lavatory with ligature-resistant bubbler and dual temp. pneumatic metering valve, ligature-resistant pneumatic push buttons, and elbow waste

Use the following Willoughby Model Number:
ASHS-1013-06-BPH-PML2-PBH-EB

Recommended Specifications

18" Wide, Rear Mounted, Ligature-resistant Lavatory shall be:
Willoughby Model No. **ASHS-1013-06**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard lavatory shall include:
- Oval-shaped bowl,13" x 9-1/2" x 6" deep
- Stainless steel ligature-resistant bubbler/filler
- Slow drain with air vent
- Elbow waste (1-1/2" Plain End)
- Self-draining soap dish
- 0.5 GPM flow rate

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
❑ ASHS-1013-06 18" Wide, Rear Mounted, Ligature-resistant Lavatory

2.) Bubbler Selection:
❑ BPH Ligature-resistant Bubbler/Filler (Standard)
❑ FLH Ligature-resistant Lav. Filler

3.) Lavatory Valve Selection:
❑ NV No Valve
❑ PSL1 Single Temp. Pneumatic Non-metering
❑ PSL2 Dual Temp. Pneumatic Non-metering
❑ PML1 Single Temp. Pneumatic Metering
❑ PML2 Dual Temp. Pneumatic Metering
❑ E1L1 Single Temp. Electronic (pick control)*
❑ E1L2 Dual Temp. Electronic (pick control)*

Valve Manifold Options:
Pneumatic or Electronic Only:
❑ MA2 ❑ MA3 ❑ MA4

4.) Lavatory Valve Actuation:
❑ PBH Ligature-resistant Pneumatic Push Buttons
❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

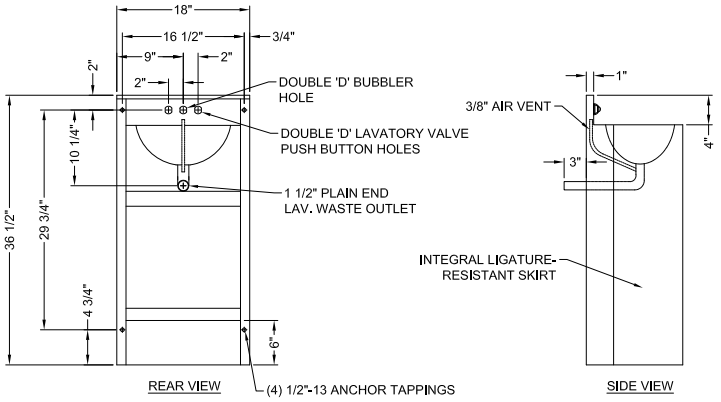
5.) Electronic Controls* (Must Use Electronic Push Button):
❑ WUCC-3010 ❑ Pneutronic ❑ WMSII
(The WUCC-3010 Control can be used to pair a Lavatory with a Toilet)

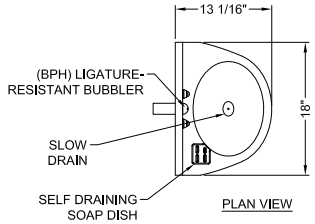
6.) Lavatory Waste:
❑ EB Elbow Waste (Standard)
❑ PT Integral 'P'-Trap
❑ LWE Lavatory Waste Extension
❑ OV Lavatory Overflow
❑ LW1 Thru-Wall Extension, 'P'-Trap
❑ LW2 Thru-Wall Extension and Clean-Out
❑ SLOW Slow Drain (Standard)
❑ LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube
❑ LWC2 Coupling, 1-1/2" Tube to 1-1/2" PVC/Cast Iron

7.) Options:
❑ MT Wall Template
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ TH1 Single Towel Hook
❑ Right ❑ Left
❑ TH2 Dual Towel Hook
❑ Right ❑ Left
❑ WS Wall Sleeve (Requires Accessible Chase)
❑ Other: _____
❑ Other: _____
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN
WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.



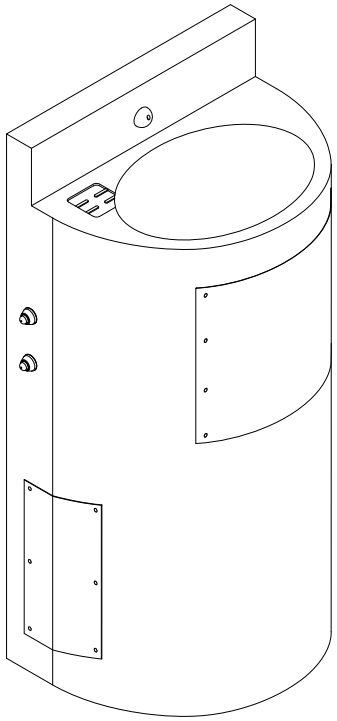


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ASHS-1013-06-FA
18" Wide
Front Access
Ligature-resistant
Lavatory



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify an 18" Wide, Front Access, Ligature-resistant Lavatory with ligature-resistant bubbler, dual temp. pneumatic metering valve, ligature-resistant pneumatic push buttons, and removable 'p'-trap

Use the following Willoughby Model Number:
ASHS-1013-06-FA-BPH-PML2-PBH-RPT

Recommended Specifications

18" Wide, Front Access, Ligature-resistant Lavatory shall be:
Willoughby Model No. **ASHS-1013-06-FA**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard lavatory shall include:
- Oval-shaped bowl, 13" x 9-1/2" x 6" deep
- Stainless steel ligature-resistant bubbler/filler
- Slow drain with air vent
- (1-1/2") slip joint, cast brass union 'p'-trap
- (3) removable cabinet mounted panels attached with vandal resistant screws
-Self-draining soap dish
- 0.5 GPM flow rate

Anchoring shall be from the front with anchoring holes provided. Anchoring hardware by others. Unit requires no chase area for installation and maintenance.

WARNING: Cancer and Reproductive Harm
- www.P65Warnings.ca.gov

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
❑ ASHS-1013-06-FA 18" Wide, Front Access, Ligature-resistant Lavatory

2.) Bubbler Selection:
❑ BPH Ligature-resistant Bubbler/Filler (Standard)
❑ FLH Ligature-resistant Lav. Filler

3.) Lavatory Valve Selection:
❑ NV No Valve
❑ PSL1 Single Temp. Pneumatic Non-metering
❑ PSL2 Dual Temp. Pneumatic Non-metering
❑ PML1 Single Temp. Pneumatic Metering
❑ PML2 Dual Temp. Pneumatic Metering
❑ E1L1 Single Temp. Electronic (pick control)*
❑ E1L2 Dual Temp. Electronic (pick control)*

4.) Lavatory Valve Actuation:
❑ PBH Ligature-resistant Pneumatic Push Buttons
❑ PZPB Ligature-resistant Piezo Electronic Push Buttons

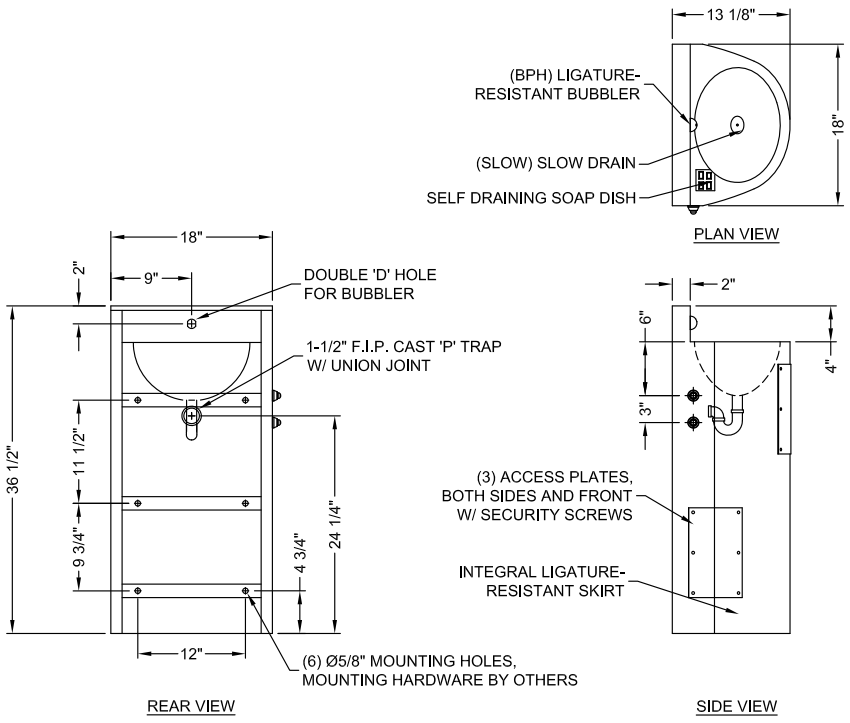
5.) Electronic Controls* (Must Use Electronic Push Button):
❑ WUCC-3010 ❑ Pneutronic ❑ WMSII
(The WUCC-3010 Control can be used to pair a Lavatory with a Toilet)

6.) Lavatory Waste:
❑ RPT Removable 'P'-Trap (Standard)
❑ OV Lavatory Overflow
❑ SLOW Slow Drain (Standard)

7.) Options:
❑ MT Wall Template
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ TH1 Single Towel Hook
❑ Right ❑ Left
❑ TH2 Dual Towel Hook
❑ Right ❑ Left
❑ Other: _____
❑ Other: _____
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN
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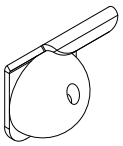


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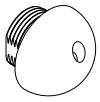
LAVATORY BUBBLER SELECTION



MACHINED
STAINLESS STEEL

"CODE TYPE" PENAL FILLER/BUBBLER INCLUDES A NON LIGATURE-RESISTANT MOUTH GUARD. MUST SPECIFY WHERE MOUTH GUARDS ARE REQUIRED BY LOCALCODES.

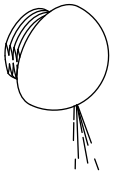
(BC) CODE BUBBLER/FILLER



MACHINED
STAINLESS STEEL

HEMISPHERICAL PENAL BUBBLER PROVIDES A FLOW OF WATER FOR DRINKING AND FILLING THE BASIN. DESIGN IS LIGATURE-RESISTANT.

(BPH) LIGATURE-RESISTANT BUBBLER/FILLER

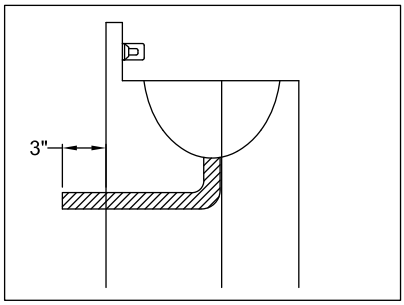


MACHINED
STAINLESS STEEL

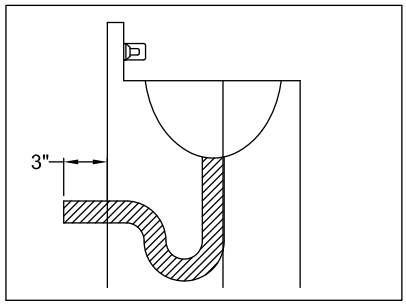
HEMISPHERICAL LAVATORY FILLER PROVIDES A FLOW OF WATER TO THE LAVATORY BASIN ONLY. DESIGN IS LIGATURE-RESISTANT.

(FLH) LIGATURE-RESISTANT LAV. FILLER

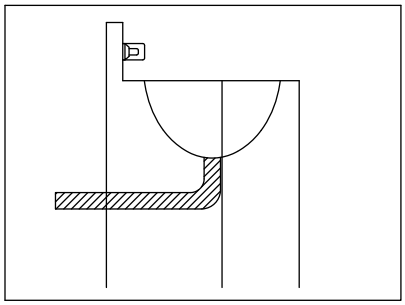
LAVATORY WASTE



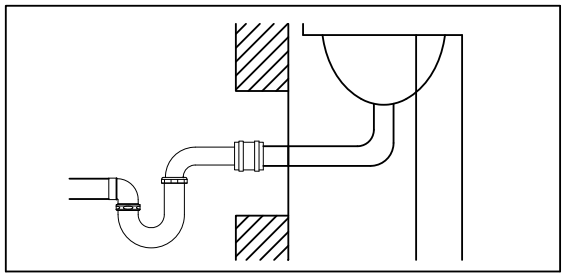
(EB)- ELBOW WASTE
(1-1/2" PLAIN END)



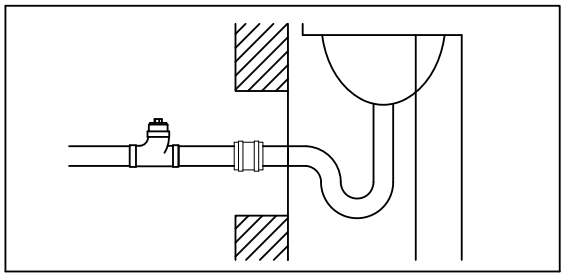
(PT)- INTEGRAL P-TRAP
(1-1/2" PLAIN END)



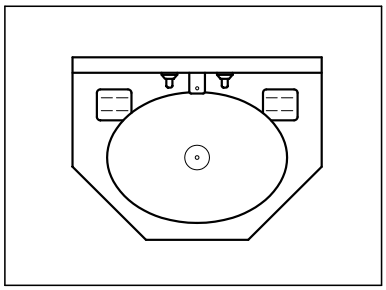
(LWE)- LAVATORY WASTE EXTENSION
GREATER THAN 3" (1-1/2" PLAIN END)



(LW1)- BRASS THRU-WALL EXTENSION P-TRAP
(FOR USE W/ (EB) ELBOW WASTE)



(LW2)- BRASS THRU-WALL EXTENSION P-TRAP
(FOR USE W/ (PT) INTEGRAL 'P'-TRAP)



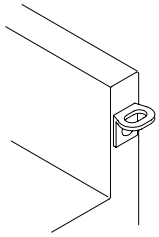
(SLOW) SLOW DRAIN
SINGLE DRAIN HOLE

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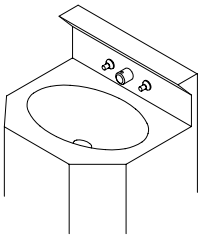
OTHER OPTIONS



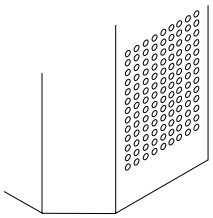
CONSTRUCTED FROM TYPE 304 STAINLESS STEEL.

TOOTHBRUSH HOLDER(S) CAN BE MOUNTED TO EITHER SIDE OR BOTH SIDES OF THE FIXTURE BACKSPLASH. THE TOOTHBRUSH HOLDER IS FASTENED TO THE FIXTURE CABINET.

(TB1__) SINGLE TOOTHBRUSH HOLDER
(TB2__) DUAL TOOTHBRUSH HOLDER
(SPECIFY (R) RIGHT OR (L) LEFT)

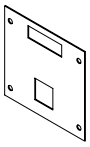


(ISH) INTEGRAL SHELF



A SERIES OF 1/4" HOLES PUNCHED ON 1/2" CENTERS PROVIDES AN ECONOMICAL MEANS OF PROVIDING A RETURN AIR SOURCE THROUGH THE FIXTURE AND WALL OPENING. (DUCTWORK AND DUCT FLANGES BY OTHERS). SPECIFY LOCATION AND FREE AREA REQUIREMENTS.

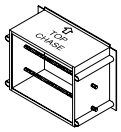
(VG) VENTILATION GRILLE
(SPECIFY LOCATION AND FREE AREA)



CONSTRUCTED OF 18 GAUGE GALVANIZED STEEL.

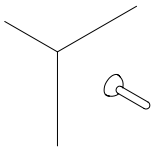
METAL WALL TEMPLATES PROVIDE FOR FIXTURE ROUGH-IN CUT-OUTS IN A STEEL WALL. THE TEMPLATE HAS INTEGRAL LAYOUT PATTERNS FOR CUTTING OR DRILLING WALL OPENINGS.

(MT) WALL TEMPLATE



CONSTRUCTED OF 20 GAUGE GALVANIZED STEEL.
WALL SLEEVES PROVIDE FOR FIXTURE PLUMBING ROUGH-IN OPENINGS IN BLOCK AND POURED CONCRETE WALLS. THE SLEEVE BECOMES A PERMANENT PART OF THE WALL AND HAS 1/2" DIAMETER STEEL ROD(S) WELDED TO THE FRAME. THE STEEL RODS PROVIDE RIGIDITY AND HELP TO HINDER ESCAPE INTO THE CHASE SHOULD THE FIXTURE BE REMOVED. (SLEEVE BRACING BY OTHERS DURING WALL CONSTRUCTION REQUIRED) (MUST SPECIFY WALL THICKNESS AND TYPE)

(WS) WALL SLEEVE



CONSTRUCTED FROM TYPE 304 STAINLESS STEEL.

THIS PRESSURE ACTIVATED RELEASE TOWEL HOOK WILL SUPPORT LIGHT CLOTHING & TOWEL LOADS, HOWEVER, EXCESSIVE LOADS PLACED ON THE HOOK WILL CAUSE IT TO RELEASE DOWNWARD.

(TH1__) SINGLE TOWEL HOOK
(TH2__) DUAL TOWEL HOOK
(SPECIFY (R) RIGHT OR (L) LEFT)

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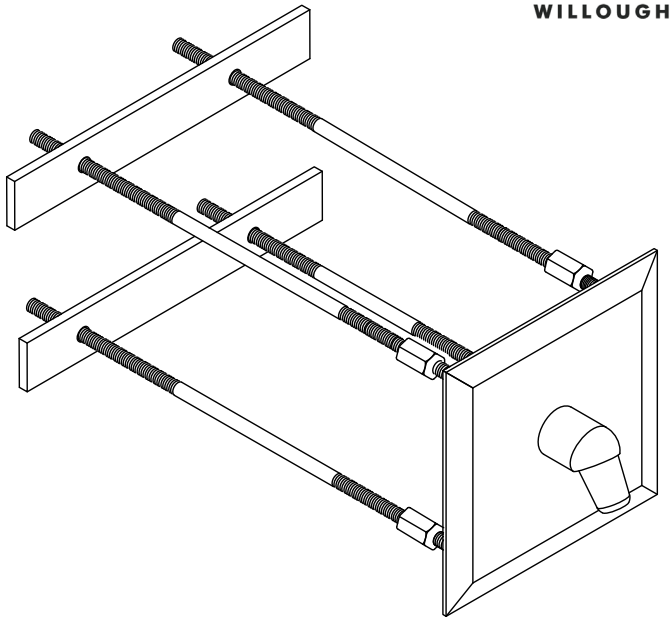
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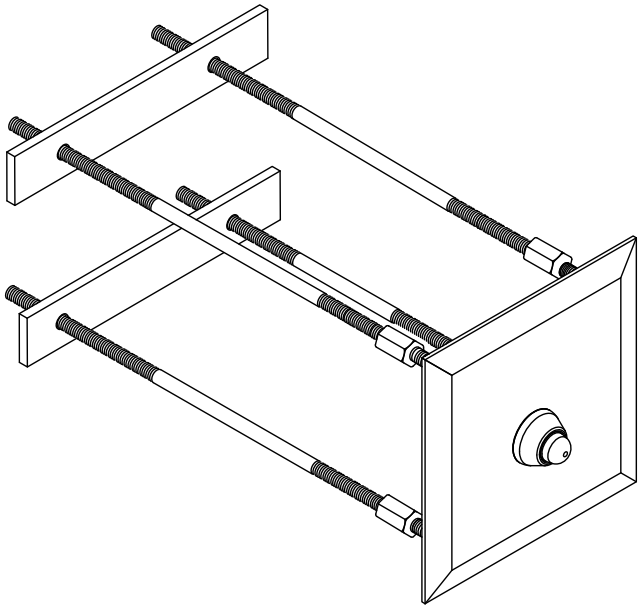
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Willoughby Industries - *Security Products*

WILLOUGHBY

WBIS Series
Rear Mounted
Built-In Shower





(Unit may be shown with optional features)

Recommended Specifications

Rear Mounted Built-In Shower shall be:
Willoughby Model No. **WBIS**
(Select from model number and options list on next page)

Shower head and valve push button face plates shall be fabricated from 14 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Shower valve (Select from Valve Selection options list)
- (NPS) non-adjustable penal shower head

Anchoring of each component shall be by standard 4-point system: 1/4" threaded rods, nuts and backing bars furnished for walls up to 8" thick. Unit requires chase area for installation and maintenance.

Handicap Accessible:
The WBIS can be installed to conform to most ADA requirements.
(Compliance shall be subject to the requirements of the local code authority based on installation-specific details and is the responsibility of the installer.)

WaterSense Labeled for LRSH shower head.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Rear Mounted Built-In Shower with single temp. pneumatic metering valve, standard ligature-resistant pneumatic push button, 2.5 GPM flow rate, standard (NPS) shower head, in-line thermostatic mixing valve, and separate recessed mounted soap dish

Use the following Willoughby Model Number:
WBIS-PML1-PBH-2.5GPM-NPS-TMV-RSD1

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ WBIS Rear Mounted Built-In Shower

2.) Valve Selection:

❑ NV No Valve
❑ PML1 Single Temp. Pneumatic Metering Ⓢ Ⓤ
❑ PML2 Dual Temp. Pneumatic Metering Ⓢ Ⓤ
❑ E1L1 Single Temp. Electronic (Pick Control)* Ⓢ Ⓤ
❑ E1L2 Dual Temp. Electronic (Pick Control)* Ⓢ Ⓤ
❑ MA2 ***Valve Manifold Option*** *(Pneumatic or Electronic Valves Only):*
(See the Manifold Option Page at the end of Catalog Section S5 for further information)

3.) Push Button Selection:

Pneumatic or Electronic Valves Only:

❑ PBH Ligature-resistant Pneumatic Push Buttons Ⓢ Ⓤ
❑ PZPB Ligature-resistant Piezo Electronic Push Buttons* Ⓢ Ⓤ

4.) Flow Rates:

❑ 2.5 GPM (Standard) ❑ 2.0 GPM ❑ 1.5 GPM

5.) Electronic Controls* (Must Use Electronic Push Button):

❑ WUSC-2200 ❑ WUSC-2400 ❑ Pneutronic ❑ WMS II

6.) Shower Head Selection:

❑ NPS Non-adjustable Penal Shower Head (Standard) Ⓢ
❑ APS Adjustable Penal Shower Head
❑ CSH Ligature-resistant Shower Head Ⓢ Ⓤ
❑ LRSH Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate Ⓤ

7.) Options:

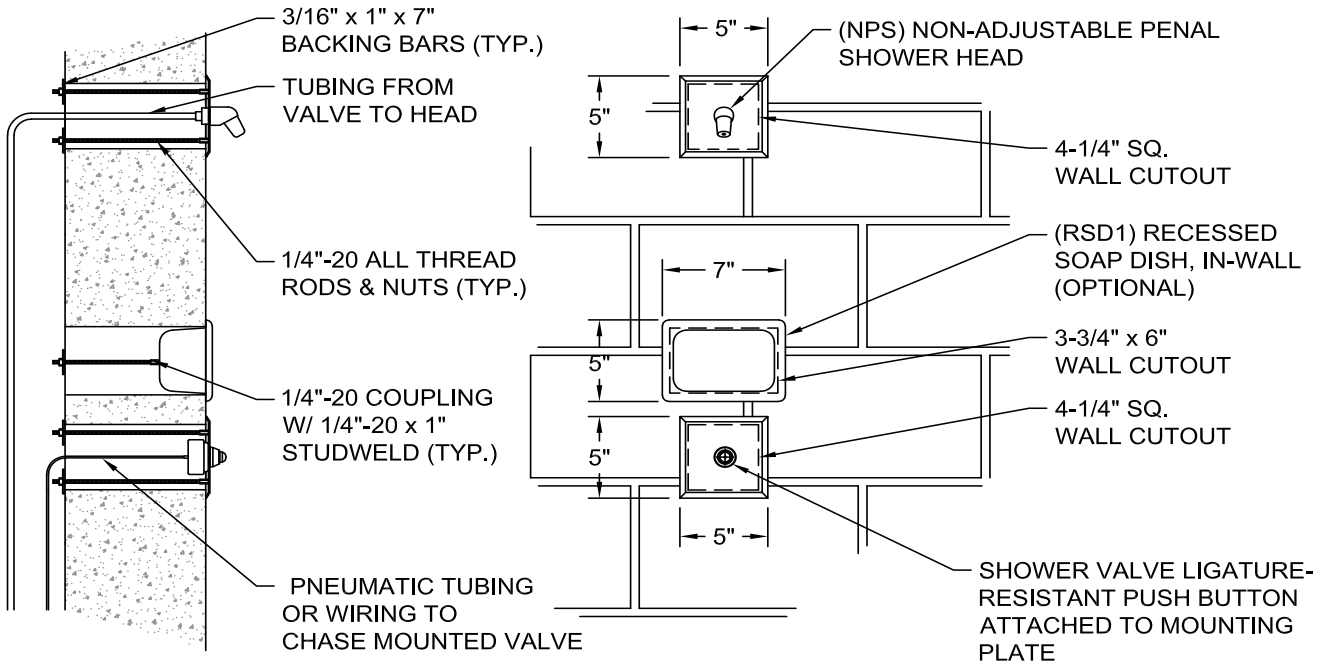
❑ TMV In-line Thermostatic Mixing Valve
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ SD Surface Mounted Soap Dish (Wall Mounted)
❑ RSD1 Recessed Soap Dish (In-Wall Mounted) Ⓢ Ⓤ
❑ Other _____
❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)
Ⓢ For security applications
Ⓤ Ligature-resistant option

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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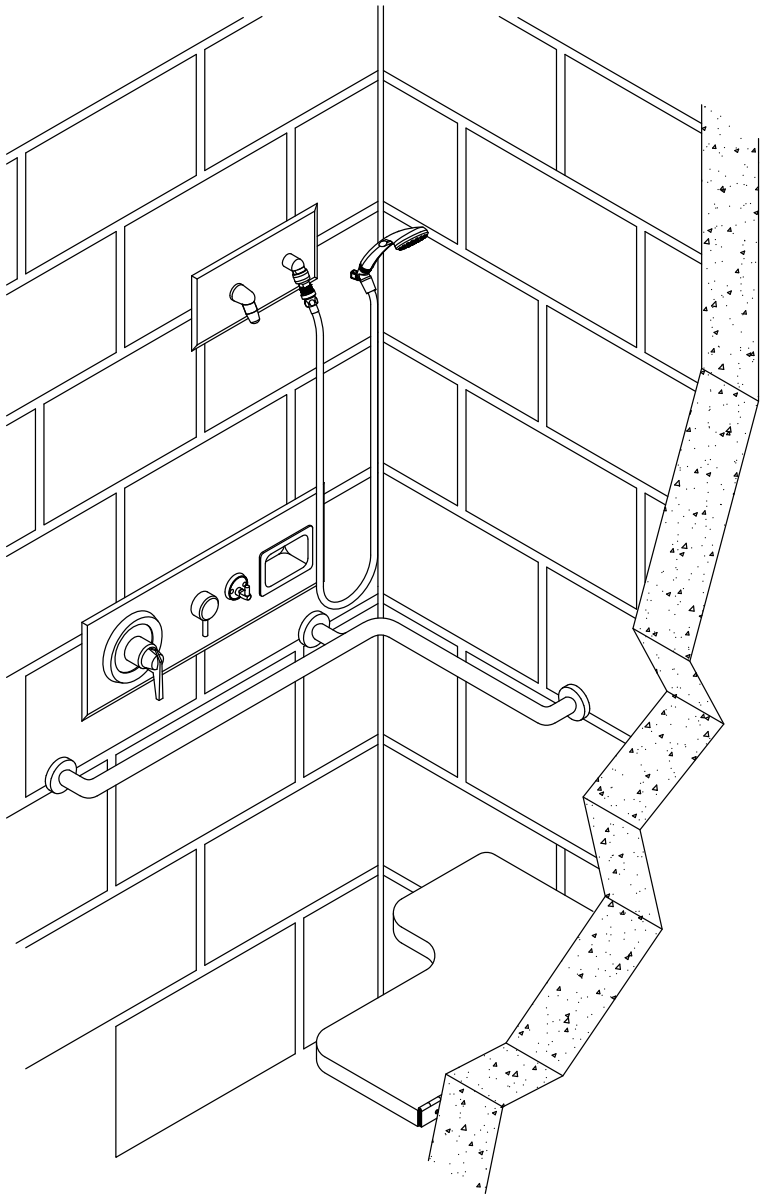


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WBIS-ADA Series ADA-Compliant Rear Mounted Built-In Shower



LEFT HAND CONTROL FIXTURE SHOWN
(Unit may be shown with optional features)

IN COMPLIANCE WITH A.D.A. 2010

Recommended Specifications

ADA-Compliant, Rear Mounted Built-In Shower shall be:
Willoughby Model No. **WBIS-ADA**
(Select from model number and options list on next page)

Shower head and valve push button face plates shall be fabricated from 14 gauge, Type 304 stainless steel with exposed surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)

Anchoring of each component shall be by standard 4-point system: 1/4" threaded rods, nuts and backing bars furnished for walls up to 8" thick. Unit requires chase area for installation and maintenance.

WaterSense Labeled for LRSH shower head.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an ADA-Compliant, Rear Mounted Built-In Shower with left hand controls, temp./pressure-balancing mixing valve, diverter valve, standard 2.5 GPM flow rate, APS adjustable vandal-resistant and FX Flexshower shower heads, S/S folding shower seat (right hand), two wall grab bar, and recessed soap dish

Use the following Willoughby Model Number:
WBIS-ADA-L-TPV-DV-2.5-APS-FX-FSSR-GB3318-RD

WARNING: Cancer and Reproductive Harm
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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ WBIS-ADA — ADA-Compliant, Rear Mounted Built-In Shower

2.) Panel Orientation (Must Specify):
- ❑ L — Left Hand Controls
- ❑ R — Right Hand Controls

3.) Valve Selection:
- ❑ NV — No Valve
- ❑ PML1 — Single Temp. Pneumatic Metering Ⓢ Ⓛ
- ❑ PML2 — Dual Temp. Pneumatic Metering Ⓢ Ⓛ
- ❑ E1L1 — Single Temp. Electronic (Pick Control)* Ⓢ Ⓛ
- ❑ E1L2 — Dual Temp. Electronic (Pick Control)* Ⓢ Ⓛ
- ❑ PBV — Pressure-Balancing Mixing Valve
- ❑ TPV — Temperature/Pressure-Balancing Mixing Valve
- ❑ TPLR — Ligature-resistant Temp/Pressure-balancing Mixing Valve Ⓛ
- ❑ SVCL — Single Temp. Compression Valve (w/ ADA lever handle)
- ❑ DVCL — Dual Temp. Compression Valves (w/ ADA lever handle)
- ❑ MA2 — ***Valve Manifold Option*** *(Pneumatic or Electronic Valves Only):* ***(See the Manifold Option Page at the end of Catalog Section S5 for further information)***

4.) Diverter Valve:
- ❑ DV — Diverter Valve
- ❑ DVLR — Ligature-resistant Diverter Valve Ⓛ
- ❑ PML1-MA2 — Two Single Temp. Pneumatic Metering Valves Ⓛ (Used to divert water flow to either upper, lower, or both shower heads; for use with Mixing Valve options above)

5.) Push Button Selection:
Pneumatic or Electronic Valves Only:
- ❑ PBH — Ligature-resistant Pneumatic Push Buttons Ⓢ Ⓛ
- ❑ PZPB — Ligature-resistant Piezo Electronic Push Buttons* Ⓢ Ⓛ

6.) Flow Rates:
❑ 2.5 GPM (Standard) ❑ 2.0 GPM ❑ 1.5 GPM

7.) Electronic Control* (Must Use Electronic Push Button):
❑ WUSC-2200 ❑ WUSC-2400 ❑ Pneutronic ❑ WMS II**

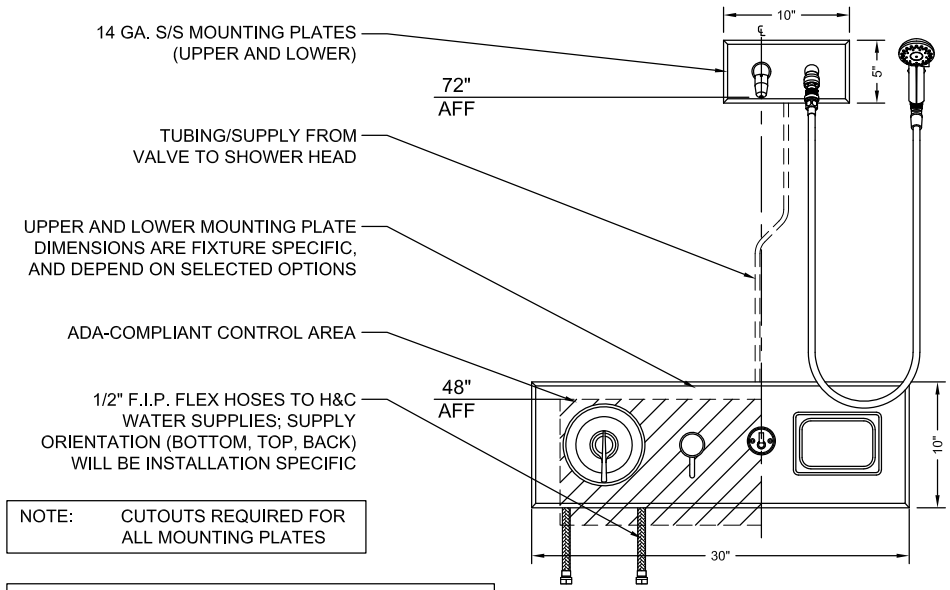
8.) Shower Head Selection:
- ❑ APS — Adjustable Vandal-resistant Shower Head
- ❑ NPS — Non-Adjustable Vandal-resistant Shower Head Ⓢ
- ❑ UBJ — Universal Ball Joint Shower Head
- ❑ LBJ — Lockable Ball Joint Shower Head
- ❑ CSH — Ligature-resistant Shower Head Ⓢ Ⓛ
- ❑ FX — Hand-held Flexshower Head (w/ quick disconnect, vacuum breaker, and (1) hook)
- ❑ LRSH — Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate Ⓛ
- ❑ 2HD — Dual Fixed Shower Heads Ⓢ

9.) Optional Shower Seat
- ❑ FSSL — Left Hand Stainless Steel Folding Shower Seat Ⓢ
- ❑ FSSR — Right Hand Stainless Steel Folding Shower Seat Ⓢ
- ❑ PFSSL — Left Hand Padded Stainless Steel Folding Shower Seat
- ❑ PFSSR — Right Hand Padded Stainless Steel Folding Shower Seat
- ❑ PHSSL — Left Hand Phenolic Folding Shower Seat
- ❑ PHSSR — Right Hand Phenolic Folding Shower Seat

10.) Other Options:
- ❑ TF24H — Hard-wired Transformer, 110VAC to 24VAC* (Standard)
- ❑ TF24P — Plug-in Transformer, 110VAC to 24VAC*
- ❑ TMV — Inline Thermostatic Mixing Valve
- ❑ HL — Hi-Lo (2 Hooks For Flexshower)
- ❑ SLB24 — 24" Adjustable Slide Bar (for Flexshower, Wall Mounted)
- ❑ SD — Surface Mounted Soap Dish
- ❑ RD — Recessed Mounted Soap Dish Ⓢ Ⓛ
- ❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)
**(Req. remote accessible area for mounting)
Ⓢ For security applications
Ⓛ Ligature-resistant option

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____



NOTE: CUTOUTS REQUIRED FOR ALL MOUNTING PLATES

NOTE: CERTAIN ACCESSORIES SUCH AS SOAP DISHES, GRAB BARS, AND FLEXSHOWER ACCESSORIES CAN BE WALL MOUNTED

WBIS-ADA W/ (TPV) MIXING VALVE, (DV) DIVERTER VALVE, (APS) SHOWER HEAD, (FX) FLEXSHOWER, AND (RD) SOAP DISH

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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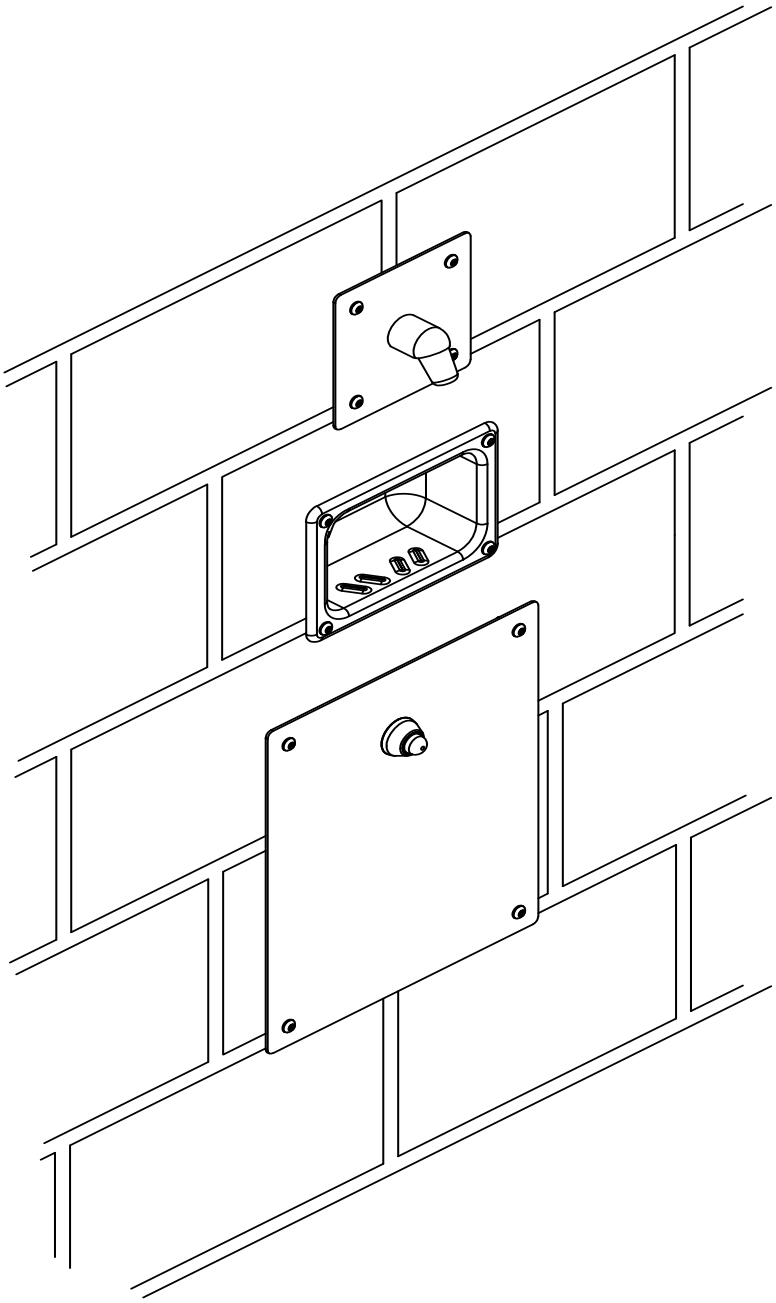
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Willoughby Industries - *Security Products*

WBIS-FA Series
Front Mounted
Built-In Shower



Recommended Specifications

Front Mounted Built-In Shower shall be:
Willoughby Model No. **WBIS-FA**
(Select from model number and options list on next page)

Shower head and valve push button face plates shall be fabricated from 14 gauge, Type 304 stainless steel with exposed surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Shower valve (from Valve Selection options list)
- (NPS) non-adjustable penal shower head

Anchoring of stainless steel panels shall be from the front. Wall anchors by others.

Handicap Accessible:
The WBIS-FA can be installed to conform to most ADA requirements.
(Compliance shall be subject to the requirements of the local code authority based on installation-specific details and is the responsibility of the installer.)

WaterSense Labeled for LRSH shower head.

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify a Front Mounted Built-In Shower with single temp. pneumatic metering valve, standard ligature-resistant pneumatic push button, standard 2.5 GPM flow rate, standard (NPS) shower head, and wall mounted recessed soap dish

Use the following Willoughby Model Number:
WBIS-FA-PML1-PBH-2.5GPM-NPS-RSD2

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
❑ WBIS-FA Front Mounted Built-in Shower

2.) Valve Selection:
❑ NV No Valve
❑ PML1 Single Temp. Pneumatic Metering Ⓢ Ⓛ
❑ PML2 Dual Temp. Pneumatic Metering Ⓢ Ⓛ
❑ E1L1 Single Temp. Electronic (Pick Control)* Ⓢ Ⓛ
❑ E1L2 Dual Temp. Electronic (Pick Control)* Ⓢ Ⓛ
❑ PBV Pressure-Balancing Mixing Valve
❑ TPV Temperature/Pressure-Balancing Mixing Valve
❑ TPLR Ligature-resistant Temp/Pressure-balancing Mixing Valve Ⓛ
❑ SVC Single Temp. Compression Valve
❑ DVC Dual Temp. Compression Valves
❑ MA2 ***Valve Manifold Option*** *(Pneumatic or Electronic Valves Only):*
(See the Manifold Option Page at the end of Catalog Section S5 for further information)

3.) Push Button Selection:
Pneumatic or Electronic Valves Only:
❑ PBH Ligature-resistant Pneumatic Push Buttons Ⓢ Ⓛ
❑ PZPB Ligature-resistant Piezo Electronic Push Buttons* Ⓢ Ⓛ

4.) Flow Rates:
❑ 2.5 GPM (Standard) ❑ 2.0 GPM ❑ 1.5 GPM

5.) Electronic Control* (Must Use Electronic Push Button):
❑ WUSC-2200 ❑ WUSC-2400 ❑ Pneutronic ❑ WMS II**

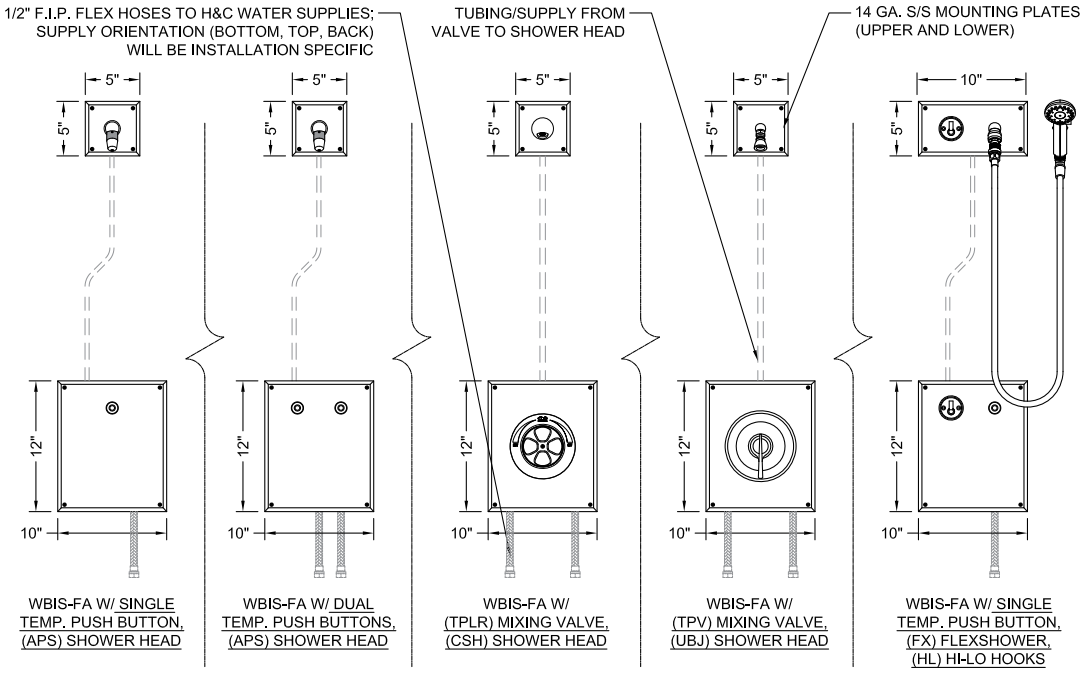
6.) Shower Head Selection:
❑ APS Adjustable Vandal-resistant Shower Head
❑ NPS Non-Adjustable Vandal-resistant Shower Head (Standard) Ⓢ
❑ UBJ Universal Ball Joint Shower Head
❑ LBJ Lockable Ball Joint Shower Head
❑ CSH Ligature-resistant Shower Head Ⓢ Ⓛ
❑ FX Hand-held Flexshower Head (w/ quick disconnect, vacuum breaker, and (1) hook)
❑ LRSH Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate Ⓛ

7.) Other Options:
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ TMV Inline Thermostatic Mixing Valve
❑ SD Surface Mounted Soap Dish (Wall Mounted)
❑ RSD2 Recessed Soap Dish (In-Wall Mounted) Ⓢ Ⓛ
❑ HL Hi-Lo (2 Hooks For Flexshower, Wall Mounted)
❑ SLB24 24" Adjustable Slide Bar (for Flexshower, Wall Mounted)
❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)
**(Req. remote accessible area for mounting)
Ⓢ For security applications
Ⓛ Ligature-resistant option

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

WBIS-FA - POSSIBLE FIXTURE CONFIGURATIONS:



NOTE: CERTAIN ACCESSORIES SUCH AS SOAP DISHES, GRAB BARS, AND FLEXSHOWER ACCESSORIES WILL BE WALL MOUNTED

NOTE: CUTOUTS REQUIRED FOR ALL MOUNTING PLATES

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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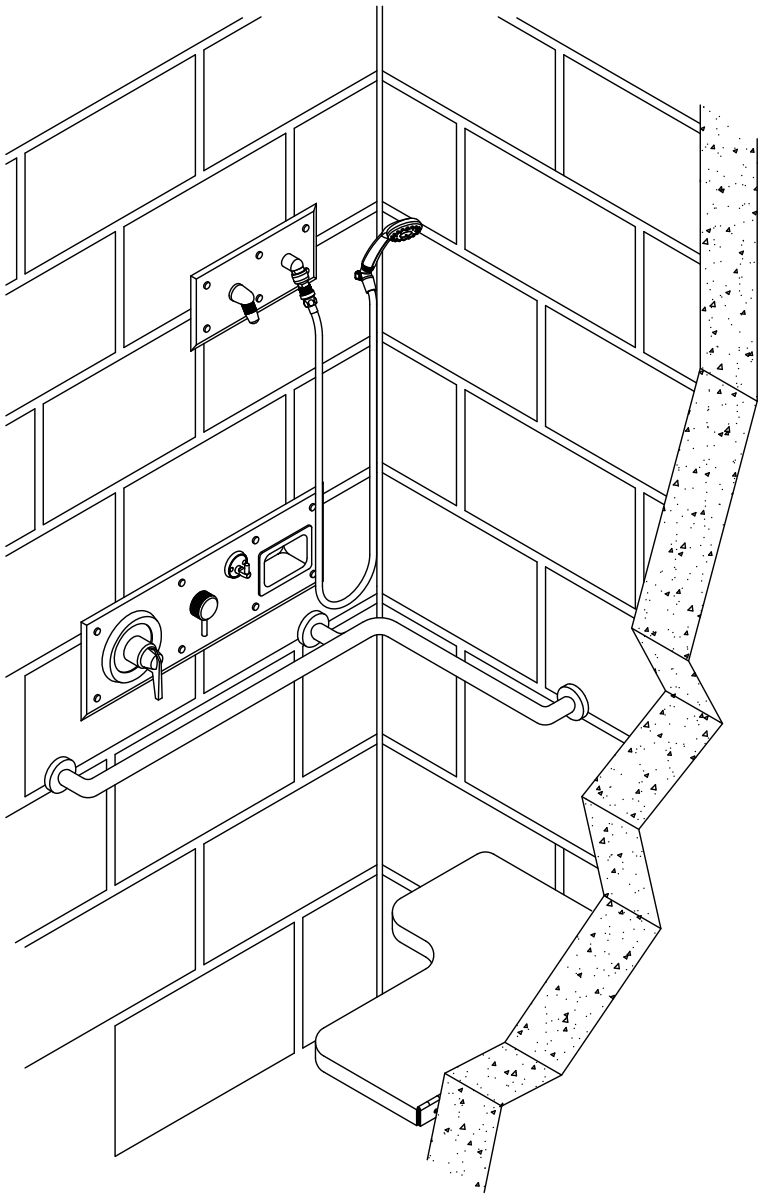
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Willoughby Industries - *Security Products*

WBIS-FA-ADA Series
ADA-Compliant
Front Mounted
Built-In Shower



LEFT HAND CONTROL FIXTURE SHOWN
(Unit may be shown with optional features)

IN COMPLIANCE
WITH A.D.A. 2010

Recommended Specifications

ADA-Compliant, Front Mounted Built-In Shower shall be:
Willoughby Model No. **WBIS-FA-ADA**
(Select from model number and options list on next page)

Shower head and valve push button face plates shall be fabricated from 14 gauge, Type 304 stainless steel with exposed surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)

Anchoring of stainless steel panels shall be from the front. Wall anchors by others.

WaterSense Labeled for LRSH shower head.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an ADA-Compliant, Front Mounted Built-In Shower with left hand controls, temp./pressure-balancing mixing valve, diverter valve, standard 2.5 GPM flow rate, APS adjustable vandal-resistant and FX Flexshower shower heads, S/S folding shower seat (right hand), two wall grab bar, and recessed soap dish

Use the following Willoughby Model Number:
WBIS-FA-ADA-L-TPV-DV-2.5-APS-FX-FSSR-GB3318-RD

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ WBIS-FA-ADA — ADA-Compliant, Front Mounted Built-In Shower

2.) Panel Orientation (Must Specify):
- ❑ L — Left Hand Controls
- ❑ R — Right Hand Controls

3.) Valve Selection:
- ❑ NV — No Valve
- ❑ PML1 — Single Temp. Pneumatic Metering Ⓢ Ⓛ
- ❑ PML2 — Dual Temp. Pneumatic Metering Ⓢ Ⓛ
- ❑ E1L1 — Single Temp. Electronic (Pick Control)* Ⓢ Ⓛ
- ❑ E1L2 — Dual Temp. Electronic (Pick Control)* Ⓢ Ⓛ
- ❑ PBV — Pressure-Balancing Mixing Valve
- ❑ TPV — Temperature/Pressure-Balancing Mixing Valve
- ❑ TPLR — Ligature-resistant Temp/Pressure-balancing Mixing Valve Ⓛ
- ❑ SVCL — Single Temp. Compression Valve (w/ ADA lever handle)
- ❑ DVCL — Dual Temp. Compression Valves (w/ ADA lever handle)
- ❑ MA2 — ***Valve Manifold Option*** *(Pneumatic or Electronic Valves Only):* ***(See the Manifold Option Page at the end of Catalog Section S5 for further information)***

4.) Diverter Valve:
- ❑ DV — Diverter Valve
- ❑ DVLR — Ligature-resistant Diverter Valve Ⓛ
- ❑ PML1-MA2 — Two Single Temp. Pneumatic Metering Valves Ⓛ (Used to divert water flow to either upper, lower, or both shower heads; for use with Mixing Valve options above)

5.) Push Button Selection:
Pneumatic or Electronic Valves Only:
- ❑ PBH — Ligature-resistant Pneumatic Push Buttons Ⓢ Ⓛ
- ❑ PZPB — Ligature-resistant Piezo Electronic Push Buttons* Ⓢ Ⓛ

6.) Flow Rates:
❑ 2.5 GPM (Standard) ❑ 2.0 GPM ❑ 1.5 GPM

7.) Electronic Control* (Must Use Electronic Push Button):
❑ WUSC-2200 ❑ WUSC-2400 ❑ Pneutronic ❑ WMS II**

8.) Shower Head Selection:
- ❑ APS — Adjustable Vandal-resistant Shower Head
- ❑ NPS — Non-Adjustable Vandal-resistant Shower Head Ⓢ
- ❑ UBJ — Universal Ball Joint Shower Head
- ❑ LBJ — Lockable Ball Joint Shower Head
- ❑ CSH — Ligature-resistant Shower Head Ⓢ Ⓛ
- ❑ FX — Hand-held Flexshower Head (w/ quick disconnect, vacuum breaker, and (1) hook)
- ❑ LRSH — Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate Ⓛ
- ❑ 2HD — Dual Fixed Shower Heads Ⓢ

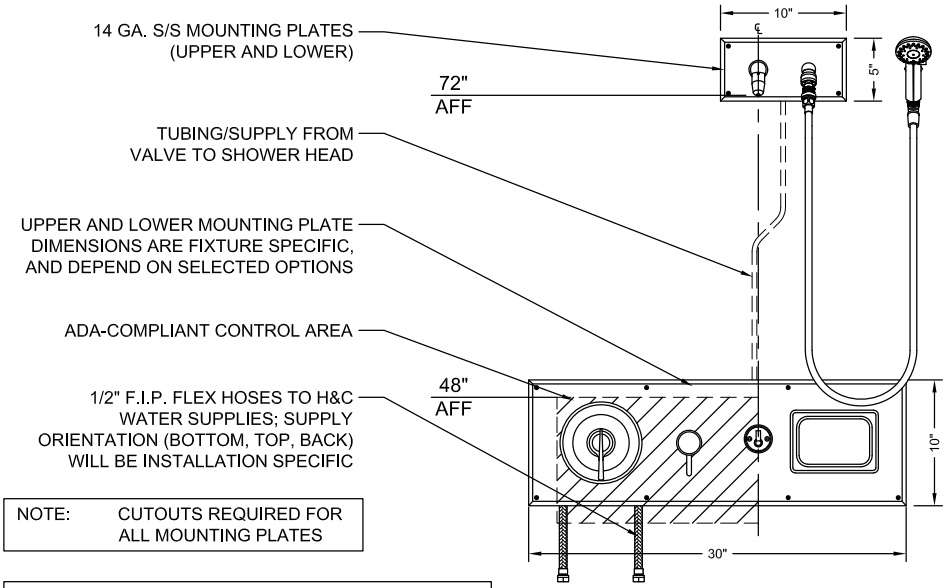
9.) Optional Shower Seat:
- ❑ FSSL — Left Hand Stainless Steel Folding Shower Seat Ⓢ
- ❑ FSSR — Right Hand Stainless Steel Folding Shower Seat Ⓢ
- ❑ PFSSL — Left Hand Padded Stainless Steel Folding Shower Seat
- ❑ PFSSR — Right Hand Padded Stainless Steel Folding Shower Seat
- ❑ PHSSL — Left Hand Phenolic Folding Shower Seat
- ❑ PHSSR — Right Hand Phenolic Folding Shower Seat

10.) Other Options:
- ❑ TF24H — Hard-wired Transformer, 110VAC to 24VAC* (Standard)
- ❑ TF24P — Plug-in Transformer, 110VAC to 24VAC*
- ❑ TMV — Inline Thermostatic Mixing Valve
- ❑ HL — Hi-Lo (2 Hooks For Flexshower)
- ❑ SLB24 — 24" Adjustable Slide Bar (for Flexshower, Wall Mounted)
- ❑ SD — Surface Mounted Soap Dish
- ❑ RD — Recessed Mounted Soap Dish Ⓢ Ⓛ
- ❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)
**(Req. remote accessible area for mounting)
Ⓢ For security applications
Ⓛ Ligature-resistant option

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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NOTE: CUTOUTS REQUIRED FOR ALL MOUNTING PLATES

NOTE: CERTAIN ACCESSORIES SUCH AS SOAP DISHES, GRAB BARS, AND FLEXSHOWER ACCESSORIES CAN BE WALL MOUNTED

WBIS-ADA-FA W/ (TPV) MIXING VALVE, (DV) DIVERTER VALVE, (APS) SHOWER HEAD, (FX) FLEXSHOWER, AND (RD) SOAP DISH

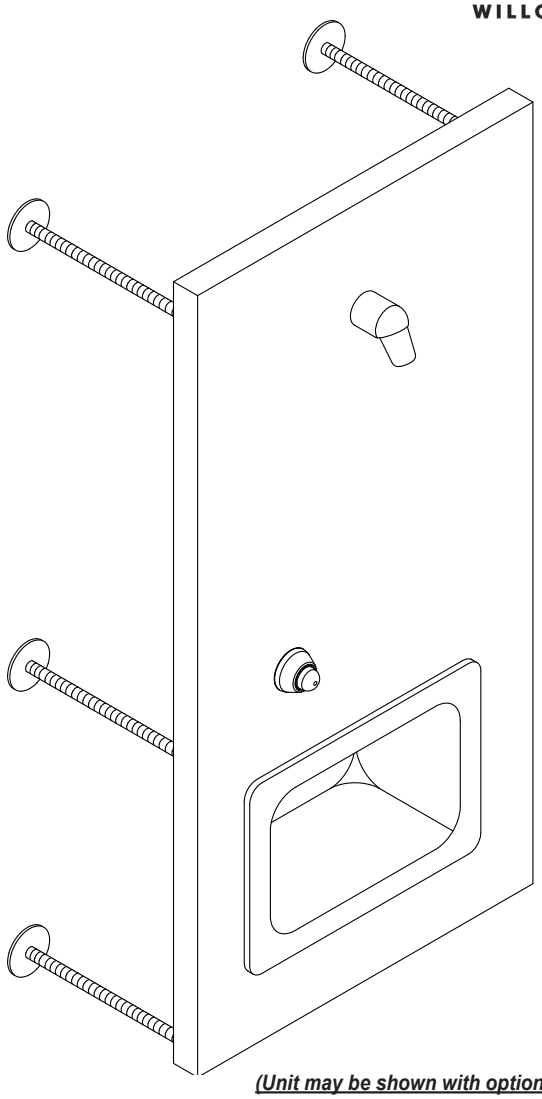
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Willoughby Industries - *Security Products*

WRS Series
Rear Mounted
Recessed Shower Panel



(Unit may be shown with optional features)

Recommended Specifications

Rear Mounted Recessed Shower Panel shall be:
Willoughby Model No. **WRS**
(Select from model number and options list on next page)

Shower panel shall be fabricated from 14 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Shower valve (Select from Valve Selection options list)
- (NPS) non-adjustable penal shower head

Anchoring shall be by standard 6-point system: 1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit requires chase area for installation and maintenance.

WaterSense Labeled for LRSH shower head.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Rear Mounted Recessed Shower Panel with single temp. pneumatic metering valve, standard ligature-resistant pneumatic push button, standard 2.5 GPM flow rate, standard (NPS) shower head, in-line thermostatic mixing valve, and recessed mounted soap dish

Use the following Willoughby Model Number:
WRS-PML1-PBH-2.5GPM-NPS-TMV-RD

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ WRS — Rear Mounted Recessed Shower Panel

2.) Valve Selection:
- ❑ NV — No Valve
- ❑ PML1 — Single Temp. Pneumatic Metering Ⓢ Ⓤ
- ❑ PML2 — Dual Temp. Pneumatic Metering Ⓢ Ⓤ
- ❑ E1L1 — Single Temp. Electronic (Pick Control)* Ⓢ Ⓤ
- ❑ E1L2 — Dual Temp. Electronic (Pick Control)* Ⓢ Ⓤ

Valve Manifold Option:
Pneumatic or Electronic Valves Only:
(See the Manifold Option Page at the end of Catalog Section S5 for further information)
- ❑ MA2

3.) Push Button Selection:
Pneumatic or Electronic Valves Only:
- ❑ PBH — Ligature-resistant Pneumatic Push Buttons Ⓢ Ⓤ
- ❑ PZPB — Ligature-resistant Piezo Electronic Push Buttons* Ⓢ Ⓤ

4.) Flow Rates:
- ❑ 2.5 GPM (Standard)
- ❑ 2.0 GPM
- ❑ 1.5 GPM

5.) Electronic Controls* (Must Use Electronic Push Button):
- ❑ WUSC-2200 ❑ WUSC-2400 ❑ Pneutronic ❑ WMS II

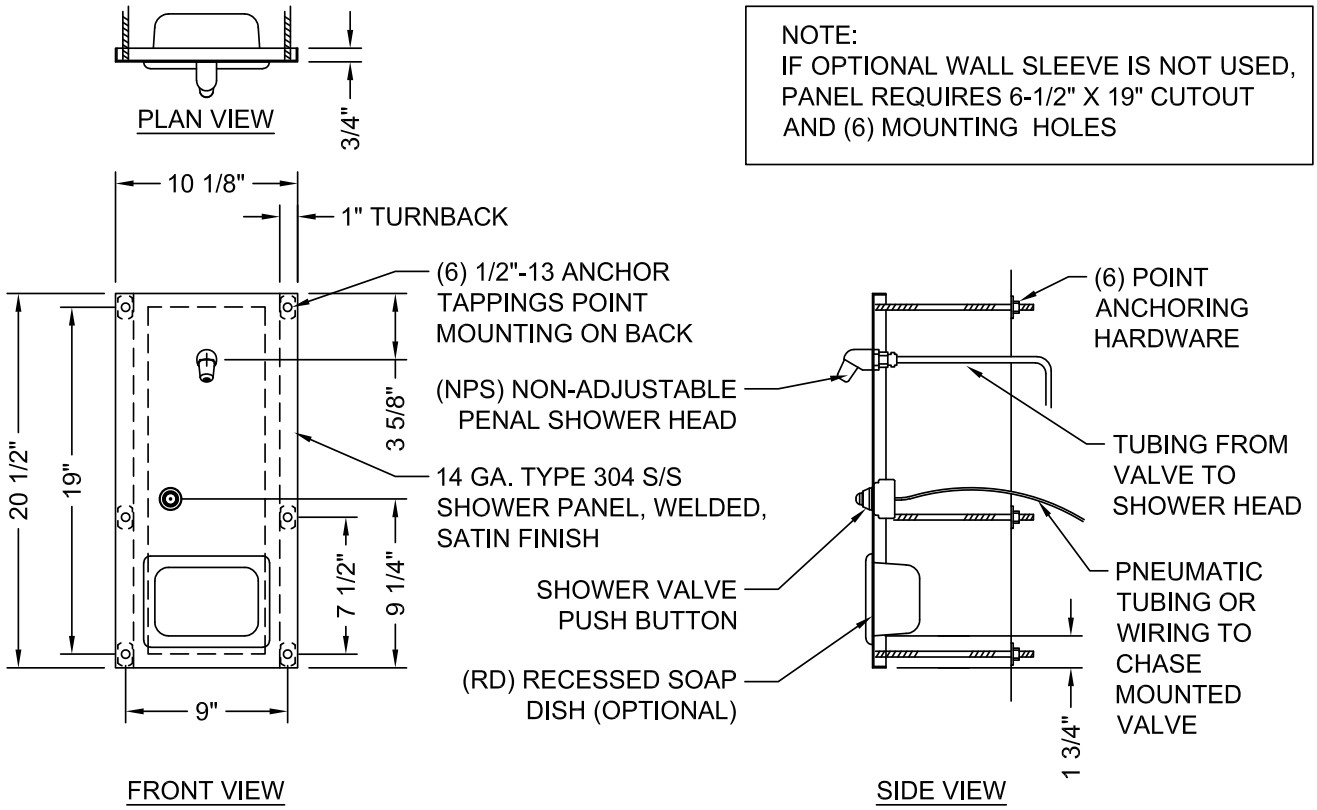
6.) Shower Head Selection:
- ❑ NPS — Non-adjustable Penal Shower Head (Standard) Ⓢ
- ❑ APS — Adjustable Penal Shower Head
- ❑ LRSH — Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate Ⓤ
- ❑ CSH — Ligature-resistant Shower Head Ⓢ Ⓤ

7.) Options:
- ❑ TMV — In-line Thermostatic Mixing Valve
- ❑ TF24H — Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P — Plug-in Transformer, 110VAC to 24VAC*
- ❑ RD — Recessed Mounted Soap Dish Ⓢ Ⓤ
- ❑ SD — Surface Mounted Soap Dish
- ❑ WS — Wall Sleeve (Requires Accessible Chase)
- ❑ MT — Wall Template
- ❑ Other _____
- ❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)
Ⓢ For security applications
Ⓤ Ligature-resistant option

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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NOTE:
IF OPTIONAL WALL SLEEVE IS NOT USED, PANEL REQUIRES 6-1/2" X 19" CUTOUT AND (6) MOUNTING HOLES

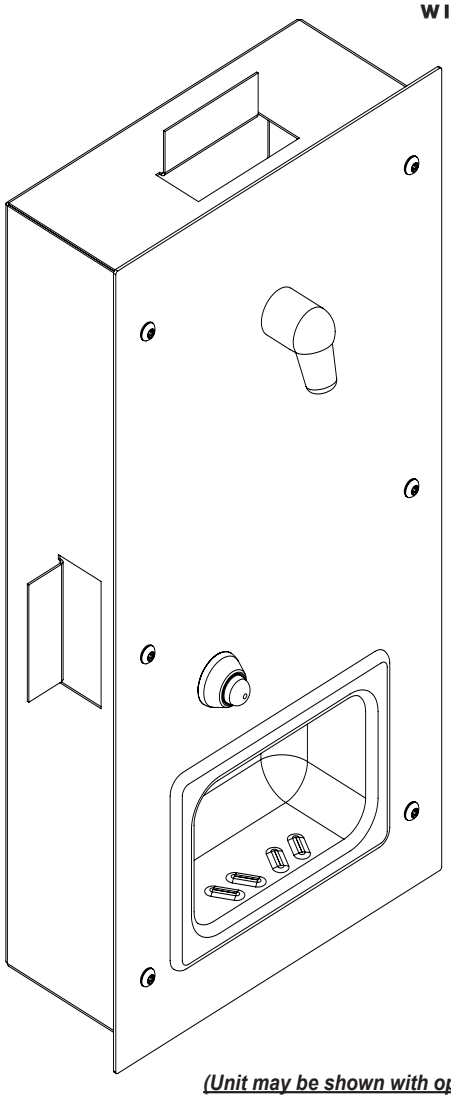
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Willoughby Industries - *Security Products*

WRS-FA Series
Front Mounted
Recessed Shower Panel



(Unit may be shown with optional features)

Recommended Specifications

Front Mounted Recessed Shower Panel shall be:
Willoughby Model No. **WRS-FA**
(Select from model number and options list on next page)

Shower panel shall be fabricated from 14 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Mounting frame shall be fabricated from 18 gauge galvanized steel.

Standard equipment shall include:
- Shower valve (Select from Valve Selection options list)
- (NPS) non-adjustable penal shower head
- In-wall mounting frame

Shower panel shall attach to mounting frame with vandal resistant stainless steel screws. Unit requires no chase area for installation and maintenance.

WaterSense Labeled for LRSH shower head.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Front Mounted Recessed Shower Panel with single temp. pneumatic metering valve, standard ligature-resistant pneumatic push button, standard 2.5 GPM flow rate, standard (NPS) shower head, in-line thermostatic mixing valve, and recessed mounted soap dish

Use the following Willoughby Model Number:
WRS-FA-PML1-PBH-2.5GPM-NPS-TMV-RD

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ WRS-FA Front Mounted Recessed Shower Panel

2.) Valve Selection:

❑ NV No Valve
❑ PML1 Single Temp. Pneumatic Metering Ⓢ Ⓤ
❑ PML2 Dual Temp. Pneumatic Metering Ⓢ Ⓤ
❑ E1L1 Single Temp. Electronic (Pick Control)* Ⓢ Ⓤ
❑ E1L2 Dual Temp. Electronic (Pick Control)* Ⓢ Ⓤ
❑ PBV Pressure-Balancing Mixing Valve
❑ TPV Temperature/Pressure-Balancing Mixing Valve
❑ TPLR Ligature-resistant Temp/Pressure-balancing Mixing Valve Ⓤ
❑ SVC Single Temp. Compression Valve
❑ DVC Dual Temp. Compression Valves

3.) Push Button Selection:

Pneumatic or Electronic Valves Only:

❑ PBH Ligature-resistant Pneumatic Push Buttons Ⓢ Ⓤ
❑ PZPB Ligature-resistant Piezo Electronic Push Buttons* Ⓢ Ⓤ

4.) Flow Rates:

❑ 2.5 GPM (Standard)
❑ 2.0 GPM
❑ 1.5 GPM

5.) Electronic Controls* (Must Use Electronic Push Button):

❑ WUSC-2200 ❑ WUSC-2400 ❑ Pneutronic ❑ WMS II

6.) Shower Head Selection:

❑ NPS Non-adjustable Penal Shower Head (Standard) Ⓢ
❑ APS Adjustable Penal Shower Head
❑ UBJ Universal Ball Joint Shower Head
❑ LBJ Lockable Ball Joint Shower Head
❑ CSH Ligature-resistant Shower Head Ⓢ Ⓤ
❑ FX Hand-held Flexshower Head (w/ quick disconnect, vacuum breaker, and (1) hook)
❑ LRSH Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate Ⓤ

7.) Options:

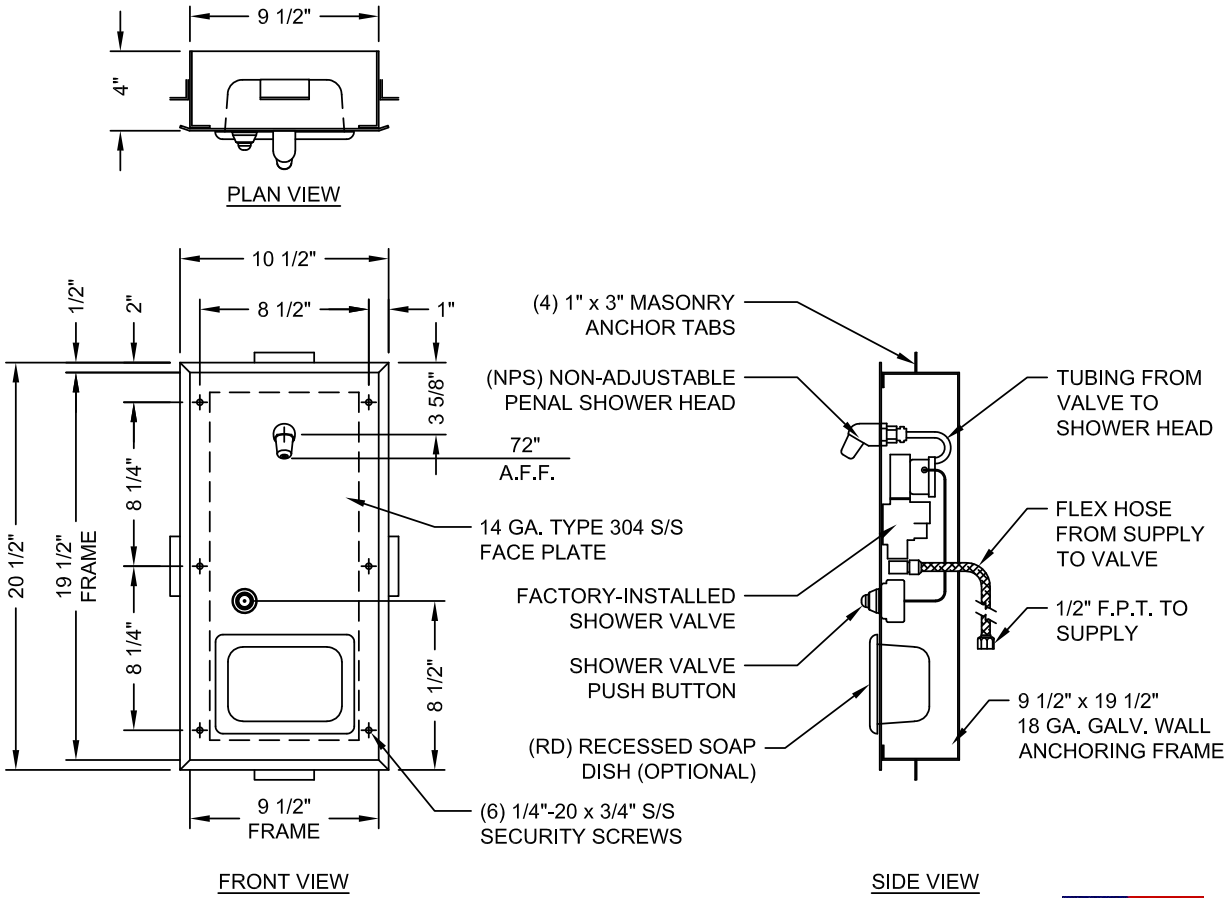
❑ TMV In-line Thermostatic Mixing Valve
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ RD Recessed Mounted Soap Dish Ⓢ Ⓤ
❑ SD Surface Mounted Soap Dish
❑ HL Hi-Lo (2 Hooks For Flexshower, Wall Mounted)
❑ SLB24 24" Adjustable Slide Bar (for Flexshower, Wall Mounted)
❑ Other _____
❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)
Ⓢ For security applications
Ⓤ Ligature-resistant option

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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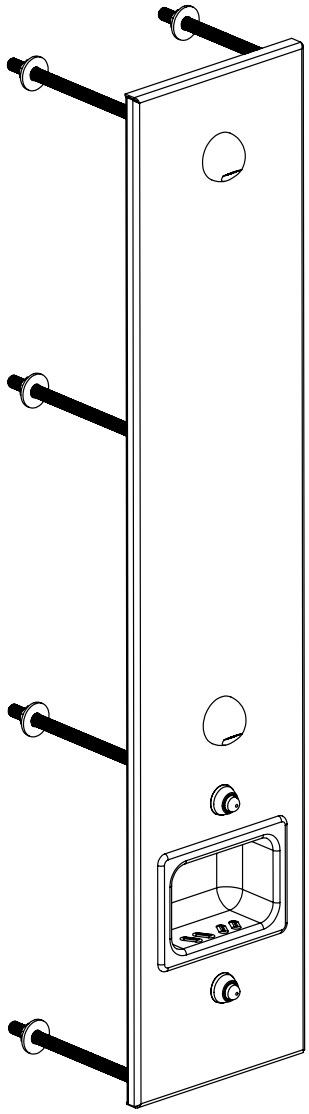


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WRS-ADA Series
ADA-Compliant
Rear Mounted
Recessed Shower Panel



(Unit may be shown with optional features)

IN COMPLIANCE
WITH A.D.A. 2010

Recommended Specifications

ADA-Compliant, Rear Mounted, Recessed Shower Panel shall be: Willoughby Model No. **WRS-ADA**
(Select from model number and options list on next page)

Shower panel shall be fabricated from 14 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)

Anchoring shall be by standard 8-point system: 1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit requires chase area for installation and maintenance.

WaterSense Labeled for LRSH shower head.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Rear Mounted, Recessed Handicap Shower Panel w/ Hand Held Flexshower Head with left hand controls, single temp. pneumatic metering valves (manifolded), standard ligature-resistant pneumatic push buttons, standard 1.5 GPM flow rate, standard 2 (CSH) shower heads, and recessed mounted soap dish

Use the following Willoughby Model Number:
WRS-ADA-PML1-MA2-PBH-1.5GPM-CSH-2HD-RD

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ WRS-ADA — ADA-Compliant, Rear Mounted, Recessed Shower Panel

2.) Panel Orientation (Must Specify if Dual Temp. is Selected):
- ❑ L — Left Hand Controls
- ❑ R — Right Hand Controls

3.) Valve Selection:
- ❑ NV — No Valve
- ❑ PML1 — Single Temp. Pneumatic Metering Ⓢ Ⓛ
- ❑ PML2 — Dual Temp. Pneumatic Metering Ⓢ Ⓛ
- ❑ E1L1 — Single Temp. Electronic (Pick Control)* Ⓢ Ⓛ
- ❑ E1L2 — Dual Temp. Electronic (Pick Control)* Ⓢ Ⓛ

Valve Manifold Option:
Pneumatic or Electronic Valves Only:
(See the Manifold Option Page at the end of Catalog Section S5 for further information)
- ❑ MA2

4.) Push Button Selection:
Pneumatic or Electronic Valves Only:
- ❑ PBH — Ligature-resistant Pneumatic Push Buttons Ⓢ Ⓛ
- ❑ PZPB — Ligature-resistant Piezo Electronic Push Buttons* Ⓢ Ⓛ

5.) Flow Rates:
- ❑ 2.5 GPM (Standard)
- ❑ 2.0 GPM
- ❑ 1.5 GPM

6.) Electronic Controls* (Must Use Electronic Push Button):
- ❑ WUSC-2200 ❑ WUSC-2400 ❑ Pneutronic ❑ WMS II

7.) Shower Head Selection:
- ❑ APS — Adjustable Vandal-resistant Shower Head
- ❑ NPS — Non-Adjustable Vandal-resistant Shower Head Ⓢ
- ❑ UBJ — Universal Ball Joint Shower Head
- ❑ LBJ — Lockable Ball Joint Shower Head
- ❑ CSH — Ligature-resistant Shower Head Ⓢ Ⓛ
- ❑ FX — Hand-held Flexshower Head (w/ quick disconnect, vacuum breaker, and (1) hook)
- ❑ LRSH — Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate Ⓛ
- ❑ 2HD — Dual Fixed Shower Heads Ⓢ

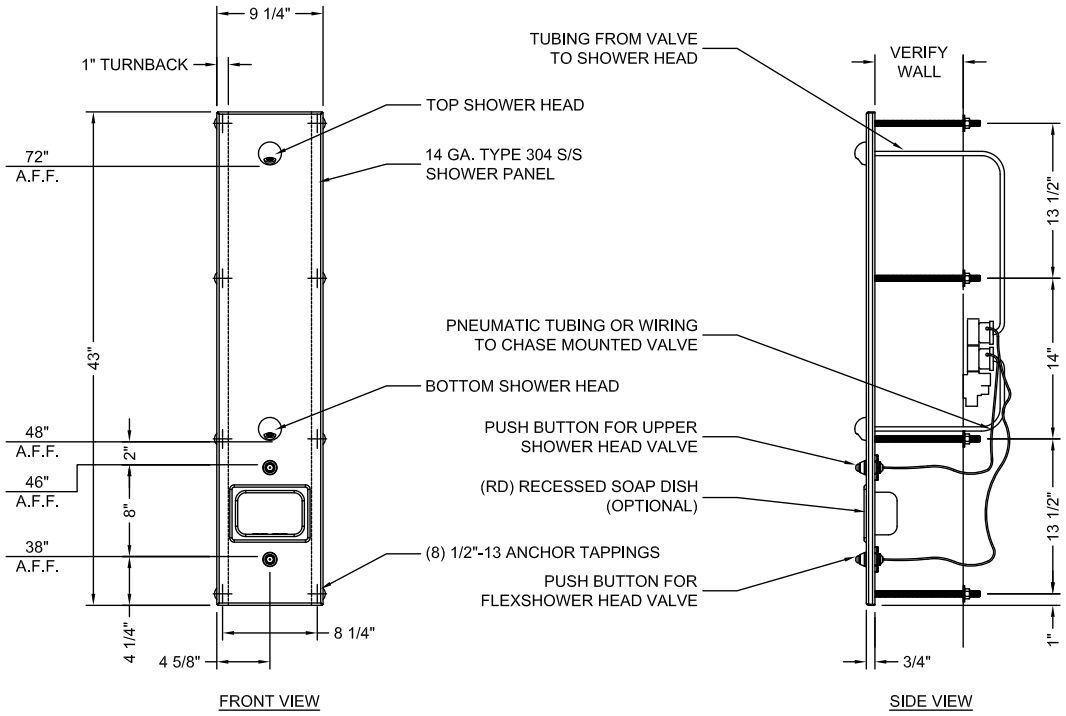
8.) Options:
- ❑ FSS — Fold-up Stainless Steel Shower Seat Ⓢ
- ❑ HL — Hi-Lo (2 Hooks For Flexshower, Wall Mounted)
- ❑ MT — Wall Template
- ❑ TMV — In-line Thermostatic Mixing Valve
- ❑ TF24H — Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P — Plug-in Transformer, 110VAC to 24VAC*
- ❑ RD — Recessed Mounted Soap Dish Ⓢ Ⓛ
- ❑ SLB24 — 24" Adjustable Slide Bar (for Flexshower, Wall Mounted)
- ❑ SD — Surface Mounted Soap Dish
- ❑ WS — Wall Sleeve (Requires Accessible Chase)
- ❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)
Ⓢ For security applications
Ⓛ Ligature-resistant option

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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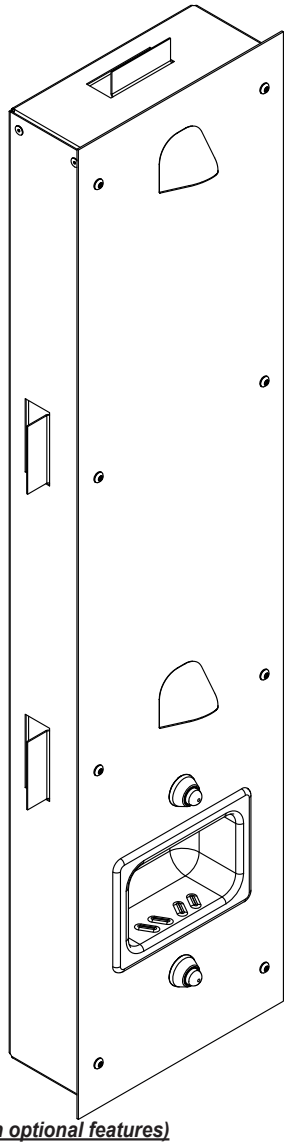
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WRS-FA-ADA Series
ADA-Compliant
Front Mounted
Recessed Shower Panel



(Unit may be shown with optional features)

IN COMPLIANCE
WITH A.D.A. 2010

Recommended Specifications

ADA-Compliant, Front Mounted, Recessed Shower Panel shall be: Willoughby Model No. **WRS-FA-ADA**
(Select from model number and options list on next page)

Shower panel shall be fabricated from 14 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Mounting frame shall be fabricated from 18 gauge galvanized steel.

Standard equipment shall include:
- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)
- In-wall mounting frame

Shower panel shall attach to mounting frame with vandal resistant stainless steel screws. Unit requires no chase area for installation and maintenance.

WaterSense Labeled for LRSH shower head.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Front Mounted, Recessed Handicap Shower Panel w/ Hand Held Flexshower Head with left hand controls, single temp. pneumatic metering valves(manifolded), standard ligature-resistant pneumatic push buttons, standard 2.0 GPM flow rate, standard 2 (LRSH) shower heads, in-line thermostatic mixing valve, and recessed mounted soap dish

Use the following Willoughby Model Number:
WRS-FA-ADA-PML1-MA2-PBH-2.0GPM-LRSH-2HD-TMV-RD

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
❑ WRS-FA-ADA ADA-Compliant, Front Mounted, Recessed Shower Panel

2.) Panel Orientation (Must Specify if Dual Temp. is Selected):
❑ L Left Hand Controls
❑ R Right Hand Controls

3.) Valve Selection:
❑ NV No Valve
❑ PML1 Single Temp. Pneumatic Metering Ⓢ Ⓤ
❑ PML2 Dual Temp. Pneumatic Metering Ⓢ Ⓤ
❑ E1L1 Single Temp. Electronic (Pick Control)* Ⓢ Ⓤ
❑ E1L2 Dual Temp. Electronic (Pick Control)* Ⓢ Ⓤ

Valve Manifold Option:
Pneumatic or Electronic Valves Only:
(See the Manifold Option Page at the end of Catalog Section S5 for further information)
❑ MA2

4.) Push Button Selection:
Pneumatic or Electronic Valves Only:
❑ PBH Ligature-resistant Pneumatic Push Buttons Ⓢ Ⓤ
❑ PZPB Ligature-resistant Piezo Electronic Push Buttons* Ⓢ Ⓤ

5.) Flow Rates:
❑ 2.5 GPM (Standard)
❑ 2.0 GPM
❑ 1.5 GPM

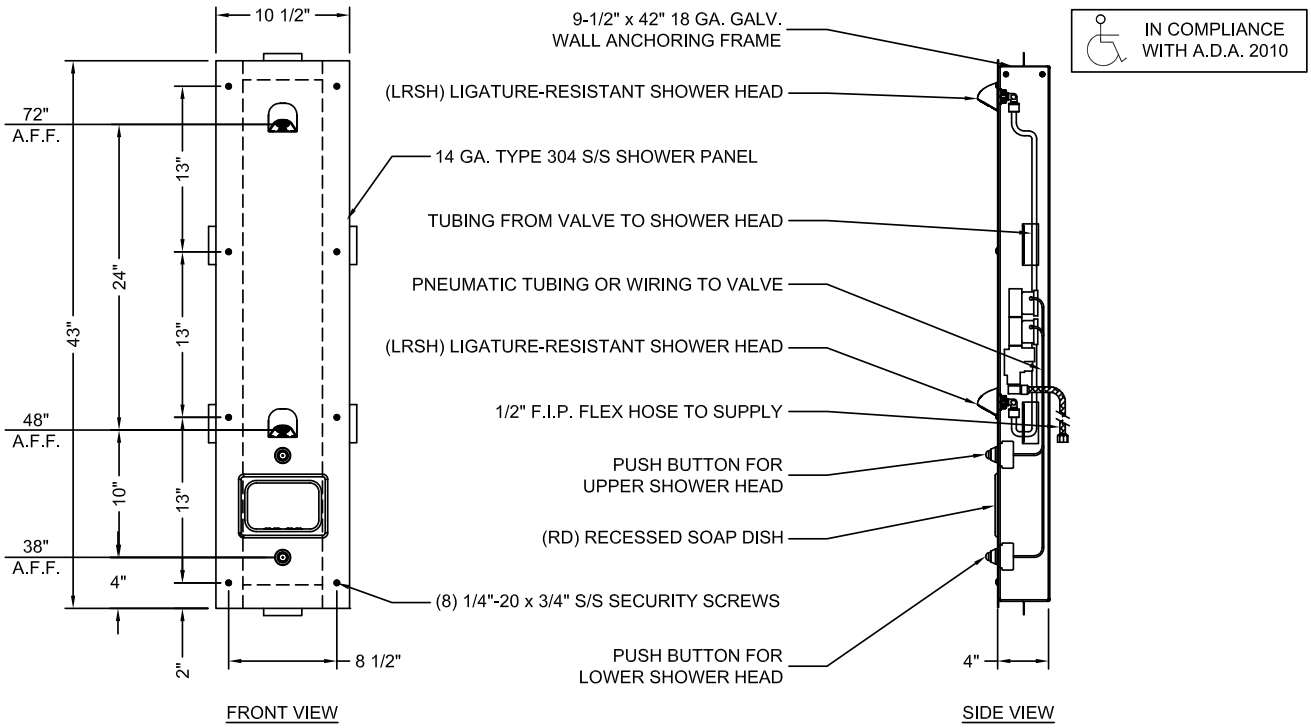
6.) Electronic Controls* (Must Use Electronic Push Button):
❑ WUSC-2200 ❑ WUSC-2400 ❑ Pneutronic ❑ WMS II

7.) Shower Head Selection:
❑ APS Adjustable Vandal-resistant Shower Head
❑ NPS Non-Adjustable Vandal-resistant Shower Head Ⓢ
❑ UBJ Universal Ball Joint Shower Head
❑ LBJ Lockable Ball Joint Shower Head
❑ CSH Ligature-resistant Shower Head Ⓢ Ⓤ
❑ FX Hand-held Flexshower Head (w/ quick disconnect, vacuum breaker, and (1) hook)
❑ LRSH Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate Ⓤ
❑ 2HD Dual Fixed Shower Heads Ⓢ

8.) Options:
❑ FSS Fold-up Stainless Steel Shower Seat Ⓢ
❑ HL Hi-Lo (2 Hooks For Flexshower, Wall Mounted)
❑ MT Wall Template
❑ TMV In-line Thermostatic Mixing Valve
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ RD Recessed Mounted Soap Dish Ⓢ Ⓤ
❑ SD Surface Mounted Soap Dish
❑ SLB24 24" Adjustable Slide Bar (for Flexshower, Wall Mounted)
❑ Other _____
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)
Ⓢ For security applications
Ⓤ Ligature-resistant option

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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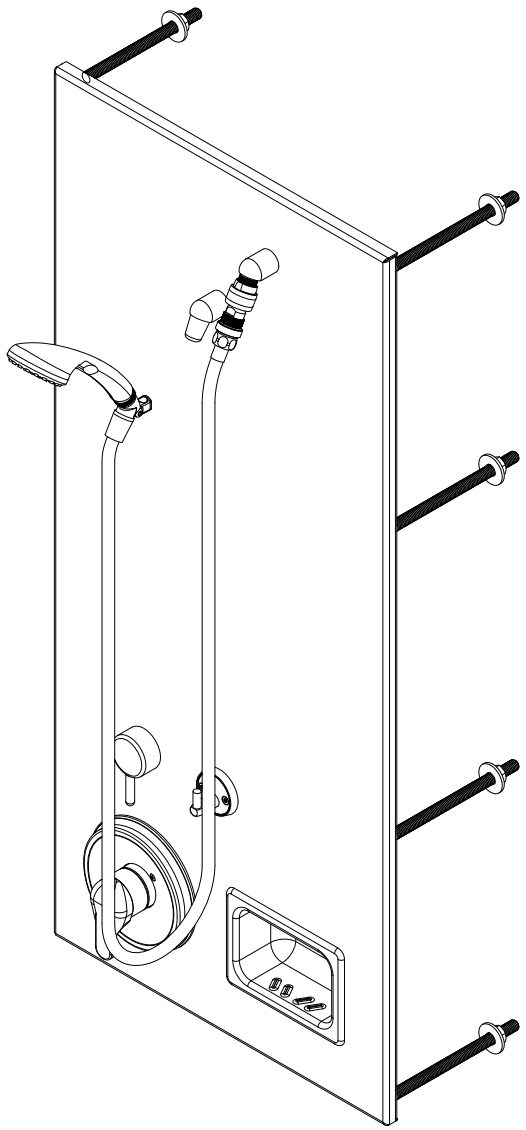
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WRS-ADA-WH Series
Wide Housing
ADA-Compliant
Rear Mounted
Recessed Shower Panel



LEFT HAND CONTROL FIXTURE SHOWN
(Unit may be shown with optional features)

IN COMPLIANCE
WITH A.D.A. 2010

Recommended Specifications

Wide Housing, ADA-Compliant, Rear Mounted,
Recessed Shower Panel shall be:
Willoughby Model No. **WRS-ADA-WH**
(Select from model number and options list on next page)

Shower panel shall be fabricated from 14 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)

Anchoring shall be by standard 8-point system: 1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit requires chase area for installation and maintenance.

WaterSense Labeled for LRSH shower head.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Wide Housing, ADA-Compliant, Rear Mounted, Recessed Shower Panel with left hand controls, pressure-balancing mixing valve, diverter valve, 2.5 GPM flow rate, standard NPS and FX Flexshower shower heads, and recessed soap dish

Use the following Willoughby Model Number:
WRS-ADA-WH-L-TPV-DV-2.5-NPS-FX-RD

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ WRS-ADA-WH — Wide Housing, ADA-Compliant, Rear Mounted, Recessed Shower Panel

2.) Panel Orientation (Must Specify):

❑ L — Left Hand Controls
❑ R — Right Hand Controls

3.) Valve Selection:

❑ NV — No Valve
❑ PML1 — Single Temp. Pneumatic Metering Ⓢ Ⓤ
❑ PML2 — Dual Temp. Pneumatic Metering Ⓢ Ⓤ
❑ E1L1 — Single Temp. Electronic (Pick Control)* Ⓢ Ⓤ
❑ E1L2 — Dual Temp. Electronic (Pick Control)* Ⓢ Ⓤ
❑ PBV — Pressure-Balancing Mixing Valve
❑ TPV — Temperature/Pressure-Balancing Mixing Valve
❑ TPLR — Ligature-resistant Temp/Pressure-balancing Mixing Valve Ⓤ
❑ SVCL — Single Temp. Compression Valve (w/ ADA lever handle)
❑ DVCL — Dual Temp. Compression Valves (w/ ADA lever handle)
❑ MA2 — ***Valve Manifold Option*** *(Pneumatic or Electronic Valves Only):* ***(See the Manifold Option Page at the end of Catalog Section S5 for further information)***

4.) Diverter Valve:

❑ DV — Diverter Valve
❑ DVLR — Ligature-resistant Diverter Valve Ⓤ
❑ PML1-MA2 — Two Single Temp. Pneumatic Metering Valves Ⓤ (Used to divert water flow to either upper, lower, or both shower heads; for use with Mixing Valve options above)

5.) Push Button Selection:

Pneumatic or Electronic Valves Only:

❑ PBH — Ligature-resistant Pneumatic Push Buttons Ⓢ Ⓤ
❑ PZPB — Ligature-resistant Piezo Electronic Push Buttons* Ⓢ Ⓤ

6.) Flow Rates:

❑ 2.5 GPM (Standard) ❑ 2.0 GPM ❑ 1.5 GPM

7.) Electronic Control* (Must Use Electronic Push Button):

❑ WUSC-2200 ❑ WUSC-2400 ❑ Pneutronic ❑ WMS II

8.) Shower Head Selection:

❑ APS — Adjustable Vandal-resistant Shower Head
❑ NPS — Non-Adjustable Vandal-resistant Shower Head Ⓢ
❑ UBJ — Universal Ball Joint Shower Head
❑ LBJ — Lockable Ball Joint Shower Head
❑ CSH — Ligature-resistant Shower Head Ⓢ Ⓤ
❑ FX — Hand-held Flexshower Head (w/ quick disconnect, vacuum breaker, and (1) hook)
❑ LRSH — Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate Ⓤ
❑ 2HD — Dual Fixed Shower Heads Ⓢ

9.) Optional Shower Seat:

❑ FSSL — Left Hand Stainless Steel Folding Shower Seat Ⓢ
❑ FSSR — Right Hand Stainless Steel Folding Shower Seat Ⓢ

10.) Other Options:

❑ TF24H — Hard-wired Transformer, 110VAC to 24VAC* (Standard)
❑ TF24P — Plug-in Transformer, 110VAC to 24VAC*
❑ TMV — Inline Thermostatic Mixing Valve
❑ HL — Hi-Lo (2 Hooks For Flexshower)
❑ MT — Wall Template
❑ SLB24 — 24" Adjustable Slide Bar (for Flexshower)
❑ SD — Surface Mounted Soap Dish
❑ RD — Recessed Mounted Soap Dish Ⓢ Ⓤ
❑ WS — Wall Sleeve (Requires Accessible Chase)
❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)
Ⓢ For security applications
Ⓤ Ligature-resistant option

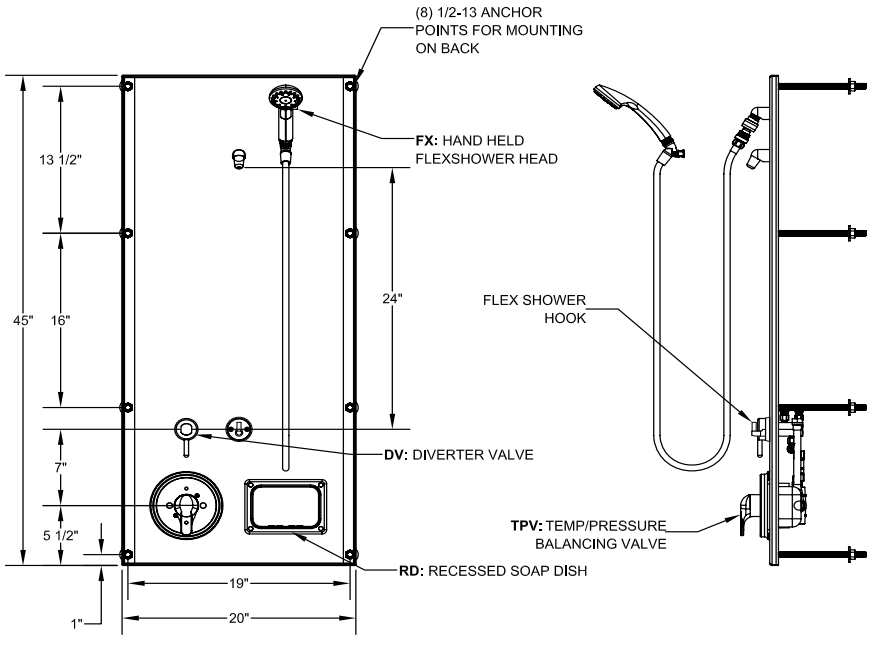
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Wall Thickness: _____ Wall Type: _____

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LEFT HAND CONTROL SHOWN
RIGHT HAND SYMMETRICALLY OPPOSITE



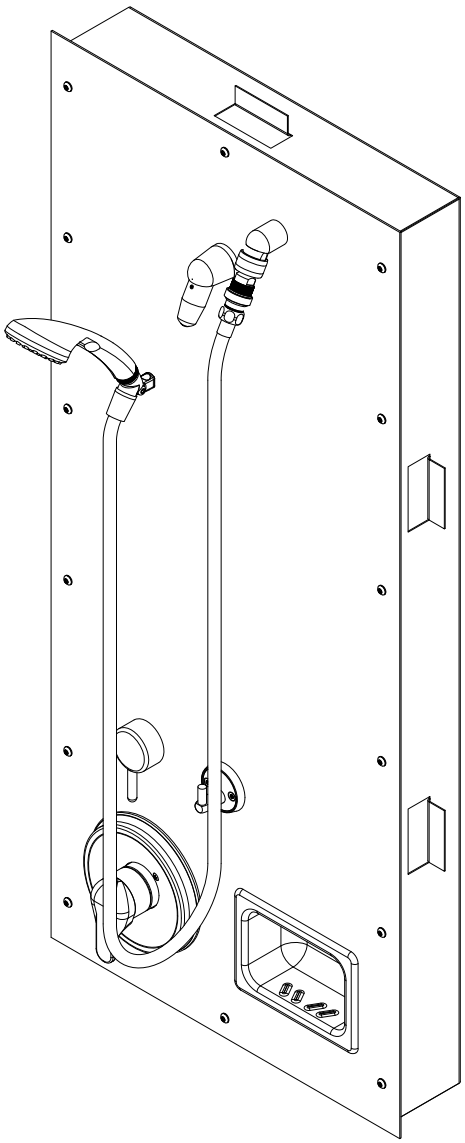
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WRS-FA-ADA-WH Series
Wide Housing
ADA-Compliant
Front Mounted
Recessed Shower Panel



LEFT HAND CONTROL FIXTURE SHOWN
(Unit may be shown with optional features)

IN COMPLIANCE
WITH A.D.A. 2010

Recommended Specifications

Wide Housing, ADA-Compliant, Front Mounted,
Recessed Shower Panel shall be:
Willoughby Model No. **WRS-FA-ADA-WH**
(Select from model number and options list on next page)

Shower panel shall be fabricated from 14 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. In-wall mounting frame shall be fabricated from 18 gauge galvanized steel.

Standard equipment shall include:
- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)
- In-wall mounting frame

Shower panel shall attach to in-wall mounting frame with vandal resistant stainless steel screws. Shower unit shall be factory assembled, and ready for installation by a contractor. Unit requires no chase area for installation and maintenance.

WaterSense Labeled for LRSH shower head.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Wide Housing, ADA-Compliant, Front Mounted, Recessed Shower Panel with left hand controls, pressure-balancing mixing valve, diverter valve, 2.5 GPM flow rate, APS adjustable vandal-resistant and FX Flexshower shower heads, and recessed soap dish

Use the following Willoughby Model Number:
WRS-FA-ADA-WH-L-PBV-DV-2.5-APS-FX-RD

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ WRS-FA-ADA-WH — Wide Housing, ADA-Compliant, Front Mounted, Recessed Shower Panel

2.) Panel Orientation (Must Specify):

❑ L — Left Hand Controls
❑ R — Right Hand Controls

3.) Valve Selection:

❑ NV — No Valve
❑ PML1 — Single Temp. Pneumatic Metering Ⓢ Ⓛ
❑ PML2 — Dual Temp. Pneumatic Metering Ⓢ Ⓛ
❑ E1L1 — Single Temp. Electronic (w/ Pick Control)* Ⓢ Ⓛ
❑ E1L2 — Dual Temp. Electronic (w/ Pick Control)* Ⓢ Ⓛ
❑ PBV — Pressure-Balancing Mixing Valve
❑ TPV — Temperature/Pressure-Balancing Mixing Valve
❑ TPLR — Ligature-resistant Temp/Pressure-balancing Mixing Valve Ⓛ
❑ SVCL — Single Temp. Compression Valve (w/ ADA lever handle)
❑ DVCL — Dual Temp. Compression Valves (w/ ADA lever handle)
❑ MA2 — ***Valve Manifold Option*** *(Pneumatic or Electronic Valves Only):* ***(See the Manifold Option Page at the end of Catalog Section S5 for further information)***

4.) Diverter Valve:

❑ DV — Diverter Valve
❑ DVLR — Ligature-resistant Diverter Valve Ⓛ
❑ PML1-MA2 — Two Single Temp. Pneumatic Metering Valves Ⓛ (Used to divert water flow to either upper, lower, or both shower heads; for use with Mixing Valve options above)

5.) Push Button Selection:

Pneumatic or Electronic Valves Only:

❑ PBH — Ligature-resistant Pneumatic Push Buttons Ⓢ Ⓛ
❑ PZPB — Ligature-resistant Piezo Electronic Push Buttons* Ⓢ Ⓛ

6.) Flow Rates:

❑ 2.5 GPM (Standard) ❑ 2.0 GPM ❑ 1.5 GPM

7.) Electronic Control* (Must Use Electronic Push Button):

❑ WUSC-2200 ❑ WUSC-2400 ❑ Pneutronic ❑ WMS II

8.) Shower Head Selection:

❑ APS — Adjustable Vandal-resistant Shower Head
❑ NPS — Non-Adjustable Vandal-resistant Shower Head Ⓢ
❑ UBJ — Universal Ball Joint Shower Head
❑ LBJ — Lockable Ball Joint Shower Head
❑ CSH — Ligature-resistant Shower Head Ⓢ Ⓛ
❑ FX — Hand-held Flexshower Head (w/ quick disconnect, vacuum breaker, and (1) hook)
❑ LRSH — Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate Ⓛ
❑ 2HD — Dual Fixed Shower Heads (replaces (FX) Flexshower head w/ second of the selected fixed Shower Head) Ⓢ

9.) Optional Shower Seat:

❑ FSSL — Left Hand Stainless Steel Folding Shower Seat Ⓢ
❑ FSSR — Right Hand Stainless Steel Folding Shower Seat Ⓢ
❑ PFSSL — Left Hand Padded Stainless Steel Folding Shower Seat
❑ PFSSR — Right Hand Padded Stainless Steel Folding Shower Seat
❑ PHSSL — Left Hand Phenolic Folding Shower Seat
❑ PHSSR — Right Hand Phenolic Folding Shower Seat

10.) Other Options:

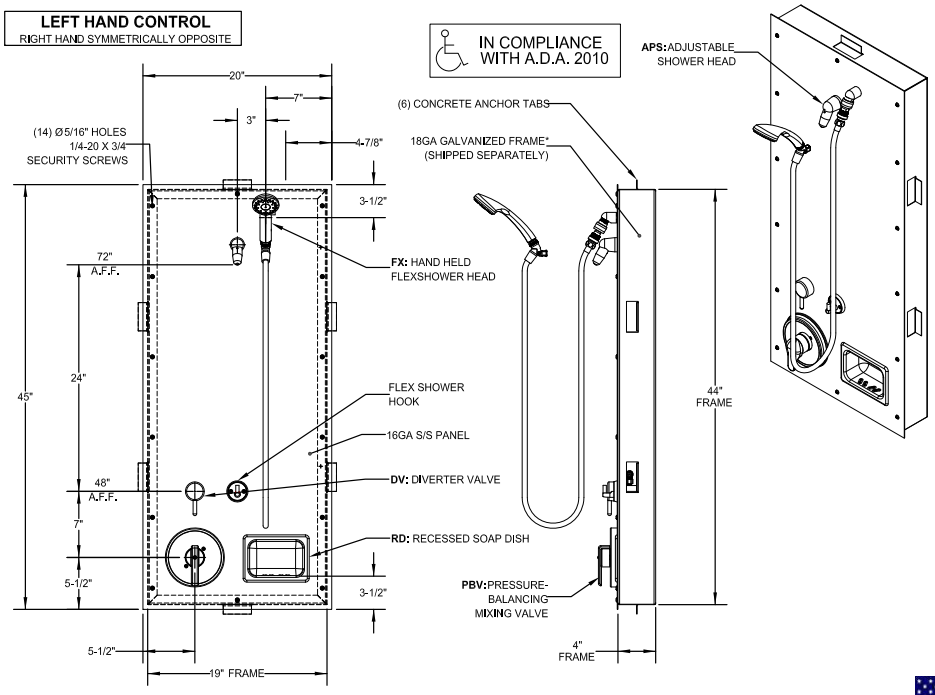
❑ TF24H — Hard-wired Transformer, 110VAC to 24VAC* (Standard)
❑ TF24P — Plug-in Transformer, 110VAC to 24VAC*
❑ TMV — Inline Thermostatic Mixing Valve
❑ HL — Hi-Lo (2 Hooks For Flexshower)
❑ SLB24 — 24" Adjustable Slide Bar (for Flexshower)
❑ SD — Surface Mounted Soap Dish
❑ RD — Recessed Mounted Soap Dish Ⓢ Ⓛ
❑ Other _____
❑ Other _____

* (Req. 110V power through ground fault interrupter (GFCI) receptacle)
Ⓢ For security applications
Ⓛ Ligature-resistant option

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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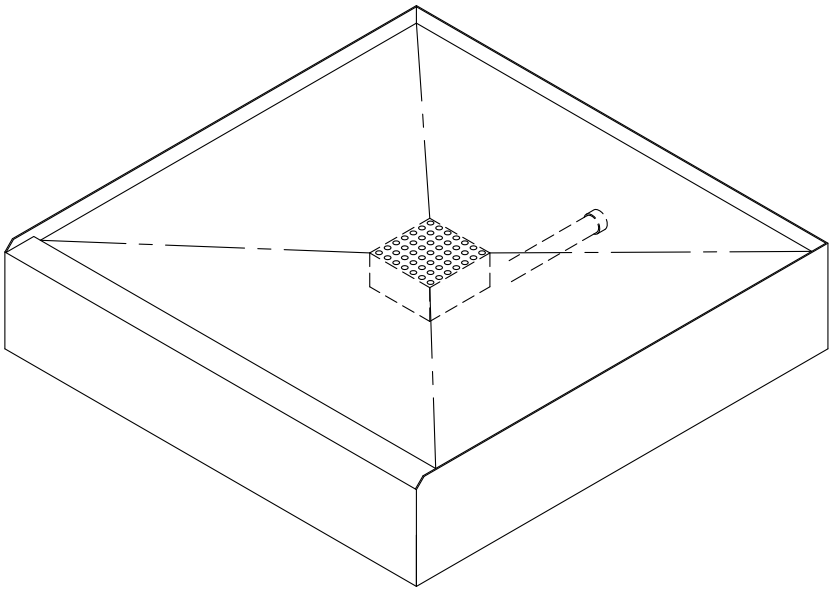
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SB-Series Stainless Steel Shower Base



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an SB-Series stainless steel 36"x36"shower base with standard 2" F.I.P. elbow waste with integral strainer drain, back chase, and polished front and sides:

Use the following Willoughby Model Number:
SB-3636-EBD-BCS-A1

Recommended Specifications

Stainless steel shower base shall be:
Willoughby Model No. **SB-___**

Shower base shall be fabricated from 14 gauge, Type 304 stainless steel, except shower base floor which shall be fabricated from 11 gauge, Type 304 stainless steel. The construction shall be all-welded, exposed stainless surfaces polished to a #4 satin finish, except shower floor which shall have a slip-resistant glass-bead-blast finish floor.

Shower base floor has an integral drain and an integral tiling flange. Shower drain is supplied as standard w/ integral strainer drain with elbow waste (2" F.I.P.) extending to chase wall. Underside of floor shall be sound deadened with fire resistant material.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

- ❑ SB-3030 30"x30" Stainless Steel Shower Base
- ❑ SB-3232 32"x32" Stainless Steel Shower Base
- ❑ SB-3636 36"x36" Stainless Steel Shower Base

2.) Drain Selection:

- ❑ EBD Elbow Waste for Cabinet Shower (2" FIP) w/ Integral Strainer Drain (Standard)
- ❑ ICD Inside Caulk Drain (2") w/ Removable Strainer
- ❑ PTD Integral 'P'-Trap Drain (2" FIP) w/ Removable Strainer

3.) Chase Wall Orientation:

- ❑ BCS Back Chase
- ❑ LCS Left Chase
- ❑ RCS Right Chase

4.) Fixture Exterior Finish Schedule:

(Based on Chase Wall Orientation; see the Options Pages at the end of Catalog Section for diagram)

For (BCS) Back Chase:

- ❑ A1 Polished Front, Left Side, & Right Side
- ❑ A2 Polished Front & Right Side
- ❑ A3 Polished Front & Left Side
- ❑ A4 Polished Front only

For (LCS) Left Chase:

- ❑ B1 Polished Front, Back Side, & Right Side
- ❑ B2 Polished Front & Right Side
- ❑ B3 Polished Front only

For (RCS) Right Chase:

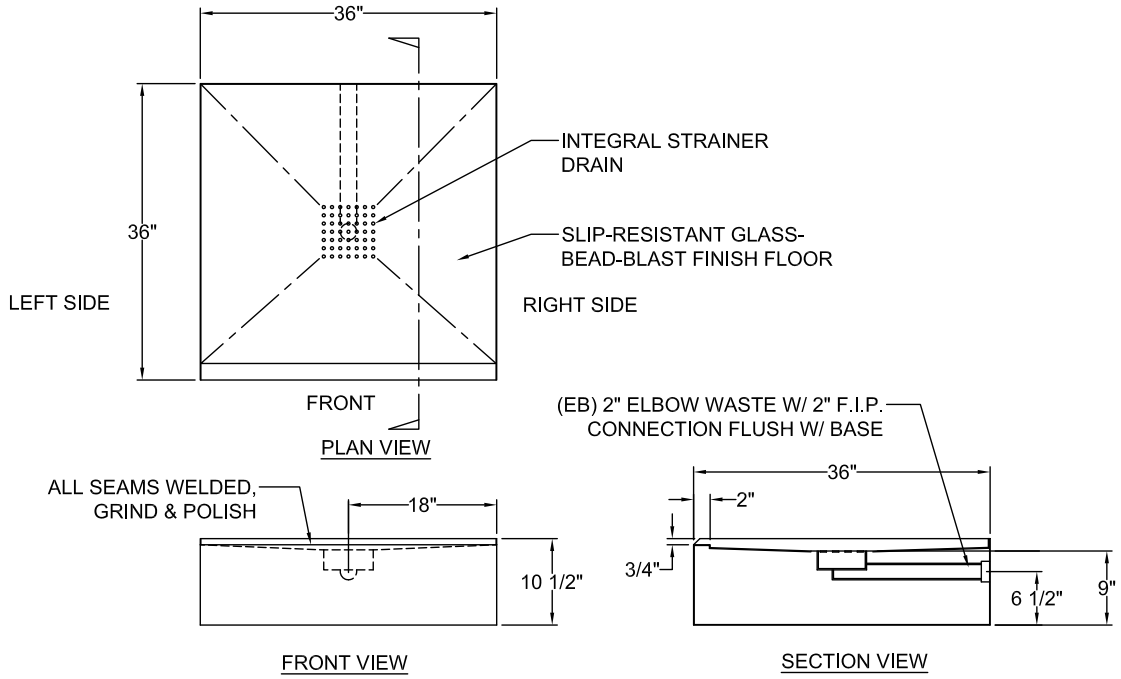
- ❑ C1 Polished Front, Back Side, & Left Side
- ❑ C2 Polished Front & Left Side
- ❑ C3 Polished Front only

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

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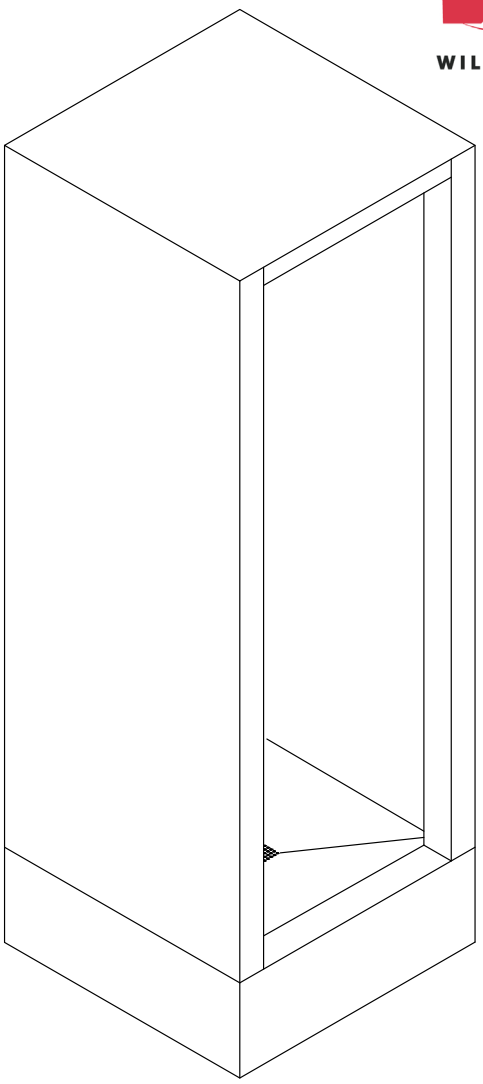
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Cabinet Shower



Please provide shower finish schedule upon ordering.
(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a unitized 36" x 36" Cabinet Shower with left hand shower head, back chase/ valving, polished front, single temp. pneumatic metering valve, standard ligature-resistant pneumatic push button, 2.5 GPM flow rate, standard non-adjustable penal shower head and standard elbow waste drain

Use the following Willoughby Model Number:
US-3636-L-BCS-A4-PML1-PBH-2.5GPM-NPS-EBD

Recommended Specifications

Cabinet Shower shall be:
Willoughby Model No. ___**S-**_____
(Select from model number and options list on next page)

Shower cabinet shall be fabricated from 14 gauge, Type 304 stainless steel. Shower floor shall be fabricated from 11 gauge, Type 304 stainless steel. The construction shall be ***all welded*** (unitized models only, not applicable to knockdown models), exposed stainless surfaces polished to a #4 satin finish, except shower floor which shall have a non-slip glass blast finish.

Standard equipment shall include:
- (NPS) non-adjustable penal shower head, mounted in front corner panel (plumbed through the side mullion, under shower floor, and to chase wall)
- (EBD) Integral strainer drain with elbow waste (2" F.I.P.) extending to chase wall

Unit requires chase area for installation and maintenance.

Underside of shower floor shall be sound deadened with fire resistant material.

To specify Knockdown Cabinet Shower: Select the "KS" model number from the list on the Model Number and Options page.

It is highly recommended that a floor drain be utilized at or near the shower entrance. The floor drain is to be provided by others.

WaterSense Labeled for LRSH shower head.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

Unitized Cabinet Showers:

- ❑ US-3030 30"L x 30"W Cabinet Shower
- ❑ US-3232 32"L x 32"W Cabinet Shower
- ❑ US-3636 36"L x 36"W Cabinet Shower

Knockdown Cabinet Showers:

- ❑ KS-3030 30"L x 30"W Cabinet Shower
- ❑ KS-3232 32"L x 32"W Cabinet Shower
- ❑ KS-3636 36"L x 36"W Cabinet Shower

2.) Shower Head Orientation:

- ❑ L Left Hand
- ❑ R Right Hand

3.) Chase Wall/Valve Orientation:

- ❑ BCS Back Chase
- ❑ LCS Left Chase
- ❑ RCS Right Chase

4.) Cabinet Side Exterior Finish Schedule:

(Based on Chase Wall Orientation; see the Options Pages at the end of Catalog Section for diagram)

For (BCS) Back Chase:

- ❑ A1 Polished Front, Left Side, & Right Side
- ❑ A2 Polished Front & Right Side
- ❑ A3 Polished Front & Left Side
- ❑ A4 Polished Front only

For (LCS) Left Chase:

- ❑ B1 Polished Front, Back Side, & Right Side
- ❑ B2 Polished Front & Right Side
- ❑ B3 Polished Front only

For (RCS) Right Chase:

- ❑ C1 Polished Front, Back Side, & Left Side
- ❑ C2 Polished Front & Left Side
- ❑ C3 Polished Front only

5.) Valve Selection:

- ❑ NV No Valve
- ❑ PML1 Single Temp. Pneumatic Metering Ⓢ Ⓛ
- ❑ PML2 Dual Temp. Pneumatic Metering Ⓢ Ⓛ
- ❑ E1L1 Single Temp. Electronic (Pick Control)* Ⓢ Ⓛ
- ❑ E1L2 Dual Temp. Electronic (Pick Control)* Ⓢ Ⓛ
- ❑ PBV Pressure-Balancing Mixing Valve
- ❑ TPV Temp/Pressure-Balancing Mixing Valve
- ❑ TPLR Ligature-resistant Temp/Pressure-Balancing Mixing Valve Ⓛ

Valve Manifold Option:

Pneumatic or Electronic Valves Only:

(See the Manifold Option Page at the end of Catalog Section S5 for further information)

- ❑ MA2

6.) Push Button Selection:

Pneumatic or Electronic Valves Only:

- ❑ PBH Ligature-resistant Pneumatic Push Buttons Ⓢ Ⓛ
- ❑ PZPB Ligature-resistant Piezo Electronic Push Buttons* Ⓢ Ⓛ

7.) Flow Rates:

- ❑ 2.5 GPM (Standard)
- ❑ 2.0 GPM
- ❑ 1.5 GPM

8.) Electronic Controls*

(Must Use Electronic Push Button):

- ❑ WUSC-2200 ❑ WUSC-2400
- ❑ Pneutronic ❑ WMS II

9.) Shower Head Selection:

- ❑ NPS Non-adjustable Penal Shower Head (Standard) Ⓢ
- ❑ APS Adjustable Penal Shower Head
- ❑ CSH Ligature-resistant Shower Head Ⓢ Ⓛ
- ❑ LRSH Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate Ⓛ

10.) Drain Selection:

- ❑ EBD Elbow waste for Cabinet Shower (2" FIP) (Standard)
- ❑ PTD Integral 'P'-Trap Cabinet Shower Drain (2" FIP)
- ❑ NHD No-hub Cabinet Shower Drain (2")
- ❑ ICD Inside Caulk Cabinet Shower Drain (2")

11.) Options:

- ❑ VG Ventilation Grille (Specify Free Area and Location; Standard Grille Dimensions: 8-3/4" x 8-3/4" with 15-3/4 in^2 open area)
- ❑ CP Closure Panels (Specify Dimensions and Locations)
- ❑ STC Sloping Top Closure
- ❑ MD__ Modesty Door (Not ADA-Compliant)
  - ❑ L Hinged Left
  - ❑ R Hinged Right
- ❑ CR Curtain Rod
- ❑ DR Drying Receptor
- ❑ TH1 Release Towel Hook Ⓢ Ⓛ
- ❑ RD Recessed Mounted Soap Dish Ⓢ Ⓛ
- ❑ SD Surface Mounted Soap Dish
- ❑ ZC 'Z'-Clip Floor Mounting
- ❑ TMV In-line Thermostatic Mixing Valve
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ LRD5 5" Ligature-resistant Drain Cover (Requires Drain Modification for EBD Option) Ⓛ
- ❑ Other _____
- ❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Ⓢ For security applications

Ⓛ Ligature-resistant option

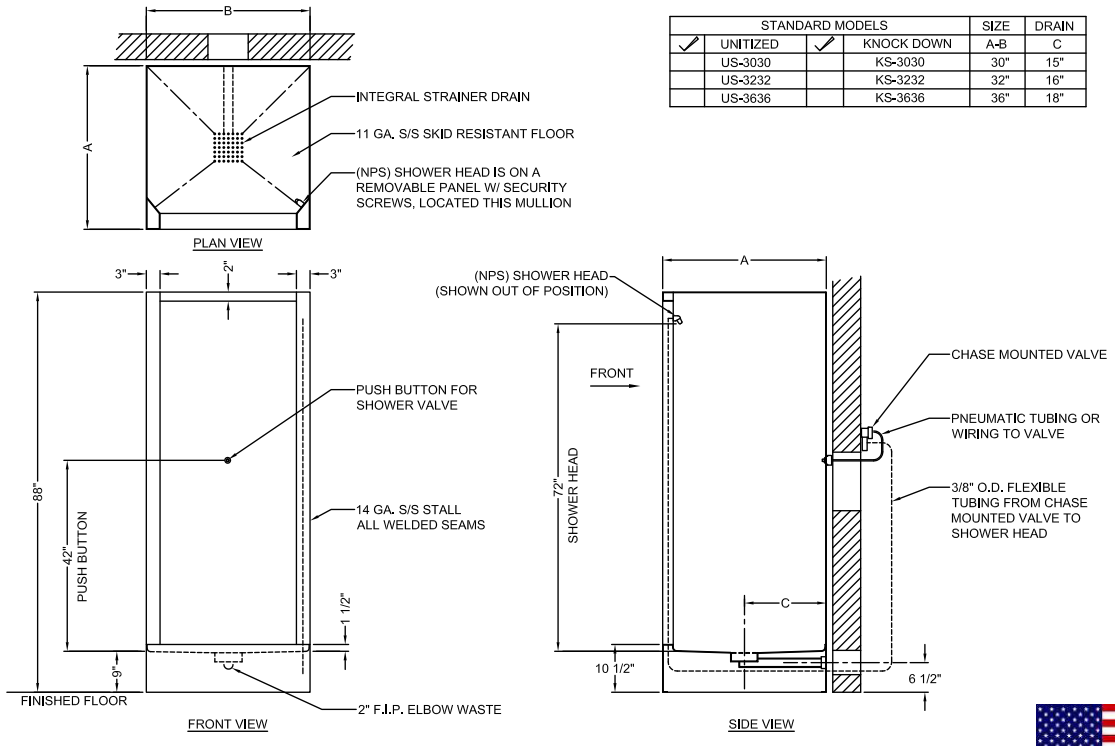
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Wall Thickness: _____ Wall Type: _____

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STANDARD MODELS				SIZE	DRAIN
✓	UNITIZED	✓	KNOCK DOWN	A-B	C
	US-3030		KS-3030	30"	15"
	US-3232		KS-3232	32"	16"
	US-3636		KS-3636	36"	18"



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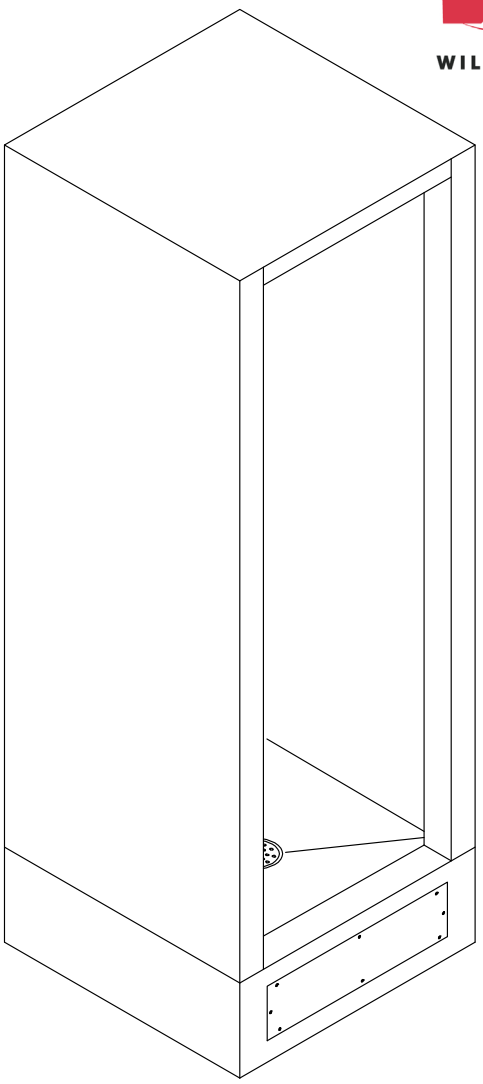
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Front Access Cabinet Shower



Please provide shower finish schedule upon ordering.
(Unit may be shown with optional features)

Recommended Specifications

Front Access Cabinet Shower shall be:
Willoughby Model No. **___S-____-FA**
(Select from model number and options list on next page)

Shower cabinet shall be fabricated from 14 gauge, Type 304 stainless steel. Shower floor shall be fabricated from 11 gauge, Type 304 stainless steel. The construction shall be ***all-welded*** (unitized models only, not applicable to knockdown models), exposed stainless surfaces polished to a #4 satin finish, except shower floor which shall have a non-slip glass blast finish.

Standard equipment shall include:
- (NPS) non-adjustable penal shower head, mounted in a corner panel (plumbed to a top supply connection)
- (NHD) No-hub drain with removable strainer

Unit requires no chase area for installation and maintenance. Drain connection shall be through removable front access cover. Shower head and push button shall be mounted in a side mullion.

Underside of shower floor shall be sound deadened with fire resistant material.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a unitized 36" x 36" Front Access Cabinet Shower with left hand shower head/valving, back wall with polished front, single temp. pneumatic metering valve, standard ligature-resistant pneumatic push button, 2.5 GPM flow rate, standard non-adjustable penal shower head and standard no-hub drain

Use the following Willoughby Model Number:
US-3636-FA-L-A4-PML1-PBH-2.5GPM-NPS-NHD

To specify Knockdown Cabinet Shower: Select the "KS" model number from the list on the Model Number and Options page.

It is highly recommended that a floor drain be utilized at or near the shower entrance. The floor drain is to be provided by others.

WaterSense Labeled for LRSH shower head.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

Unitized Front Access Cabinet Showers:

- ❑ US-3030-FA 30"L x 30"W Cabinet Shower
- ❑ US-3232-FA 32"L x 32"W Cabinet Shower
- ❑ US-3636-FA 36"L x 36"W Cabinet Shower

Knockdown Front Access Cabinet Showers:

- ❑ KS-3030-FA 30"L x 30"W Cabinet Shower
- ❑ KS-3232-FA 32"L x 32"W Cabinet Shower
- ❑ KS-3636-FA 36"L x 36"W Cabinet Shower

2.) Shower Head/Push Button Orientation:

- ❑ L Left Hand
- ❑ R Right Hand

3.) Cabinet Side Exterior Finish Schedule:
(Based on Chase Wall Orientation; see the Options Pages at the end of Catalog Section for diagram)

For (BCS) Back Wall:

- ❑ A1 Polished Front, Left Side, & Right Side
- ❑ A2 Polished Front & Right Side
- ❑ A3 Polished Front & Left Side
- ❑ A4 Polished Front only

For (LCS) Left Wall:

- ❑ B1 Polished Front, Back Side, & Right Side
- ❑ B2 Polished Front & Right Side
- ❑ B3 Polished Front only

For (RCS) Right Wall:

- ❑ C1 Polished Front, Back Side, & Left Side
- ❑ C2 Polished Front & Left Side
- ❑ C3 Polished Front only

4.) Valve Selection:

- ❑ NV No Valve
- ❑ PML1 Single Temp. Pneumatic Metering Ⓢ Ⓤ
- ❑ PML2 Dual Temp. Pneumatic Metering Ⓢ Ⓤ
- ❑ E1L1 Single Temp. Electronic (Pick Control)* Ⓢ Ⓤ
- ❑ E1L2 Dual Temp. Electronic (Pick Control)* Ⓢ Ⓤ
- ❑ PBV Pressure-Balancing Mixing Valve
- ❑ TPV Temp/Pressure-Balancing Mixing Valve
- ❑ TPLR Ligature-resistant Temp/Pressure-Balancing Mixing Valve Ⓤ

Valve Manifold Option:
Pneumatic or Electronic Valves Only:
(See the Manifold Option Page at the end of Catalog Section S5 for further information)

- ❑ MA2

5.) Push Button Selection:
Pneumatic or Electronic Valves Only:

- ❑ PBH Ligature-resistant Pneumatic Push Buttons Ⓢ Ⓤ
- ❑ PZPB Ligature-resistant Piezo Electronic Push Buttons* Ⓢ Ⓤ

6.) Flow Rates:

- ❑ 2.5 GPM (Standard)
- ❑ 2.0 GPM
- ❑ 1.5 GPM

7.) Electronic Controls*
(Must Use Electronic Push Button):

- ❑ WUSC-2200 ❑ WUSC-2400
- ❑ Pneutronic ❑ WMS II

8.) Shower Head Selection:

- ❑ NPS Non-adjustable Penal Shower Head (Standard) Ⓢ
- ❑ APS Adjustable Penal Shower Head
- ❑ CSH Ligature-resistant Shower Head Ⓢ Ⓤ
- ❑ LRSH Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate Ⓤ

9.) Drain Selection:

- ❑ NHD No-hub Cabinet Shower Drain (2") (Standard)
- ❑ ICD Inside Caulk Cabinet Shower Drain (2")

10.) Options:

- ❑ VG Ventilation Grille (Specify Free Area and Location; Standard Grille Dimensions: 8-3/4" x 8-3/4" with 15-3/4 in^2 open area)
- ❑ CP Closure Panels (Specify Dimensions and Locations)
- ❑ STC Sloping Top Closure
- ❑ MD__ Modesty Door
  - ❑ L Hinged Left
  - ❑ R Hinged Right
- ❑ CR Curtain Rod
- ❑ TH1 Release Towel Hook Ⓢ Ⓤ
- ❑ RD Recessed Mounted Soap Dish Ⓢ Ⓤ
- ❑ SD Surface Mounted Soap Dish
- ❑ ZC 'Z'-Clip Floor Mounting
- ❑ TMV In-line Thermostatic Mixing Valve
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ LRD5 5" Ligature-resistant Drain Cover Ⓤ
- ❑ Other _____
- ❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

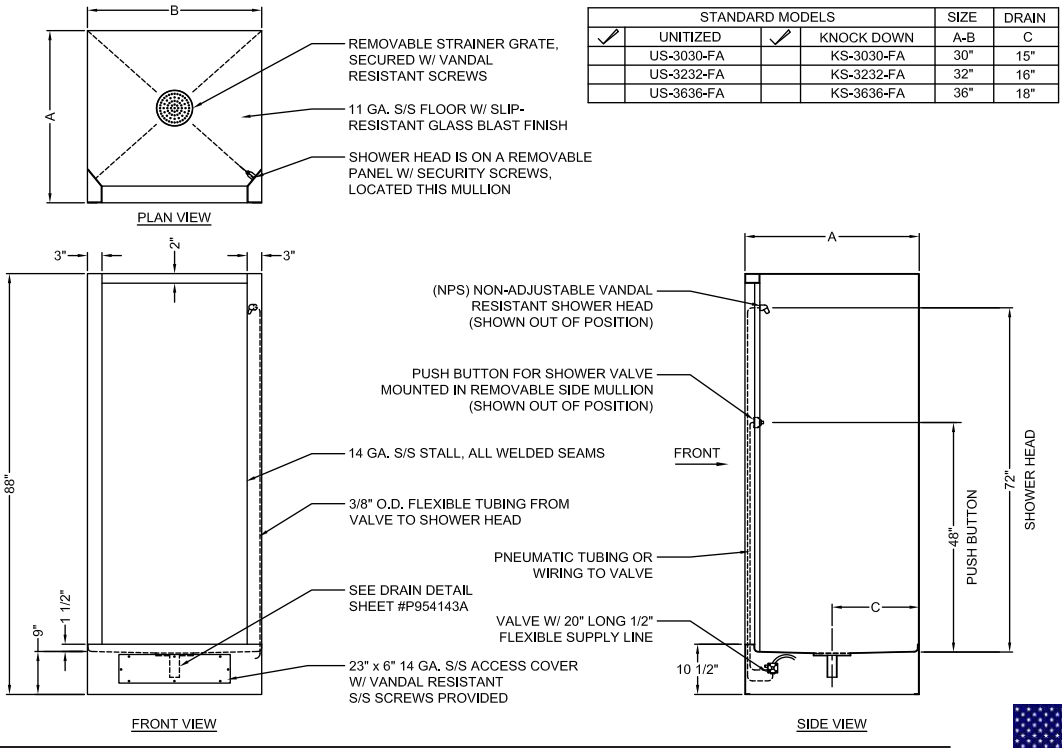
Ⓢ For security applications

Ⓤ Ligature-resistant option

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

STANDARD MODELS				SIZE	DRAIN
✓	UNITIZED	✓	KNOCK DOWN	A-B	C
	US-3030-FA		KS-3030-FA	30"	15"
	US-3232-FA		KS-3232-FA	32"	16"
	US-3636-FA		KS-3636-FA	36"	18"



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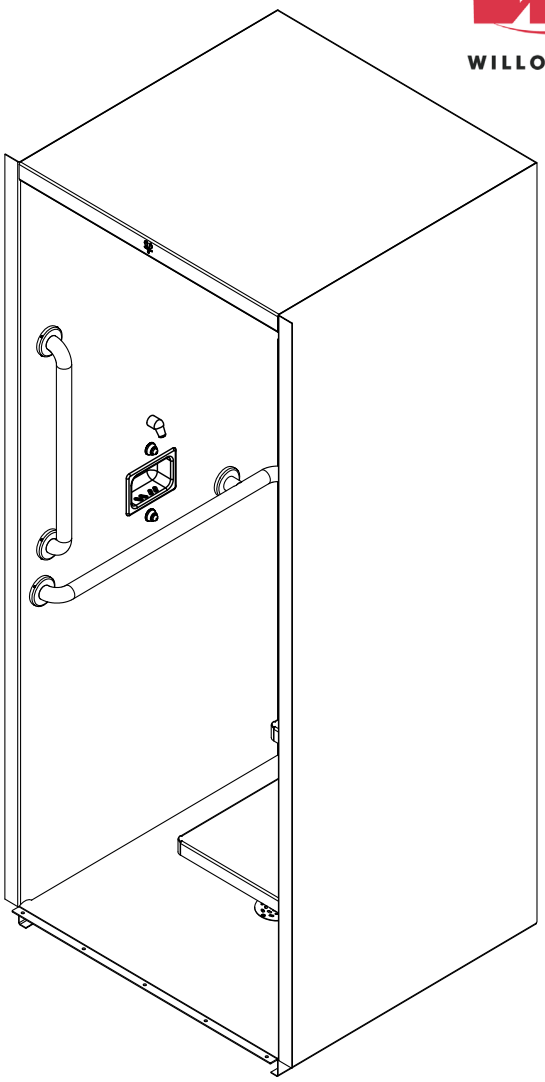
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ADA Compliant
Transfer Cabinet Shower



IN COMPLIANCE
WITH A.D.A. 2010

Recommended Specifications

ADA Compliant Transfer Cabinet Shower shall be:
Willoughby Model No. ___**S- 3636-HC**
(Select from model number and options list on next page)

Shower cabinet shall be fabricated from 14 gauge, Type 304 stainless steel. Shower floor shall be fabricated from 11 gauge, Type 304 stainless steel. The construction shall be ***all-welded*** (unitized models only, not applicable to knockdown models), exposed stainless surfaces polished to a #4 satin finish, except shower floor which shall have a non-slip glass blast finish.

Standard equipment shall include:
- (ICD) Inside caulk drain (2") with removable strainer
- (GB3318) 18" x 33" Horizontally-mounted L-shaped grab bar
- (GB24V) 24" Vertically-mounted grab bar
- (FSS) Fold-up stainless steel shower seat
-1/2" ADA Threshold with anchor holes

Underside of shower floor shall be sound deadened with fire resistant material.

Unit requires chase area for installation and maintenance.

Unit requires 2" recess in floor.

WaterSense Labeled for LRSH shower head.

Please provide shower finish schedule upon ordering.
(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a unitized 36" x 36" Handicap Cabinet Shower with left hand chase /shower head/valving, polished front, single temp. pneumatic metering valves, standard ligature-resistant pneumatic push buttons, 2.5 GPM flow rate, two non-adjustable penal shower heads, standard inside caulk drain, and recessed mounted soap dish.

Use the following Willoughby Model Number:
US-3636-HC-L-B3-PML1-MA2-PBH-2.5GPM-NPS-2HD-ICD-RD

The location of the showerhead within the cabinet shower could result in potential water spray outside of the shower compartment. It is highly recommended that a floor drain be utilized at or near the shower entrance. The floor drain is to be provided by others.

Fixture shall be free-standing, no anchoring required.

To specify Knockdown Cabinet Shower: Select the "KS" model number from the list on the Model Number and Options page.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

Unitized Handicap Cabinet Shower:

❑ US-3636-HC 36"L x 36"W Cabinet Shower

Knockdown Handicap Cabinet Shower:

❑ KS-3636-HC 36"L x 36"W Cabinet Shower

2.) Chase Wall/ Shower Head/Valve Orientation:

❑ L Left Hand (LCS- Left Chase)

❑ R Right Hand (RCS- Right Chase)

3.) Cabinet Side Exterior Finish Schedule:

(Based on Chase Wall Orientation; see the Options Pages at the end of Catalog Section for diagram)

For (LCS) Left Chase:

❑ B2 Polished Front & Right Side

❑ B3 Polished Front only

For (RCS) Right Chase:

❑ C2 Polished Front & Left Side

❑ C3 Polished Front only

4.) Valve Selection:

❑ NV No Valve

❑ PML1 Single Temp. Pneumatic Metering Ⓢ Ⓛ

❑ PML2 Dual Temp. Pneumatic Metering Ⓢ Ⓛ

❑ E1L1 Single Temp. Electronic (Pick Control)* Ⓢ Ⓛ

❑ E1L2 Dual Temp. Electronic (Pick Control)* Ⓢ Ⓛ

❑ PBV Pressure-Balancing Mixing Valve

❑ TPV Temp/Pressure-Balancing Mixing Valve

❑ TPLR Ligature-resistant Temp/Pressure-Balancing Mixing Valve Ⓛ

Valve Manifold Option:

Pneumatic or Electronic Valves Only:

(See the Manifold Option Page at the end of Catalog Section S5 for further information)

❑ MA2

5.) Diverter Valve:

❑ DV Diverter Valve

❑ DVLR Ligature-resistant Diverter Valve Ⓛ

❑ PML1-MA2 Two Single Temp. Pneumatic Metering Valves in Lieu of Diverter Valve Ⓛ

6.) Push Button Selection:

Pneumatic or Electronic Valves Only:

❑ PBH Ligature-resistant Pneumatic Push Buttons Ⓢ Ⓛ

❑ PZPB Ligature-resistant Piezo Electronic Push Buttons* Ⓢ Ⓛ

7.) Flow Rates:

❑ 2.5 GPM (Standard)

❑ 2.0 GPM

❑ 1.5 GPM

8.) Electronic Controls*
(Must Use Electronic Push Button):

❑ WUSC-2200 ❑ WUSC-2400

❑ Pneutronic ❑ WMS II

9.) Shower Head Selection:

❑ NPS Non-adjustable Penal Shower Head Ⓢ

❑ FX Hand Held Flexshower w/ Quick Disconnect and Vacuum Breaker

❑ APS Adjustable Penal Shower Head

❑ CSH Ligature-resistant Shower Head Ⓢ Ⓛ

❑ 2HD (2) Fixed Shower Heads, Replaces (FX) Ⓢ

❑ LRSH Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate Ⓛ

10.) Drain Selection:

❑ ICD Inside Caulk Cabinet Shower Drain (2") (Standard)

10.) Options:

❑ VG Ventilation Grille (Specify Free Area and Location; Standard Grille Dimensions: 8-3/4" x 8-3/4" with 15-3/4 in^2 open area)

❑ CP Closure Panels (Specify Dimensions and Locations)

❑ STC Sloping Top Closure

❑ MD__ Modesty Door (Not ADA-Compliant)

❑ L Hinged Left

❑ R Hinged Right

❑ CR Curtain Rod

❑ TH1 Release Towel Hook Ⓢ Ⓛ

❑ GBC Grab Bar Closure Plate Ⓢ Ⓛ

❑ RD Recessed Mounted Soap Dish Ⓢ Ⓛ

❑ SD Surface Mounted Soap Dish

❑ TMV In-line Thermostatic Mixing Valve

❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*

❑ TF24P Plug-in Transformer, 110VAC to 24VAC*

❑ LFSS Less Fold-up Stainless Steel Shower Seat (NOTE: FSS Fold-up Shower Seat is required for ADA Compliance)

❑ LGB3318 Less 18" x 33" Horizontally-mounted L-Shaped Grab Bar

❑ LGB24V Less 24" Vertically-mounted Grab Bar

❑ LRD5 5" Ligature-resistant Drain Cover Ⓛ

❑ Other _____

❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Ⓢ For security applications

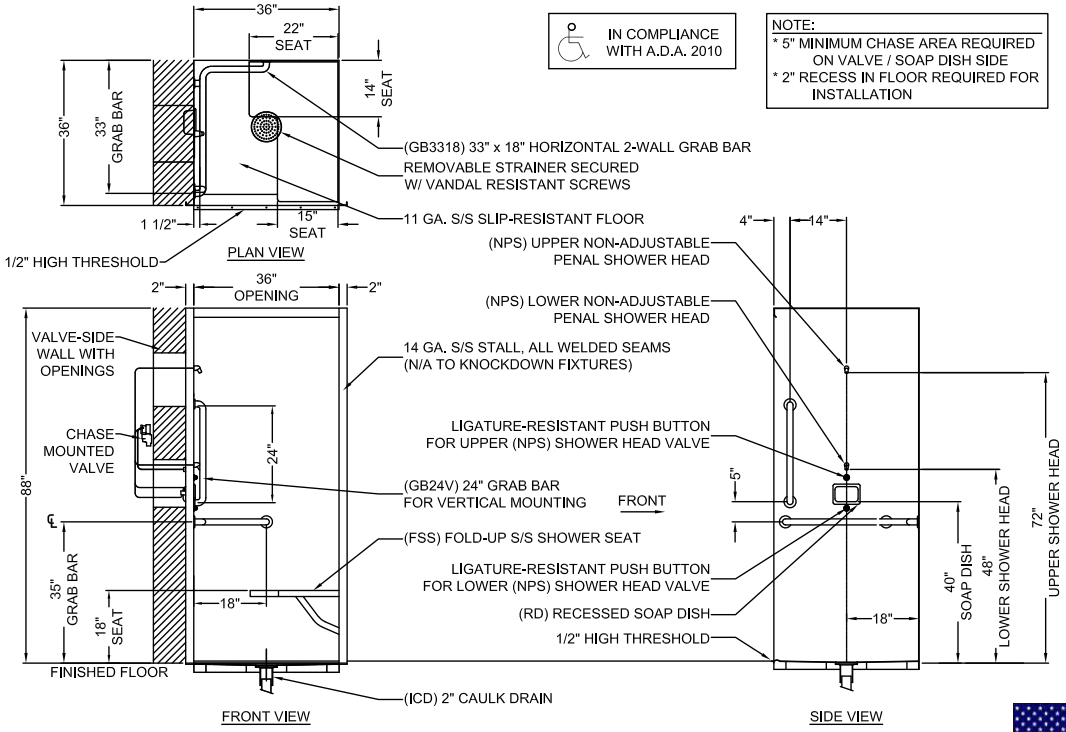
Ⓛ Ligature-resistant option

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

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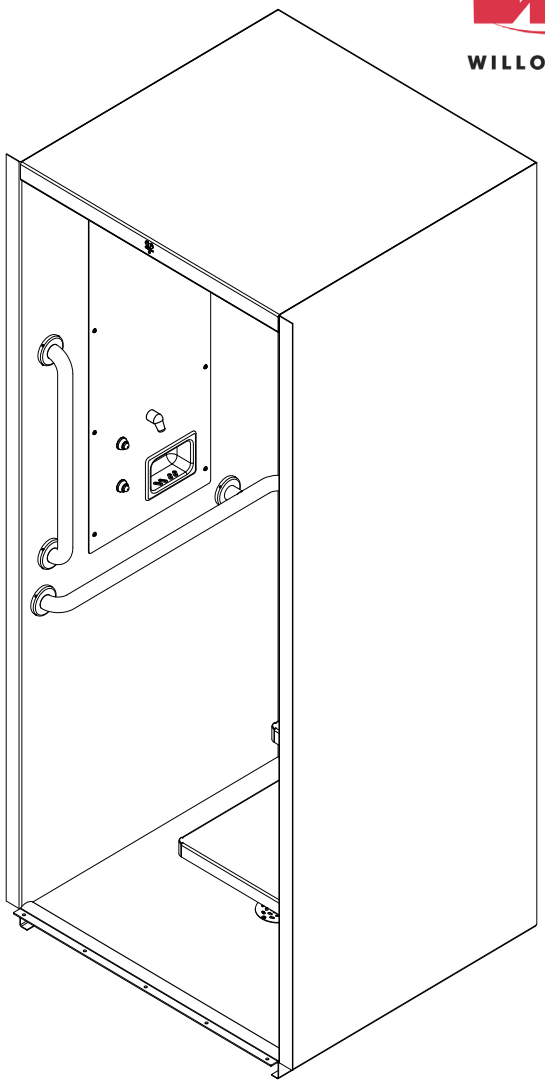
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ADA Compliant
Front Access
Transfer Cabinet Shower



IN COMPLIANCE
WITH A.D.A. 2010

Recommended Specifications

ADA Compliant Front Access Transfer Cabinet Shower shall be: Willoughby Model No.___**S- 3636-HC-FA**
(Select from model number and options list on next page)

Shower cabinet shall be fabricated from 14 gauge, Type 304 stainless steel. Shower floor shall be fabricated from 11 gauge, Type 304 stainless steel. The construction shall be ***all-welded*** (unitized models only, not applicable to knockdown models),exposed stainless surfaces polished to a #4 satin finish, except shower floor which shall have a non-slip glass blast finish.

Standard equipment shall include:
- (ICD) Inside caulk drain (2") with removable strainer
- (GB3318) 18" x 33" Horizontally-mounted L-shaped grab bar
- (GB24V) 24" Vertically-mounted grab bar
- (FSS) Fold-up stainless steel shower seat
-1/2" ADA Threshold with anchor holes

Unit requires no chase area for installation and maintenance. Shower valve and shower head shall be mounted on removable access panel secured with security screws.

Underside of shower floor shall be sound deadened with fire resistant material.

Unit requires 2" recess in floor.

WaterSense Labeled for LRSH shower head.

Please provide shower finish schedule upon ordering.
(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a unitized 36" x 36" Front Access Handicap Cabinet Shower with left hand shower head/push button/valving, polished front, single temp. pneumatic metering valves, standard ligature-resistant pneumatic push buttons, 2.5 GPM flow rate, two non-adjustable penal shower heads, standard inside caulk drain, and recessed mounted soap dish

Use the following Willoughby Model Number:
US-3636-HC-FA-L-B3-PML1-MA2-PBH-2.5GPM-NPS-2HD-ICD-RD

The location of the showerhead within the cabinet shower could result in potential water spray outside of the shower compartment. It is highly recommended that a floor drain be utilized at or near the shower entrance. The floor drain is to be provided by others.

Fixture shall be free-standing, no anchoring required.

To specify Knockdown Cabinet Shower: Select the "KS" model number from the list on the Model Number and Options page.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

Unitized Handicap Front Access Cabinet Shower:

❑ US-3636-HC-FA 36"L x 36"W Cabinet Shower

Knockdown Handicap Front Access Cabinet Shower:

❑ KS-3636-HC-FA 36"L x 36"W Cabinet Shower

2.) Shower Head/Push Button/Valve Orientation:

❑ L Left Hand
❑ R Right Hand

3.) Cabinet Side Exterior Finish Schedule:

(Based on Chase Wall Orientation; see the Options Pages at the end of Catalog Section for diagram))

For (LCS) Left Wall:

❑ B2 Polished Front & Right Side
❑ B3 Polished Front only

For (RCS) Right Wall:

❑ C2 Polished Front & Left Side
❑ C3 Polished Front only

4.) Valve Selection:

❑ NV No Valve
❑ PML1 Single Temp. Pneumatic Metering Ⓢ Ⓤ
❑ PML2 Dual Temp. Pneumatic Metering Ⓢ Ⓤ
❑ E1L1 Single Temp. Electronic (Pick Control)* Ⓢ Ⓤ
❑ E1L2 Dual Temp. Electronic (Pick Control)* Ⓢ Ⓤ
❑ PBV Pressure-Balancing Mixing Valve
❑ TPV Temp/Pressure-Balancing Mixing Valve
❑ TPLR Ligature-resistant Temp/Pressure-Balancing Mixing Valve Ⓤ

Valve Manifold Option:

Pneumatic or Electronic Valves Only:

(See the Manifold Option Page at the end of Catalog Section S5 for further information)

❑ MA2

5.) Diverter Valve:

❑ DV Diverter Valve
❑ DVLR Ligature-resistant Diverter Valve Ⓤ
❑ PML1-MA2 Two Single Temp. Pneumatic Metering Valves in Lieu of Diverter Valve Ⓤ

6.) Push Button Selection:

Pneumatic or Electronic Valves Only:

❑ PBH Ligature-resistant Pneumatic Push Buttons Ⓢ Ⓤ
❑ PZPB Ligature-resistant Piezo Electronic Push Buttons* Ⓢ Ⓤ

7.) Flow Rates:

❑ 2.5 GPM (Standard)
❑ 2.0 GPM
❑ 1.5 GPM

8.) Electronic Controls*

(Must Use Electronic Push Button):

❑ WUSC-2200 ❑ WUSC-2400
❑ Pneutronic ❑ WMS II

9.) Shower Head Selection:

❑ NPS Non-adjustable Penal Shower Head Ⓢ
❑ FX Hand Held Flexshower w/ Quick Disconnect and Vacuum Breaker
❑ APS Adjustable Penal Shower Head
❑ CSH Ligature-resistant Shower Head Ⓢ Ⓤ
❑ 2HD (2) Fixed Shower Heads, Replaces (FX) Ⓢ
❑ LRSH Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate Ⓤ

10.) Drain Selection:

❑ ICD Inside Caulk Cabinet Shower Drain (2") (Standard)

11.) Options:

❑ VG Ventilation Grille (Specify Free Area and Location; Standard Grille Dimensions: 8-3/4" x 8-3/4" with 15-3/4 in^2 open area)
❑ CP Closure Panels (Specify Dimensions and Locations)
❑ STC Sloping Top Closure
❑ MD__ Modesty Door (Not ADA-Compliant)
  ❑ L Hinged Left
  ❑ R Hinged Right
❑ CR Curtain Rod
❑ TH1 Release Towel Hook Ⓢ Ⓤ
❑ GBC Grab Bar Closure Plate Ⓢ Ⓤ
❑ RD Recessed Mounted Soap Dish Ⓢ Ⓤ
❑ SD Surface Mounted Soap Dish
❑ TMV In-line Thermostatic Mixing Valve
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ LFSS Less Fold-up Stainless Steel Shower Seat (NOTE: FSS Fold-up Shower Seat is required for ADA Compliance)
❑ LGB3318 Less 18" x 33" Horizontally-mounted L-Shaped Grab Bar
❑ LGB24V Less 24" Vertically-mounted Grab Bar
❑ LRD5 5" Ligature-resistant Drain Cover Ⓤ
❑ Other _____
❑ Other _____

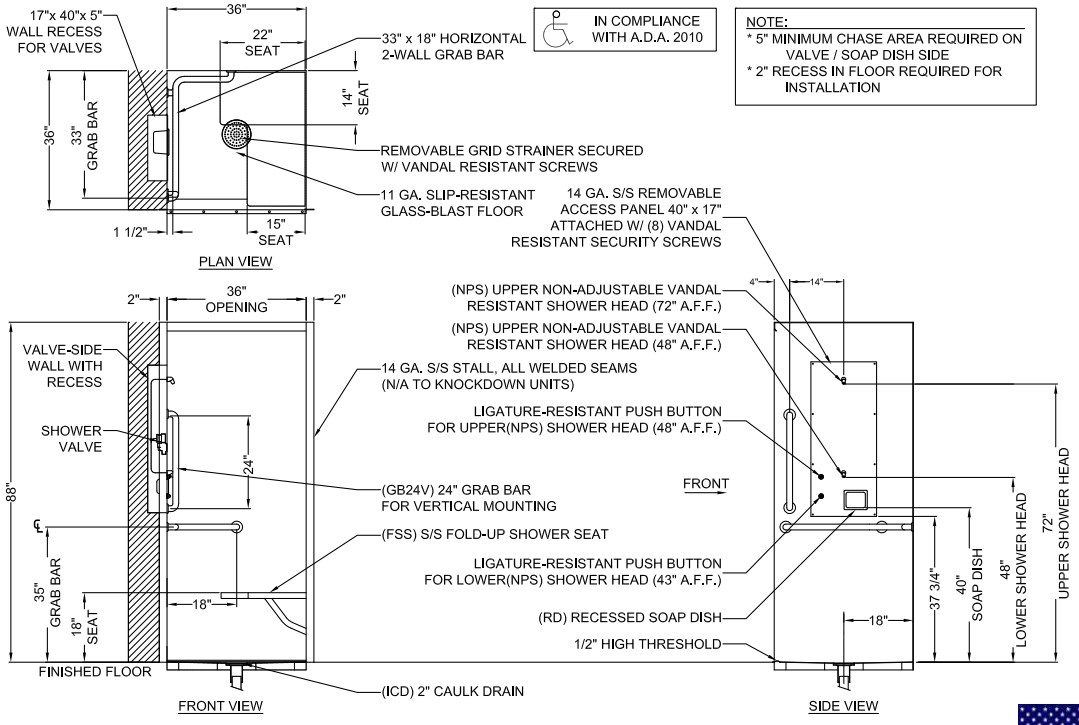
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Ⓢ For security applications

Ⓤ Ligature-resistant option

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____



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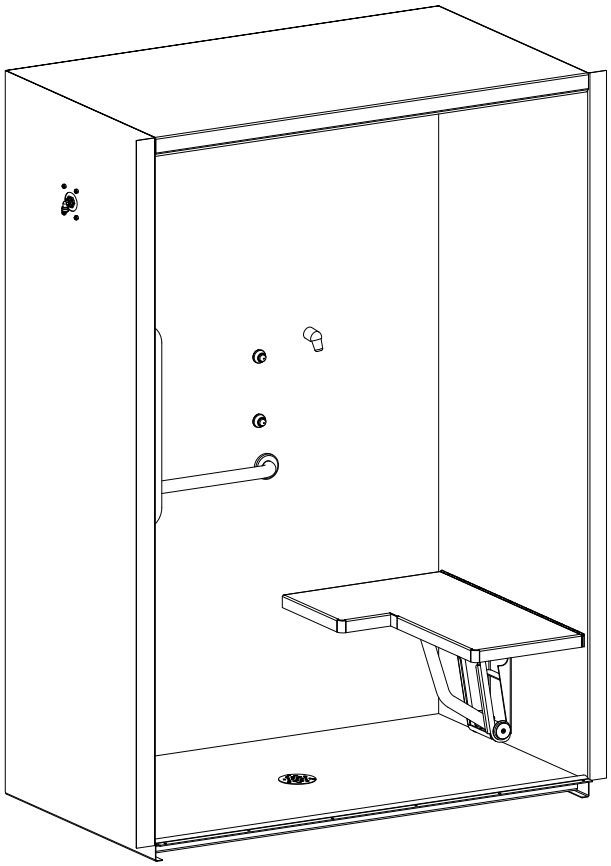
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ADA Compliant
Roll-In Cabinet Shower



IN COMPLIANCE
WITH A.D.A. 2010**

Recommended Specifications

Roll-In Front Access Handicap Cabinet Shower shall be:
Willoughby Model No. ___**S-3660-HC**
(Select from model number and options list on next page)

Shower cabinet shall be fabricated from 14 GA., Type 304 stainless steel. Shower floor shall be fabricated from 11 GA., Type 304 stainless steel. The construction shall be ***all-welded*** (unitized models only, not applicable to knockdown models), exposed stainless surfaces polished to a #4 satin finish, except shower floor which shall have a non-slip glass blast finish.

Standard equipment shall include:
- (ICD) Inside caulk drain (2") with removable strainer
- (GB24) 24" Horizontally-mounted grab bar
- (GB30) 30" Horizontally-mounted grab bar
- (GB24V) 24" Vertically-mounted grab bar
- (FSS) Fold-up stainless steel shower seat
-1/2" ADA Threshold with anchor holes
Unit requires chase area for installation and maintenance.

Underside of shower floor shall be sound deadened with fire resistant material.

Unit requires 2" recess in floor.

WaterSense Labeled for LRSH shower head.

Please provide shower finish schedule upon ordering.
(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a unitized 36" x 60" Roll-In Handicap Cabinet Shower with ADA-Compliant back wall chase/shower head/valving, polished front, single temp. pneumatic metering valves, standard ligature-resistant pneumatic push buttons, 2.5 GPM flow rate, two non-adjustable penal shower heads, and standard inside caulk drain

Use the following Willoughby Model Number:
US-3660-HC-B-A4-PML1-MA2-PBH-2.5GPM-NPS-2DH-ICD

The location of the showerhead within the cabinet shower could result in potential water spray outside of the shower compartment. It is highly recommended that a floor drain be utilized at or near the shower entrance. The floor drain is to be provided by others.

Fixture shall be free-standing, no anchoring required.

To specify Knockdown Cabinet Shower: Select the "KS" model number from the list on the Model Number and Options page.

****NOTE:** US/KS-3660-HC is in compliance with ADA 2010 standards when equipped with valve controls mounted on the Back Wall of the fixture, adjacent to the Fold-up Shower Seat. (Contact your Willoughby representative for further details.)

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

Unitized Roll-in Handicap Cabinet Shower:

❑ US-3660-HC 36"L x 60"W Cabinet Shower

Knockdown Roll-in Handicap Cabinet Shower:

❑ KS-3660-HC 36"L x 60"W Cabinet Shower

2.) ADA Shower Head/Push Button/Valve Orientation*:

❑ L Left Hand, Back Wall

❑ R Right Hand, Back Wall

3.) Cabinet Side Exterior Finish Schedule:

(For Back Wall ADA Comp.)

❑ A1 Polished Front, Left Side, & Right Side

❑ A2 Polished Front & Right Side

❑ A3 Polished Front & Left Side

❑ A4 Polished Front only

4.) Valve Selection:

❑ NV No Valve

❑ PML1 Single Temp. Pneumatic Metering Ⓢ Ⓤ

❑ PML2 Dual Temp. Pneumatic Metering Ⓢ Ⓤ

❑ E1L1 Single Temp. Electronic (Pick Control)** Ⓢ Ⓤ

❑ E1L2 Dual Temp. Electronic (Pick Control)** Ⓢ Ⓤ

❑ PBV Pressure-Balancing Mixing Valve

❑ TPV Temp/Pressure-Balancing Mixing Valve

❑ TPLR Ligature-resistant Temp/Pressure-Balancing Mixing Valve Ⓤ

Valve Manifold Option:

Pneumatic or Electronic Valves Only:

(See the Manifold Option Page at the end of Catalog Section S5 for further information)

❑ MA2

5.) Diverter Valve:

❑ DV Diverter Valve

❑ DVLR Ligature-resistant Diverter Valve Ⓤ

❑ PML1-MA2 Two Single Temp. Pneumatic Ⓤ Metering Valves in Lieu of Diverter Valve

6.) Push Button Selection:

Pneumatic or Electronic Valves Only:

❑ PBH Ligature-resistant Pneumatic Push Buttons Ⓢ Ⓤ

❑ PZPB Ligature-resistant Piezo Electronic Push Buttons* Ⓢ Ⓤ

7.) Flow Rates:

❑ 2.5 GPM (Standard)

❑ 2.0 GPM

❑ 1.5 GPM

8.) Electronic Controls**

(Must Use Electronic Push Button):

❑ WUSC-2200 ❑ WUSC-2400

❑ Pneutronic ❑ WMS II

9.) Shower Head Selection:

❑ NPS Non-adjustable Penal Shower Head (Stnd.) Ⓢ

❑ FX Hand Held Flexshower w/ Quick Disconnect and Vacuum Breaker (Standard)

❑ APS Adjustable Penal Shower Head

❑ CSH Ligature-resistant Shower Head Ⓢ Ⓤ

❑ 2HD (2) Fixed Shower Heads, Replaces (FX) Ⓢ

❑ LRSH Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate Ⓤ

10.) Drain Selection:

❑ ICD Inside Caulk Cabinet Shower Drain (2") (Standard)

11.) Options:

❑ VG Ventilation Grille (Specify Free Area and Location; Standard Grille Dimensions: 8-3/4" x 8-3/4" with 15-3/4 in^2 open area)

❑ CP Closure Panels (Specify Dimensions and Locations)

❑ STC Sloping Top Closure

❑ CR Curtain Rod

❑ TH1 Release Towel Hook Ⓢ Ⓤ

❑ GBC Grab Bar Closure Plates Ⓢ Ⓤ

❑ RD Recessed Mounted Soap Dish Ⓢ Ⓤ

❑ SD Surface Mounted Soap Dish

❑ TMV In-line Thermostatic Mixing Valve

❑ TF24H Hard-wired Transformer, 110VAC to 24VAC**

❑ TF24P Plug-in Transformer, 110VAC to 24VAC**

❑ LFSS Less Fold-up Stainless Steel Shower Seat (NOTE: In lieu of seat, (1) centered 48" back-wall grab bar and (2) centered 24" side-wall grab bars will be included for ADA compliance)

❑ LRD5 5" Ligature-resistant Drain Cover Ⓤ

❑ Other _____

❑ Other _____

***NOTE:** US/KS-3660-HC is in compliance with ADA 2010 standards when equipped with valve controls mounted on the back wall of the fixture, adjacent to the fold-up shower seat. (Specify when ordering, contact your Willoughby representative for further details.)

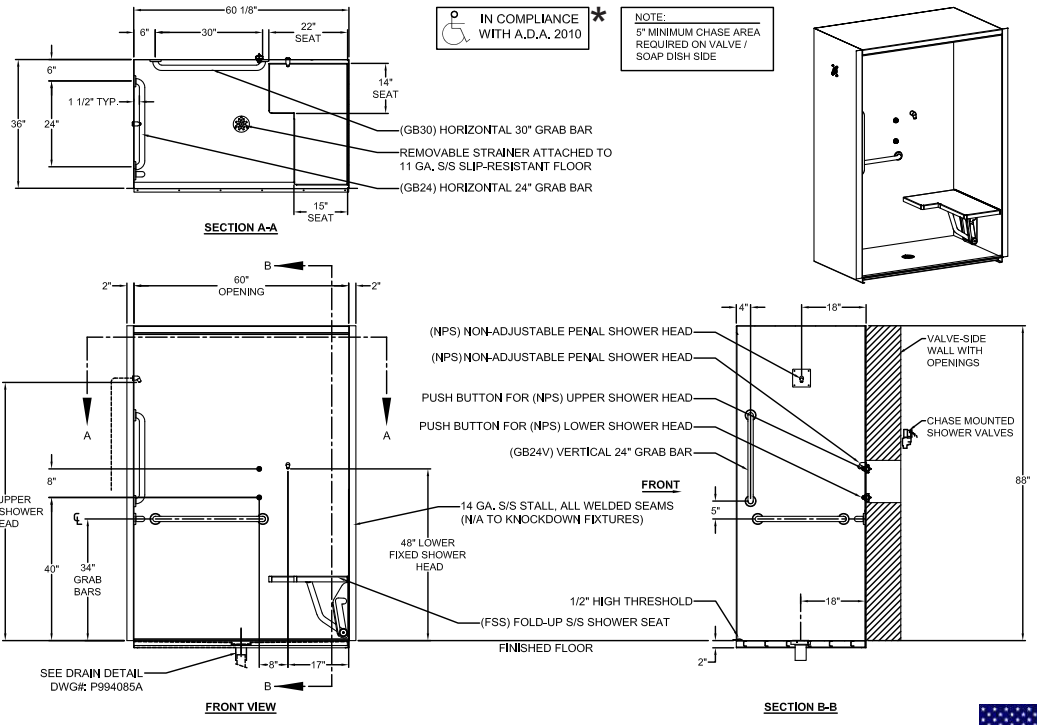
**(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Ⓢ For security applications

Ⓤ Ligature-resistant option

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____



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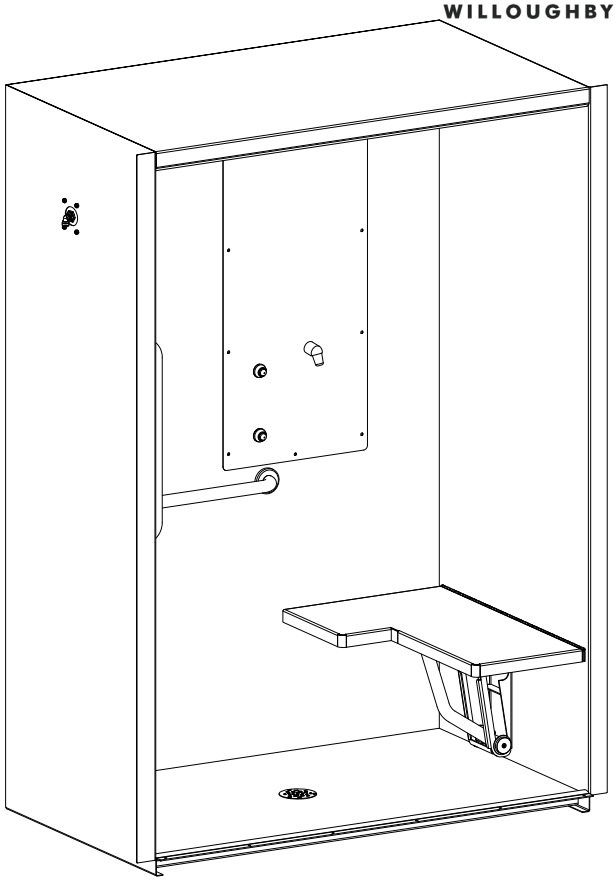
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ADA Compliant Front Access Roll-In Cabinet Shower



Please provide shower finish schedule upon ordering.
(Unit may be shown with optional features)

IN COMPLIANCE WITH A.D.A. 2010**

Recommended Specifications

Roll-In Front Access Handicap Cabinet Shower shall be:
Willoughby Model No. ___**S-3660-HC-FA**
(Select from model number and options list on next page)

Shower cabinet shall be fabricated from 14 GA., Type 304 stainless steel. Shower floor shall be fabricated from 11 GA., Type 304 stainless steel. The construction shall be ***all-welded*** (unitized models only, not applicable to knockdown models), exposed stainless surfaces polished to a #4 satin finish, except shower floor which shall have a non-slip glass blast finish.

Standard equipment shall include:
- (ICD) Inside caulk drain (2") with removable strainer
- (GB24) 24" Horizontally-mounted grab bar
- (GB30) 30" Horizontally-mounted grab bar
- (GB24V) 24" Vertically-mounted grab bar
- (FSS) Fold-up stainless steel shower seat
-1/2" ADA Threshold with anchor holes

Unit requires no chase area for installation and maintenance. Shower valve and shower head shall be mounted on removable access panel secured with security screws.

Underside of shower floor shall be sound deadened with fire resistant material.

Unit requires 2" recess in floor.

WaterSense Labeled for LRSH shower head.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a unitized 36" x 60" Roll-In Front Access Handicap Cabinet Shower with ADA-Compliant back wall shower head/push button/valving, polished front, single temp. pneumatic metering valves, standard ligature-resistant pneumatic push buttons, 2.5 GPM flow rate, two non-adjustable penal shower heads, and standard inside caulk drain

Use the following Willoughby Model Number:
US-3660-HC-FA-B-A4-PML1-MA2-PBH-2.5GPM-NPS-2HD-ICD

The location of the showerhead within the cabinet shower could result in potential water spray outside of the shower compartment. It is highly recommended that a floor drain be utilized at or near the shower entrance. The floor drain is to be provided by others.

Fixture shall be free-standing, no anchoring required.

To specify Knockdown Cabinet Shower: Select the "KS" model number from the list on the Model Number and Options page.

****NOTE:** US/KS-3660-HC-FA is in compliance with ADA 2010 standards when equipped with valve controls mounted on the Back Wall of the fixture, adjacent to the Fold-up Shower Seat. (Contact your Willoughby representative for further details.)

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

Unitized Roll-in Handicap Front Access Cabinet Shower:

❑ US-3660-HC-FA 36"L x 60"W Cabinet Shower

Knockdown Roll-in Handicap Front Access Cabinet Shower:

❑ KS-3660-HC-FA 36"L x 60"W Cabinet Shower

2.) ADA Shower Head/Push Button/Valve Orientation*:

❑ L Left Hand, Back Wall
❑ R Right Hand, Back Wall

3.) Cabinet Side Exterior Finish Schedule:

(For Back Wall ADA Comp.)

❑ A1 Polished Front, Left Side, & Right Side
❑ A2 Polished Front & Right Side
❑ A3 Polished Front & Left Side
❑ A4 Polished Front only

4.) Valve Selection:

❑ NV No Valve
❑ PML1 Single Temp. Pneumatic Metering Ⓢ Ⓛ
❑ PML2 Dual Temp. Pneumatic Metering Ⓢ Ⓛ
❑ E1L1 Single Temp. Electronic (Pick Control)** Ⓢ Ⓛ
❑ E1L2 Dual Temp. Electronic (Pick Control)** Ⓢ Ⓛ
❑ PBV Pressure-Balancing Mixing Valve
❑ TPV Temp/Pressure-Balancing Mixing Valve
❑ TPLR Ligature-resistant Temp/Pressure-Balancing Mixing Valve Ⓛ

Valve Manifold Option:

Pneumatic or Electronic Valves Only:

(See the Manifold Option Page at the end of Catalog Section S5 for further information)

❑ MA2

5.) Diverter Valve:

❑ DV Diverter Valve
❑ DVLR Ligature-resistant Diverter Valve Ⓛ
❑ PML1-MA2 Two Single Temp. Pneumatic Metering Valves in Lieu of Diverter Valve Ⓛ

6.) Push Button Selection:

Pneumatic or Electronic Valves Only:

❑ PBH Ligature-resistant Pneumatic Push Buttons Ⓢ Ⓛ
❑ PZPB Ligature-resistant Piezo Electronic Push Buttons* Ⓢ Ⓛ

7.) Flow Rates:

❑ 2.5 GPM (Standard)
❑ 2.0 GPM
❑ 1.5 GPM

8.) Electronic Controls
(Must Use Electronic Push Button):

❑ WUSC-2200 ❑ WUSC-2400
❑ Pneutronic ❑ WMS II

9.) Shower Head Selection:

❑ NPS Non-adjustable Penal Shower Head (Stnd.) Ⓢ
❑ FX Hand Held Flexshower w/ Quick Disconnect and Vacuum Breaker (Standard)
❑ APS Adjustable Penal Shower Head
❑ CSH Ligature-resistant Shower Head Ⓢ Ⓛ
❑ 2HD (2) Fixed Shower Heads, Replaces (FX) Ⓢ
❑ LRSH Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate Ⓛ

10.) Drain Selection:

❑ ICD Inside Caulk Cabinet Shower Drain (2") (Standard)

11.) Options:

❑ VG Ventilation Grille (Specify Free Area and Location; Standard Grille Dimensions: 8-3/4" x 8-3/4" with 15-3/4 in^2 open area)
❑ CP Closure Panels (Specify Dimensions and Locations)
❑ STC Sloping Top Closure
❑ CR Curtain Rod
❑ TH1 Release Towel Hook Ⓢ Ⓛ
❑ GBC Grab Bar Closure Plates Ⓢ Ⓛ
❑ RD Recessed Mounted Soap Dish Ⓢ Ⓛ
❑ SD Surface Mounted Soap Dish
❑ TMV In-line Thermostatic Mixing Valve
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC**
❑ TF24P Plug-in Transformer, 110VAC to 24VAC**
❑ LFSS Less Fold-up Stainless Steel Shower Seat (NOTE: In lieu of seat, (1) centered 48" back-wall grab bar and (2) centered 24" side-wall grab bars will be included for ADA compliance)
❑ LRD5 5" Ligature-resistant Drain Cover Ⓛ
❑ Other _____
❑ Other _____

***NOTE:** US/KS-3660-HC-FA is in compliance with ADA 2010 standards when equipped with valve controls mounted on the back wall of the fixture, adjacent to the fold-up shower seat. (Specify when ordering, contact your Willoughby representative for further details.)

**(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Ⓢ For security applications

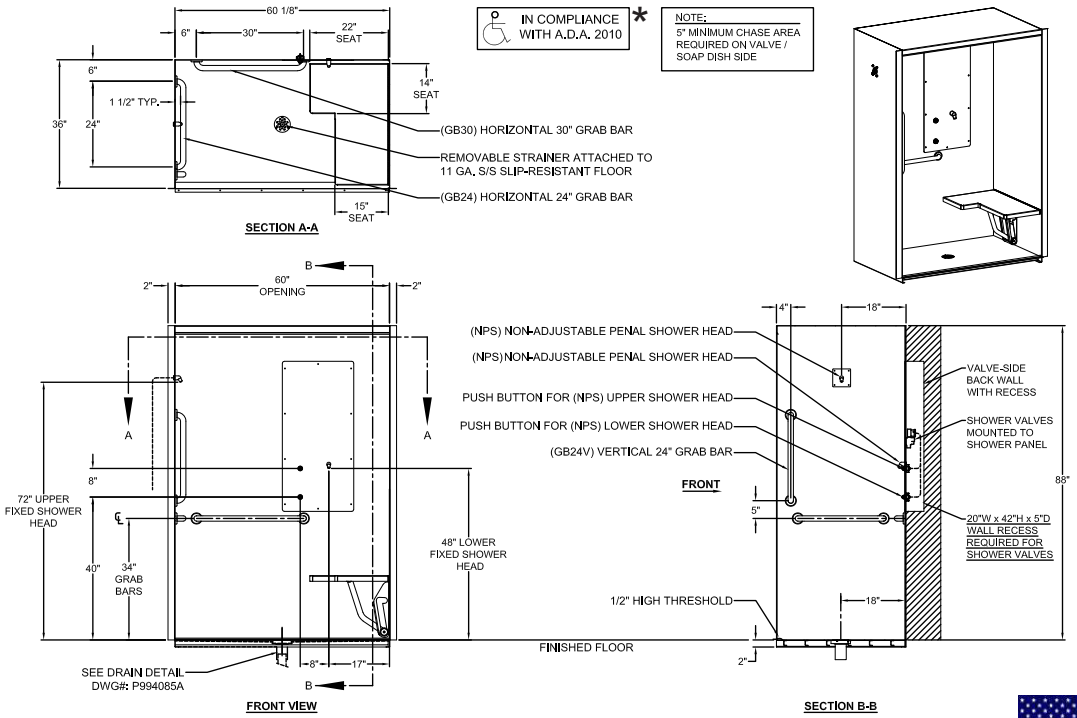
Ⓛ Ligature-resistant option

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

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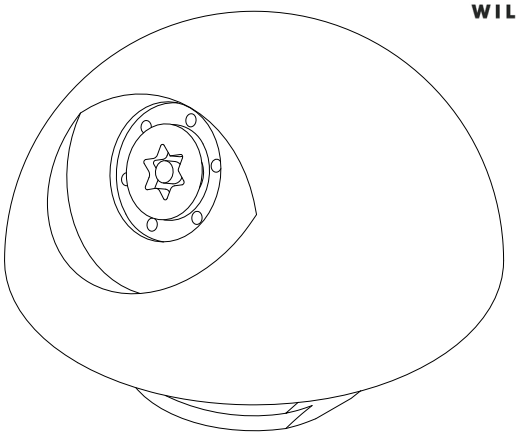
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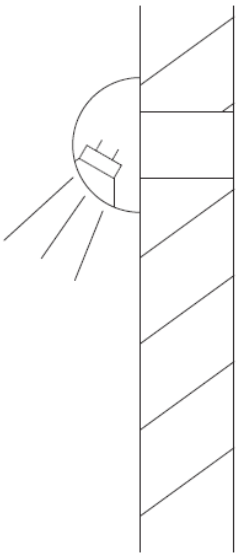
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CSH Ligature-resistant Vandal Resistant Shower Head (#380069A)



(Unit may be shown with optional features)



Recommended Specifications

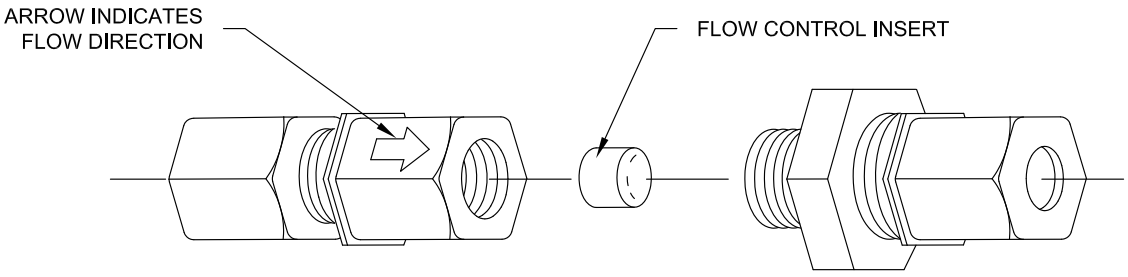
Willoughby model CSH ligature-resistant, vandal resistant shower head shall be fixed type, constructed of Type 303 stainless steel, mounted from the rear with no visible fasteners, and shall have a 30° angle of spray through a Delrin insert, retained by a stainless steel Pin-Torx security screw. The head shall have 3/8" F.I.P. threads on the inlet. The entire unit has a ligature-resistant rounded and tapered design.

OPTIONS:

❑ CSH17 17° angle of spray (#380024)

❑ 2.5 2.5 Flow (Standard)
❑ 2.0 2.0 In-line Flow Control
(See detail below; tubing must be 3/8" O.D. polyethylene)
❑ 1.5 1.5 In-line Flow Control
(See detail below; tubing must be 3/8" O.D. polyethylene)

PART #380142-XX (SPECIFY FLOW)
IN-LINE FLOW CONTROL ASSEMBLY



WARNING: Cancer and Reproductive Harm
- www.P65Warnings.ca.gov

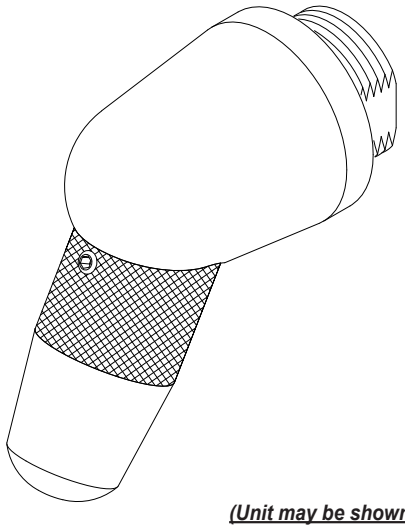
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APS (WSH-5D) User Adjustable Vandal Resistant Shower Head (#380025)



(Unit may be shown with optional features)

Recommended Specifications

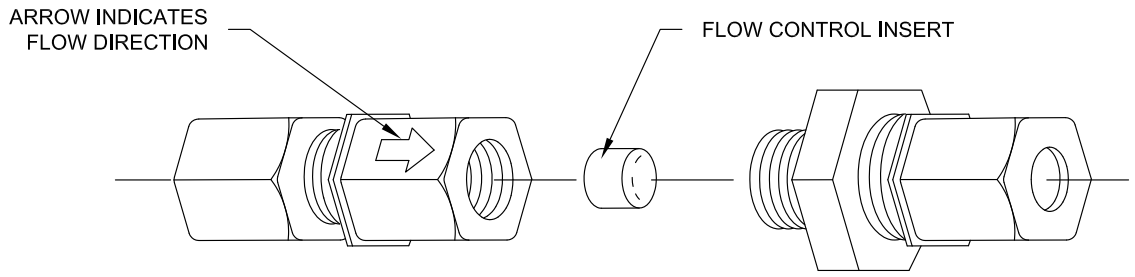
Willoughby model APS (WSH-5D) user adjustable, vandal resistant shower head shall be fixed type, constructed of Type 303 stainless steel, mounted from the rear with no visible fasteners or removable parts, and shall have a 30° angle of spray. The head shall have 3/8" F.I.P. threads on the inlet. The entire unit has a ligature-resistant rounded and tapered design. Spray pattern is adjustable by the user.

OPTIONS:

❑ APS17 17° angle of spray (#380026)

❑ 2.5 2.5 Flow (Standard)
❑ 2.0 2.0 In-line Flow Control
(See detail below; tubing must be 3/8" O.D. polyethylene)
❑ 1.5 1.5 In-line Flow Control
(See detail below; tubing must be 3/8" O.D. polyethylene)

PART #380142-XX (SPECIFY FLOW)
IN-LINE FLOW CONTROL ASSEMBLY



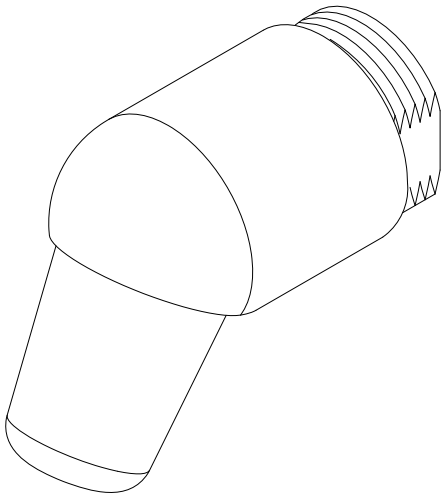
WARNING: Cancer and Reproductive Harm
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NPS (WSH-7) Non-Adjustable Vandal Resistant Shower Head (#370098)



(Unit may be shown with optional features)

Recommended Specifications

Willoughby model NPS (WSH-7) non-adjustable, vandal resistant shower head shall be fixed type, constructed of Type 303 stainless steel, mounted from the rear with no visible fasteners or removable parts, and shall have a fixed 30° angle of spray with an adjustable pattern. The head shall have 3/8" F.I.P. threads on the inlet.

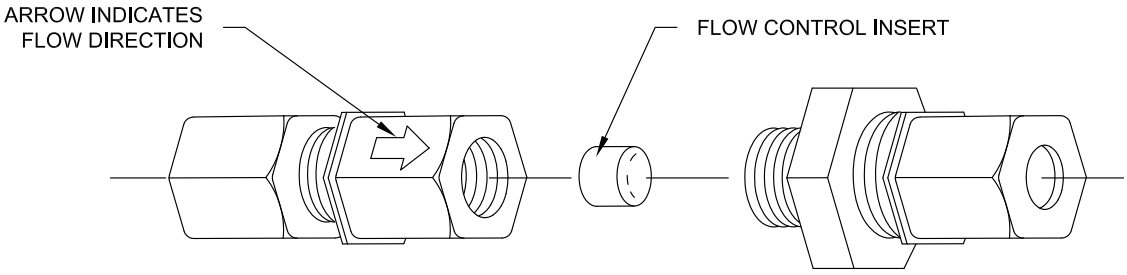
The shower head is non-adjustable from the user side. To adjust shower nozzle spray pattern, insert a 1/8" Allen wrench through the nozzle orifice when shower is not in use, and turn counterclockwise to widen spray pattern or clockwise to narrow the spray pattern.

OPTIONS:

❑ NPS17 17° angle of spray (#380011)

❑ 2.5 2.5 Flow (Standard)
❑ 2.0 2.0 In-line Flow Control
(See detail below; tubing must be 3/8" O.D. polyethylene)
❑ 1.5 1.5 In-line Flow Control
(See detail below; tubing must be 3/8" O.D. polyethylene)

PART #380142-XX (SPECIFY FLOW)
IN-LINE FLOW CONTROL ASSEMBLY



WARNING: Cancer and Reproductive Harm
- www.P65Warnings.ca.gov

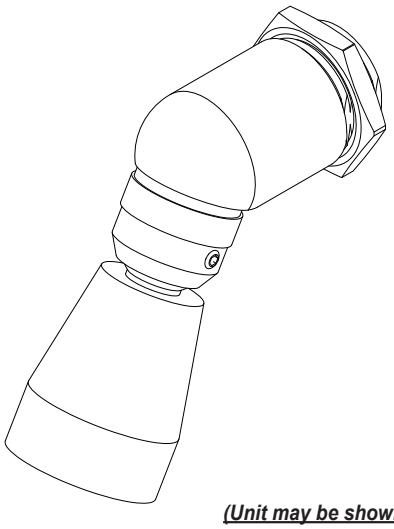
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Willoughby Industries - *Security Products*

LBJ
Lockable Ball Joint
Shower Head
(#380028)



(Unit may be shown with optional features)

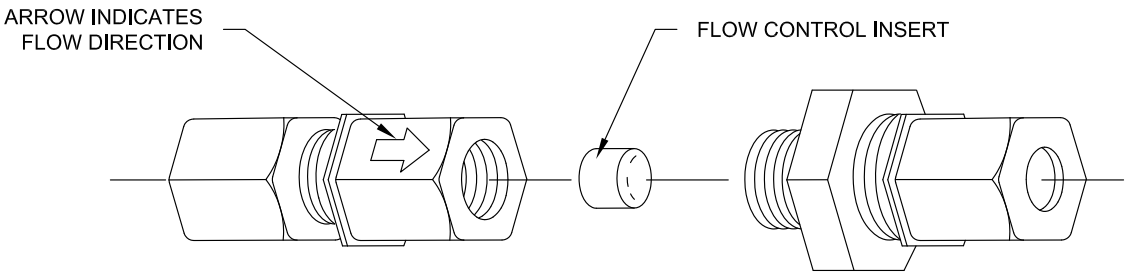
Recommended Specifications

Willoughby model LBJ lockable ball joint shower head shall be fixed type, constructed of chrome-plated brass, mounted from the rear with no visible fasteners or removable parts. The head shall have 3/8" F.I.P. threads on the inlet. The shower head spray direction can be locked in position using the recessed set screw.

OPTIONS:

- ❑ 2.5 2.5 Flow (Standard)
- ❑ 2.0 2.0 In-line Flow Control
  (See detail below; tubing must be 3/8" O.D. polyethylene)
- ❑ 1.5 1.5 In-line Flow Control
  (See detail below; tubing must be 3/8" O.D. polyethylene)

PART #380142-XX (SPECIFY FLOW)
IN-LINE FLOW CONTROL ASSEMBLY



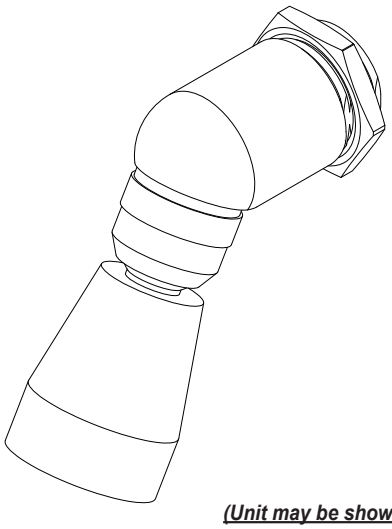
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UBJ
Universal Ball Joint
Shower Head
(#380027)



(Unit may be shown with optional features)

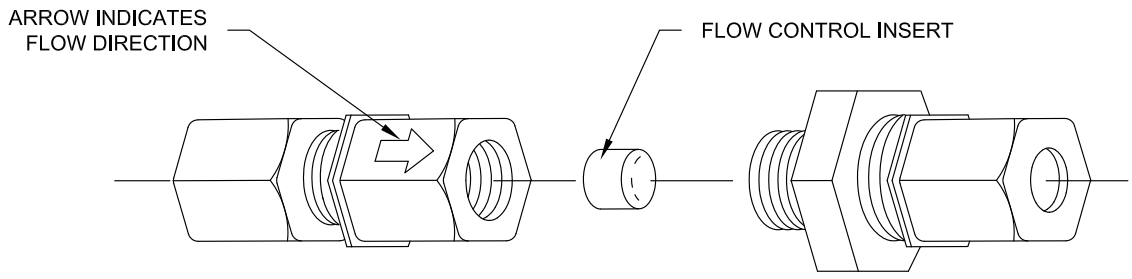
Recommended Specifications

Willoughby model UBJ universal ball joint shower head shall be fixed type, constructed of chrome-plated brass, mounted from the rear with no visible fasteners or removable parts. The head shall have 3/8" F.I.P. threads on the inlet. The shower head spray direction is user adjustable.

OPTIONS:

- ❑ 2.5 2.5 Flow (Standard)
- ❑ 2.0 2.0 In-line Flow Control
  (See detail below; tubing must be 3/8" O.D. polyethylene)
- ❑ 1.5 1.5 In-line Flow Control
  (See detail below; tubing must be 3/8" O.D. polyethylene)

PART #380142-XX (SPECIFY FLOW)
IN-LINE FLOW CONTROL ASSEMBLY



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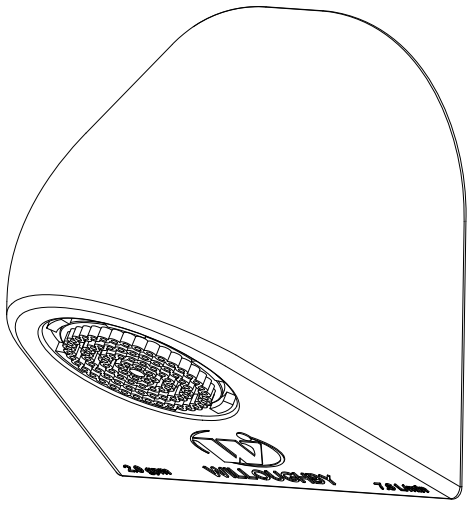
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WILLOUGHBY

LRSH
Ligature-resistant
High Efficiency
Shower Head

WaterSense Meets EPA Criteria
Certified by NSF International

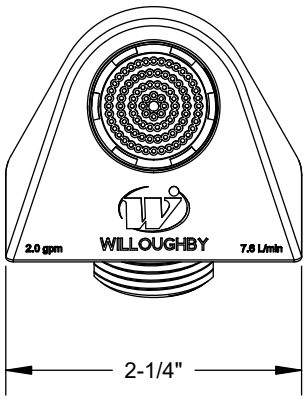


Recommended Specifications

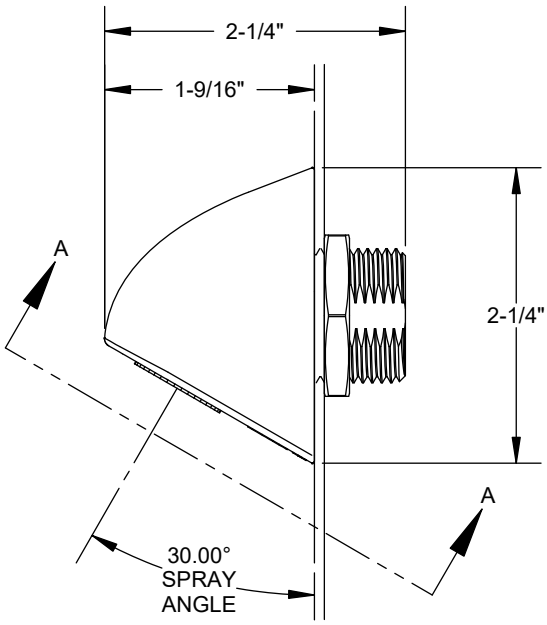
Willoughby model LRSH Ligature-resistant, High Efficiency Shower Head shall be fixed type, with chrome-plated, die-cast construction. The vandal resistant shower head shall be rear mounted with no visible fasteners. The shower head shall have a 30° angle of spray, with 2.0 GPM maximum flow rate at 80psi and 1.5 GPM minimum flow rate at 45psi. The inlet connection shall be threaded for 3/8" F.I.P.

The LRSH features a concealed vandal resistant removable insert, the insert can be removed and installed with a specifically designed key tool. The insert provides a non-aerated (laminar flow) soft water stream w/ smart lime cleaning technology. The LRSH has a rounded and tapered design to minimize any potential ligature points, and shall meet the requirements of ASME A112.18.1 / CSA B125.1 and WaterSense Specification for Showerheads. Shower head shall be for use with automatic compensating valves rated at 1.5 gpm (6 L/ minute) minimum or less.

STANDARD:
❑ WaterSense Labeled, 2.0 GPM Max Flow Rate



VIEW A-A



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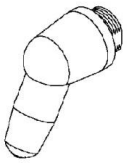
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OPTIONS



(NPS)
NON-ADJUSTABLE PENAL SHOWER HEAD



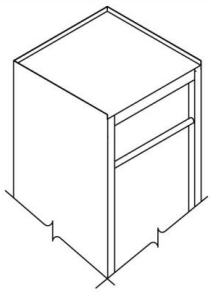
(APS)
ADJUSTABLE PENAL SHOWER HEAD



(LRSH)
LIGATURE-RESISTANT HIGH EFFCIENCY SHOWER HEAD

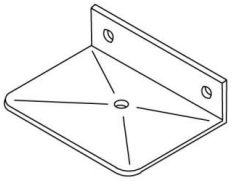


(CSH)
LIGATURE-RESIS-TANT SHOWER HEAD

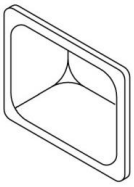


1"DIA. STAINLESS STEEL TUBE WELDED TO BOTH SIDES OF DOOR JAMB FOR SHOWER CURTAIN ROD INSTALLATION. SHOWER CURTAIN BY OTHERS.

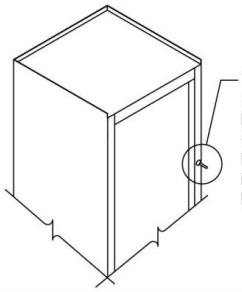
(CR) CURTAIN ROD



(SD)
SURFACE MOUNTED SOAP DISH

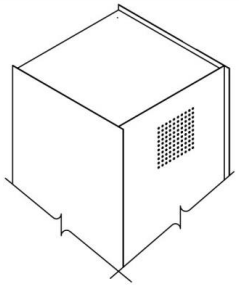


(RD)
RECESSED MOUNTED SOAP DISH



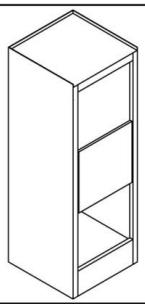
THIS NON-SUICIDAL PRESSURE ACTIVATED RELEASE TOWEL HOOK WILL SUPPORT LIGHT CLOTHING AND TOWEL LOADS, HOWEVER, EXCESSIVE LOADS PLACED ON THE HOOK WILL RENDER ITS FUNCTION USELESS.

(TH1) TOWEL HOOK



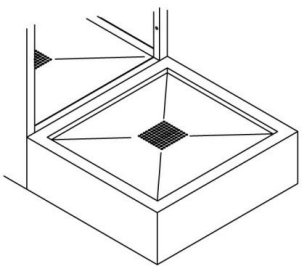
VENTILLATION GRILLE, HAS A SERIES OF 1/4" HOLES ON 1/2" CENTERS

(VG) VENTILATION GRILLE
(SPECIFY FREE AREA AND LOCATION)



WHEN BOTH PRIVACY AND THE NEED TO MONITOR THE SHOWER AREA ARE REQUIRED, THIS OPTION PROVIDES A SHOWER CABINET WITH A REINFORCED STAINLESS STEEL DOOR, WHICH IS ATTACHED BY A SELF CLOSING PIANO HINGE, AND ACCOMPANIED BY A HEAVY GAUGE STAINLESS STEEL DOOR STOP.

(MD) MODESTY DOOR
(NOT ADA COMPLIANT)



THIS OPTION PROVIDES A SHOWER CABINET WITH AN ADJOINING DRYING AREA WHICH FEATURES A GLASS BLAST FINISH, AND INTEGRAL DRAIN.

(DR) DRYING RECEPTOR

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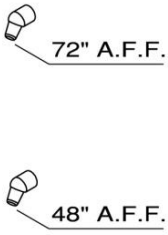
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OPTIONS (CONTINUED)



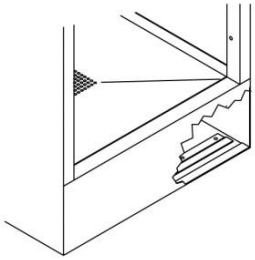
FOR ADA COMPLIANCE THRESHOLD MUST BE RECESSED 2" OR HAVE A RAMP PROVIDED. CONSULT ADA GUIDELINES. THE STANDARD WASTE OUTLET ON A CABINET SHOWER IS AN ELBOW WASTE TO THE CHASE WALL.

(ICD) INSIDE CAULK DRAIN
(STANDARD ON ADA CABINET SHOWERS)



(2) FIXED SHOWERHEADS IN LIEU OF FLEXSHOWER. MOUNT HANDICAP FIXED SHOWERHEAD AT 48" A.F.F.

(2HD) TWO FIXED SHOWER HEADS



USED TO ANCHOR THE SHOWER CABINET TO THE FLOOR, ANCHORING HARDWARE BY OTHERS.

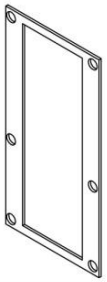
(ZC) Z-CLIP FOR FLOOR MOUNTING



CONSTRUCTED OF 20 GAUGE GALVANIZED STEEL.

WALL SLEEVES PROVIDE FOR FIXTURE PLUMBING ROUGH-IN OPENINGS IN BLOCK AND POURED CONCRETE WALLS. THE SLEEVE BECOMES A PERMANENT PART OF THE WALL AND 1/2" DIAMETER STEEL ROD(S) WELDED TO THE FRAME. THE STEEL RODS PROVIDE RIGIDITY AND HELP TO PREVENT ESCAPE INTO THE CHASE SHOULD THE FIXTURE BE REMOVED.

(WS) WALL SLEEVE



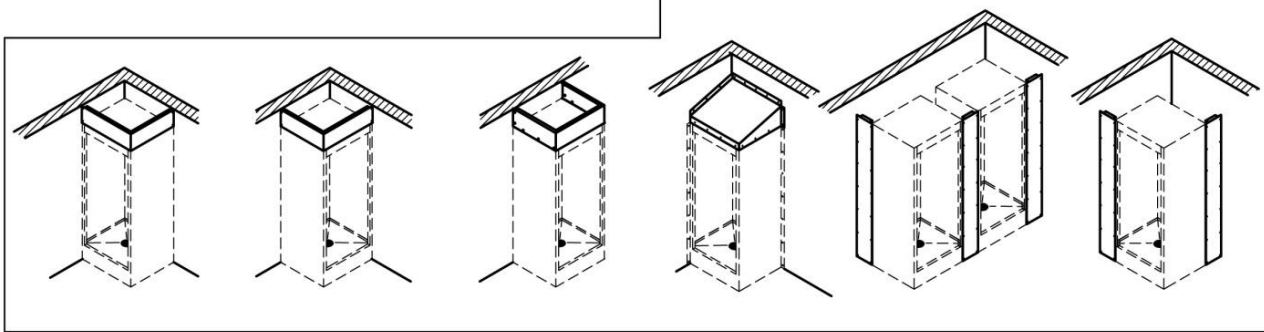
CONSTRUCTED OF 18 GAUGE GALVANIZED STEEL.

METAL WALL TEMPLATES PROVIDE FOR FIXTURE ROUGH-IN CUT-OUTS IN A STEEL WALL. THE TEMPLATE HAS INTEGRAL LAYOUT PATTERNS FOR CUTTING OR DRILLING WALL OPENINGS.

(MT) METAL TEMPLATE

CLOSURE PANELS PROVIDED FOR SEALING OFF AREAS WHERE ACCESS IS NOT INTENDED. CLOSURE PANELS ARE FABRICATED FROM 14 GAUGE TYPE 304 STAINLESS STEEL WITH EXPOSED SURFACES POLISHED TO A #4 SATIN FINISH.

PANELS ARE PROVIDED WITH PUNCH HOLES, WHICH CAN BE USED AS A TEMPLATE FOR MARKING HOLES IN THE CABINET AND WALL. STAINLESS STEEL VANDAL RESISTANT SCREWS ARE PROVIDED FOR SECURING THE PANEL TO THE SHOWER OR ANGLE BRACKETS. WALL ANCHORING HARDWARE IS SUPPLIED BY OTHERS.



(CP) CLOSURE PANELS

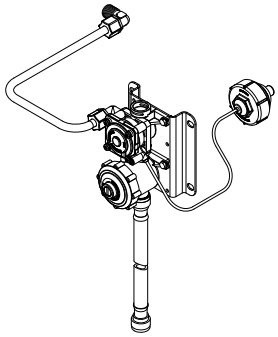
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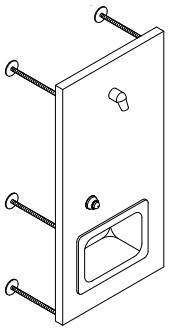
OPTIONS (CONTINUED)

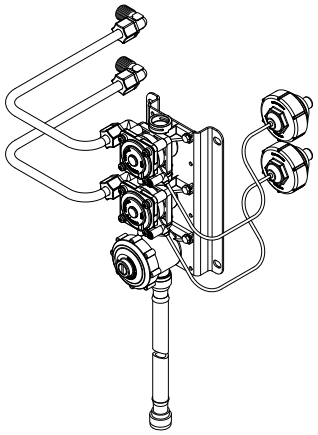
SHOWER VALVE MANIFOLDING OPTION



SINGLE VALVE
-NO SUFFIX (1 FIXTURE)

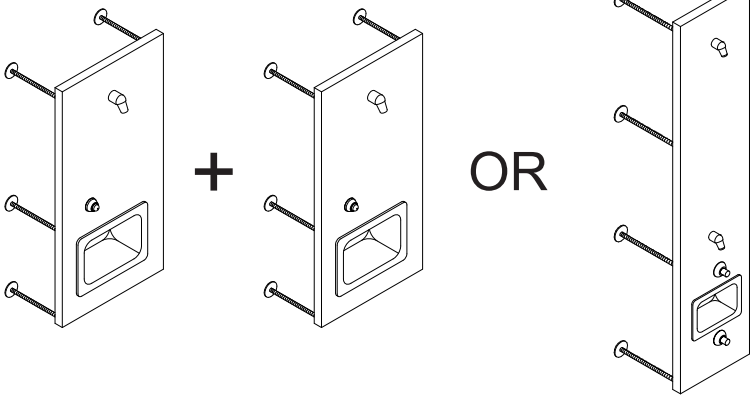
Used for (1) Single shower head fixture:





DUAL MANIFOLD VALVE
-(MA2) (2 FIXTURES)

Used for (2) Single shower head fixtures (Single Temp.) OR (1) Dual shower head fixture (Single Temp.):



Valve Manifolding

"MANIFOLDING"
Willoughby suffix (MA2) allows for the operation of two shower valve assemblies, either (2) single shower head fixtures or (1) two shower head fixture from a common pair of Hot/Cold supply lines.

Primary Advantages

- Reduces installation costs, labor, and materials

- Easier access for maintenance

- Adds flexibility and simplicity to your shower design needs

To specify: add suffix (MA2) to the selected valve model number. If manifolding (2) single shower head fixtures, be sure to specify this to your sales representative when placing your order.

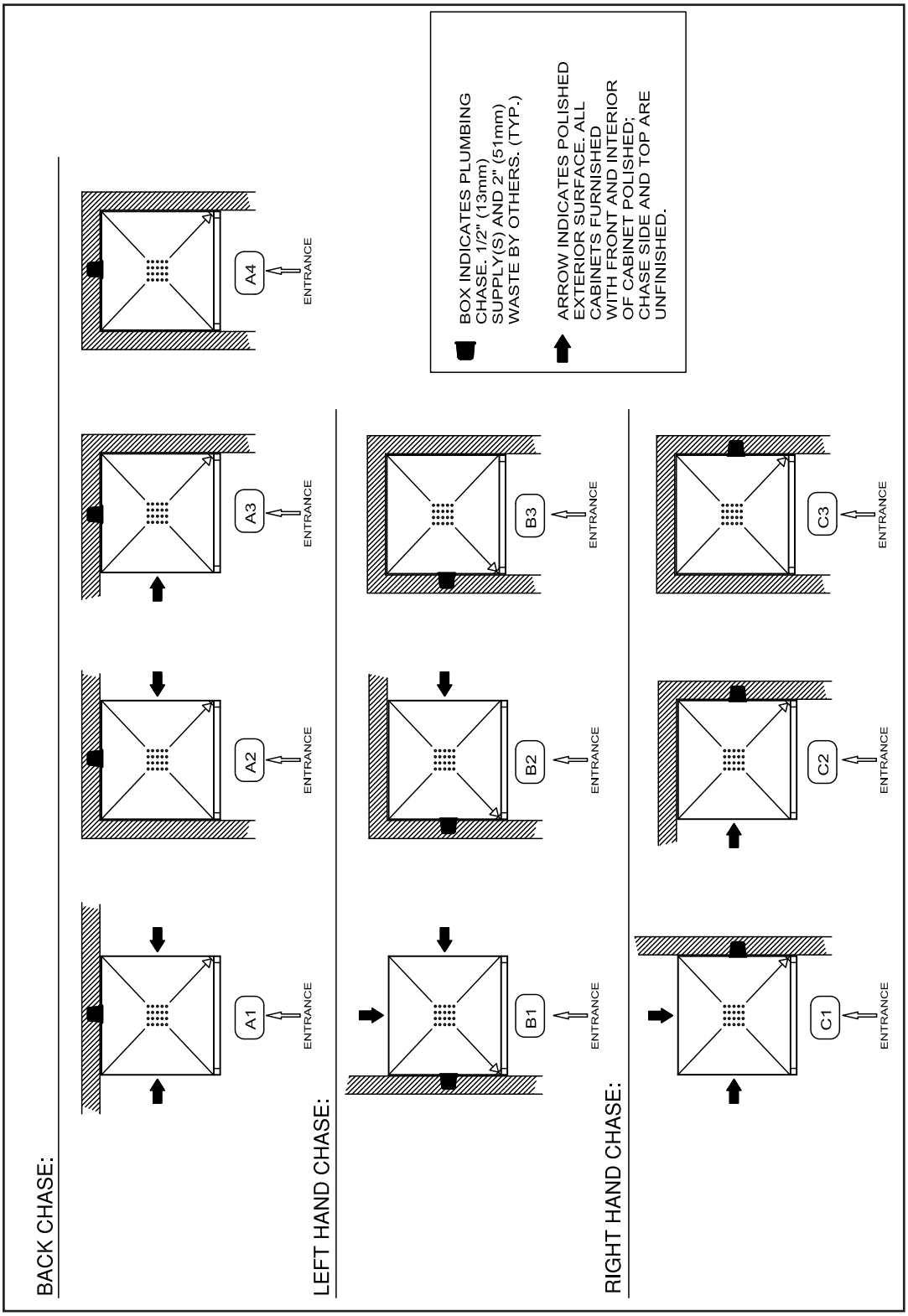
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OPTIONS (CONTINUED)

CABINET SHOWER FINISH SCHEDULE- NON-ADA MODELS



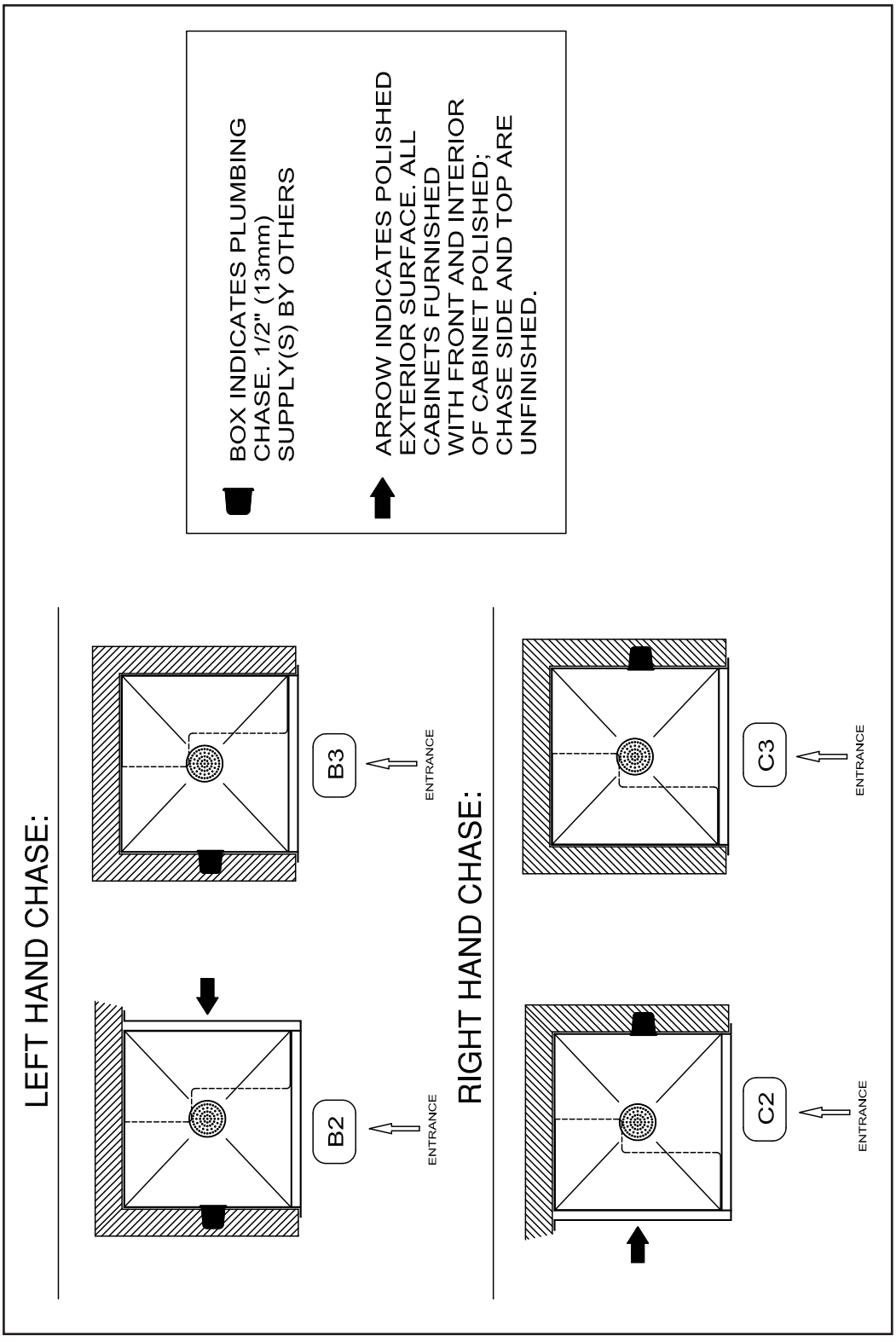
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OPTIONS (CONTINUED)

CABINET SHOWER FINISH SCHEDULE- ADA-COMPLIANT MODELS



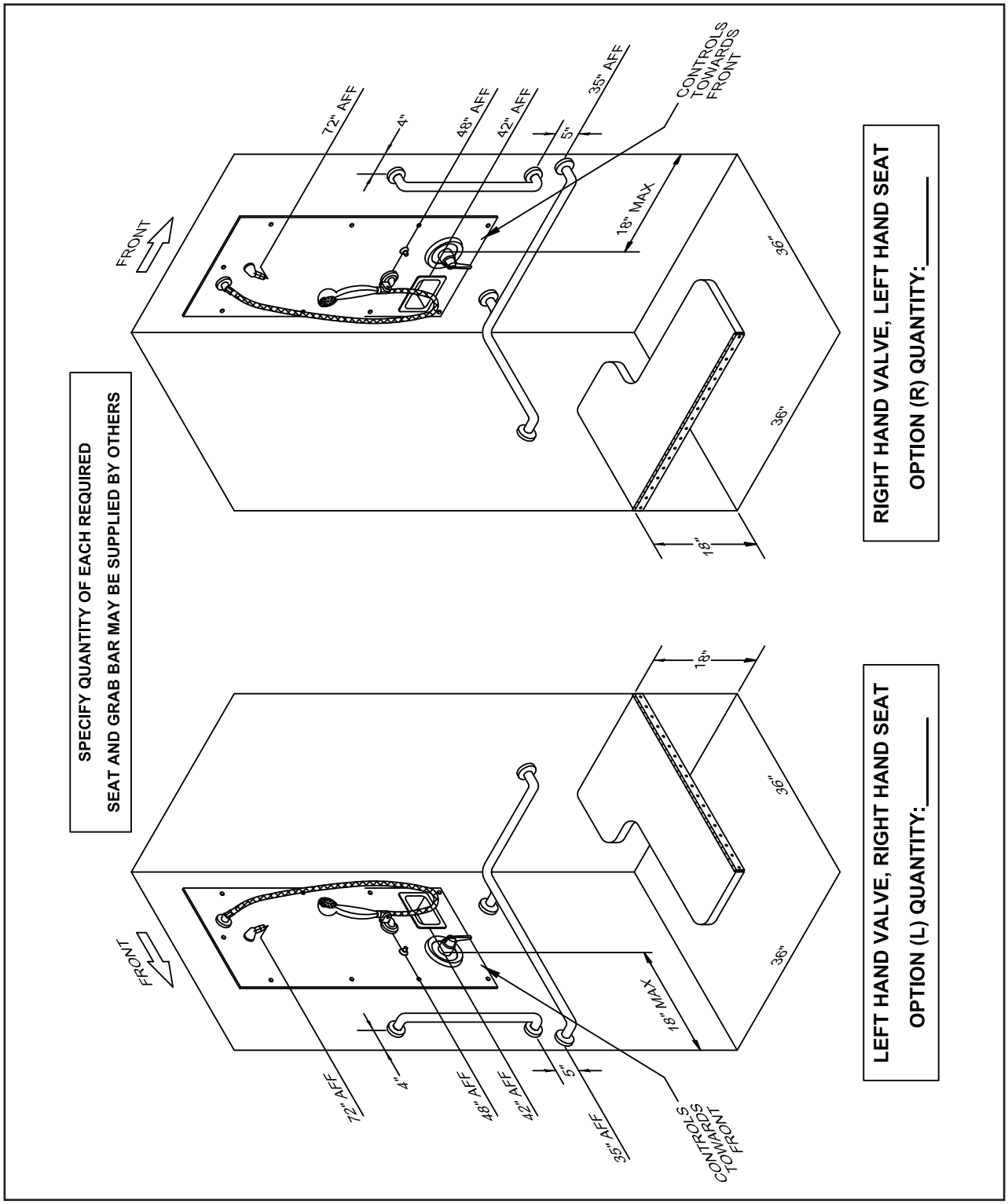
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OPTIONS (CONTINUED)

SHOWER STALL LAYOUT FOR ADA COMPLIANCE



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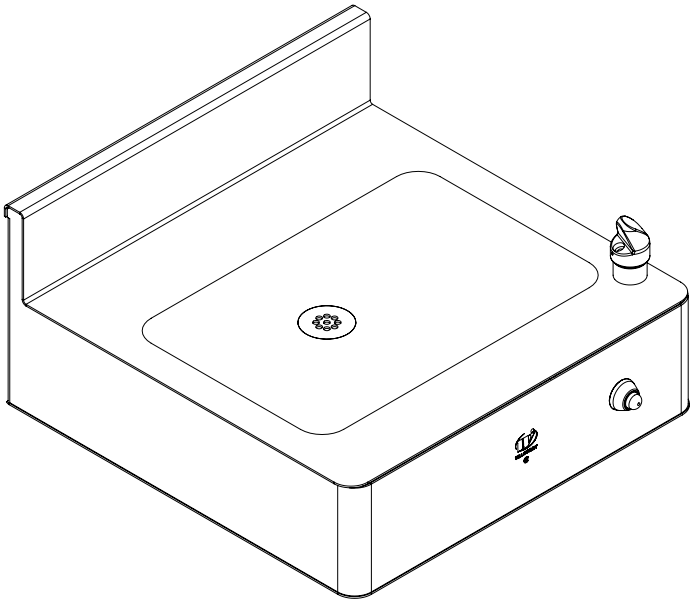
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DF-1015-96-HC
Handicap-ADA Compliant
Rear Mounted
Drinking Fountain



IN COMPLIANCE
WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Handicap-ADA Compliant, Rear Mounted Drinking Fountain with standard drinking fountain bubbler, standard single temp. non-metering pneumatic valve and ligature-resistant push button, and standard elbow waste

Use the following Willoughby Model Number:
DF-1015-96-HC-CDB-PSL1-PBH-EB

Recommended Specifications

Handicap-ADA Compliant, Rear Mounted Drinking Fountain shall be: Willoughby Model No. **DF-1015-96-HC**
(select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all-welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Rectangular-shaped basin, 13" x 9-1/2" x 1-1/2" deep
- Integral fast drain with air vent
- (CDB) stainless steel drinking fountain bubbler
- (PSL1) Single temperature, non-metering pneumatic valve w/ (PBH) ligature-resistant pneumatic push button
- (EB) elbow waste (1-1/2" Plain End)

Cabinet interior shall be sound deadened with fire-resistant material.

Mounting:
Anchoring shall be by standard 4-point system: 1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick.

Unit shall require chase area for installation and maintenance.

Vandal Resistance:
All push buttons and escutcheons are secured to the unit from within the fixture. Valves, water supplies, and waste connections are concealed within.

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MODEL NUMBER AND OPTIONS:

1.) Drinking Fountain Model:

❑ DF-1015-96-HC Handicap-ADA Compliant, Rear Mounted Drinking Fountain

2.) Bubbler Selection:

❑ CDB Drinking Fountain Bubbler (Standard)

❑ DMBH Deck Mounted Ligature-resistant Bubbler

3.) Valve Selection:

❑ PSL1 Single Temp. Pneumatic Non-metering (Standard)

4.) Push Button Selection:

❑ PBH Ligature-resistant Pneumatic Push Button (Standard)

5.) Drinking Fountain Waste:

❑ EB Elbow Waste (Standard)

❑ PT Integral 'P'-Trap

❑ LWE Lavatory Waste Extension

❑ LW1 Thru-Wall Extension, 'P'-Trap and Clean-Out

❑ LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube

❑ LWC2 Coupling, 1-1/2" Tube to 1-1/2" PVC/Cast Iron

6.) Other Options:

❑ MT Wall Template

❑ WS Wall Sleeve (Requires Accessible Chase)

❑ Other: _____

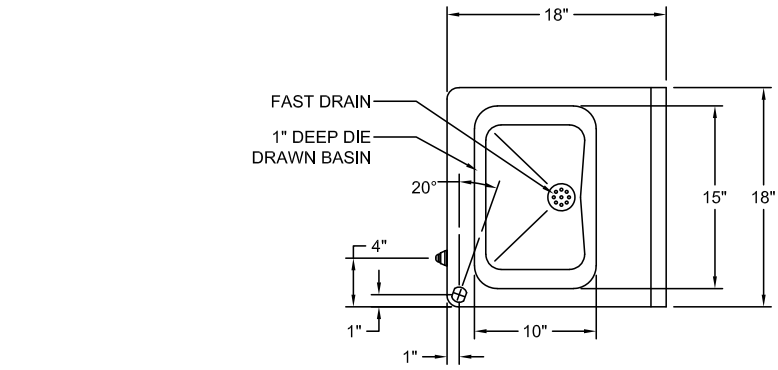
❑ Other: _____

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

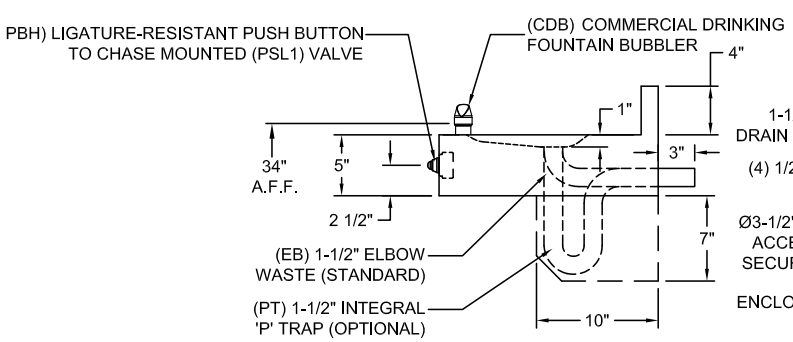
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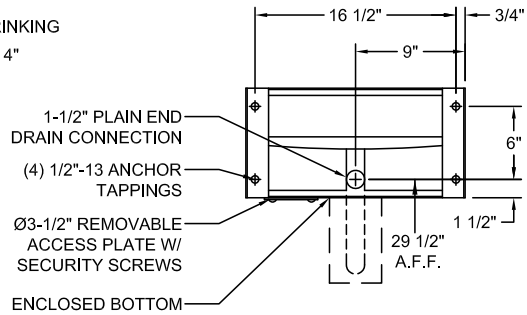
PLAN VIEW

IN COMPLIANCE WITH A.D.A. 2010

NOTE:
33" RIM HEIGHT SHOWN, 34" BUBBLER (34" AND 36" MAX ADULT ADA HEIGHTS, RESPECTIVELY) ADJUST DIMENSIONS ACCORDINGLY FOR ALTERNATE HEIGHTS



SIDE VIEW



REAR VIEW

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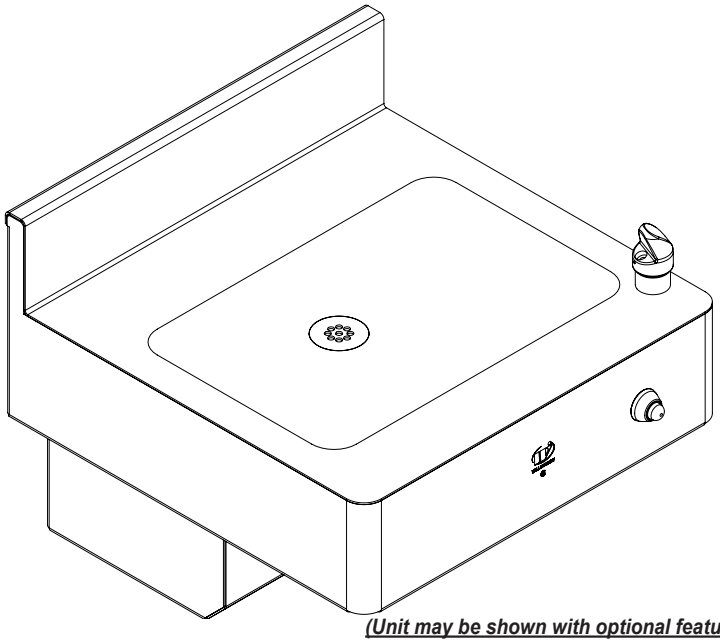
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DF-1015-96-HC-FA
Handicap-ADA Compliant
Front Mounted
Drinking Fountain



(Unit may be shown with optional features)

IN COMPLIANCE
WITH A.D.A. 2010

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Handicap-ADA Compliant, Front Mounted Drinking Fountain with standard drinking fountain bubbler, standard single temp. non-metering pneumatic valve and ligature-resistant push button, and standard removable 'p'-trap

Use the following Willoughby Model Number:
DF-1015-96-HC-FA-CDB-PSL1-PBH-RPT

Recommended Specifications

Handicap-ADA Compliant, Front Mounted Drinking Fountain shall be: Willoughby Model No. **DF-1015-96-HC-FA** (select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all-welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Rectangular-shaped basin, 14-1/2" x 10" x 1" deep
- Integral fast drain with air vent
- (CDB) stainless steel drinking fountain bubbler
- (PSL1) Single temperature, non-metering pneumatic valve w/ (PBH) ligature-resistant pneumatic push button
- (RPT) slip joint, cast brass union 'p'-trap (1-1/2")
- Removable bottom panel attached w/ vandal resistant screws

Cabinet interior shall be sound deadened with fire-resistant material.

Mounting:
Anchoring shall be from the front with 'z'-clip and anchoring holes provided. Anchoring hardware by others.

Unit requires no chase area for installation and maintenance.

Vandal Resistance:
All push buttons and escutcheons are secured to the unit from within the fixture. Valves, water supplies and waste connections are concealed within the fixture and pipe shroud. The pipe shroud is removable and secured with vandal resistant security screws.

ADA and ANSI Compliant:
When the drinking fountain is mounted at standard 36" bubbler height, it is designed to comply with applicable ADA and ANSI Z124.3 and Z124.6 accessibility guidelines.

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MODEL NUMBER AND OPTIONS:

1.) Drinking Fountain Model:
❑ DF-1015-96-HC-FA Handicap-ADA Compliant, Front Mounted Drinking Fountain

2.) Bubbler Selection:
❑ CDB Drinking Fountain Bubbler (Standard)
❑ DMBH Deck Mounted Ligature-resistant Bubbler

3.) Valve Selection:
❑ PSL1 Single Temp. Pneumatic Non-metering (Standard)

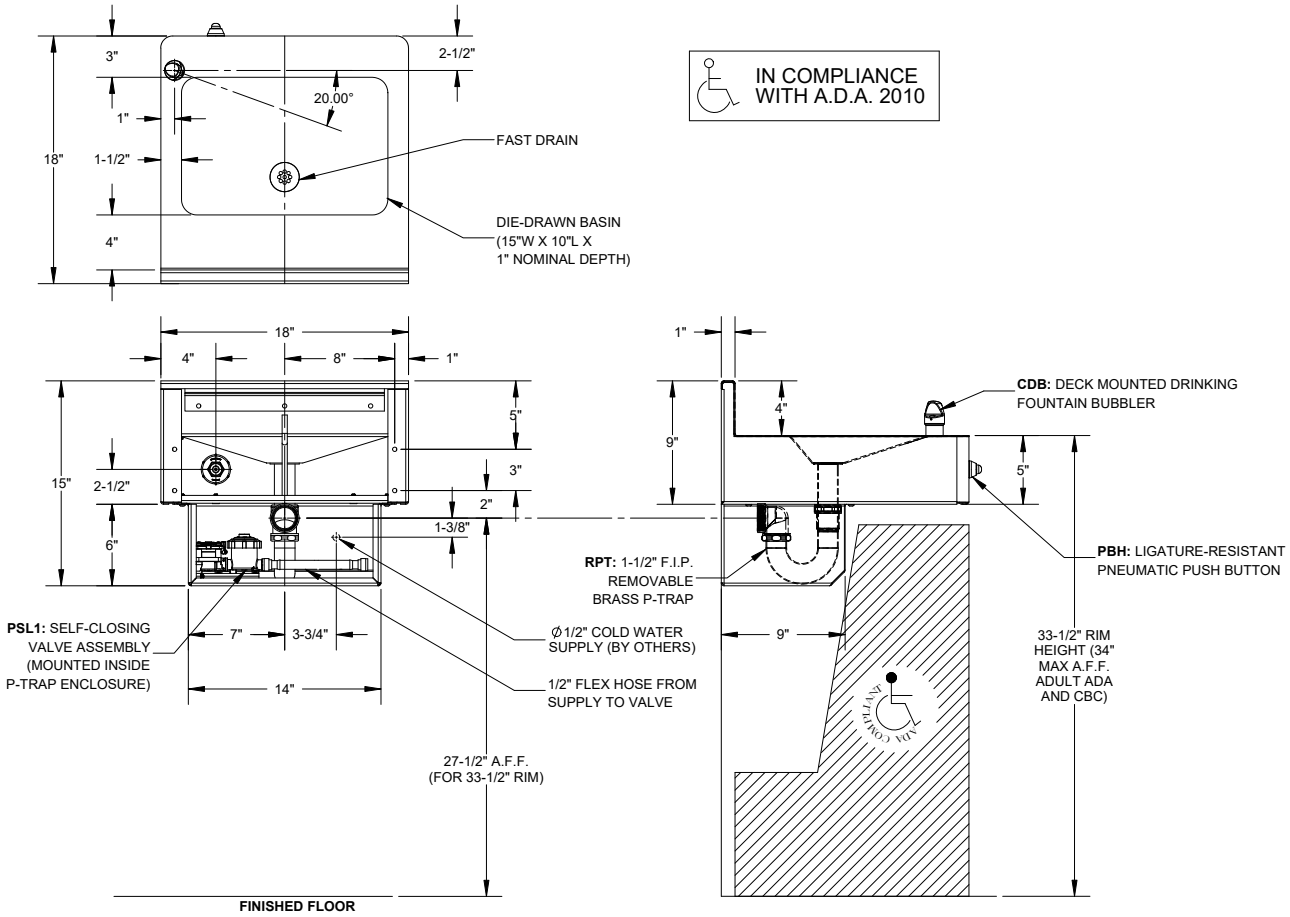
4.) Push Button Selection:
❑ PBH Ligature-resistant Pneumatic Push Button (Standard)

5.) Drinking Fountain Waste:
❑ RPT Slip Joint, Cast Brass Union 'P'-trap (Removable, 1-1/2") (Standard)

6.) Other Options:
❑ MT Wall Template
❑ Other: _____
❑ Other: _____

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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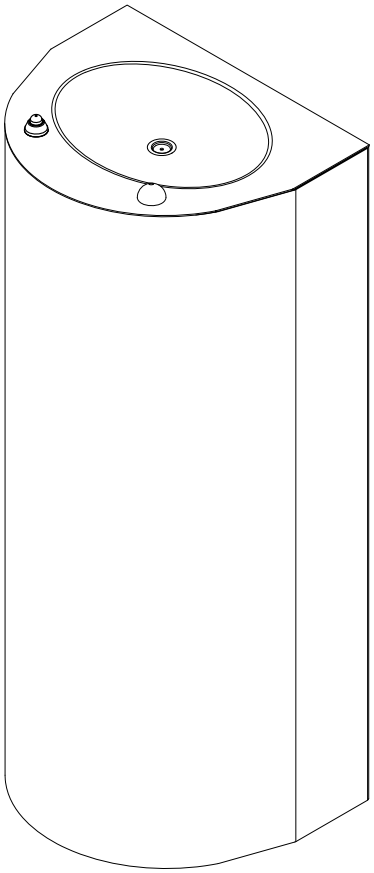


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ASDF-1013-06
Ligature-resistant
Wall Mounted
18" Wide
Drinking Fountain



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify a Ligature-resistant, Wall Mounted, 18" Wide Drinking Fountain with standard ligature-resistant drinking fountain bubbler, non-metering pneumatic valve and ligature-resistant push button, standard elbow waste (with thru-wall extension, 'p'-trap, and clean-out), and wall sleeve

Use the following Willoughby Model Number:
ASDF-1013-06-DMBH-PSL1-PBH-EB-LW1-WS

Recommended Specifications

Ligature-resistant, Wall Mounted, 18" Wide Drinking Fountain shall be: Willoughby Model No. **ASDF-1013-06**
(select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all-welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Oval-shaped basin, 13" x 9-1/2" x 1-1/2" deep
- Integral slow drain with air vent
- (DMBH) deck-mounted ligature-resistant stainless steel drinking fountain bubbler
- (PSL1) Single temperature, non-metering pneumatic valve w/ (PBH) ligature-resistant pneumatic push button
- (EB) elbow waste (1-1/2" Plain End)

Cabinet interior shall be sound deadened with fire-resistant material.

Mounting:
Anchoring shall be by standard 4-point system: Ø1/2" threaded rods, nuts, and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

Unit shall require chase area for installation and maintenance.

Vandal Resistance:
All push buttons and escutcheons are secured to the unit from within the fixture. Valves, water supplies and waste connections are concealed within.

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MODEL NUMBER AND OPTIONS:

1.) Drinking Fountain Model:

❑ ASDF-1013-06 Ligature-resistant, Wall Mounted, 18" Wide Drinking Fountain

2.) Bubbler Selection:

❑ DMBH Deck Mounted Ligature-resistant Bubbler (Standard)

3.) Valve Selection:

❑ PSL1 Single Temp. Pneumatic Non-metering (Standard)

4.) Push Button Selection:

❑ PBH Ligature-resistant Pneumatic Push Button (Standard)

5.) Drinking Fountain Waste:

❑ EB Elbow Waste (Standard)
❑ PT Integral 'P'-Trap
❑ LWE Lavatory Waste Extension
❑ LW1 Thru-Wall Extension, 'P'-Trap, and Clean-Out
❑ LW2 Thru-Wall Extension and Clean-Out
❑ LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube
❑ LWC2 Coupling, 1-1/2" Tube to 1-1/2" PVC/Cast Iron

6.) Other Options:

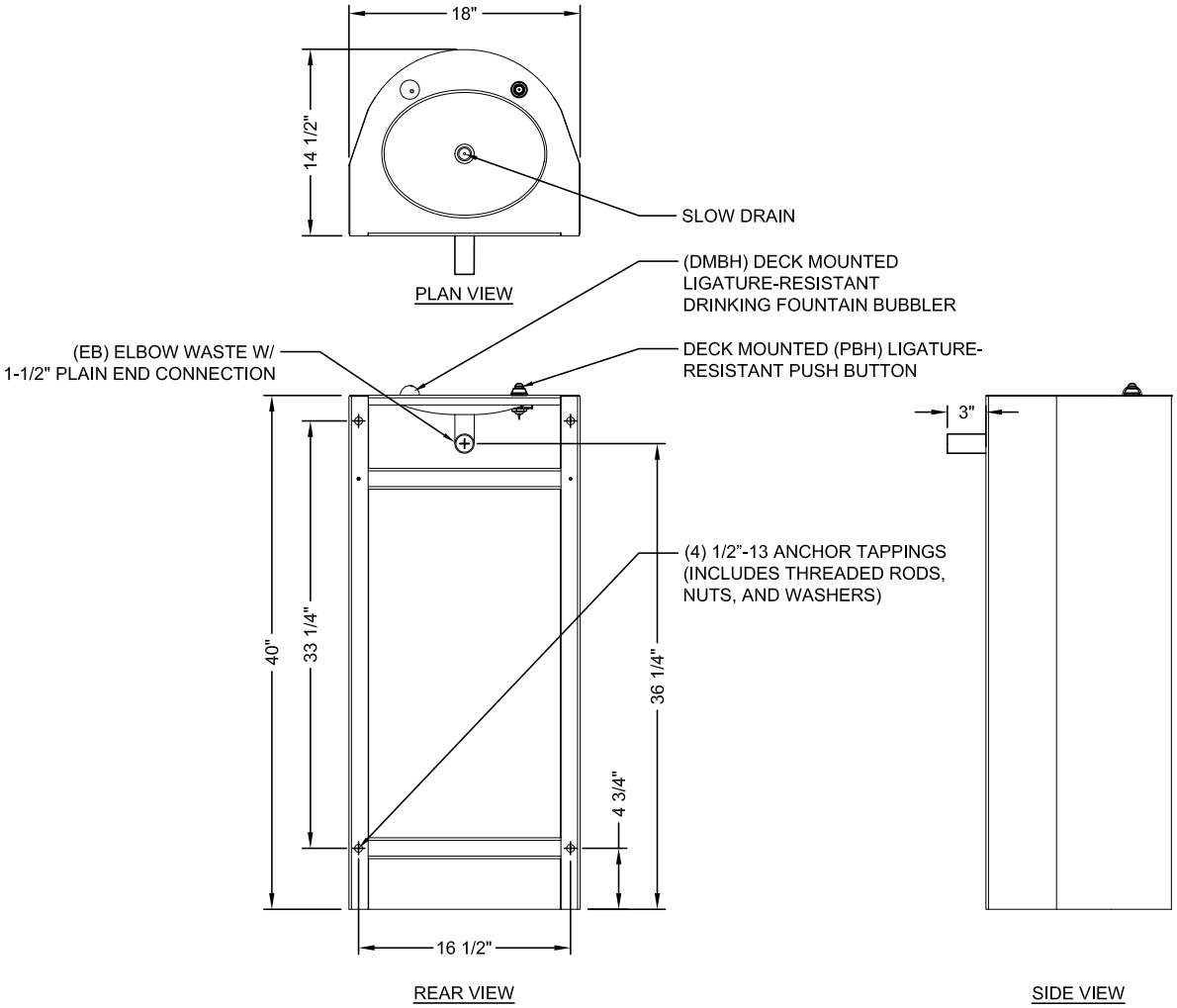
❑ MT Wall Template
❑ WS Wall Sleeve (Requires Accessible Chase)
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ Other: _____
❑ Other: _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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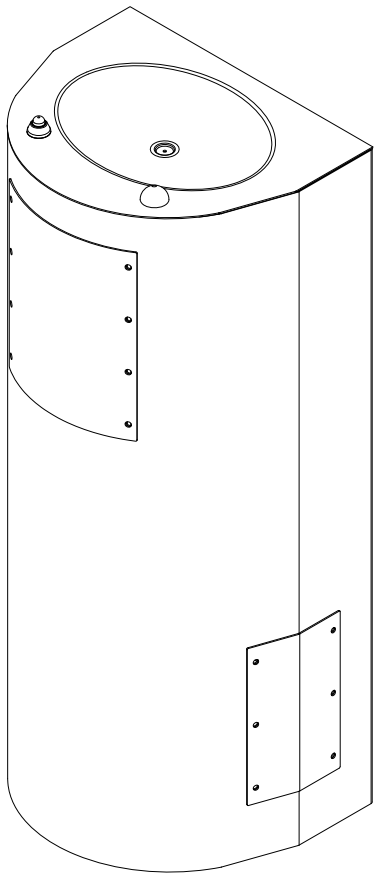


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ASDF-1013-06-FA
Ligature-resistant
Front Access
18" Wide
Drinking Fountain



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Ligature-resistant, Front Access, 18" Wide Drinking Fountain with standard ligature-resistant drinking fountain bubbler, single temp pneumatic non-metering valve, standard ligature-resistant pneumatic push button, standard removable p-trap, and metal wall template

Use the following Willoughby Model Number:
ASDF-1013-06-FA-DMBH-PSL1-PBH-RPT-MT

Recommended Specifications

Ligature-resistant, Front Access, 18" Wide Drinking Fountain shall be: Willoughby Model No. **ASDF-1013-06-FA**
(select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all-welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Oval-shaped basin, 13" x 9-1/2" x 1-1/2" deep
- Integral slow drain with air vent
- (DMBH) deck-mounted ligature-resistant stainless steel drinking fountain bubbler
- (PSL1) Single temperature, non-metering pneumatic valve w/ (PBH) ligature-resistant pneumatic push button
- (RPT) slip joint, cast brass union 'p'-trap (1-1/2")
- (3) removable cabinet-mounted access panels attached w/ vandal resistant screws

Cabinet interior shall be sound deadened with fire-resistant material.

Mounting:
Anchoring shall be from the front with anchoring holes provided. Anchoring hardware by others.

Unit requires no chase area for installation and maintenance.

Vandal Resistance:
All push buttons and escutcheons are secured to the unit from within the fixture. Valves, water supplies and waste connections are concealed within. Access panels are removable and secured with vandal resistant security screws.

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MODEL NUMBER AND OPTIONS:

1.) Drinking Fountain Model:
❑ ASDF-1013-06-FA Ligature-resistant, Front Access, 18" Wide Drinking Fountain

2.) Bubbler Selection:
❑ DMBH Deck Mounted Ligature-resistant Bubbler (Standard)

3.) Valve Selection:
❑ PSL1 Single Temp. Pneumatic Non-metering (Standard)

4.) Push Button Selection:
❑ PBH Ligature-resistant Pneumatic Push Button (Standard)

5.) Drinking Fountain Waste:
❑ RPT Slip Joint, Cast Brass Union 'P'-trap (Removable, 1-1/2") (Standard)

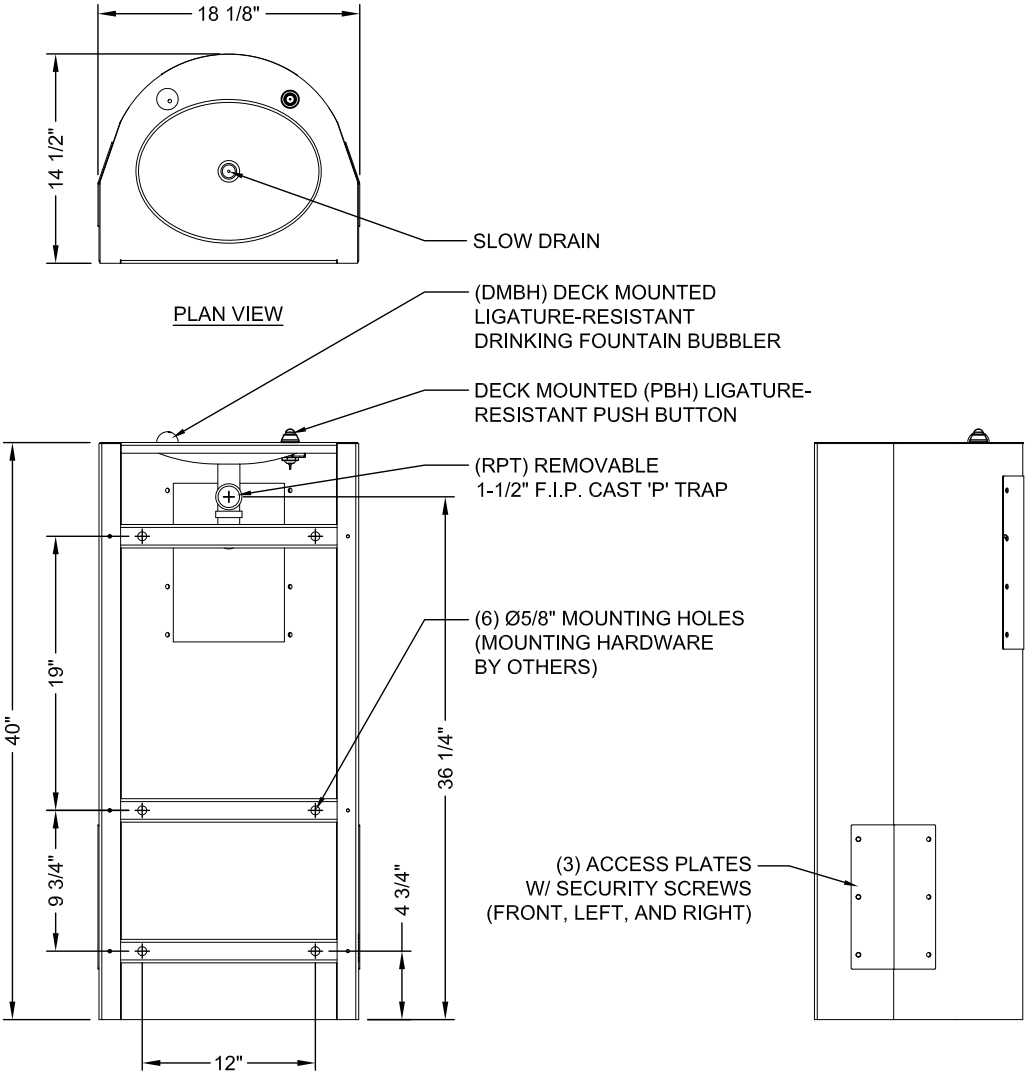
6.) Other Options:
❑ MT Wall Template
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ Other: _____
❑ Other: _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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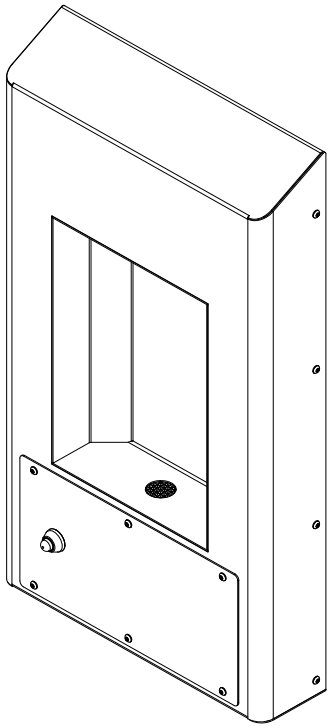


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WBF-1SM Series
Wall Mounted Correctional Bottle Filler



To specify fixture and options, use the Model Number and Options page.

Example: To specify a WBF-1SM wall mounted correctional bottle filler with single temp pneumatic metering valve, and standard ligature-resistant pneumatic push button.

Use the following Willoughby Model Number: WBF-1SM-PML1-PBH

Recommended Specifications

Wall mounted outdoor bottle filler shall be Willoughby Model No. **WBF-1SM**.

Model **WBF-1SM** bottle filler shall be a vandal resistant with 304 14 Ga. stainless steel**.** With a removable bottom panel.

Filler spout shall be activated by a recessed mounted solid stainless steel pushbutton assembly which controls a lead-free, self-closing valve. Pushbutton operation shall require less than 5 lbs. of force.

Flow controls (1.0 GPM) are used to ensure adequate flow without being wasteful.

Model **WBF-1SM** bottle filler shall be lead-free and in compliance with ANSI/NSF 61, Section 9 requirements.

* Simple, vandal-resistant pushbutton
* Quick, 1-gallon-per-minute fill rate
* Standard heavy duty type 304 14 Ga. stainless steel
* Solid stainless steel vandal resistant anti-rotation filler spout
* Promotes use of environmentally friendly refillable bottles, reducing use of disposable bottles
* Compliant to ADA reach height guidelines
* Removable bottom panel

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MODEL NUMBER AND OPTIONS:

1.) Type:

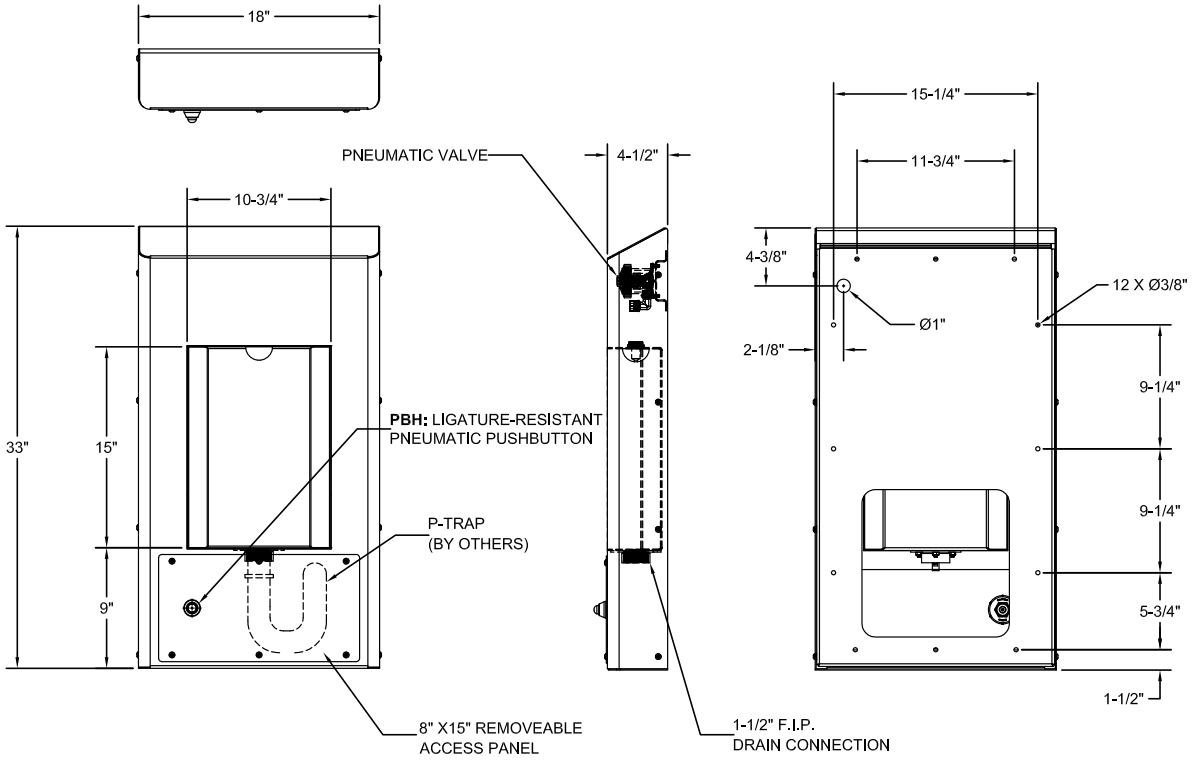
❑ WBF-1SM-PML1-PBH Wall mounted correctional bottle filler

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

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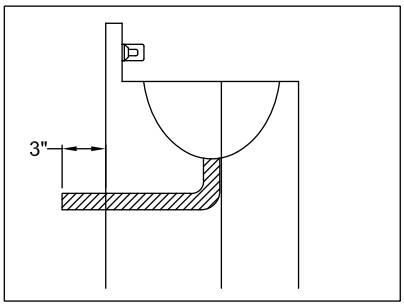
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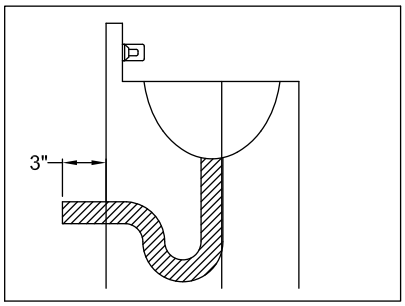
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DRINKING FOUNTAIN WASTE

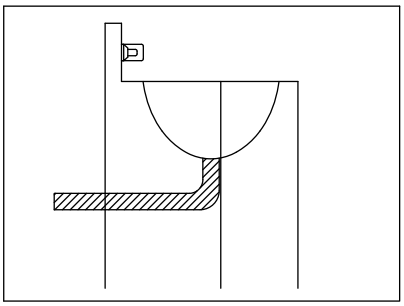
(SIMILAR LAV. WASTE OPTIONS SHOWN FOR REFERENCE)



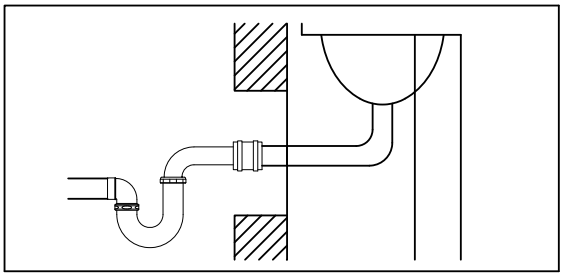
(EB)- ELBOW WASTE
(1-1/2" PLAIN END)



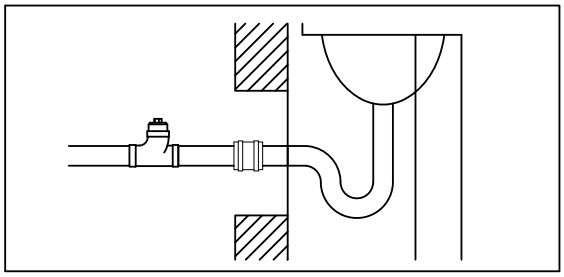
(PT)- INTEGRAL P-TRAP
(1-1/2" PLAIN END)



(LWE)- LAVATORY WASTE EXTENSION
GREATER THAN 3" (1-1/2" PLAIN END)



(LW1)- BRASS THRU-WALL EXTENSION P-TRAP
(FOR USE W/ (EB) ELBOW WASTE)



(LW2)- BRASS THRU-WALL EXTENSION P-TRAP
(FOR USE W/ (PT) INTEGRAL 'P'-TRAP)

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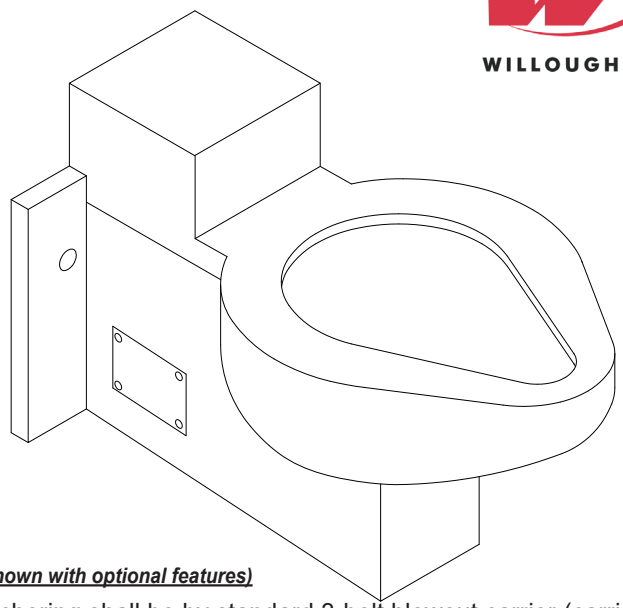
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Willoughby Industries - *Security Products*

WILLOUGHBY

ETW-1490-CM-RPF Replacement Carrier Mounted Blowout Series Water Closet

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer



(Unit may be shown with optional features)

Recommended Specifications

Replacement, Carrier Mounted, Blowout Series Toilet shall be: Willoughby Model No. **ETW-1490-CM-RPF**

Fixture shall be fabricated from 14 GA, Type 304 stainless steel. The construction shall be an all welded, with exposed stainless surfaces polished to a #3 satin finish.

Standard toilet shall include: elongated toilet bowl with contoured seat, integral crevice-free self-draining flushing rim with positive afterfill and fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball. Toilet shall be blowout type which requires 35 psi minimum flushing pressure.

Fixture shall withstand loadings up to 2,000 lbs. with no measurable deflection and loadings up to 5,000 lbs. with no permanent damage.

Anchoring shall be by standard 3-bolt blowout carrier (carrier and fasteners by others). Back spud unit shall require chase area for installation and maintenance.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

On back to back fixture installations, do not use standard cross type waste fittings: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

✓	MANUFACTURER	MODEL #	V	W	X	Y	Z
	AMERICAN STANDARD	2509.057	3-1/2"	11-1/4"	11-3/4"	15 1/4"	5"
		2510.048	3-1/2"	11-1/4"	11-3/4"	15 1/4"	N/A
		2511.012	3-1/2"	11-1/4"	11-3/4"	15 1/4"	5"
		2512.010	3-1/2"	11-1/4"	11-3/4"	15 1/4"	N/A
		2513.018	3-1/2"	11-1/4"	11-3/4"	15 1/4"	5"
		2515.013	3-1/2"	11-1/4"	11-3/4"	15 1/4"	5"
	CRANE	3-460	3-1/2"	11-1/4"	12-1/4"	15 3/4"	N/A
		3-462	3-1/2"	11-1/4"	12-1/4"	15 3/4"	4-3/4"
		3-462E	3-1/2"	11-1/4"	12-1/4"	15 3/4"	4-3/4"
		3-464	3-1/2"	11-1/4"	12-1/4"	15 3/4"	4-3/4"
		3-464E	3-1/2"	11-1/4"	12-1/4"	15 3/4"	4-3/4"
	ELGER	111-0355	3-1/2"	11-1/4"	11-1/2"	15"	N/A
		111-0365	3-1/2"	11-1/4"	11-1/2"	15"	5"
		111-0377	3-1/2"	11-1/4"	11-1/2"	15"	5"
	KOHLER	K-4450-ET	3-1/2"	11-1/4"	11"	14-1/2"	N/A
		K-4460-ER	3-1/2"	11-1/4"	11"	14-1/2"	5 1/2"
		K-4475-ER	3-1/2"	11-1/4"	11"	14-1/2"	5 1/2"
		K-4450-C	4"	11-3/4"	11"	15"	N/A
		K-4460-C	4"	11-3/4"	11"	15"	5 1/2"
		K-4475-C	4"	11-3/4"	11"	15"	5 1/2"
	SUPER SECUR	A-300	3-1/2"	11-1/4"	11-1/4"	14-3/4"	5-1/4"

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ ETW-1490-CM-RPF Replacement, Carrier Mounted, Blowout Series Toilet

2.) Inlet Location:

❑ BS Back Spud
❑ TS Top Spud

3.) Flush Valve GPF (Must Specify):

❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
❑ 1.6 GPF ULF (6.0 Lpf)
❑ 3.5 GPF (13.2 Lpf)

4.) Toilet Waste:

❑ GWC Gasketed Waste Connection (Standard)

5.) Other Options:

❑ T4 Manual Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
❑ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV), Accessible Chase, & (WUCC-3010) or (WMSII) control
❑ FV Hydraulic Flush Valve (Includes Actuator)
❑ EFV Electronic Flush Valve (Pick Control)*
❑ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Push Button (Pick Control)*
❑ FVT Flush Valve Connection (Back Spud Only)
❑ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)
❑ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)

[CONTINUED IN NEXT COLUMN:]

[Other Options CONTINUED:]

❑ AP Flush Valve Access Panel (Allows access to chase-mounted flush valve from fixture side)
❑ HS Hinged White Plastic Seat (No Cover, not recommended for Maximum Security/Ligature-resistant use)
❑ DC Decorator Color (Fixture exterior only - White)
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ HPS High Polish Seat
❑ TSC Toilet Shipping Cover
❑ RTH1 Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase)
❑ RTH2 Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth)
❑ RFVB Remote Flush Valve with Box
❑ REFVB Remote Electronic Flush Valve with Box*
❑ Other _____
❑ Other _____

6.) Electronic Controls* (Must Use Electronic Flush Valve):

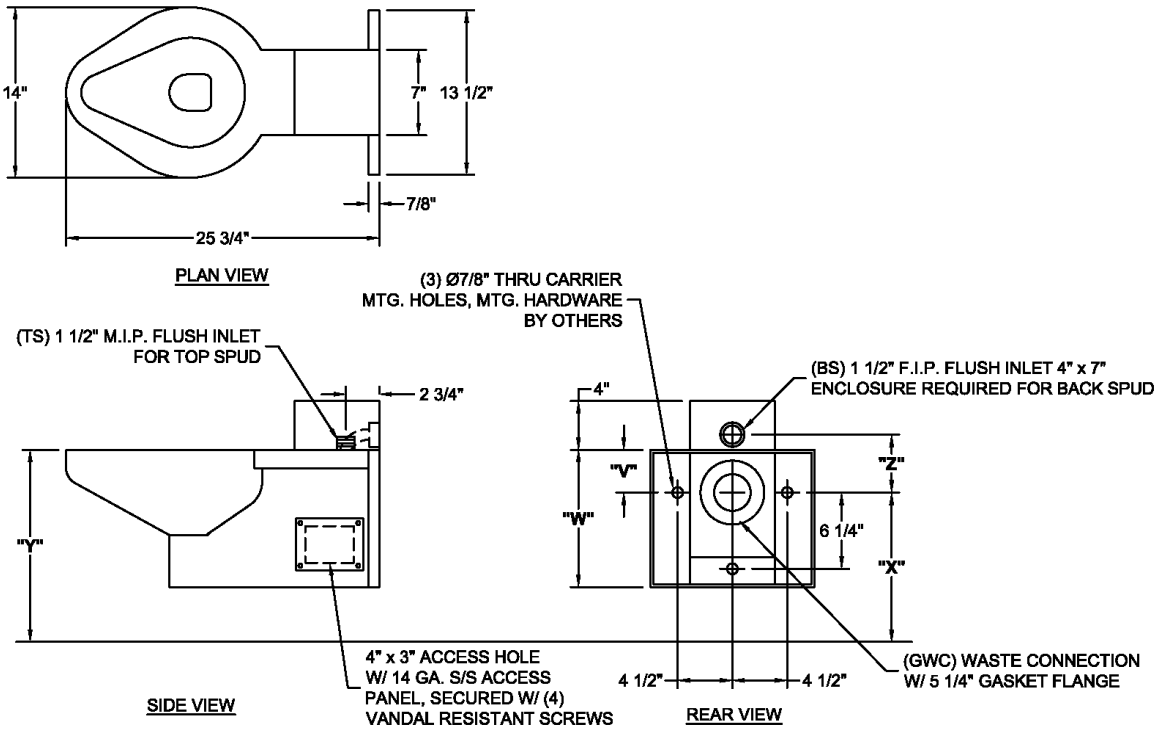
❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
❑ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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Willoughby Industries - *Security Products*

ETW-1490-FM-RPF Replacement Floor Mounted Blowout Series Water Closet



(Unit may be shown with optional features)

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

Recommended Specifications

Replacement, Floor Mounted, Blowout Series Toilet shall be: Willoughby Model No. **ETW-1490-FM-RPF**

Fixture shall be fabricated from 14 GA, Type 304 stainless steel. The construction shall be an all welded, with exposed stainless surfaces polished to a #3 satin finish.

Standard toilet shall include: elongated toilet bowl with contoured seat, integral crevice-free self-draining flushing rim with positive afterfill and fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball. Toilet shall be blowout type which requires 35 psi minimum flushing pressure.

Fixture shall withstand loadings up to 2,000 lbs. with no measurable deflection and loadings up to 5,000 lbs. with no permanent damage.

Anchoring shall be through the front and through the floor (anchoring hardware provided by others). Back spud unit shall require chase area for installation and maintenance.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

On back to back fixture installations, do not use standard cross type waste fittings: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

✓	MANUFACTURER	MODEL #	A	B	C	D
	KOHLER	4480ER	11"	5-1/2"	9"	6-1/2"
	AMERICAN STANDARD	2516.037	10-1/4"	6"	10"	6-3/4"
	SUPER SECUR	A-100	10-1/4"	6-1/4"	10"	6-3/4"
	ELJER	111-0580	10"	6"	10"	6-3/4"
	CRANE	3-487	11"	5-1/2"	S	S

S = SPECIFY

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ ETW-1490-FM-RPF Replacement, Floor Mounted, Blowout Series Toilet

2.) Inlet Location:

❑ BS Back Spud
❑ TS Top Spud

3.) Flush Valve GPF (Must Specify):

❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
❑ 1.6 GPF ULF (6.0 Lpf)
❑ 3.5 GPF (13.2 Lpf)

4.) Toilet Waste:

❑ GWC Gasketed Waste Connection (Standard)

5.) Other Options:

❑ T4 Manual Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
❑ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV), Accessible Chase, & (WUCC-3010) or (WMSII) control
❑ FV Hydraulic Flush Valve (Includes Actuator)
❑ EFV Electronic Flush Valve (Pick Control)*
❑ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Piezo Push Button (Pick Control)*
❑ FVT Flush Valve Connection (Back Spud Only)
❑ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)
❑ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)

[CONTINUED IN NEXT COLUMN:]

[Other Options CONTINUED:]

❑ AP Flush Valve Access Panel (Allows access to chase-mounted flush valve from fixture side)
❑ HS Hinged White Plastic Seat (No Cover, not recommended for Maximum Security/Ligature-resistant use)
❑ DC Decorator Color (Fixture exterior only - White)
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ HPS High Polish Seat
❑ TSC Toilet Shipping Cover
❑ RTH1 Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase)
❑ RTH2 Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth)
❑ RFVB Remote Flush Valve with Box
❑ REFVB Remote Electronic Flush Valve with Box*
❑ Other _____
❑ Other _____

6.) Electronic Controls* (Must Use Electronic Flush Valve):

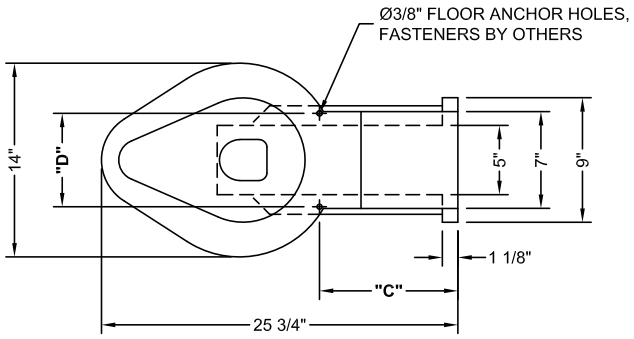
❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
❑ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

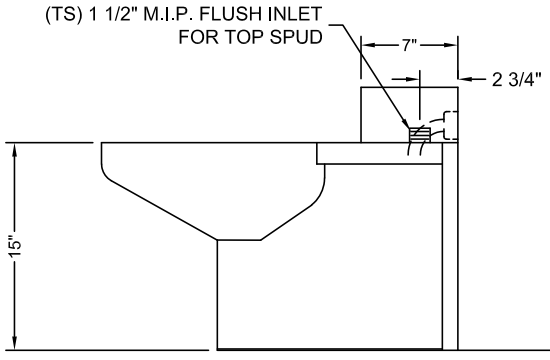
Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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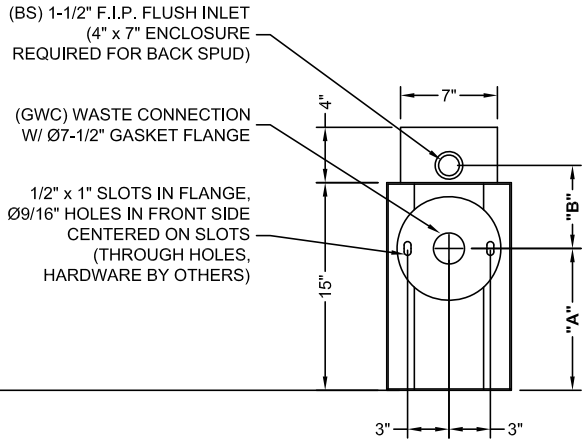
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PLAN VIEW



SIDE VIEW



REAR VIEW

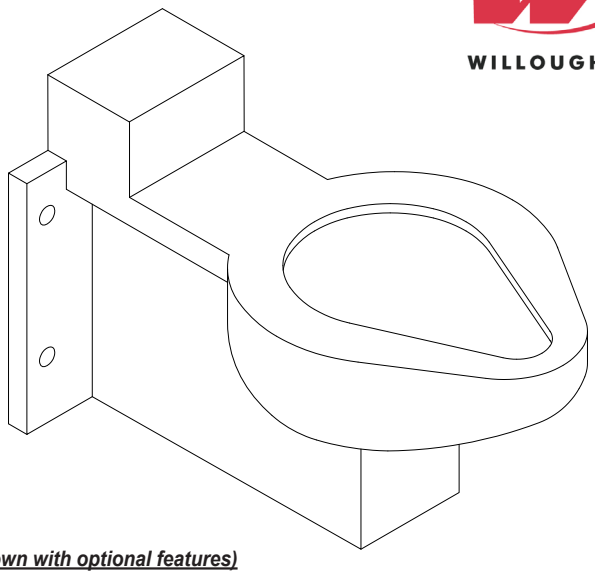
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ETWS-1490-CM-RPF Replacement Carrier Mounted Siphon Jet Series Water Closet



Recommended Specifications

(Unit may be shown with optional features)

Replacement, Carrier Mounted, Siphon Jet Series Toilet shall be: Willoughby Model No. **ETWS-1490-CM-RPF**

Fixture shall be fabricated from 14 GA, Type 304 stainless steel. The construction shall be an all welded, with exposed stainless surfaces polished to a #3 satin finish.

Standard toilet shall include: elongated toilet bowl with contoured seat, integral crevice-free self-draining flushing rim with positive afterfill and fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball. Toilet shall be siphon jet type which requires 35 psi minimum flushing pressure.

Fixture shall withstand loadings up to 2,000 lbs. with no measurable deflection and loadings up to 5,000 lbs. with no permanent damage.

Anchoring shall be by standard 4 bolt siphon jet carrier (carrier and fasteners by others).

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

On back to back fixture installations, do not use standard cross type waste fittings: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

✓	MANUFACTURER	MODEL #	X	Y	Z
	AMERICAN STANDARD	2093.100	4-1/8"	14-1/2"	N/A
		2254.127	5-1/4"	15"	11"
		2256.194	5-1/4"	15"	———
		2257.103	5-1/4"	15"	———
		2258.125	5-1/4"	15"	11"
		2294.011	5-1/4"	16-1/8"	N/A
		2296.019	5-1/4"	16-1/8"	N/A
		2324.100	———	———	———
		2477.016	5-1/4"	14-3/4"	———
		2478.014	5-1/4"	14-3/4"	11"
		2500.015	5-1/4"	14-3/4"	11"
		2502.011	5-1/4"	14-3/4"	———
	ELJER	111-1405	5-1/4"	14-3/4"	———
		111-1405E	5-1/4"	15"	———
		111-1413E	5-1/4"	15"	———
		111-1425	5-1/4"	14-3/4"	7-3/4"
		111-1425E	5-1/4"	15"	7-3/4"
		111-1455	5-1/4"	14-3/4"	———
		111-1475	5-1/4"	14-3/4"	7-3/4"
		111-1505	5-1/4"	15"	———
		111-1513	5-1/4"	15"	———
		111-2105	5-1/4"	15"	———
		111-2110	5-1/4"	15"	7-3/4"
		111-2113	5-1/4"	15"	———
		111-2118	5-1/4"	15"	7-3/4"
		111-2405E	5-1/4"	15"	———
		111-2425E	5-1/4"	15"	11-3/4"
	CRANE	3-217	4"	16-1/2"	———
		3-446	5-1/2"	14-3/4"	———
		3-446E	5-1/2"	15-1/2"	———
		3-449	5-1/2"	14-3/4"	9"
		3-449E	5-1/2"	15-1/2"	———
		3-445	5-1/2"	17"	———
		3H-445	5-1/2"	17"	———
		3H-722E	5-1/2"	15-3/8"	———
	KOHLER	K-4430-ET	5"	14-3/4"	———
		K-4432-ER	5"	15"	10"
		K-4330	5"	15"	———

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ ETWS-1490-CM-RPF Replacement, Carrier Mounted, Siphon Jet Series Toilet

2.) Inlet Location:

❑ BS Back Spud
❑ TS Top Spud

3.) Flush Valve GPF (Must Specify):

❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
❑ 1.6 GPF ULF (6.0 Lpf)
❑ 3.5 GPF (13.2 Lpf)

4.) Toilet Waste:

❑ GWC Gasketed Waste Connection (Standard)

5.) Other Options:

❑ T4 Manual Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
❑ T4A Auto Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
❑ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV), Accessible Chase, & (WUCC-3010) or (WMSII) control
❑ FV Hydraulic Flush Valve (Includes Actuator)
❑ EFV Electronic Flush Valve (Pick Control)*
❑ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Piezo Push Button (Pick Control)*
❑ FVT Flush Valve Connection (Back Spud Only)
❑ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)

[CONTINUED IN NEXT COLUMN:]

[Other Options CONTINUED:]

❑ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
❑ AP Flush Valve Access Panel (Allows access to chase-mounted flush valve from fixture side)
❑ HS Hinged White Plastic Seat (No Cover, not recommended for Maximum Security/Ligature-resistant use)
❑ DC Decorator Color (Fixture exterior only - White)
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ HPS High Polish Seat
❑ TSC Toilet Shipping Cover
❑ RTH1 Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase)
❑ RTH2 Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth)
❑ RFVB Remote Flush Valve with Box
❑ REFVB Remote Electronic Flush Valve with Box*
❑ Other _____
❑ Other _____

6.) Electronic Controls* (Must Use Electronic Flush Valve):

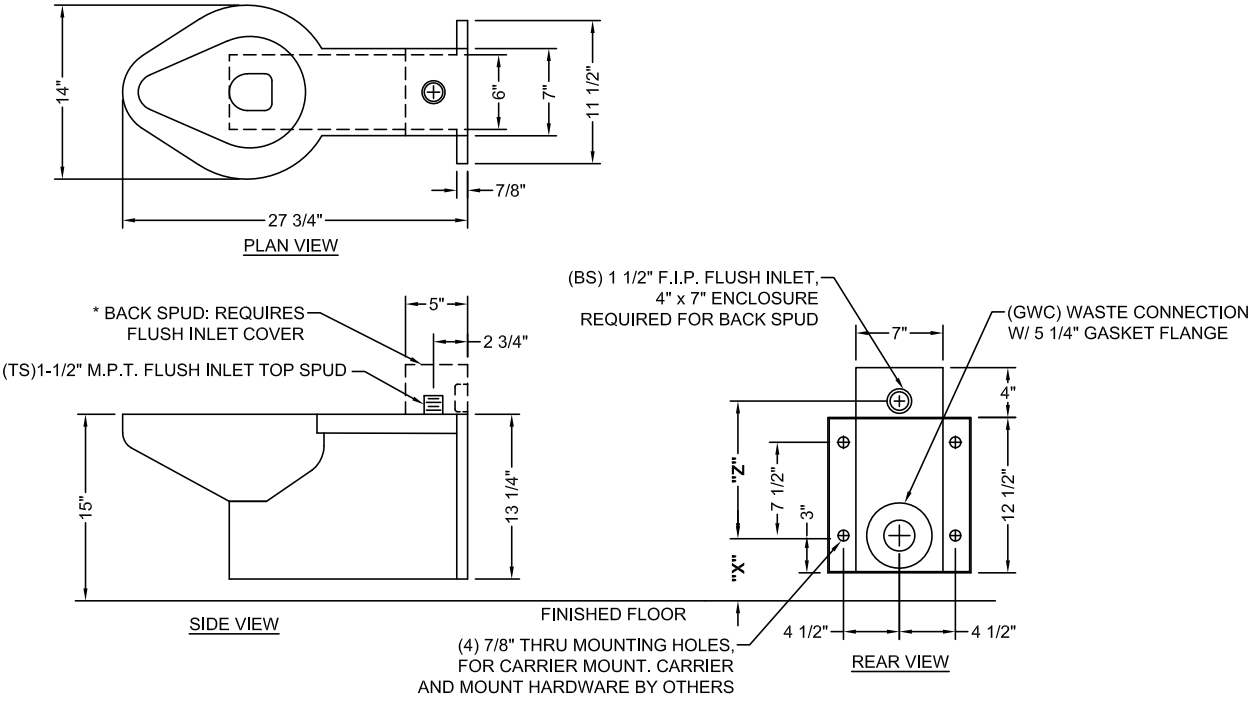
❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
❑ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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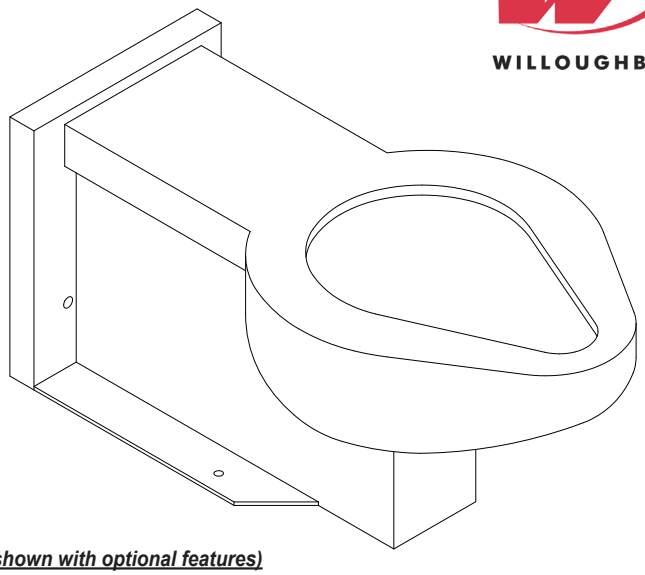
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WILLOUGHBY

ETWS-1490-FM-RPF Replacement Floor Mounted Siphon Jet Series Water Closet

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer



Recommended Specifications

(Unit may be shown with optional features)

Replacement, Floor Mounted, Siphon Jet Series Toilet shall be: Willoughby Model No. **ETWS-1490-FM-RPF**

Fixture shall be fabricated from 14 GA, Type 304 stainless steel. The construction shall be an all welded, with exposed stainless surfaces polished to a #3 satin finish.

Standard toilet shall include: elongated toilet bowl with contoured seat, integral crevice-free self-draining flushing rim with positive afterfill and fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball. Toilet shall be siphon jet type which requires 35 psi minimum flushing pressure.

Fixture shall withstand loadings up to 2,000 lbs. with no measurable deflection and loadings up to 5,000 lbs. with no permanent damage.

Anchoring shall be through the front and through the floor (anchoring hardware provided by others). Back spud unit shall require chase area for installation and maintenance.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

On back to back fixture installations, do not use standard cross type waste fittings: cross flow may result due to siphon jet action. Use sanitary or offset type waste fittings.

	MANUFACTURER	MODEL #	A	B	C	D
	KOHLER	K4398	4-1/2"	13-1/8"	14"	6-1/2"
		K4486-ET	4-1/2"	———	14"	6-1/2"
		K4498-ER	4-1/2"	13"	14"	6-1/2"
	CRANE	3-480	4-1/2"	———	11-3/4"	8"
		3-480E	4-1/2"	———	———	———
		3-481	4-1/2"	13"	11-3/4"	8"
		3-481E	4-1/2"	13"	———	———
		3-484E	4-1/2"	13"	———	———
	AMERICAN STANDARD	2529.014	4-1/4"	———	10-3/8"	5-1/2"
		2530.012	4-1/4"	13-1/8"	10-3/8"	5-1/2"
		2320.100	4"	N/A	12-3/4"	6"
		2529.016	4-1/4"	———	10-1/2"	5-1/2"
		2530.016	4-1/4"	13-1/8"	10-1/2"	5-1/2"
		2531.016	4-1/4"	13-1/8"	10-1/2"	5-1/2"
	ELJER	111-0505	4-1/2"	———	TOE CLAMPS	
		111-0505E	4-1/2"	———	TOE CLAMPS	
		111-0515	4-1/2"	13"	TOE CLAMPS	
		111-0515E	4-1/2"	———	TOE CLAMPS	
	SUPER SECUR	A-104	4-1/4"	14-1/2"	18"	6-3/4"

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ ETWS-1490-FM-RPF Replacement, Floor Mounted, Siphon Jet Series Toilet

2.) Inlet Location:

❑ BS Back Spud
❑ TS Top Spud

3.) Flush Valve GPF (Must Specify):

❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
❑ 1.6 GPF ULF (6.0 Lpf)
❑ 3.5 GPF (13.2 Lpf)

4.) Toilet Waste:

❑ GWC Gasketed Waste Connection (Standard)

5.) Other Options:

❑ T4 Manual Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
❑ T4A Auto Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
❑ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV), Accessible Chase, & (WUCC-3010) or (WMSII) control
❑ FV Hydraulic Flush Valve (Includes Actuator)
❑ EFV Electronic Flush Valve (Pick Control)*
❑ EFVP Electronic Flush Valve w/ (PZPB) Ligature-resistant Piezo Piezo Push Button (Pick Control)*
❑ FVT Flush Valve Connection (Back Spud Only)
❑ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)

[CONTINUED IN NEXT COLUMN:]

[Other Options CONTINUED:]

❑ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
❑ AP Flush Valve Access Panel (Allows access to chase-mounted flush valve from fixture side)
❑ HS Hinged White Plastic Seat (No Cover, not recommended for Maximum Security/Ligature-resistant use)
❑ DC Decorator Color (Fixture exterior only - White)
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ HPS High Polish Seat
❑ TSC Toilet Shipping Cover
❑ RTH1 Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase)
❑ RTH2 Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth)
❑ RFVB Remote Flush Valve with Box
❑ REFVB Remote Electronic Flush Valve with Box*
❑ Other _____
❑ Other _____

6.) Electronic Controls* (Must Use Electronic Flush Valve):

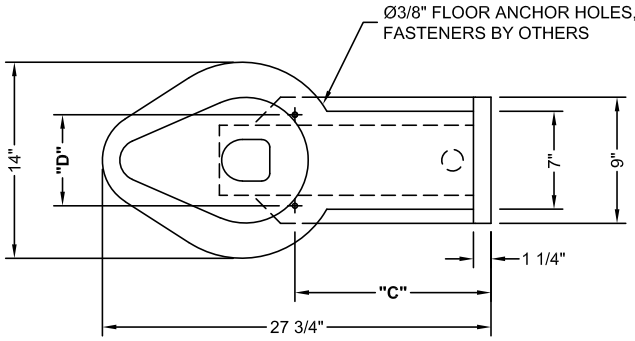
❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
❑ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

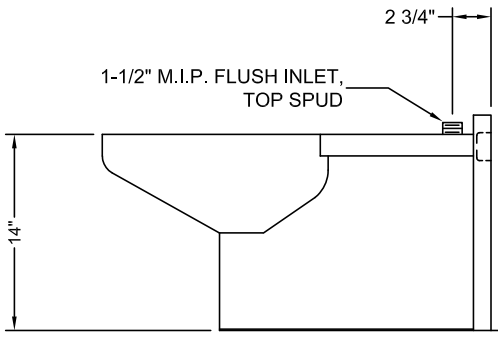
Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

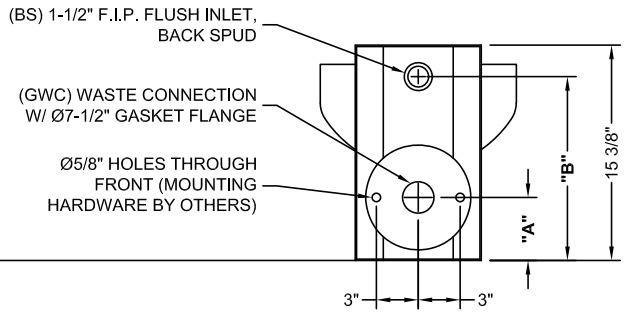
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PLAN VIEW



SIDE VIEW



REAR VIEW

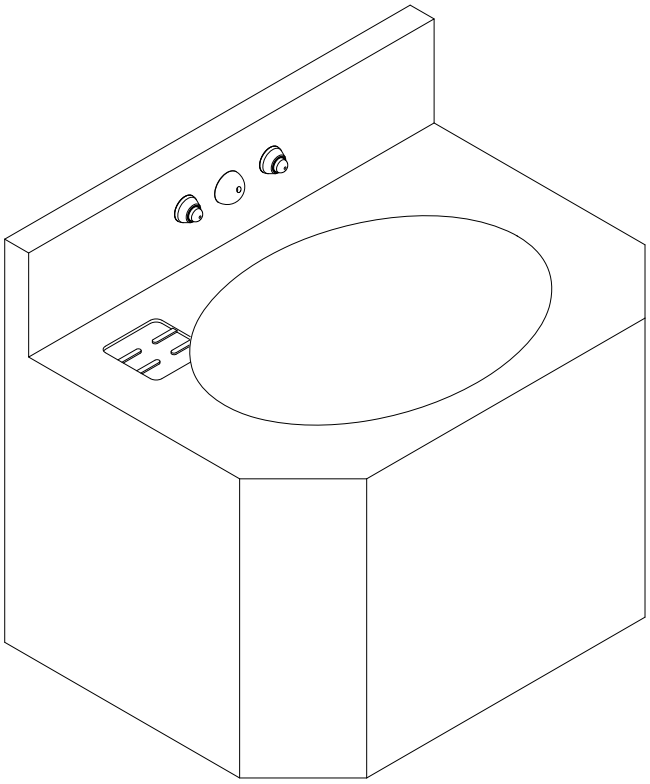
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Willoughby Industries - *Security Products*

HS-1013-96-RPF
Replacement
18" Wide
Lavatory



(Unit may be shown with optional features)

Recommended Specifications

Replacement 18” Wide Lavatory shall be:
Willoughby Model No. **HS-1013-96-RPF**

Fixture shall be fabricated from 14 GA, Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #3 satin finish.

Standard lavatory shall include:
- Oval-shaped bowl, 13” x 9-1/2” x 6” deep
- Stainless steel penal bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2” Plain End)
- Self-draining soap dish

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8” thick. Unit shall require chase area for installation and maintenance.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ HS-1013-96-RPF Replacement 18” Wide Lavatory

2.) Bubbler or Spout Selection:
- ❑ BC Code Bubbler/Filler
- ❑ BPH Ligature-resistant Bubbler/Filler
- ❑ FLH Ligature-resistant Lavatory Filler

3.) Lavatory Valve Selection:
- ❑ NV No Valve (Select Hole Punching if needed)
- ❑ PSL1 Single Temp. Pneumatic Non-metering
- ❑ PSL2 Dual Temp. Pneumatic Non-metering
- ❑ PML1 Single Temp. Pneumatic Metering
- ❑ PML2 Dual Temp. Pneumatic Metering
- ❑ E1L1 Single Temp. Electronic (pick control)*
- ❑ E1L2 Dual Temp. Electronic (pick control)*

Valve Manifold Options:

Pneumatic or Electronic Only:

❑ MA2 ❑ MA3 ❑ MA4

4.) Lavatory Valve Actuation:
- ❑ PBH Ligature-resistant Push Buttons
- ❑ PZPB Ligature-resistant Piezo Piezo Push Buttons*

5.) Electronic Controls* (Must Use Electronic Push Button):

❑ WUCC-3010 ❑ Pneutronic ❑ WMSII

(The WUCC-3010 Control can be used to pair a Sink with a Toilet)

6.) Push Button Hole Punching:

If Less-Lavatory Valve, please specify push button hole sizes and locations on fixture backsplash:

SP: _____

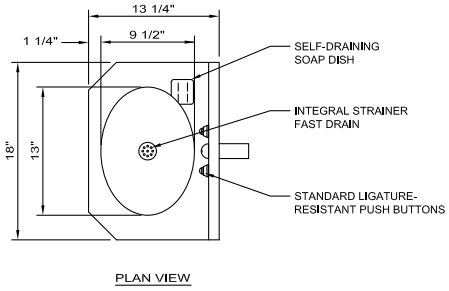
7.) Lavatory Waste:
- ❑ EB Elbow Waste (Standard)
- ❑ PT Integral ‘P’-Trap
- ❑ LWE Lavatory Waste Extension
- ❑ SLOW Slow Drain
- ❑ LW1 Thru-Wall Extension, ‘P’-Trap
- ❑ LW2 Thru-Wall Extension and Clean-Out (Use w/ “PT” Option)
- ❑ LWC1 Coupling, 1-1/2” Tube to 1-1/2” Tube
- ❑ LWC2 Coupling, 1-1/2” Tube to 1-1/2” PVC/Cast Iron

8.) Options:
- ❑ MT Wall Template
- ❑ TB1 Single Toothbrush Holder
  - ❑ Right ❑ Left
- ❑ TB2 Dual Toothbrush Holder
  - ❑ Right ❑ Left
- ❑ TH1 Single Towel Hook
  - ❑ Right ❑ Left
- ❑ TH2 Dual Towel Hook
  - ❑ Right ❑ Left
- ❑ ISH Integral Shelf
- ❑ VG Ventilation Grille (Specify Location and Free Area)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ Other: _____
- ❑ Other: _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

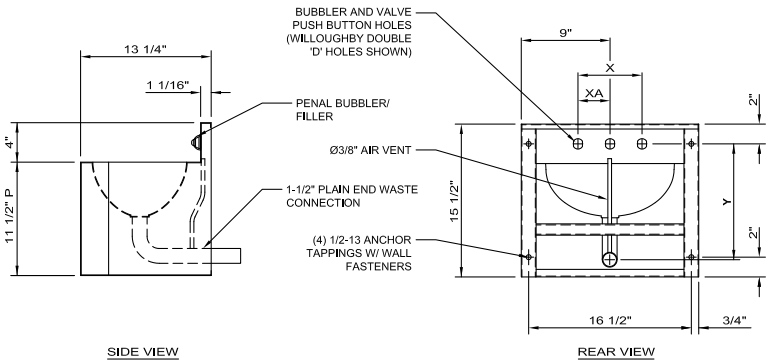
Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____



PLAN VIEW

SPECIFY **X, XA, Y, & HOLE Ø** DIMENSIONS AS NEEDED FOR PUSH BUTTON HOLE PUNCHING



SIDE VIEW REAR VIEW

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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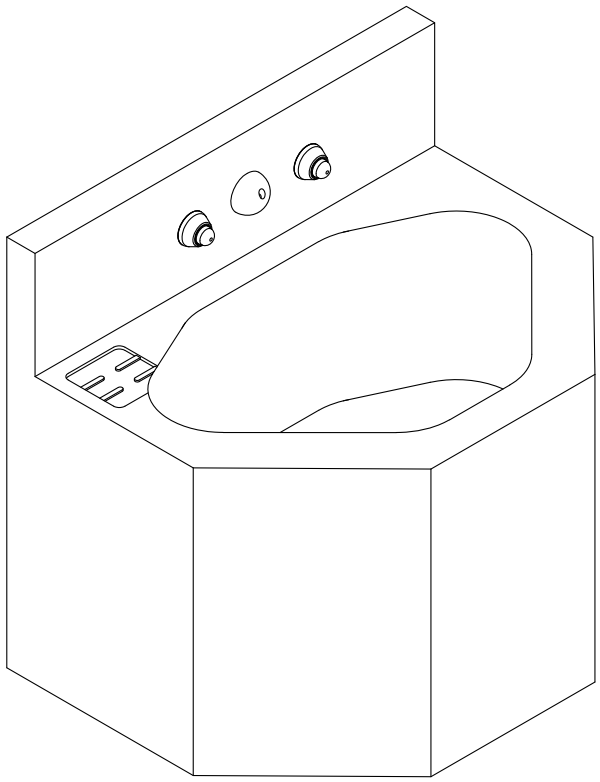
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Willoughby Industries - *Security Products*

HS-1013-46-15-RPF
Replacement
15” Wide
Lavatory



(Unit may be shown with optional features)

Recommended Specifications

Replacement 15” Wide Lavatory shall be:
Willoughby Model No. **HS-1013-46-15-RPF**

Fixture shall be fabricated from 14 GA., Type 304 stainless steel. The construction shall be all welded, with exposed surfaces polished to a #3 satin finish.

Standard lavatory shall include:
- Multi-sided bowl, 12-3/4" x 8-1/4" x 5" deep
- Stainless steel penal bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2” Plain End)
- Self-draining soap dish

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8” thick. Unit shall require chase area for installation and maintenance.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ HS-1013-46-15-RPF Replacement 15” Wide Lavatory

2.) Bubbler or Spout Selection:
- ❑ BC Code Bubbler/Filler
- ❑ BPH Ligature-resistant Bubbler/Filler
- ❑ FLH Ligature-resistant Lavatory Filler

3.) Lavatory Valve Selection:
- ❑ NV No Valve (Select Hole Punching if needed)
- ❑ PSL1 Single Temp. Pneumatic Non-metering
- ❑ PSL2 Dual Temp. Pneumatic Non-metering
- ❑ PML1 Single Temp. Pneumatic Metering
- ❑ PML2 Dual Temp. Pneumatic Metering
- ❑ E1L1 Single Temp. Electronic (pick control)*
- ❑ E1L2 Dual Temp. Electronic (pick control)*

Valve Manifold Options:

Pneumatic or Electronic Only:

❑ MA2 ❑ MA3 ❑ MA4

4.) Lavatory Valve Actuation:
- ❑ PBH Ligature-resistant Push Buttons
- ❑ PZPB Ligature-resistant Piezo Piezo Push Buttons*

5.) Electronic Controls* (Must Use Electronic Push Button):

❑ WUCC-3010 ❑ Pneutronic ❑ WMSII

(The WUCC-3010 Control can be used to pair a Sink with a Toilet)

6.) Push Button Hole Punching:

If Less-Lavatory Valve, please specify push button hole sizes and locations on fixture backsplash:

SP: _____

7.) Lavatory Waste:
- ❑ EB Elbow Waste (Standard)
- ❑ PT Integral ‘P’-Trap
- ❑ LWE Lavatory Waste Extension
- ❑ SLOW Slow Drain
- ❑ LW1 Thru-Wall Extension, ‘P’-Trap
- ❑ LW2 Thru-Wall Extension and Clean-Out (Use w/ “PT” Option)
- ❑ LWC1 Coupling, 1-1/2” Tube to 1-1/2” Tube
- ❑ LWC2 Coupling, 1-1/2” Tube to 1-1/2” PVC/Cast Iron

8.) Options:
- ❑ MT Wall Template
- ❑ TB1 Single Toothbrush Holder
  - ❑ Right ❑ Left
- ❑ TB2 Dual Toothbrush Holder
  - ❑ Right ❑ Left
- ❑ TH1 Single Towel Hook
  - ❑ Right ❑ Left
- ❑ TH2 Dual Towel Hook
  - ❑ Right ❑ Left
- ❑ ISH Integral Shelf
- ❑ VG Ventilation Grille (Specify Location and Free Area)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ Other: _____
- ❑ Other: _____

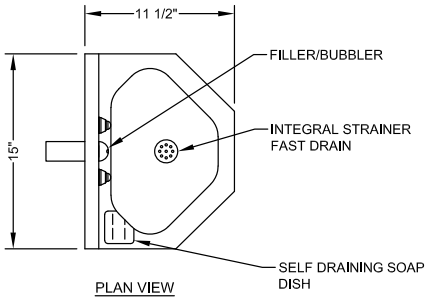
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

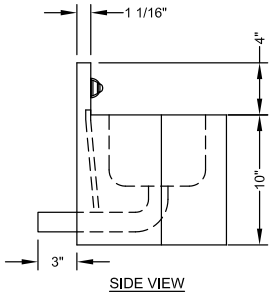
VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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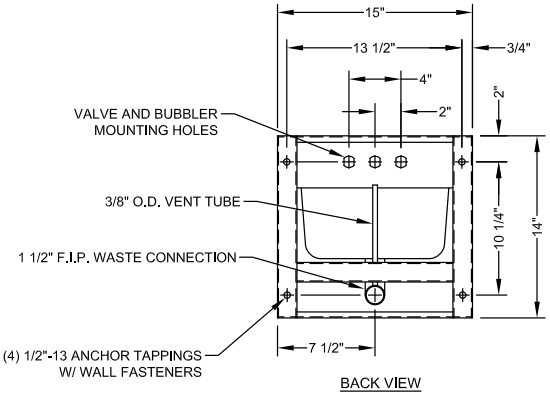


PLAN VIEW

SPECIFY **X, XA, Y, &**
HOLE Ø DIMENSIONS
AS NEEDED FOR
PUSH BUTTON HOLE
PUNCHING



SIDE VIEW



BACK VIEW

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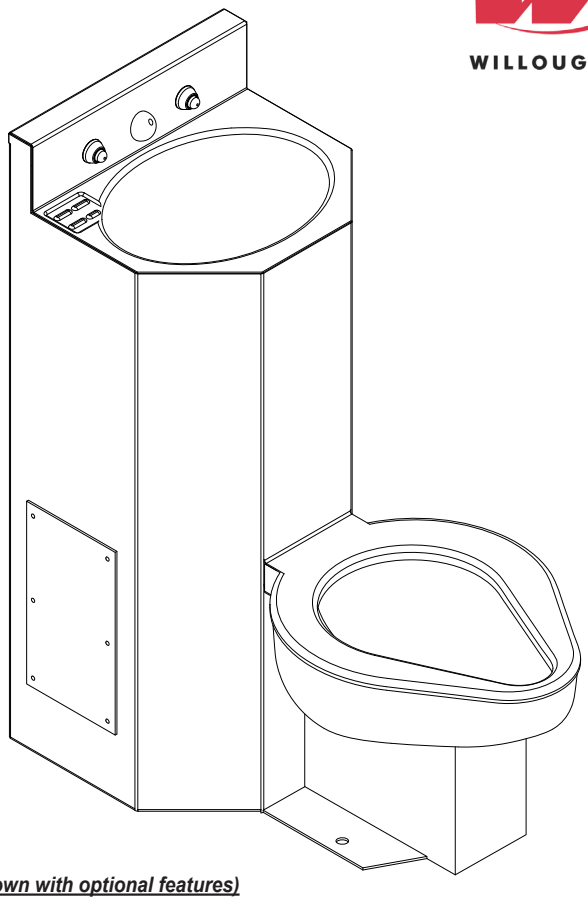
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Willoughby Industries - *Security Products*

ECF-1546-150-RPF
Floor Mounted
Floor Outlet
Replacement Combination
For Super Secur A-150



(Unit may be shown with optional features)

WaterSense certified only for use with a certified high-efficiency flushometer

Recommended Specifications

Floor Mounted, Floor Outlet, Replacement Combination lavatory/toilet (for Super Secur A-150) shall be:
Willoughby Model No. **ECF-1546-150-RPF**
(Designed to replace the discontinued **Super Secur A-150**)

Fixture shall be fabricated from 14 GA, Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #3 satin finish.

Standard toilet shall include: elongated toilet bowl with contoured seat, integral crevice-free self-draining flushing rim with positive afterfill and fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball. Toilet shall be blowout type which requires 35 psi minimum flushing pressure.

Standard lavatory shall include: oval shaped bowl, 13" x 9-1/2" x 6" deep, stainless steel penal filler/bubbler, fast drain with air vent, combined waste w/ cleanout** and self-draining soap dish.

Fixture shall withstand loadings up to 2,000 lbs. with no measurable deflection and loadings up to 5,000 lbs. with no permanent damage.

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring hardware by others. Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

***** Check applicable plumbing code for acceptability.***

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ ECF-1546-150-RPF Floor Mounted, Floor Outlet, Replacement Combination for Super Secur A-150

2.) Toilet Orientation:
- ❑ C Centered

3.) Fixture Mounting:
- ❑ ON On-Floor

4.) Bubbler Selection:
- ❑ BPH Ligature-resistant Bubbler/Filler (Standard)
- ❑ BC Code Bubbler/Filler (w/ Mouth Guard)
- ❑ FLH Ligature-resistant Lav. Filler

5.) Flush Valve GPF'S (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

6.) Lavatory Valve Selection:
- ❑ NV No Valve
- ❑ PSL1 Single Temp. Pneumatic Non-metering
- ❑ PSL2 Dual Temp. Pneumatic Non-metering
- ❑ PML1 Single Temp. Pneumatic Metering
- ❑ PML2 Dual Temp. Pneumatic Metering
- ❑ E1L1 Single Temp. Electronic (Pick Control)*
- ❑ E1L2 Dual Temp. Electronic (Pick Control)*

Valve Manifold Options:

Pneumatic or Electronic Only:
- ❑ MA2 ❑ MA3 ❑ MA4

7.) Lavatory Valve Actuation:
- ❑ PBH Ligature-resistant Push Buttons
- ❑ PZPB Ligature-resistant Piezo Piezo Push Buttons*

8.) Electronic Controls* **(Must Use Electronic Lavatory & Flush Valves):**
- ❑ WUCC-3010 ❑ Pneutronic ❑ WMSII

9.) Lavatory Waste:
- ❑ OV Lavatory Overflow
- ❑ CW1 Combined Waste w/o Clean-out
- ❑ CW2 Combined Waste w/ Clean-out (Standard)
- ❑ SLOW Slow Drain

10.) Toilet Waste:
- ❑ GWC Gasketed Waste Connection (Standard)

11.) Options
- ❑ T4 Manual Reset Toilet Overflow Preventer, Req.(FV) Flush Valve and Accessible Chase
- ❑ T4A Auto Reset Toilet Overflow Preventer, Req. (FV) Flush Valve and Accessible Chase
- ❑ ET4 Electronic Toilet Overflow Preventer, Requires (EFV) & (WUCC-3010) or (WMSII)*
- ❑ FV Hydraulic Flush Valve (Includes Push Button)
- ❑ EFV Electronic Flush Valve (Pick Control)*
- ❑ EFVP Electronic Flush Valve w/ (PZPB) (Pick Control)*
- ❑ TFE Toilet Flush Extension
- ❑ FVT Flush Valve Connection
- ❑ HS Hinged White Plastic Seat (No Cover, not recommended for Maximum Security/Ligature-resistant use)
- ❑ RTH__ Recessed Tissue Holder ❑ L ❑ LF ❑ C ❑ RF ❑ R
- ❑ TB1__ Single Toothbrush Holder ❑ L ❑ R
- ❑ TB2__ Dual Toothbrush Holder ❑ L ❑ R
- ❑ TH1__ Single Towel Hook ❑ L ❑ LF ❑ C ❑ RF ❑ R
- ❑ TH2__ Dual Towel Hook ❑ L ❑ LF ❑ C ❑ RF ❑ R
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ VG Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in^2 free area) ❑ L ❑ LF ❑ RF ❑ R
- ❑ TG 12 Gauge Cabinet
- ❑ TSC Toilet Shipping Cover
- ❑ Other _____
- ❑ Other _____

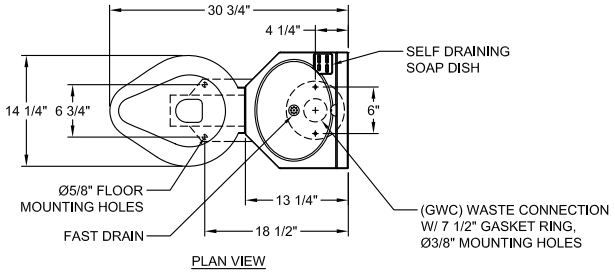
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____

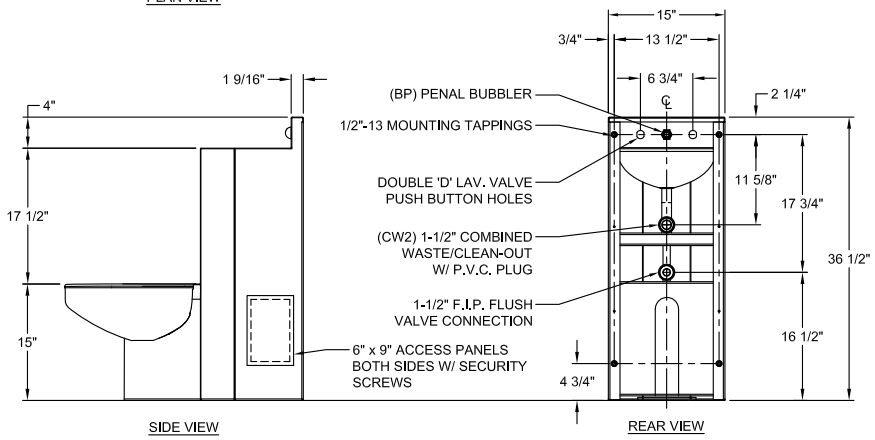
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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PLAN VIEW



SIDE VIEW

REAR VIEW

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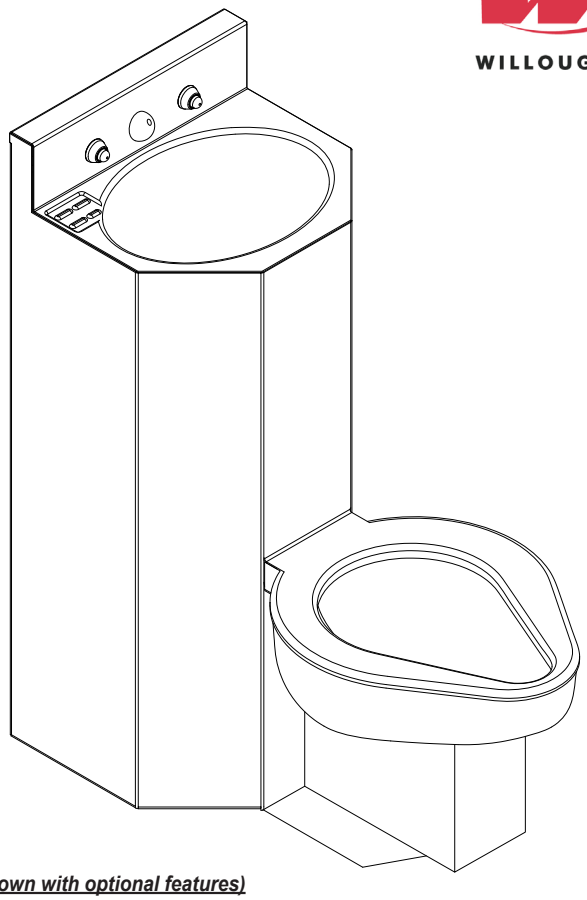
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ECW-1546-150-RPF
Floor Mounted
Wall Outlet
Replacement Combination
For Super Secur A-150



(Unit may be shown with optional features)

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

Recommended Specifications

Floor Mounted, Wall Outlet, Replacement Combination lavatory/toilet (for Super Secur A-150) shall be:
Willoughby Model No. **ECW-1546-150-RPF**
(Designed to replace the discontinued **Super Secur A-150**)

Fixture shall be fabricated from 14 GA, Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #3 satin finish.

Standard toilet shall include: elongated toilet bowl with contoured seat, integral crevice-free self-draining flushing rim with positive afterfill and fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball. Toilet shall be blowout type which requires 35 psi minimum flushing pressure.

Standard lavatory shall include: oval shaped bowl, 13" x 9-1/2" x 6" deep, stainless steel penal filler/bubbler, fast drain with air vent, combined waste w/ cleanout** and self-draining soap dish.

Fixture shall withstand loadings up to 2,000 lbs. with no measurable deflection and loadings up to 5,000 lbs. with no permanent damage.

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring hardware by others. Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

***** Check applicable plumbing code for acceptability.***

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ ECW-1546-150-RPF Floor Mounted, Wall Outlet, Replacement Combination for Super Secur A-150

2.) Toilet Orientation:
- ❑ C Centered

3.) Fixture Mounting:
- ❑ ON On-Floor

4.) Bubbler Selection:
- ❑ BPH Ligature-resistant Bubbler/Filler (Standard)
- ❑ BC Code Bubbler/Filler (w/ Mouth Guard)
- ❑ FLH Ligature-resistant Lav. Filler

5.) Flush Valve GPF'S (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

6.) Lavatory Valve Selection:
- ❑ NV No Valve
- ❑ PSL1 Single Temp. Pneumatic Non-metering
- ❑ PSL2 Dual Temp. Pneumatic Non-metering
- ❑ PML1 Single Temp. Pneumatic Metering
- ❑ PML2 Dual Temp. Pneumatic Metering
- ❑ E1L1 Single Temp. Electronic (Pick Control)*
- ❑ E1L2 Dual Temp. Electronic (Pick Control)*

Valve Manifold Options:

Pneumatic or Electronic Only:
- ❑ MA2 ❑ MA3 ❑ MA4

7.) Lavatory Valve Actuation:
- ❑ PBH Ligature-resistant Push Buttons
- ❑ PZPB Ligature-resistant Piezo Piezo Push Buttons*

8.) Electronic Controls*
(Must Use Electronic Lavatory & Flush Valves):
- ❑ WUCC-3010 ❑ Pneutronic ❑ WMSII

9.) Lavatory Waste:
- ❑ OV Lavatory Overflow
- ❑ CW1 Combined Waste w/o Clean-out
- ❑ CW2 Combined Waste w/ Clean-out (Standard)
- ❑ LW1 Thru-Wall Extension, 'P' Trap
- ❑ LW2 Thru-Wall Extension & Clean-Out
- ❑ SLOW Slow Drain

10.) Toilet Waste:
- ❑ TWE Toilet Waste Extension
- ❑ TW3 3" Clean-Out for (TWE)
- ❑ TW5 4" Clean-Out for (TWE)
- ❑ PC3 Pinned Clean-Out Plug PVC-3"
- ❑ PCB3 Pinned Clean-Out Plug Brass-3"
- ❑ PC4 Pinned Clean-Out Plug PVC-4"
- ❑ PCB4 Pinned Clean-Out Plug Brass-4"
- ❑ GWC Gasketed Waste Connection (Standard)

11.) Toilet Waste Coupling For (TWE):
- ❑ TWC3P Connecting to 3" PVC
- ❑ TWC3C Connecting to 3" Cast Iron
- ❑ TWC4P Connecting to 4" PVC
- ❑ TWC4C Connecting to 4" Cast Iron

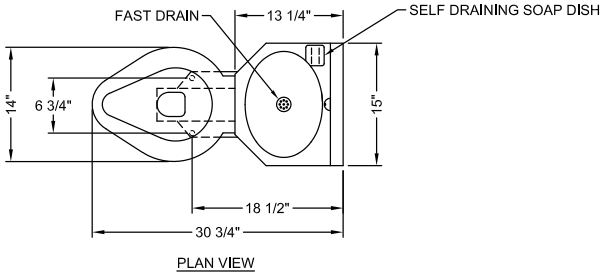
12.) Options
- ❑ T4 Manual Reset Toilet Overflow Preventer, Req.(FV)
- ❑ T4A Auto Reset Toilet Overflow Preventer, Req. (FV)
- ❑ ET4 Electronic Toilet Overflow Preventer, Requires (EFV) & (WUCC-3010) or (WMSII)*
- ❑ FV Hydraulic Flush Valve (Includes Push Button)
- ❑ EFV Electronic Flush Valve (Pick Control)*
- ❑ EFVP Electronic Flush Valve w/ (PZPB) (Pick Control)*
- ❑ TFE Toilet Flush Extension
- ❑ FVT Flush Valve Connection
- ❑ HS Hinged White Plastic Seat (No Cover, not recommended for Maximum Security/Ligature-resistant use)
- ❑ RTH__ Recessed Tissue Holder ❑ L ❑ LF ❑ C ❑ RF ❑ R
- ❑ TB1__ Single Toothbrush Holder ❑ L ❑ R
- ❑ TB2__ Dual Toothbrush Holder ❑ L ❑ R
- ❑ TH1__ Single Towel Hook ❑ L ❑ LF ❑ C ❑ RF ❑ R
- ❑ TH2__ Dual Towel Hook ❑ L ❑ LF ❑ C ❑ RF ❑ R
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ VG Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in² free area) ❑ L ❑ LF ❑ RF ❑ R
- ❑ TG 12 Gauge Cabinet
- ❑ TSC Toilet Shipping Cover
- ❑ Other _____
- ❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

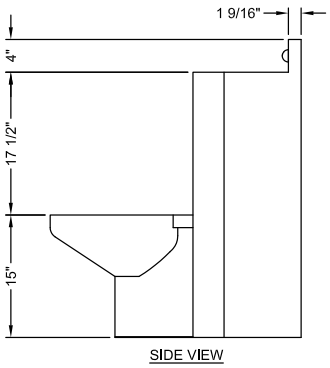
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Wall Thickness: _____ Wall Type: _____

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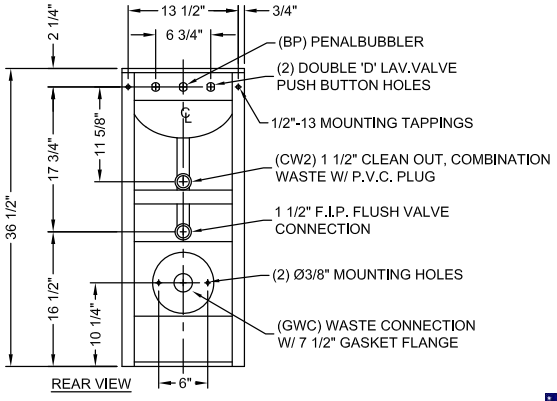
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PLAN VIEW



SIDE VIEW



REAR VIEW

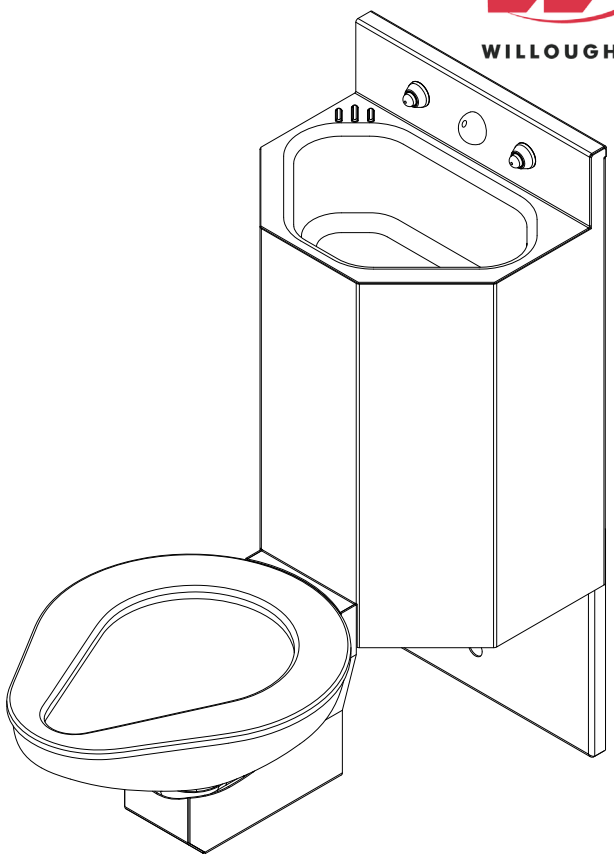
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ECW-1546-350-RPF
Wall Mounted
Wall Outlet
Replacement Combination
For Super Secur A-350



(Unit may be shown with optional features)

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

Recommended Specifications

Wall Mounted, Wall Outlet, Replacement Combination lavatory/toilet (for Super Secur A-350) shall be:
Willoughby Model No. **ECW-1546-350-RPF**
(Designed to replace the discontinued **Super Secur A-350**)

Fixture shall be fabricated from 14 GA, Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #3 satin finish.

Standard toilet shall include: elongated toilet bowl with contoured seat, integral crevice-free self-draining flushing rim with positive afterfill and fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball. Toilet shall be blowout type which requires 35 psi minimum flushing pressure.

Standard lavatory shall include: multi-sided shaped bowl, 12-3/4" x 8-3/4" x 5" deep, stainless steel penal filler/bubbler, fast drain with air vent, combined waste w/ cleanout** and self-draining soap dish.

Fixture shall withstand loadings up to 2,000 lbs. with no measurable deflection and loadings up to 5,000 lbs. with no permanent damage.

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring hardware by others. Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

***** Check applicable plumbing code for acceptability.***

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ ECW-1546-350-RPF Wall Mounted, Wall Outlet, Replacement Combination for Super Secur A-350

2.) Toilet Orientation:
- ❑ C Centered

3.) Fixture Mounting:
- ❑ OF Off-Floor

4.) Bubbler Selection:
- ❑ BPH Ligature-resistant Bubbler/Filler (Standard)
- ❑ BC Code Bubbler/Filler (w/ Mouth Guard)
- ❑ FLH Ligature-resistant Lav. Filler

5.) Flush Valve GPF'S (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

6.) Lavatory Valve Selection:
- ❑ NV No Valve
- ❑ PSL1 Single Temp. Pneumatic Non-metering
- ❑ PSL2 Dual Temp. Pneumatic Non-metering
- ❑ PML1 Single Temp. Pneumatic Metering
- ❑ PML2 Dual Temp. Pneumatic Metering
- ❑ E1L1 Single Temp. Electronic (Pick Control)*
- ❑ E1L2 Dual Temp. Electronic (Pick Control)*

Valve Manifold Options:

Pneumatic or Electronic Only:
- ❑ MA2 ❑ MA3 ❑ MA4

7.) Lavatory Valve Actuation:
- ❑ PBH Ligature-resistant Push Buttons
- ❑ PZPB Ligature-resistant Piezo Piezo Push Buttons*

8.) Electronic Controls*
(Must Use Electronic Lavatory & Flush Valves):
- ❑ WUCC-3010 ❑ Pneutronic ❑ WMSII

9.) Lavatory Waste:
- ❑ OV Lavatory Overflow
- ❑ CW1 Combined Waste w/o Clean-out
- ❑ CW2 Combined Waste w/ Clean-out (Standard)
- ❑ LW1 Thru-Wall Extension, 'P' Trap
- ❑ LW2 Thru-Wall Extension & Clean-Out
- ❑ SLOW Slow Drain

10.) Toilet Waste:
- ❑ TWE Toilet Waste Extension
- ❑ TW3 3" Clean-Out for (TWE)
- ❑ TW5 4" Clean-Out for (TWE)
- ❑ PC3 Pinned Clean-Out Plug PVC-3"
- ❑ PCB3 Pinned Clean-Out Plug Brass-3"
- ❑ PC4 Pinned Clean-Out Plug PVC-4"
- ❑ PCB4 Pinned Clean-Out Plug Brass-4"
- ❑ GWC Gasketed Waste Connection (Standard)

11.) Toilet Waste Coupling For (TWE):
- ❑ TWC3P Connecting to 3" PVC
- ❑ TWC3C Connecting to 3" Cast Iron
- ❑ TWC4P Connecting to 4" PVC
- ❑ TWC4C Connecting to 4" Cast Iron

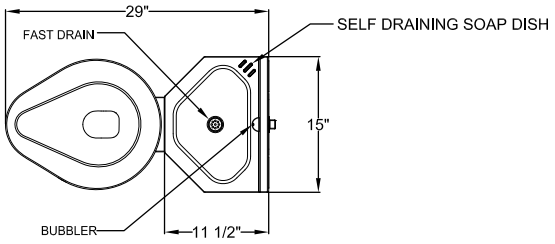
12.) Options
- ❑ T4 Manual Reset Toilet Overflow Preventer, Req.(FV)
- ❑ T4A Auto Reset Toilet Overflow Preventer, Req. (FV)
- ❑ ET4 Electronic Toilet Overflow Preventer, Requires (EFV) & (WUCC-3010) or (WMSII)*
- ❑ FV Hydraulic Flush Valve (Includes Push Button)
- ❑ EFV Electronic Flush Valve (Pick Control)*
- ❑ EFVP Electronic Flush Valve w/ (PZPB) (Pick Control)*
- ❑ TFE Toilet Flush Extension
- ❑ FVT Flush Valve Connection
- ❑ HS Hinged White Plastic Seat (No Cover, not recommended for Maximum Security/Ligature-resistant use)
- ❑ RTH__ Recessed Tissue Holder ❑ L ❑ LF ❑ C ❑ RF ❑ R
- ❑ TB1__ Single Toothbrush Holder ❑ L ❑ R
- ❑ TB2__ Dual Toothbrush Holder ❑ L ❑ R
- ❑ TH1__ Single Towel Hook ❑ L ❑ LF ❑ C ❑ RF ❑ R
- ❑ TH2__ Dual Towel Hook ❑ L ❑ LF ❑ C ❑ RF ❑ R
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ VG Vent Grille, 6-1/2"x 9-1/2" (13-3/4 in² free area) ❑ L ❑ LF ❑ RF ❑ R
- ❑ TG 12 Gauge Cabinet
- ❑ TSC Toilet Shipping Cover
- ❑ Other _____
- ❑ Other _____

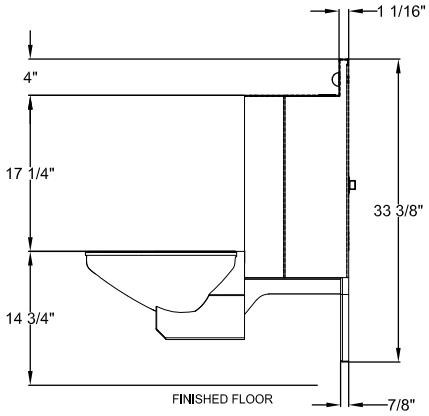
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

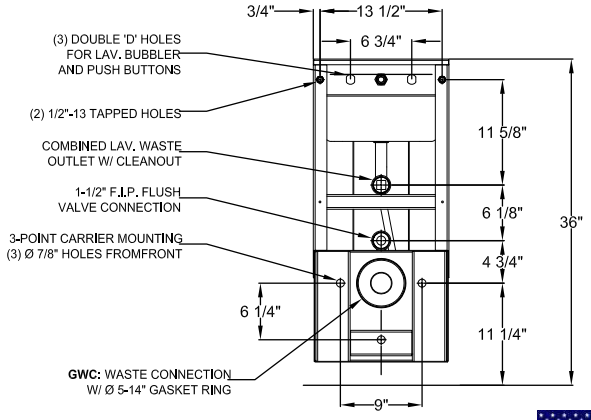
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Wall Thickness: _____ Wall Type: _____

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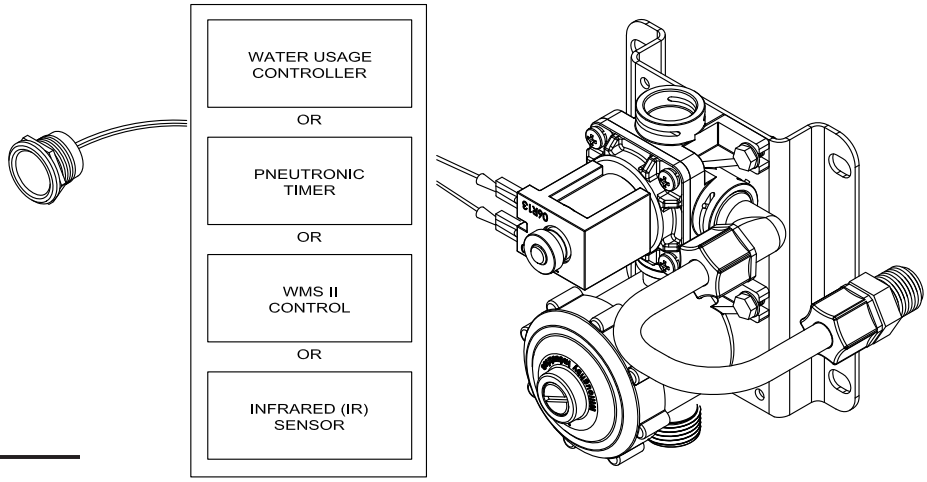
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E1L1
Single Temperature
Lead-free
Electronic Valve



Recommended Specifications

Single Temperature, Lead-free, Electronic Valve assembly shall be: Willoughby Model No. **E1L1** (Select from options list)

Stainless steel push buttons on the fixture shall be wired to an appropriate electronic valve control (select from the list of control choices). The vandal-resistant push buttons shall be keyed/ non-removable from the front of the fixture and shall require less than 5 lbs of force to operate.

The plastic valve checkstop/strainers shall feature integral mounting points. Replaceable stainless steel strainer and optional 0.5 GPM flow control can be serviced without disturbing the supply line. Assembly shall use flexible tubing to connect to the filler/ bubbler/shower head. Water inlet is 1/2" MPT and is reversible for either top or bottom supply. A galvanized wall mounting plate is provided, wall anchoring hardware provided by others.

Flexible tubing is supplied for walls up to 8" thick. Recommended operating pressure shall be 35-70 psi. Valve shall withstand pressures up to 90 psi. Cost-reducing manifolded valves shall consist of multiple valve assemblies served by a common supply line. A 24 volt AC source shall be required for a timer and valve operation.

Valve complies with NSF-61 standard.

Flow Selection (choose one):

- ❑ 0.5 GPM Flow (lavatories)
- ❑ 1.5 GPM Flow (showers)
- ❑ 2.0 GPM Flow (showers)
- ❑ NFC (No Flow Control) (showers, up to MA2)

Control:

- ❑ WUCC-3010 ❑ WUSC-2200 ❑ WUSC-2400
- ❑ Pneutronic Timer ❑ WMS II Control
- ❑ Infrared (IR) Sensor

Push Button*:

- ❑ PZPB Ligature-resistant Piezo Push Button

*Not required for IR

Options:

- ❑ -MA2 (Double Manifold, no flow limitation)
- ❑ -MA3 (Triple Manifold, 0.5 GPM flow only)
- ❑ -MA4 (Quad Manifold, 0.5 GPM flow only)
- ❑ -TMV In-line Thermostatic Mixing Valve

24 VAC Power Transformer supplied by others.

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

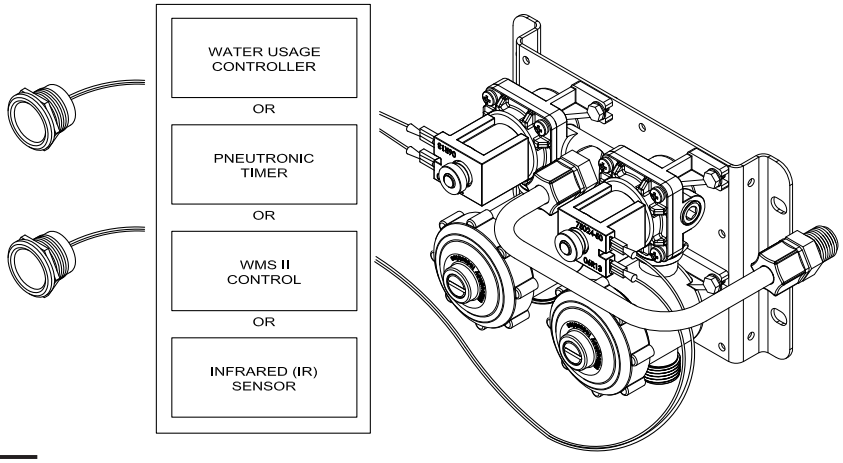
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Willoughby Industries - *Security Products*

E1L2
Dual Temperature
Lead-free
Electronic Valve



Recommended Specifications

Dual Temperature, Lead-free Electronic Valve assembly shall be: Willoughby Model No. **E1L2** (Select from options list)

Stainless steel push buttons on the fixture shall be wired to an appropriate electronic valve control (select from the list of control choices). The vandal-resistant push buttons shall be keyed/ non-removable from the front of the fixture and shall require less than 5 lbs of force to operate.

The plastic valve checkstop/strainers shall feature integral mounting points. Replaceable stainless steel strainer and optional 0.5 GPM flow control can be serviced without disturbing the supply line. Assembly shall use flexible tubing to connect to the filler/ bubbler/shower head. Water inlet is 1/2" MPT and is reversible for either top or bottom supply. A galvanized wall mounting plate is provided, wall anchoring hardware provided by others.

Flexible tubing is supplied for walls up to 8" thick. Recommended operating pressure shall be 35-70 psi. Valve shall withstand pressures up to 90 psi. Cost-reducing manifolded valves shall consist of multiple valve assemblies served by a common supply line. A 24 volt AC source shall be required for a timer and valve operation.

Valve complies with NSF-61 standard.

* This is not a substitute for a thermostatic mixing valve. The delivered water temperature is the result of the two combined inlet temperatures and cannot be adjusted by this valve assembly. The hot side of the valve must be supplied with tempered water.

Flow Selection (choose one):

- ❑ 0.5 GPM Flow (lavatories)
- ❑ 1.5 GPM Flow (showers)
- ❑ 2.0 GPM Flow (showers)
- ❑ NFC (No Flow Control) (showers, up to MA2)

Control:

- ❑ WUCC-3010 ❑ WUSC-2200 ❑ WUSC-2400
- ❑ Pneutronic Timer ❑ WMS II Control
- ❑ Infrared (IR) Sensor

Push Buttons*:

- ❑ PZPB Ligature-resistant Piezo Push Button

*Not required for IR

Options:

- ❑ -MA2 (Double Manifold, no flow limitations)
- ❑ -MA3 (Triple Manifold, 0.5 GPM flow only)
- ❑ -MA4 (Quad Manifold, 0.5 GPM flow only)
- ❑ -TMV In-line Thermostatic Mixing Valve

24 VAC Power Transformer supplied by others.

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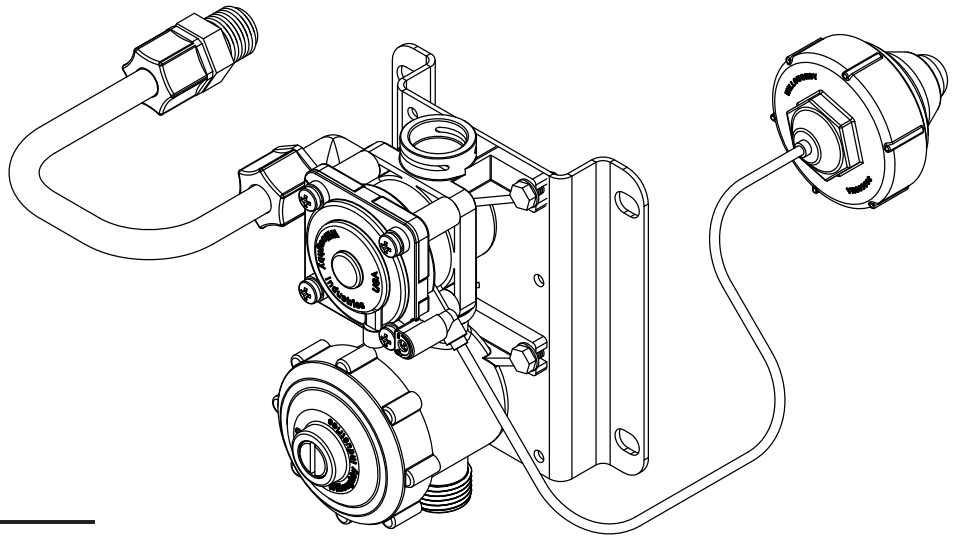
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Willoughby Industries - *Security Products*

PML1 / PSL1
Single Temperature
Lead-free
Pneumatic Valve



(PML1 SHOWN)

Recommended Specifications

Single Temperature, Lead-free Pneumatic Valve assembly shall be: Willoughby Model No. **P__L1** (Select from options list)

The valve assembly shall use diaphragms to pneumatically activate non-hold-open metering (5-90 second) or non-metering pneumatic valves. The vandal-resistant push buttons shall be keyed/non-removable from the front of the fixture and shall require less than 5 lbs of force to operate.

The plastic valve checkstop/strainer shall feature integral mounting points. Replaceable stainless steel strainer and optional 0.5 GPM flow control can be serviced without disturbing the supply line. Assembly shall use flexible tubing to connect to the filler/bubbler/shower head. Water inlet is 1/2" MPT and is reversible for either top or bottom supply. A galvanized wall mounting plate is provided, wall anchoring hardware provided by others.

Flexible tubing is supplied for walls up to 8" thick. Recommended operating pressure shall be 35-70 psi. Valve shall withstand pressures up to 90 psi. The valve must be supplied with tempered water. The maximum length for tubing between the push button actuator and the valve is 10 feet. The pneumatic system is entirely self-contained and shall require no outside air supply. Cost reducing manifolded valves shall consist of multiple valve assemblies served by a common supply line.

Valve complies with NSF-61 standard.

Model Number:

- ❑ PML1 Single Temp. Metering
- ❑ PSL1 Single Temp. Non-metering

Flow Selection (choose one):

- ❑ 0.5 GPM Flow (lavatories)
- ❑ 1.5 GPM Flow (showers)
- ❑ 2.0 GPM Flow (showers)
- ❑ NFC (No Flow Control) (showers, up to MA2)

Push Button:

- ❑ PBH Ligature-resistant Pneumatic Push Button
- ❑ PLPB Pneumatic Palm Push Button

Options:

- ❑ -MA2 (Double Manifold, No flow limitation)
- ❑ -MA3 (Triple Manifold, 0.5 GPM flow only)
- ❑ -MA4 (Quad Manifold, 0.5 GPM flow only)
- ❑ -TMV In-line Thermostatic Mixing Valve

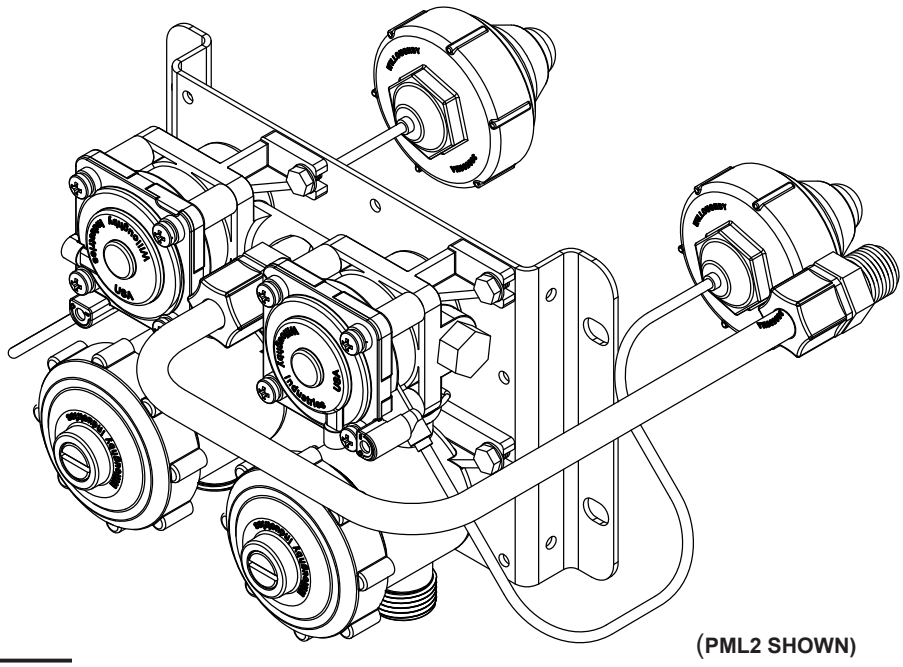
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PML2 / PSL2
Dual Temperature
Lead-free
Pneumatic Valve



(PML2 SHOWN)

Recommended Specifications

Dual Temperature, Lead-free Pneumatic Valve assembly shall be: Willoughby Model No. **P__L2** (Select from options list)

The valve assembly shall use diaphragms to pneumatically activate non-hold open metering (5-90 second) or non-metering pneumatic valves. The vandal-resistant push buttons shall be keyed/non-removable from the front of the fixture and shall require less than 5 lbs of force to operate.

The plastic valve checkstop/strainer shall feature integral mounting points. Replaceable stainless steel strainer and optional 0.5 GPM flow control can be serviced without disturbing the supply line. Assembly shall use flexible tubing to connect to the filler/bubbler/shower head. Water inlet is 1/2" MPT and is reversible for either top or bottom supply. A galvanized wall mounting plate is provided, wall anchoring hardware provided by others.

Flexible tubing is supplied for walls up to 8" thick. Recommended operating pressure shall be 35-70 psi. Valve shall withstand pressures up to 90 psi. The maximum length for tubing between the push button actuator and the valve is 10 feet. The pneumatic system is entirely self-contained and shall require no outside air supply. Cost reducing manifolded valves shall consist of multiple valve assemblies served by a common supply line.
Valve complies with NSF-61 standard.

* This is not a substitute for a thermostatic mixing valve. The delivered water temperature is the result of the two combined inlet temperatures and cannot be adjusted by this valve assembly. The hot side of the valve must be supplied with tempered water.

Model Number:

- ❑ PML2 Dual Temp. Metering
- ❑ PSL2 Dual Temp. Non-metering

Flow Selection (choose one):

- ❑ 0.5 GPM Flow (lavatories)
- ❑ 1.5 GPM Flow (showers)
- ❑ 2.0 GPM Flow (showers)
- ❑ NFC (No Flow Control) (showers, up to MA2)

Push Button:

- ❑ PBH Ligature-resistant Pneumatic Push Button
- ❑ PLPB Pneumatic Palm Push Button

Options:

- ❑ -MA2 (Double Manifold, No flow limitation)
- ❑ -MA3 (Triple Manifold, 0.5 GPM flow only)
- ❑ -MA4 (Quad Manifold, 0.5 GPM flow only)
- ❑ -TMV In-line Thermostatic Mixing Valve

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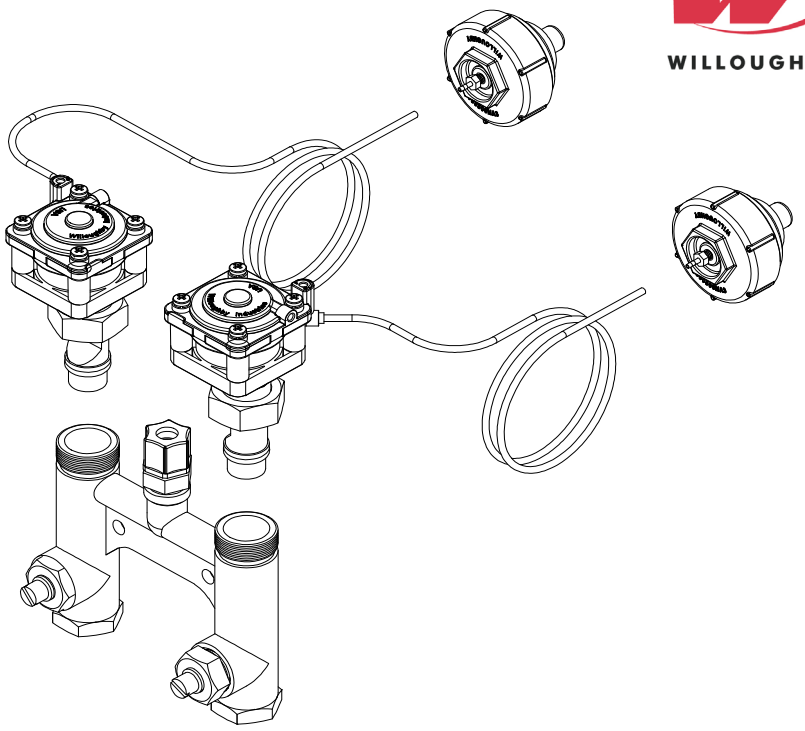
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WRMV / WRSCV Retrofit Valve Assemblies



Recommended Specifications

Retrofit Valve Assembly shall be:
Willoughby Model No. **WR___V-___** (Select from options list)

The Willoughby Retrofit Metering Valve Assembly (WRMV) and Willoughby Retrofit Non-metering Valve Assembly (WRSCV) are designed to easily convert single and dual temperature mechanical valve cartridges, pushrods, and toggles to state-of-the-art pneumatically operated metering or non-metering valve assemblies.

Existing Willoughby valve cartridges manufactured since 1985 can be directly replaced with WRMV and WRSCV retrofit valve assembly kits, specifically Willoughby valve models:

- WM-1 (Single temperature mechanical metering)
- WM-2 (Dual temperature mechanical metering)
- WSC-1 (Single temperature mechanical non-metering)
- WSC-2 (Dual temperature mechanical non-metering)

Certain existing competitors' valves may also be converted to pneumatic operation using the Willoughby WRMV or WRSCV retrofit valve assembly kits. However, conversions may require field modification of existing push button holes in fixture; consult with a Willoughby factory representative for additional details.

The WRMV and WRSCV valve assembly kits shall include:
- Push button-operated pneumatic diaphragm pumps
- Non-hold-open metering (5-90 seconds) or non-metering pneumatic valve cartridges
- 5' of 1/8" tubing for each valve

(All components for both the WRMV and WRSCV kits are the same except for the integral pneumatic valves.)

Vandal-resistant stainless steel push buttons attached to the diaphragm pumps activate the integral pneumatic valve within each valve cartridge via 1/8" pneumatic tubing. The vandal-resistant push buttons shall be keyed/non-removable from the front of the fixture and shall require less than 5 lbs of force to operate.

The pneumatic system is entirely self-contained and requires no outside air supply, eliminating traditional mechanical toggles and pushrod components. Recommended operating pressure will be 35-70 psi. Valves shall withstand pressures up to 90 psi.

Model Number:

- ❑ WRMV-1B Single Temp. Metering Valves
- ❑ WRMV-2B Dual Temp. Metering Valves
- ❑ WRSCV-1B Single Temp. Non-metering Valves
- ❑ WRSCV-2B Dual Temp. Non-metering Valves

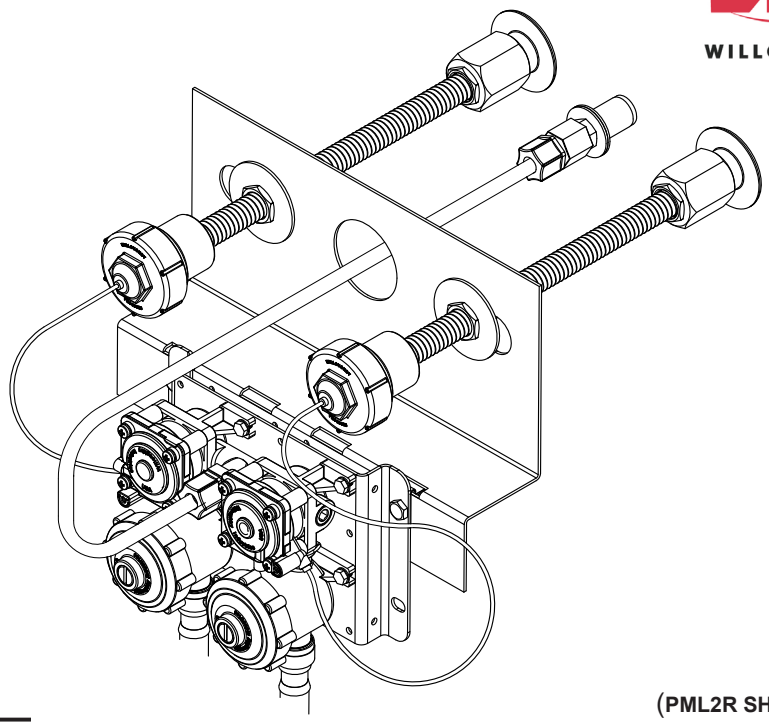
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PML2R / PSL2R Dual Temperature Replacement Pneumatic Valve



(PML2R SHOWN)

Recommended Specifications

Dual Temperature, Lead-free, Replacement Pneumatic Valve assembly shall be: Willoughby Model No. **P__L2R**
(Select from options list)

This valve is designed to replace existing valves on china and aluminum fixtures with integral bubblers. The valve assembly shall use diaphragms to pneumatically activate non-hold open metering (5-90 second) or non-metering pneumatic valves. The vandal-resistant push buttons shall be keyed/non-removable from the front of the fixture and shall require less than 5 lbs of force to operate.

The plastic valve checkstop/strainer shall feature integral mounting points. Replaceable stainless steel strainer and optional 0.5 GPM flow control can be serviced without disturbing the supply line. Assembly shall use flexible tubing to connect to the filler/bubbler/shower head. Water inlet is 1/2" MPT and is reversible for either top or bottom supply. A galvanized wall mounting plate is provided, wall anchoring hardware provided by others.

Flexible tubing is supplied for walls up to 8" thick. Recommended operating pressure shall be 35-70 psi. Valve shall withstand pressures up to 90 psi. The maximum length for tubing between the push button actuator and the valve is 10 feet. The pneumatic system is entirely self-contained and shall require no outside air supply. Cost reducing manifolded valves shall consist of multiple valve assemblies served by a common supply line.

Valve complies with NSF-61 standard.

Model Number:

- ❑ PML2R Dual Temp. Metering
- ❑ PSL2R Dual Temp. Non-metering

Inlet Connection (choose one):

- ❑ 3/4"
- ❑ 1"

Options:

- ❑ -MA2 (Double Manifold, No flow limitation)
- ❑ -MA3 (Triple Manifold, 0.5 GPM flow only)
- ❑ -MA4 (Quad Manifold, 0.5 GPM flow only)
- ❑ -TMV In-line Thermostatic Mixing Valve

* This is not a substitute for a thermostatic mixing valve. The delivered water temperature is the result of the two combined inlet temperatures and cannot be adjusted by this valve assembly. The hot side of the valve must be supplied with tempered water.

** Push buttons require minimum Ø1-5/16" round or 1-1/8" square backsplash openings.

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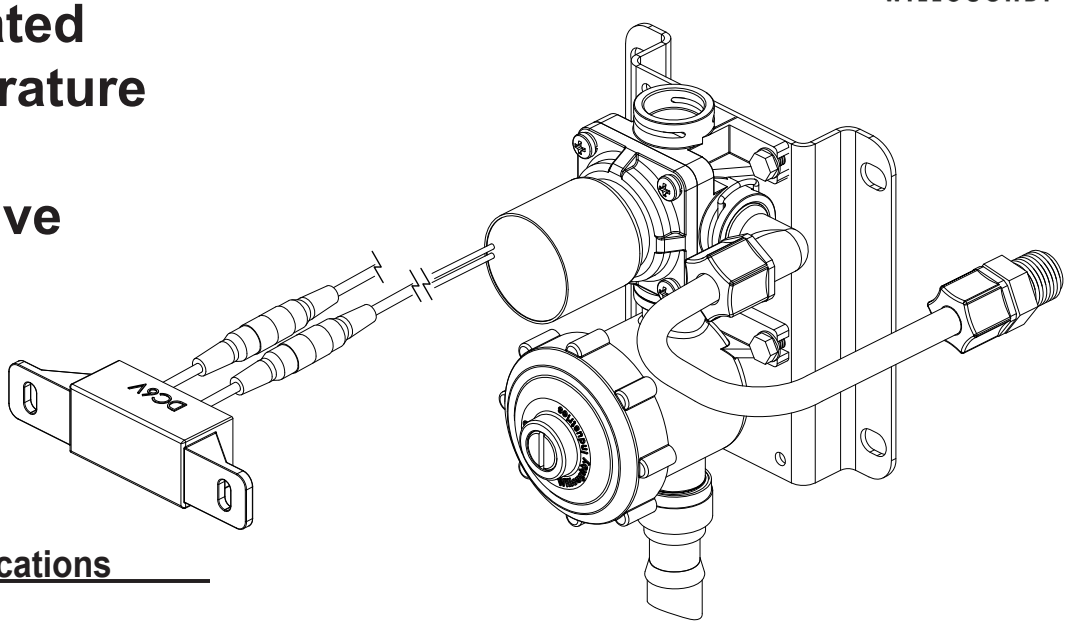
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WILLOUGHBY

EBL1
Battery Operated
Single Temperature
Lead-free
Electronic Valve



Recommended Specifications

Battery Operated, Single Temperature, Lead-free, Electronic Valve assembly shall be: Willoughby Model No. **EBL1**
(Select from options list)

For washfountain use exclusively, the Battery Operated Electronic Valve assembly uses a 6V DC battery pack to power a latching valve coil solenoid controlled by an infrared sensor. The vandal-resistant infrared sensors shall be non-removable from the front of the fixture, each activating an independent valve assembly within 1-2 seconds of detection.

The plastic valve checkstop/strainers shall feature integral mounting points. Replaceable stainless steel strainer and optional 0.5 GPM flow control can be serviced without disturbing the supply line. Assembly shall use flexible tubing to connect to the spray-head/filler/bubbler. Water inlet is 1/2" MPT and is reversible for either top or bottom supply. A galvanized mounting plate is provided for mounting within the fixture.

Recommended operating pressure shall be 35-70 psi. Valve shall withstand pressures up to 90 psi. Cost-reducing manifolded valves shall consist of multiple valve assemblies served by a common supply line. Each 6V latching valve coil shall require an individual DC battery pack using (4) AA-type batteries for valve operation (supplied by manufacturer).

Valve complies with NSF-61 standard.

Model Number:

❑ EBL1 Single Temp. Battery Operated

Options:

❑ -MA2 (Double Manifold, no flow limitation)
❑ -MA3 (Triple Manifold, 0.5 GPM flow only)
❑ -MA4 (Quad Manifold, 0.5 GPM flow only)
❑ -TMV In-line Thermostatic Mixing Valve

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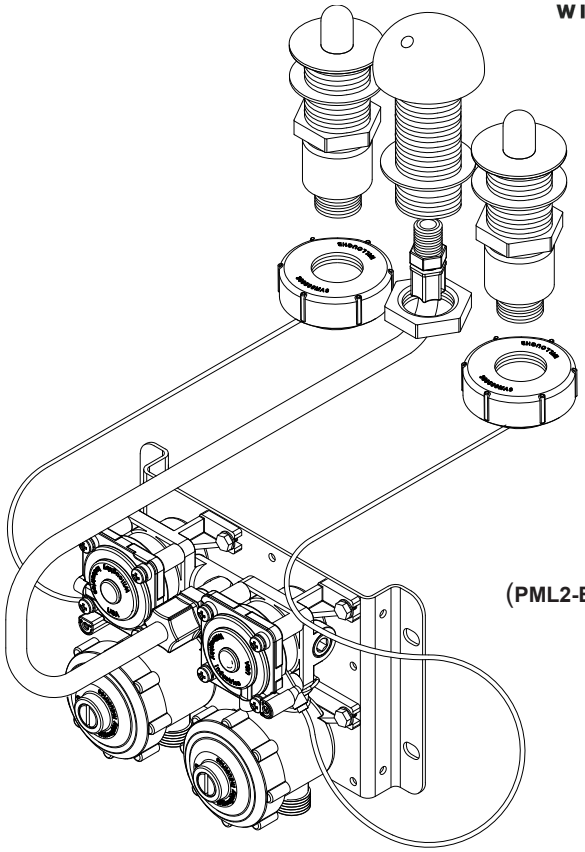
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PML-BHF
Lead-free
Behavioral Healthcare
Pneumatic Faucet



(PML2-BHF SHOWN)

Recommended Specifications

Lead-free Behavioral Healthcare Pneumatic Faucet shall be:
Willoughby Model No. **PML-BHF**
(Select from options list on the following page)

The Behavioral Healthcare Faucet is designed to either retrofit existing lavatories or be specified for new design. Faucet shall be deck mounted, requiring (3) Ø1-5/16" to Ø1-1/2" faucet holes (faucet holes between 4" centerset to 8" centerset are recommended). Bubbler and push buttons shall be machined from T303 stainless steel and shall have ligature-resistant hemispherical designs.

Valve constructed of stainless steel and plastic materials and complies with NSF-61 standard. The valve assembly shall use a diaphragm to pneumatically activate a non-hold-open metering (5-90 second) pneumatic valve assembly. The push button shall require less than 5 lbs. of force to operate. Vandal resistant stainless steel push button and keyed pump body shall be non-removable from the top of the fixture deck. The valve flow is 0.5 GPM.

The plastic valve checkstop/strainer shall feature integral mounting points. Replaceable stainless steel strainer and optional 0.5 GPM flow control can be serviced without disturbing the supply line. Assembly shall use flexible tubing to connect to the filler/bubbler. Water inlet is 1/2" MPT and is reversible for either top or bottom supply. A galvanized wall mounting plate is provided, wall anchoring hardware provided by others.

Recommended operating pressure shall be 35-70 psi. Valve shall withstand pressures up to 90 psi. The maximum length for tubing between the push button actuator and the valve is 10 feet. The pneumatic system is entirely self-contained and shall require no outside air supply.

* The PML2 valve is not a substitute for a thermostatic mixing valve. In dual temperature valves, the delivered water temperature is the result of the two combined inlet temperatures and cannot be adjusted by this valve assembly. The hot side of the valve must be supplied with tempered water.

An In-line Thermostatic Mixing Valve (TMV) is available (select from options list on the following page).

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MODEL NUMBER AND OPTIONS:

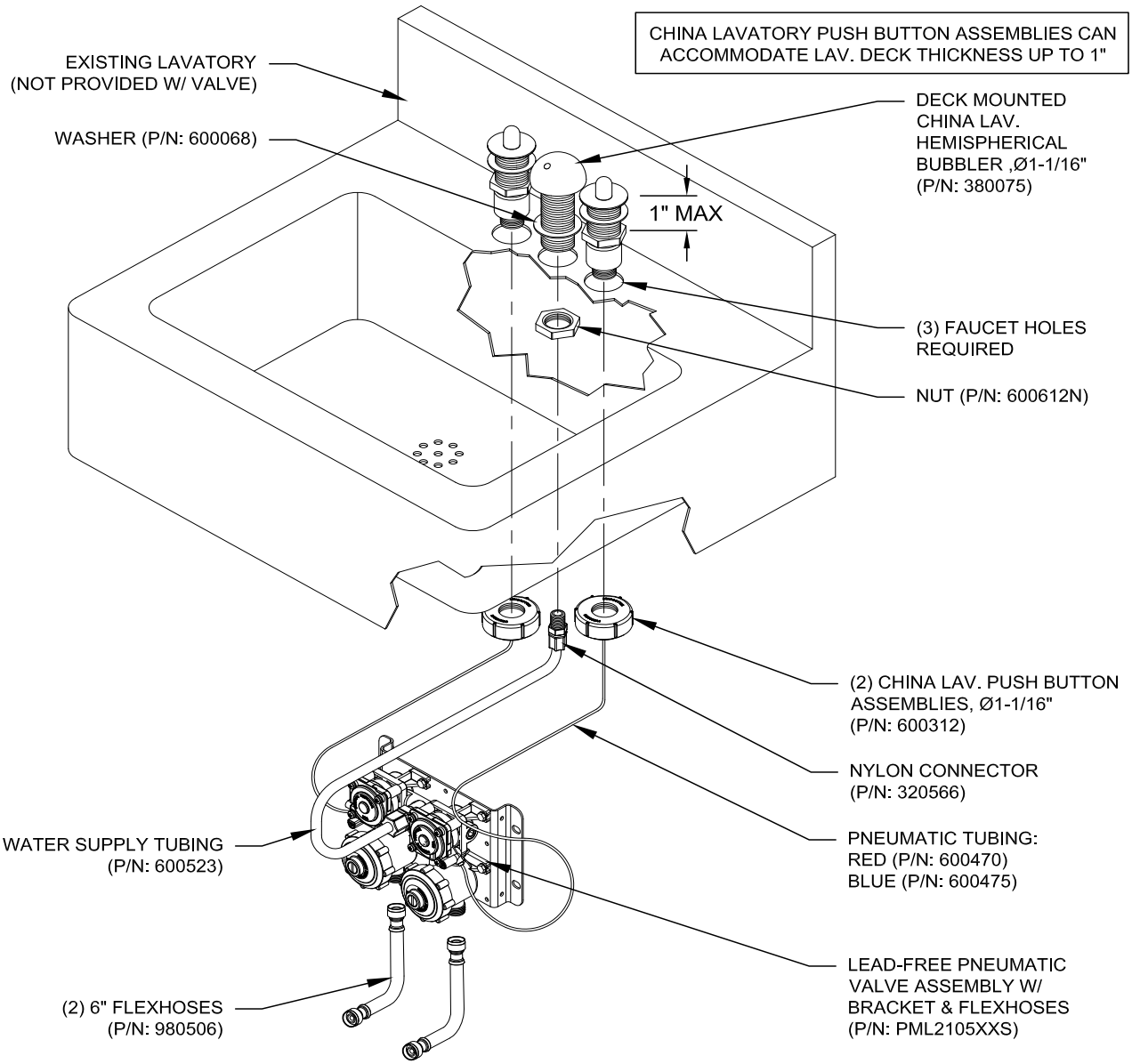
1.) Valve Selection: (Choose One)

❑ PML1-BHF Single Temperature Metering Valve
❑ PML2-BHF Dual Temperature Metering Valve

2.) Options:

❑ TMV In-line Thermostatic Mixing Valve

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____



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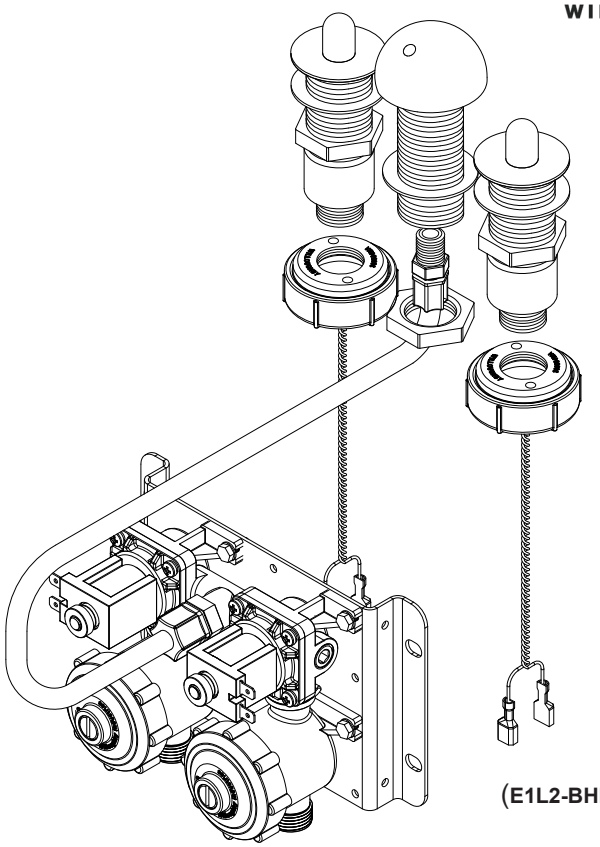
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E1L-BHF
Lead-free
Behavioral Healthcare
Electronic Faucet



(E1L2-BHF SHOWN)

Recommended Specifications

Lead-free Behavioral Healthcare Electronic Faucet shall be:
Willoughby Model No. **E1L-BHF**
(Select from options list on the following page)

The Behavioral Healthcare Faucet is designed to either retrofit existing lavatories or be specified for new design. Faucet shall be deck mounted, requiring (3) Ø1-5/16" to Ø1-1/2" faucet holes (faucet holes between 4" centerset to 8" centerset are recommended). Bubbler and push buttons shall be machined from T303 stainless steel and shall have ligature-resistant hemispherical designs.

Valve constructed of stainless steel and plastic materials and complies with NSF-61 standard. The valve assembly shall use a non-hold-open metering valve assembly. The push button shall require less than 5 lbs. of force to operate. Vandal resistant stainless steel push button and keyed pump body shall be non-removable from the top of the fixture deck. The valve flow is 0.5 GPM.

The plastic valve checkstop/strainer shall feature integral mounting points. Replaceable stainless steel strainer and 0.5 GPM flow control can be serviced without disturbing the supply line. Assembly shall use flexible tubing to connect to the bubbler. Water inlet is 1/2" MPT. A galvanized wall mounting plate is provided, wall anchoring hardware provided by others.

Recommended operating pressure shall be 35-70 psi. Valve shall withstand pressures up to 90 psi. A 24 volt AC source shall be required for WUCC-3010 controller and valve operation.

* The E1L2 valve is not a substitute for a thermostatic mixing valve. In dual temperature valves, the delivered water temperature is the result of the two combined inlet temperatures and cannot be adjusted by this valve assembly. The hot side of the valve must be supplied with tempered water.

An In-line Thermostatic Mixing Valve (TMV) is available (select from options list on the following page).

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MODEL NUMBER AND OPTIONS:

1.) Valve Selection: (Choose One)

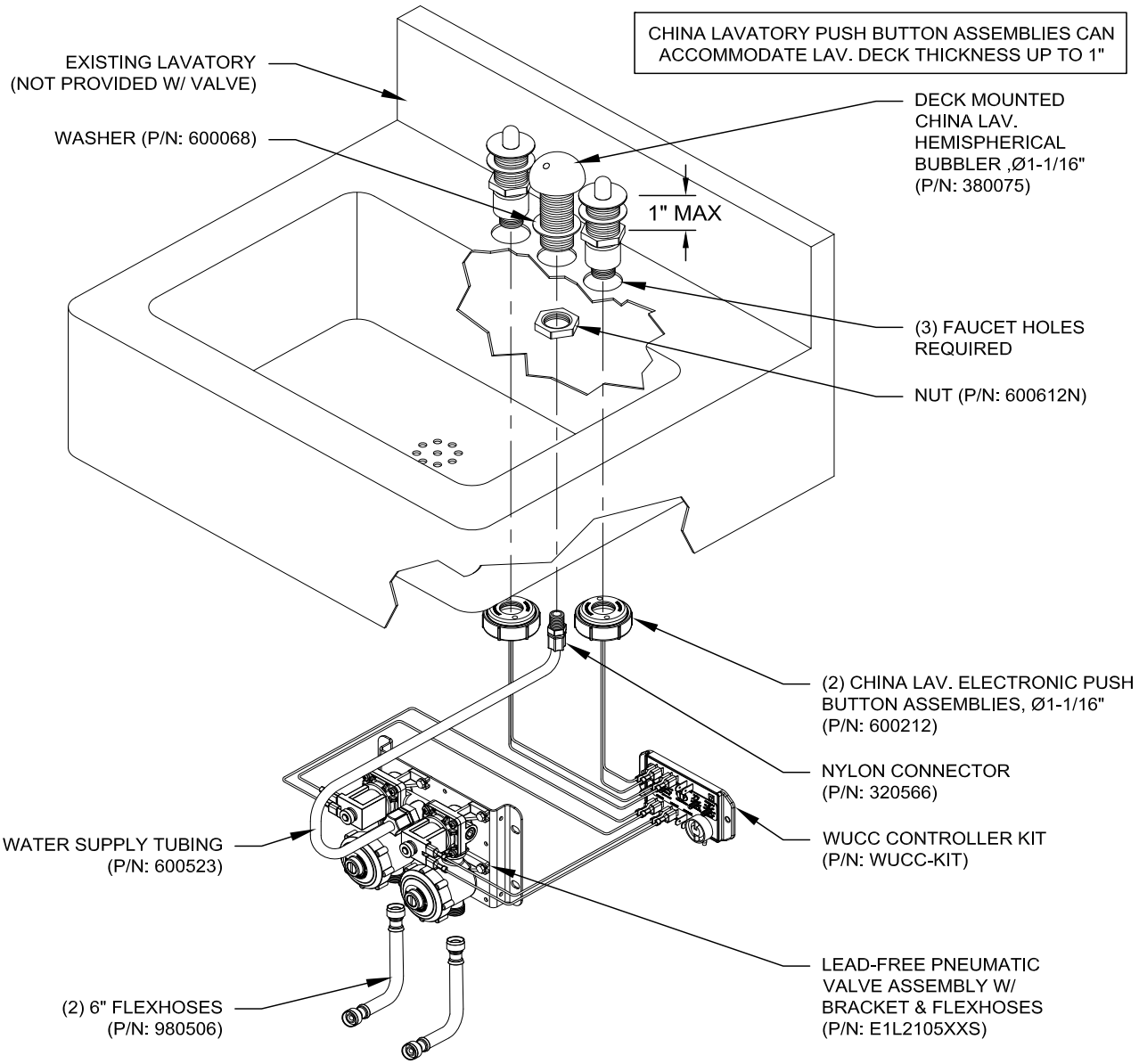
❑ E1L1-BHF Single Temperature Metering Valve
❑ E1L2-BHF Dual Temperature Metering Valve

2.) Options:

❑ TMV In-line Thermostatic Mixing Valve
❑ TF24H Hard-Wire Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____



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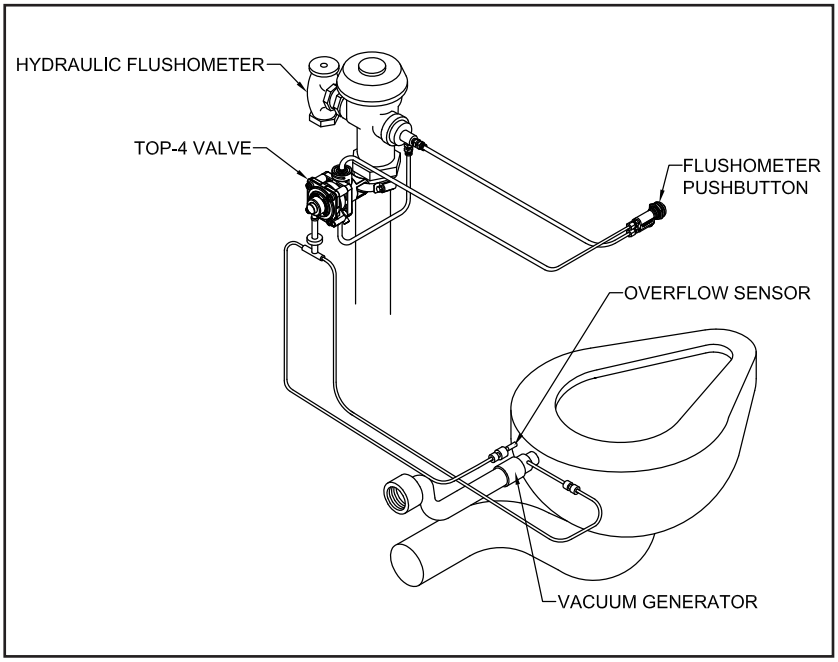
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WILLOUGHBY

T4
Toilet Overflow Preventer



Recommended Specifications

Toilet overflow preventer shall be: Willoughby Model No. **T4**

The toilet overflow preventer shall be installed on a Willoughby toilet or combination toilet/lavatory fixture to prevent overflow. The unit shall consist of a vacuum operated disabler, a vacuum generator and an overflow sensor.

The vacuum generator and overflow sensor shall be factory installed in all specially modified fixtures. The disabler valve shall be installed in the control circuit of a hydraulic flushometer. Vacuum connections between the disabler valve and the fixture shall be polyethylene tubing.

After a backup, the unit shall be manually reset by a push button on the disabler valve. The unit shall allow no overflow and require no outside power source.

Applications

The toilet overflow preventer is recommended for facilities with high vandalism (prisons, parks, schools, etc.) and is normally used in conjunction with a back supply toilet or combination unit where an accessible pipe chase is provided.

Operation

During each flush cycle, water flowing through the fixture produces a vacuum at the vacuum generator. Normally, this vacuum is drawn unrestricted through the overflow sensor.

Should the water level in the bowl rise due to intentional blocking of the drain or a clog downstream of the fixture, it will cover the opening of the sensor.

When water is drawn into the sensor, the majority of the vacuum will be redirected to the disabler valve. The disabler valve is normally open vacuum operated installed in the control circuit of a hydraulic flushometer. The vacuum closes the disabler valve thereby preventing any additional flushes until the unit is manually reset.

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T4A Toilet Overflow Preventer with Auto-Reset

Recommended Specifications

Auto-reset toilet overflow preventer shall be:
Willoughby Model No. **T4A**

The toilet overflow preventer shall be installed on a Willoughby toilet or combination toilet/lavatory fixture to prevent overflow.

The unit shall consist of a vacuum operated disabler, a vacuum generator, an overflow sensor and a float sensor canister. The vacuum generator and overflow sensor shall be factory installed in all specially modified fixtures. The disabler valve shall be installed in the control circuit of a hydraulic flushometer. Vacuum connections between the disabler valve and the fixture shall be polyethylene tubing.

After a backup, the unit shall automatically reset by the lowering of the water in the toilet bowl to normal level. The unit shall allow no overflow and require no outside power source.

Applications

The toilet overflow preventer is recommended for facilities with high vandalism (prisons, parks, schools, etc.), and is normally used in conjunction with a back supply toilet or combination unit where an accessible pipe chase is provided.

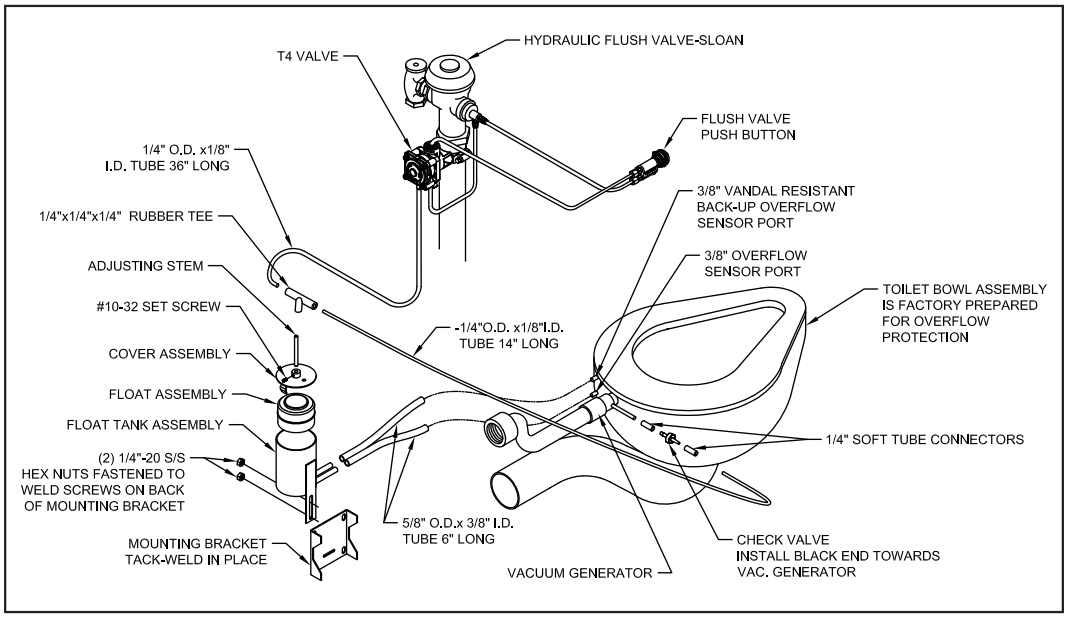
Operation

During each flush cycle, water flowing through the fixture produces a vacuum at the vacuum generator. Normally, this vacuum is drawn unrestricted through the overflow sensor.

Should the water level in the bowl rise due to intentional blockage or down stream obstruction, water covers the overflow sensor port and fills the float canister. The float rises and directs the vacuum to the disabler valve.

The disabler valve is normally open vacuum operated valve installed in the control circuit of a hydraulic flushometer. The vacuum closes the disabler valve thereby preventing any additional flushes until the water level in the toilet bowl returns to normal.

When the water level drops, the float canister drains back to the toilet bowl lowering the float. Once the float lowers to its normal position it permits air to enter the system which opens the disabler valve and allows normal flush operation.



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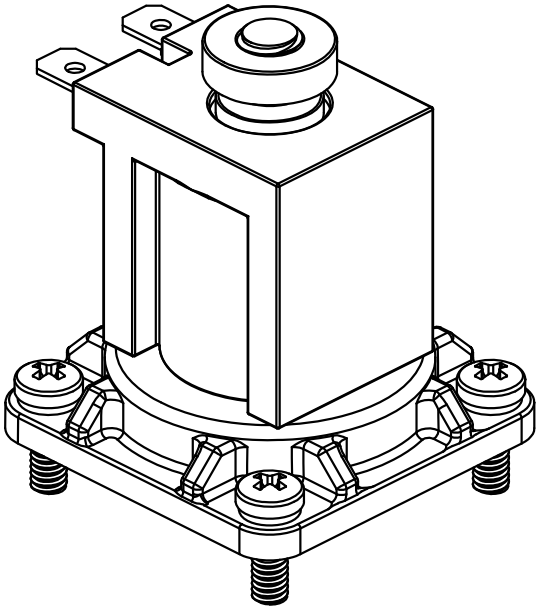
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EVK-4
Lead-free Electronic Valve Retrofit / Rebuild Kit



Recommended Specifications

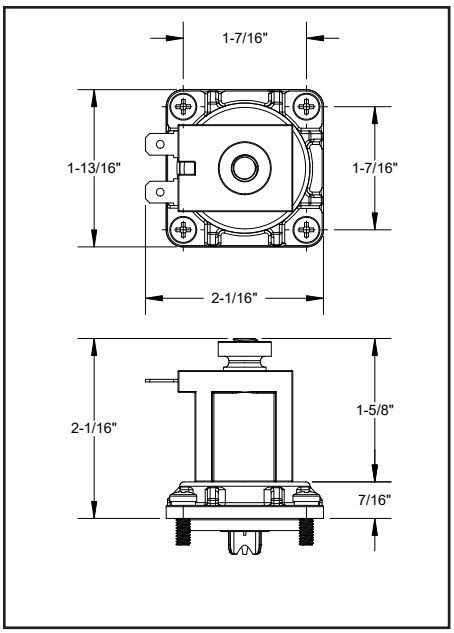
Lead-free Electronic Valve Retrofit / Rebuild Kit shall be: Willoughby Model No. **EVK-4**

Lead-free Electronic Valve Retrofit / Rebuild Kit can be used to retrofit an existing pneumatic valve to electronic operation; it can also be used to rebuild an existing electronic valve, to restore a fixture to proper operation.

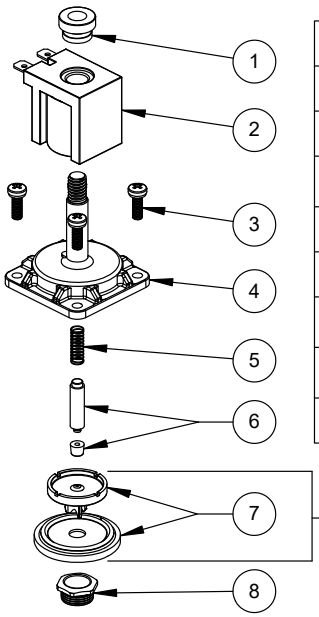
Valve Kit components shall comply with NSF-61 standard.

Recommended operating pressure shall be 35-70 psi. Valve shall withstand pressures up to 90 psi. Controller and 24VAC power source shall be required for a timer and valve operation. (Controller and Transformer each sold separately)

Note: Parts listed in EVK-4 are available individually; PVK-3 Parts are available in kit form only.



REFERENCE DIMENSIONS



ITEM #	PART #	DESCRIPTION	QTY.
1	980534	NYLON NUT, 5/16-18	1
2	980532	COIL, 24V AC	1
3	980170A	#8-32 x 1/2 " SCREW W/SEMS SPLIT L/W	4
4	980530	ARMATURE CAP, 24V VALVE	1
5	980533	SPRING, 5/8 24v VALVE	1
6	980565	ARMATURE BUMPER ASSEMBLY, EL VALVE	1
7	980305	WATER SIDE DIAPHRAGM/ADAPTOR ASSY.	1
8	380897	VALVE SEAT, w/O-RING	1

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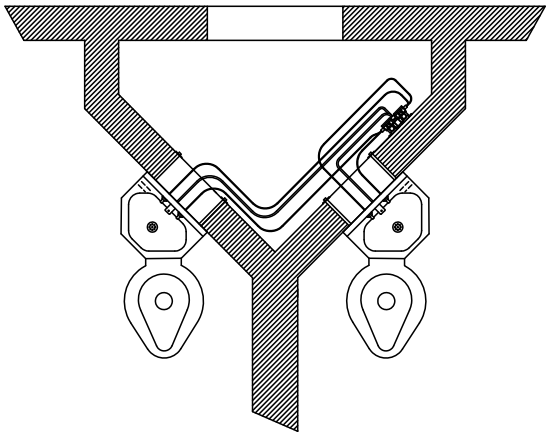
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VALVE MANIFOLDING

Valve Manifolding

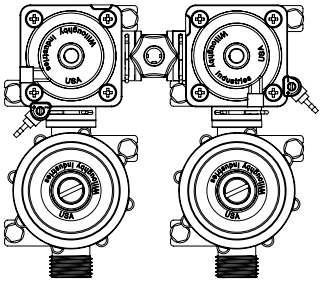
"MANIFOLDING" Willoughby's suffix "MA" allows for the operation of up to four fixtures from a common pair of Hot/Cold supply lines.



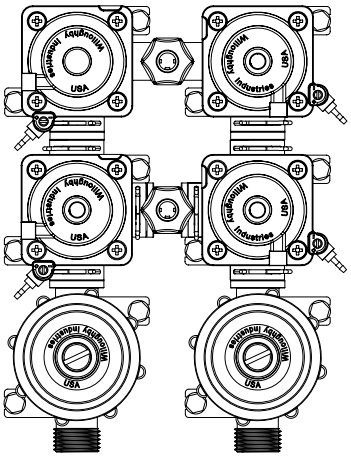
Primary Advantages

- Reduces installation costs, labor & materials
- Easy access for maintenance
- Adds flexibility to your design

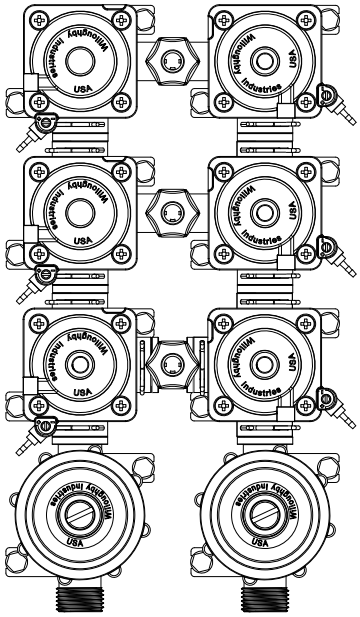
To specify, add suffix "MA" to valve model number followed by 2, 3, or 4 to indicate number of fixtures to be manifolded.



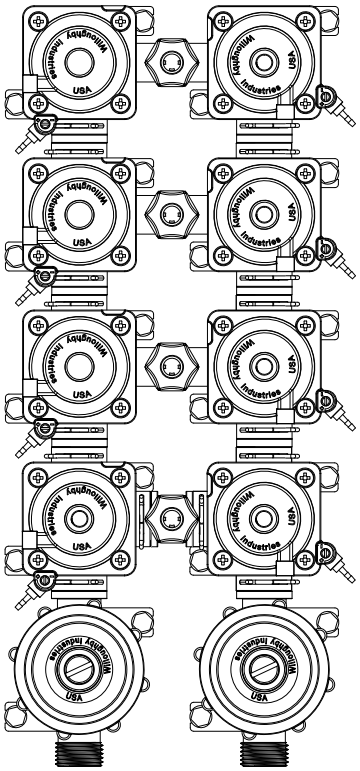
SINGLE UNIT
(1 FIXTURE)



DUAL MANIFOLD
-MA2 (2 FIXTURES)



TRI MANIFOLD
-MA3 (3 FIXTURES)



QUAD MANIFOLD
-MA4 (4 FIXTURES)

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VALVE CHARACTERISTICS

Valve Series	For Lavatory Use	For Drinking Fountain Use	For Shower Use	Barrier Free	Pushbutton Activation	Valve Operation	Metering Control	Non-Hold Open Feature	Metering Range	Checkstops & Strainers	Manifold Capability	Remote Mounting Distance	Type of Inlets	Power Source Required
ME	Yes	No	Yes	No	Mech.	Mech.	Hyd.	No	5-60	Yes	No	N/A	1/2" FPT	No
SC	Yes	No	No	No	Mech.	Mech.	N/A	N/A	N/A	Yes	No	N/A	1/2" FPT	No
PM	Yes	No	Yes	Yes	Pneu.	Pneu.	Pneu.	Yes	5-90 Sec.	Yes	Yes	Up to 10'	1/2" FPT	No
PS	Yes	Yes	No	Yes	Pneu.	Pneu.	N/A	N/A	N/A	Yes	Yes	Up to 10'	1/2" FPT	No
EL	Yes	No	Yes	Yes	Pneu. Elec.	Elec.	Elec.	Yes	1-Sec. 15 min.	Yes	Yes	10'+	1/2" FPT	Yes

Note: Willoughby valves do not control water temperatures and shall not be used in lieu of tempering valves. For more informaton on tempering valves, please contact the factory 1-800-428-4065.

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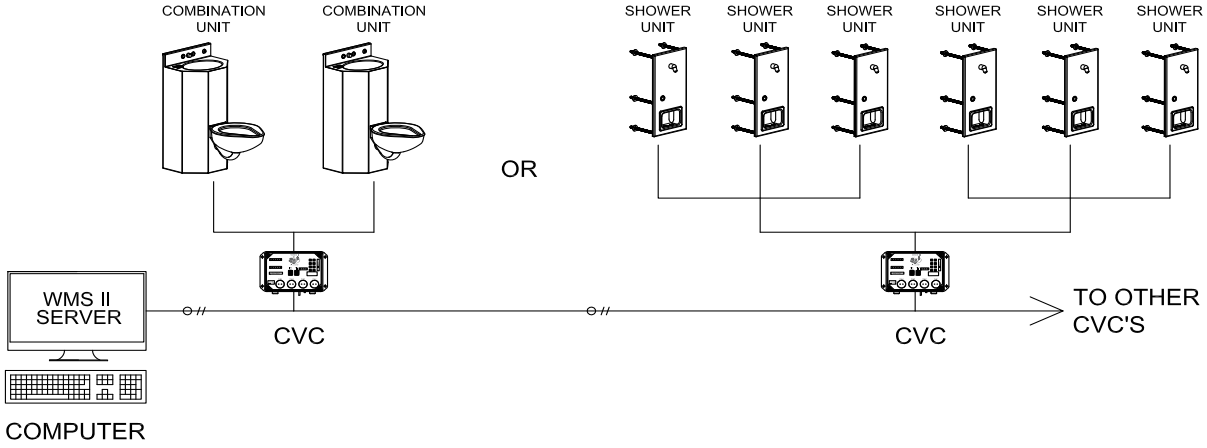
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WMS II
Water Management System- Networked



Recommended Specifications

Electronic water management system shall be:
Willoughby Model: **WMS II**

Water management system shall be PC based and running on a Windows 7 or newer operating system. PC shall serve as the operator interface serving multiple individual trunks of networked Cell Valve Controllers.

Individual Cell Valve Controllers (CVC's) shall be located in the plumbing chase and shall control the operation of electronic lavatory valves, electronic shower valves and electronic-hydraulic flush valves. An option shall also be provided to control the operation of a master shut-off valve that provides water to an area of several cells or fixtures.

CVC's shall require 24 volts AC for operation and shall retain all memory of settings in the event of power interruption. System manufacturer shall supply 120/24 VAC step down transformers. Each CVC shall be capable of controlling up to 2 lavatory/toilet combination units (1 hot valve, 1 cold valve and 1 flush valve for each unit), 3 individual lavatories or up to 4 toilets with overflow sensing (6 toilets without overflow sensing) or combinations thereof for a total of 6 individual low voltage solenoid valves. CVC's shall be modular and capable of operating in a fully networked or stand-alone configuration.

A diagnostic light on the CVC indicates the presence of control power in the CVC. A flashing light indicates the computer in the CVC is operational. Another flashing light indicates network communication activity.

Valve output lights on the CVC shall provide the status of all valve outputs. An additional set of lights shall indicate the presence and type of any lockout condition on valve function.

Diagnostic push buttons on the CVC shall also be provided to enable maintenance personnel to activate valves and overflow functions from the plumbing chase.

Valve activation shall come from vandal-resistant stainless steel internally sealed push buttons. Push buttons shall require less than 5 pounds of force to activate. Push button housing shall be isolated from the low voltage wiring.

All solenoid valves shall be non-hold open and all metering times shall be independently adjustable. Metering time for each valve shall be adjustable from 1 to 60 seconds for each lavatory valve, 1 to 10 seconds for each flush valve and 1 second to 9 minutes and 59 seconds for each shower valve. Metering cycles shall be interruptible with a second push of the button. All the settings can either be set for a single fixture or a mass selection of all fixtures of the same type on the PC screen.

A programmable re-initiate delay feature for fixture functions shall be provided to control their amount of use to a preset threshold after which the function will be locked out for a preset period of time of up to four hours. A parallel pre-initiate delay feature shall also be provided to insert time between switch actuation and the subsequent valve actuation.

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Configurable overuse limits shall be provided to control the amount of use of all fixture functions within a programmable time period of up to 24 hours. Overuse control shall be configurable to trigger only notification, latched lock out of the fixture function, or auto-limit of fixture function to prevent its overuse.

A fully networked system shall consist of CVC's in the plumbing chases and a PC workstation located in a control room which has a PC with a 15" or larger color monitor. Optional touch screen interface shall be available as an option.

The PC workstation shall display all fixtures and indicate their operations graphically in row and column format. An option to provide a representation of the facility floor plan may also be selected.

The workstation shall be capable of controlling up to 4 networks, each consisting of a maximum 127 nodes and up to 4,000 ft. of network wiring. Twisted 3-pair cable of CAT 3 rating shall be used for all network wiring (provided by others). Stand-alone CVC's not connected to a network shall be programmed via an optional portable device or programmed at the factory.

In the event of a loss of network communications or a loss of power, system timing parameters shall be retained in each CVC to allow fixtures to operate in the same way that they operated prior to the loss of power or the loss of network communications.

Supplied valve and switch cabling from the control board shall each be 8 feet with the option to easily add extensions if necessary for unique control mounting situations.

Note: Willoughby will require an electronic CAD file (DWG or DXF) of the facility floor plan identifying the fixtures to be controlled by the WMSII system.

1.) Control System:

❑ WMSII

2.) Control Station:

❑ Desktop PC
  ❑ Touch Screen (LCD) (Standard)
❑ Laptop PC
❑ No PC (Stand-alone only)

3.) Other Options:

❑ Floor Plan Screen Layout (Standard)
❑ On-site Start-Up, and Commissioning
  (must be scheduled 30 days prior to training and after complete installation and testing of the system)
❑ On-site Owner Training Session
  (must be scheduled 30 days prior to training and after complete installation and testing of the system)

THE NETWORKED SYSTEM SHALL BE CAPABLE OF:

- Enabling or disabling an individual fixture or an entire group of fixtures from the control station.
- Controlling the maximum number of simultaneous flushes (adjustable from 1 to 999) that can occur within a given time period (adjustable from 1 to 60 seconds).

(CONTINUED FROM BELOW):

- Automatically flushing a toilet after an adjustable period of non-use has passed to prevent trap from drying out and creating stagnate water.
- Allowing for remote actuation of fixtures from the control station
- Providing scheduled permit or lockout time periods per day for selected fixtures.
- Providing indication and reset capability of overflow alarms.
- Logging all valve activity chronologically including overuse and overflow occurrences.
- Providing 4 levels of security: view only, operator, supervisor, and administrator (Each level includes the functions of the previous lower level.)
- Providing an elapsed-time lock for a fixture to be dynamically locked for a specific period of time (adjustable from 1 minute - 4 hours)
- Providing an automatic actuation of fixture function at preset intervals (adjustable from 1 minute - 240 hours) (It can be used to remove all control from the fixture user and tie fixture function to regular timed intervals.)

◦ View-only Security Level
- Move between display screens
- Observe fixture activity on screens
- Observe any loss of communications to fixture controllers
- Log into a higher security level

◦ Operator Security Level
- Remote valve actuation
- Fixture lockout/reset
- Clear alarms (overflow and overuse)

◦ Supervisor Security Level
- Set and adjust valve timing
- Set and adjust initiate and re-initiate delays
- Set and adjust permit (lockout) schedules
- Set and adjust overuse limits and responses
- Set alarm display options
- Turn on and set FlushGuard to limit simultaneous flushes
- Access fixture event log (if enabled by administrator)
- Use log files to analyze water-consumption history
- Enable and disable sound effects
- Access system user log file (if enabled by administrator)
- Optional selection of a 24 hour point at which all over-use counts will be reset

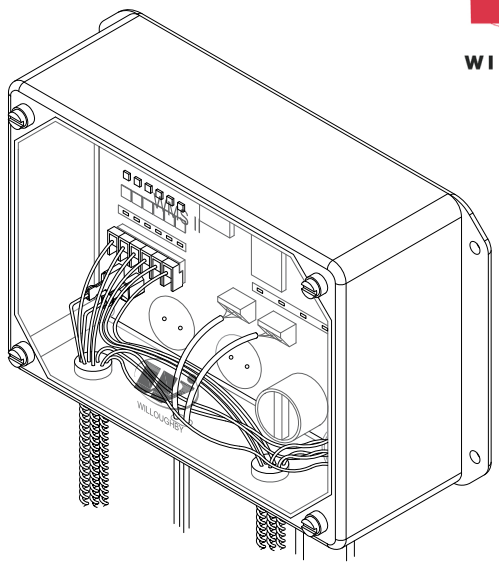
◦ Administrator Security Level
- Create system user accounts with name, password, and security level defined
- Set and adjust network communication settings
- Enable and configure remote client connections to server
- Configure fixture event log files and user activity log files
- Set sound files to be used when sound feature is enabled

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CVC2
Willoughby WMS II
Cell Valve Controller



Recommended Specifications

Electronic water management Cell Valve Controller shall be:
Willoughby Model: **CVC2**

Willoughby WMS II Cell Valve Controllers (CVCs) shall be located in the plumbing chase and shall control the operation of selected electronic lavatory valves, electronic shower valves, and electronic toilet flush valves.

CVCs are modular, factory-wired, and capable of operating in either stand-alone or fully-networked configurations (See WMS II Spec Page for networking details). A fully-networked system of chase-mounted CVCs can be controlled using Willoughby electronic Water Management Software installed on a secure central control room PC workstation.

Each CVC shall be capable of controlling up to six (6) individual low-voltage solenoid valves. Possible configurations include:

- (2) Lavatory/toilet combination units (each combination unit having (2) lavatory valves (hot & cold) and (1) flush valve)
- (3) Individual lavatories (hot and cold)
- (4) Toilets with overflow sensing
- (6) Toilets without overflow sensing
- (6) Single temperature showers
- Any combination totaling not more than (6) individual valves

CVCs shall require 24 Volt AC for operation and shall retain all memory of settings in the event of power interruption. System manufacturer shall supply a hard-wire 120/24 VAC 40VA step down transformer (option TF24H) with each controller A plug-in transformer is also available (option TF24P). The CVC's electronic circuitry shall be encased in a water-resistant (not waterproof) enclosure; as with all electrical and electronic equipment, avoid contact with water especially once connected to the power supply.

Standard Features

Each valve activation shall be controlled by a vandal-resistant, internally-sealed, stainless steel push button. Each push button shall require less than 5 lbs. of force to activate.

All solenoid valves shall be non-hold-open and all metering times shall be independently adjustable for each valve:

- (1 to 60 sec.) for each lavatory valve
- (1 to 10 sec.) for each flush valve
- (1 sec. to 9 min. 59 sec.) for each shower valve

Metering cycles can be interrupted with a second button push.

Diagnostic push buttons on the CVC will enable maintenance personnel to activate valves and overflow functions from the chase.

CVCs shall also include separate diagnostic lights to indicate:

- Presence of control power in the CVC
- Network communication activity (in networked CVCs)
- Status of all valve outputs
- Presence and type of any lockout condition on valve function

A programmable re-initiate delay feature shall be provided to control amount of fixture use to a preset threshold. Once the fixture use threshold has been reached, function will be locked-out for a preset time period (up to 4 hours).

A parallel pre-initiate delay feature shall also be provided to insert time between switch actuation and the subsequent valve actuation.

Configurable overuse limits shall be provided to control the amount of use of all fixture functions within a programmable time period of up to 24 hours. Overuse control shall be configurable to trigger only notification, latched lock-out of the fixture function, or auto-limit of fixture function to prevent its overuse.

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MODEL NUMBER AND OPTIONS:

1.) Control System:

❑ CVC2 Cell Valve Controller

2.) Control Station:

❑ Stand-alone (Standard)
❑ Networked PC (Additional Cost)
❑ Laptop PC (Additional Cost)
(Laptop PC recommended for field-adjustment of CVC settings)

3.) Toilet Parameter Configuration:

Number of Toilets with Overflow Sensing: _____(4 max.)
Number of Toilets w/o Overflow Sensing: _____(6 max.)

❑ (3) Flushes per (1 Hr.) with (1 Hr.) Lock-out
❑ Custom: (__) Flushes per (__ Hr.), with (__ Hr.) Lock-out

4.) Lavatory Parameter Configuration:

Number of Lavatories: ____ Single or Dual Temp: _____

❑ (15 sec.) per Button-push, (5 min.) of Water Flow per (30 min.)
❑ Custom: (____ sec.) per Button-push,
(____ min.) of Water Flow per (____ min.)
with (___ min.) Lock-out

5.) Shower Parameter Configuration:

Number of Showers: ____ Single or Dual Temp: _____

❑ (2 min.) per Button-push, (8 min.) of Water Flow per (30 min.), with (30 min.) Lock-out
❑ Custom: (___ min.) per Button-push,
(___ min.) of Water Flow per (___ min.),
with (___ min.) Lock-out

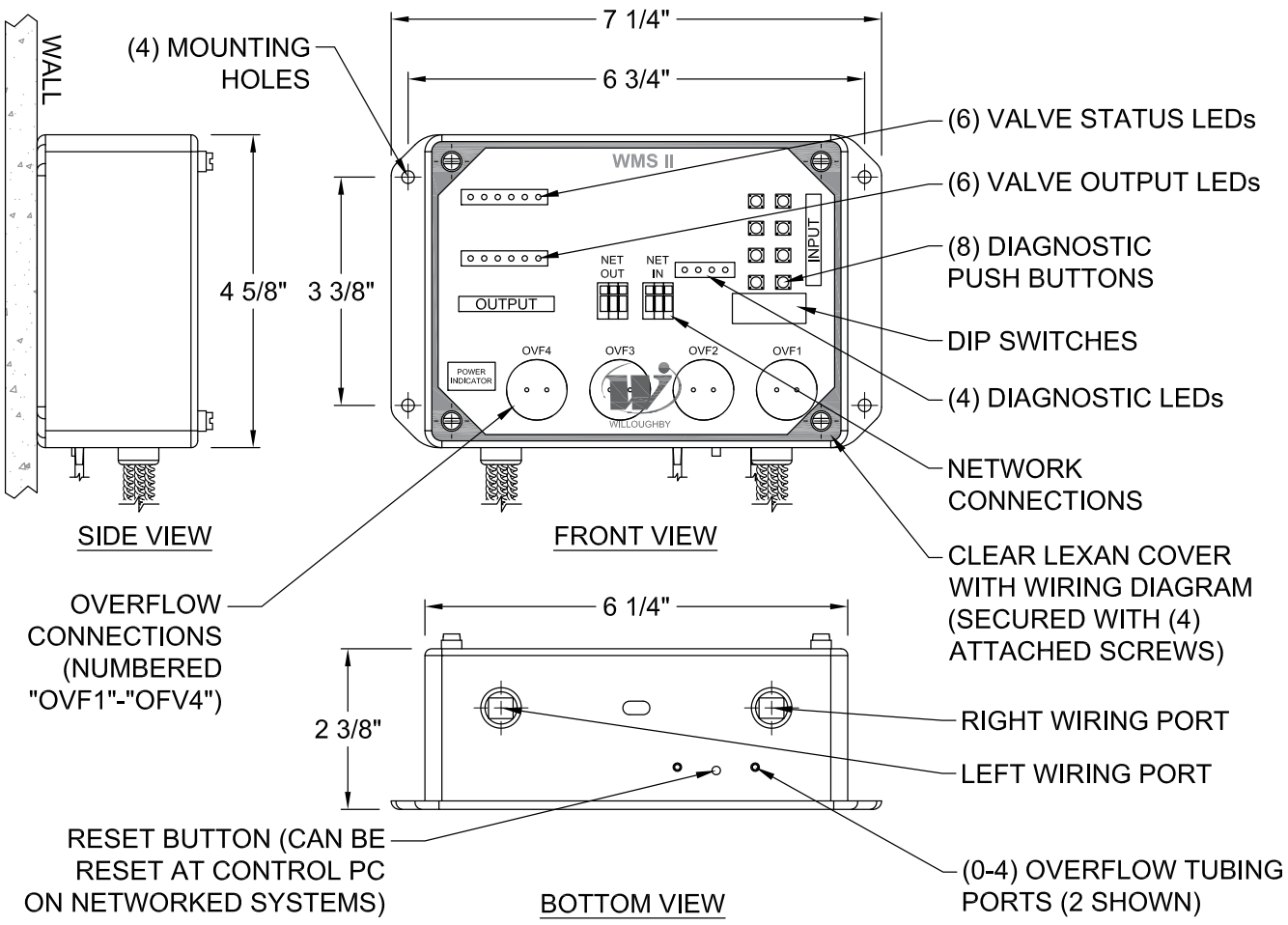
6.) Other Options:

❑ On-site Start-Up, and Commissioning
(must be scheduled 30 days prior to training and after complete installation and testing of the system)
❑ On-site Owner Training Session
(must be scheduled 30 days prior to training and after complete installation and testing of the system)
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ Other _____
❑ Other _____

*(Req 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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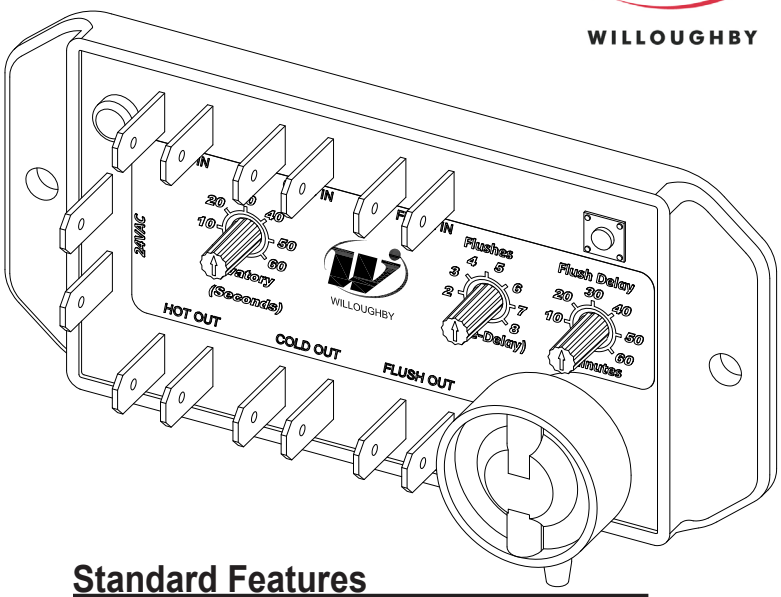
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WUCC-3010
Electronic Water Usage Combi Controller



Recommended Specifications

Electronic Water Usage Combi Controller shall be Willoughby Model: **WUCC-3010**

Combi Controller is a stand-alone electronic module designed to control the operation of electronic push button lavatory valve(s) and electronic push button toilet flush valve on a single Lavatory/ Toilet Combination fixture from the utility chase.

Each Combi Controller shall be capable of controlling up to 3 low-voltage solenoid valves on a lavatory/toilet combination fixture, including:

- (2) lavatory valves (hot & cold)
- (1) electronic flush valve

Controller manufacturer shall supply a hard-wire 120/24 VAC 40VA step down transformer (option TF24H) with each controller A plug-in transformer is also available (option TF24P). Combi Controller shall retain all functional settings after the event of power interruption. All electronic circuitry shall be encased in a water-resistant, epoxied enclosure. As with all electrical and electronic equipment, avoid contact with water, especially once connected to the power supply.

Standard Features

Each valve activation shall be controlled by a vandal-resistant, stainless steel push button (sold separately). Each push button shall require less than 5 lbs. of force to activate.

All solenoid valves shall be non-hold-open and all metering times shall be independently adjustable for each valve, with each function controlled by a separate control dial:

- (10 to 60 sec. run time) for each lavatory valve
  Lavatory valve metering cycles can be interrupted with a second button push.

- (1 to 8 flushes, within 60 minute time period, before delay)
  A preset re-initiate delay feature shall be provided to control amount of fixture toilet use within a 60 minute time period. Once a fixture flush valve has been activated the maximum number of flushes within a 60 minute time period, flushing function will be locked-out for the Pre-delay time period between 0 to 60 minutes.

Standard parallel pre-initiate delay feature shall insert a 4 second time delay between toilet flushes. An electronic toilet overflow sensor is integrated into the Combi Controller for use with fixture toilets manufactured with overflow sensor capabilities.

All input, output, and power functions of the Combi Controller shall have corresponding LED diagnostic lights for testing and monitoring. A reset push button on the controller will enable maintenance personnel to reset functionality from the chase.

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MODEL NUMBER AND OPTIONS:

1.) Control System:

❑ WUCC-3010 Electronic Water Usage Combi Controller
(Contains Controller and all necessary cabling for installation, P/N: WUCC-KIT)

2.) Other Options:

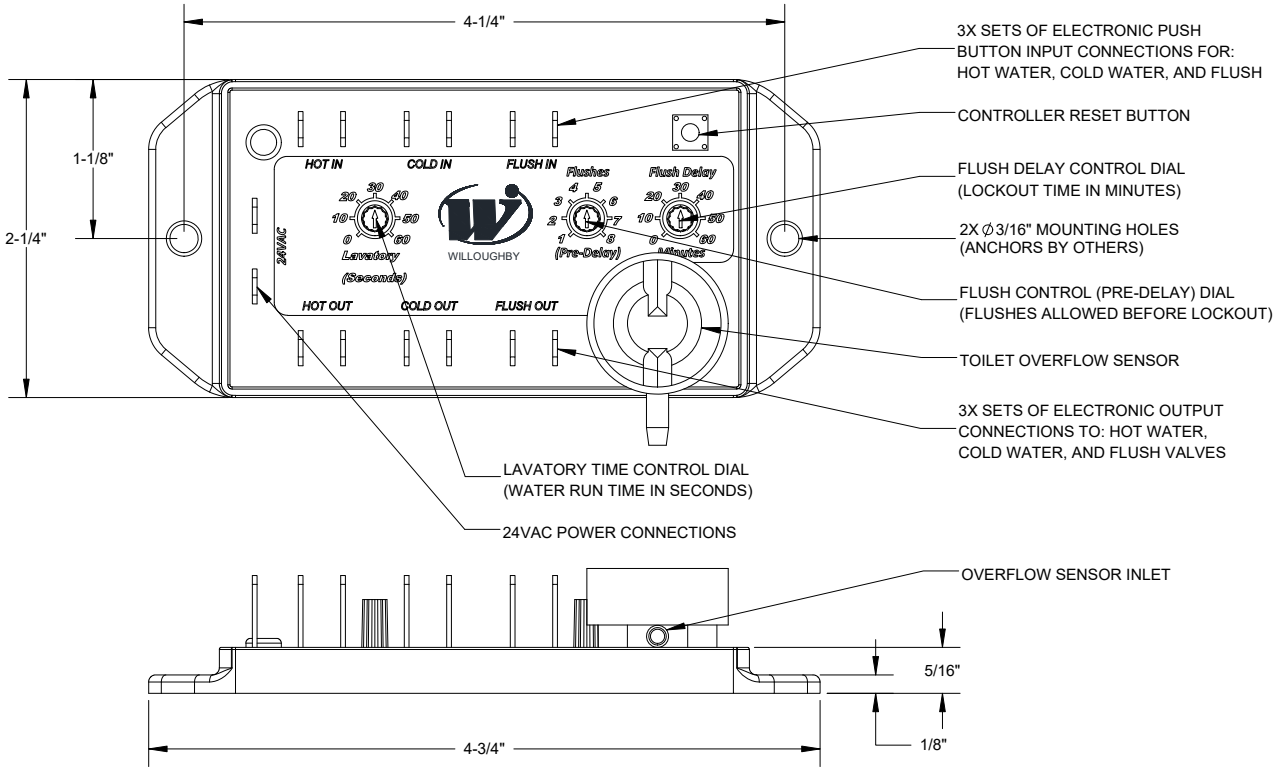
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ Other _____
❑ Other _____

*(Req 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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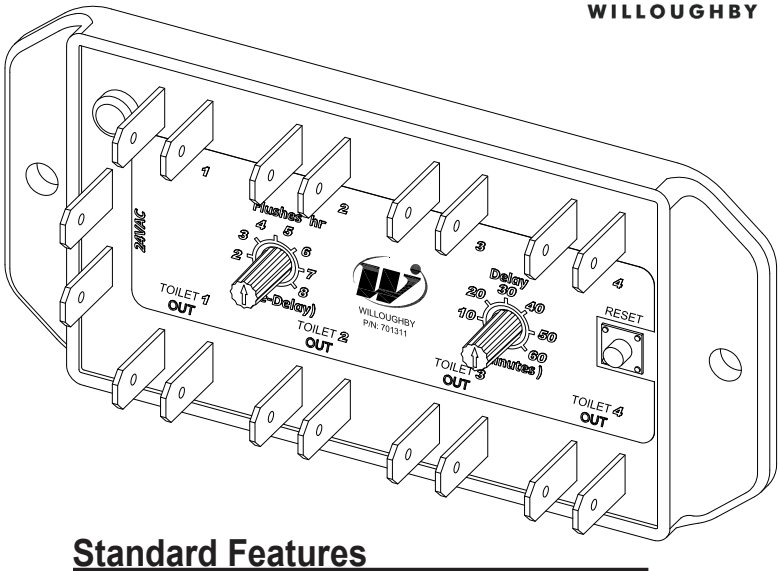
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WUFC-4000
Electronic Water Usage Flush Controller



Recommended Specifications

Electronic Water Usage Flush Controller shall be Willoughby Model: **WUFC-4000**

Flush Controller is a stand-alone electronic module designed to control the operation of an electronic push button toilet flush valve on a Toilet fixture from the utility chase.

Each Flush Controller shall be capable of controlling up to 4 low-voltage solenoid flush valves.

Controller manufacturer shall supply a hard-wire 120/24 VAC 40VA step down transformer (option TF24H) with each controller A plug-in transformer is also available (option TF24P). Flush Controller shall retain all functional settings after the event of power interruption. All electronic circuitry shall be encased in a water-resistant, epoxied enclosure. As with all electrical and electronic equipment, avoid contact with water, especially once connected to the power supply.

Standard Features

Each valve activation shall be controlled by a vandal-resistant, stainless steel push button (sold separately). Each push button shall require less than 5 lbs. of force to activate.

All solenoid valves shall be non-hold-open and all metering times shall be adjustable using the Flushes (Pre-delay) and Flush Delay control dials:

- (1 to 8 flushes, within 60 minute time period, before delay) A preset re-initiate delay feature shall be provided to control amount of fixture toilet use within a 60 minute time period. Once a fixture flush valve has been activated the maximum number of flushes within a 60 minute time period, flushing function will be locked-out for the Pre-delay time period between 0 to 60 minutes.

- (4 sec. to 60 min. flush delay) Standard parallel pre-initiate delay feature shall insert a 4 second time delay between toilet flushes, with a maximum time delay of 60 minutes.

All input, output, and power functions of the Flush Controller shall have corresponding LED diagnostic lights for testing and monitoring. A reset push button on the controller will enable maintenance personnel to reset functionality from the chase.

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MODEL NUMBER AND OPTIONS:

1.) Control System:

❑ WUFC-4000 Electronic Water Usage Flush Controller
(Contains Controller and all necessary cabling for installation, P/N: WUFC-KIT)

2.) Other Options:

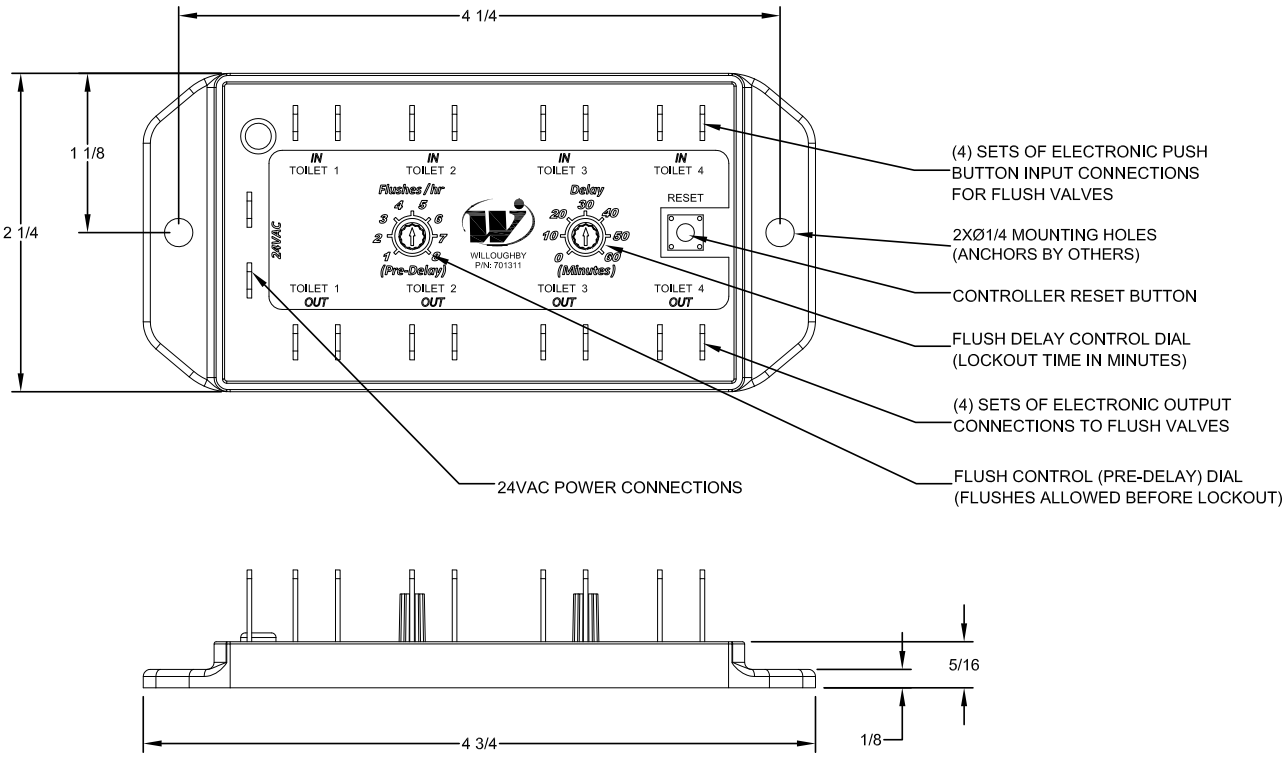
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ Other _____
❑ Other _____

*(Req 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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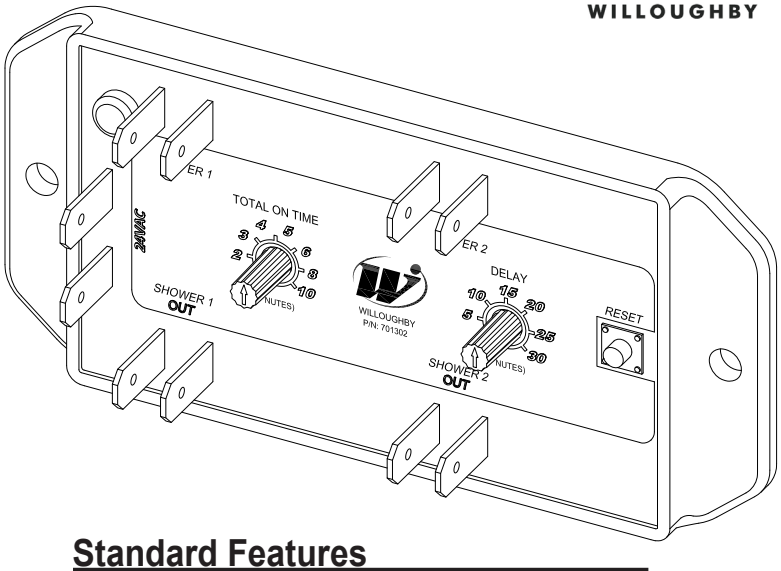
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WUSC-2200
Electronic Water Usage 2-Shower Controller



Recommended Specifications

Electronic Water Usage 2-Shower Controller shall be:
Willoughby Model: **WUSC-2200**

Shower Controller is a stand-alone electronic module designed to control the operation of an electronic push button shower valve on a shower fixture from the utility chase.

Each 2-Shower Controller shall be capable of controlling up to 2 low-voltage solenoid shower valves.

Controller manufacturer shall supply a hard-wire 120/24 VAC 40VA step down transformer (option TF24H) with each controller A plug-in transformer is also available (option TF24P). Shower Controller shall retain all functional settings after the event of power interruption. All electronic circuitry shall be encased in a water-resistant, epoxied enclosure. As with all electrical and electronic equipment, avoid contact with water, especially once connected to the power supply.

Standard Features

Each valve activation shall be controlled by a vandal-resistant, stainless steel push button (sold separately). Each push button shall require less than 5 lbs. of force to activate.

All solenoid valves shall be non-hold-open and all metering times shall be adjustable using the Total On Time and Delay control dials:

- (1 to 10 minutes Total On Time) Total On Time dial shall control the total time the electronic shower valves can run before activating the preset re-initiate delay feature. This shall limit the amount of fixture use to a preset threshold.

- (0 to 30 minute Delay) Delay dial shall control the lock-out time period. Once the fixture use Total On Time threshold has been reached, shower function will be locked-out for a time period between 0 to 30 minutes.

All input, output, and power functions of the Shower Controller shall have corresponding LED diagnostic lights for testing and monitoring. A reset push button on the controller will enable maintenance personnel to reset functionality from the chase.

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MODEL NUMBER AND OPTIONS:

1.) Control System:

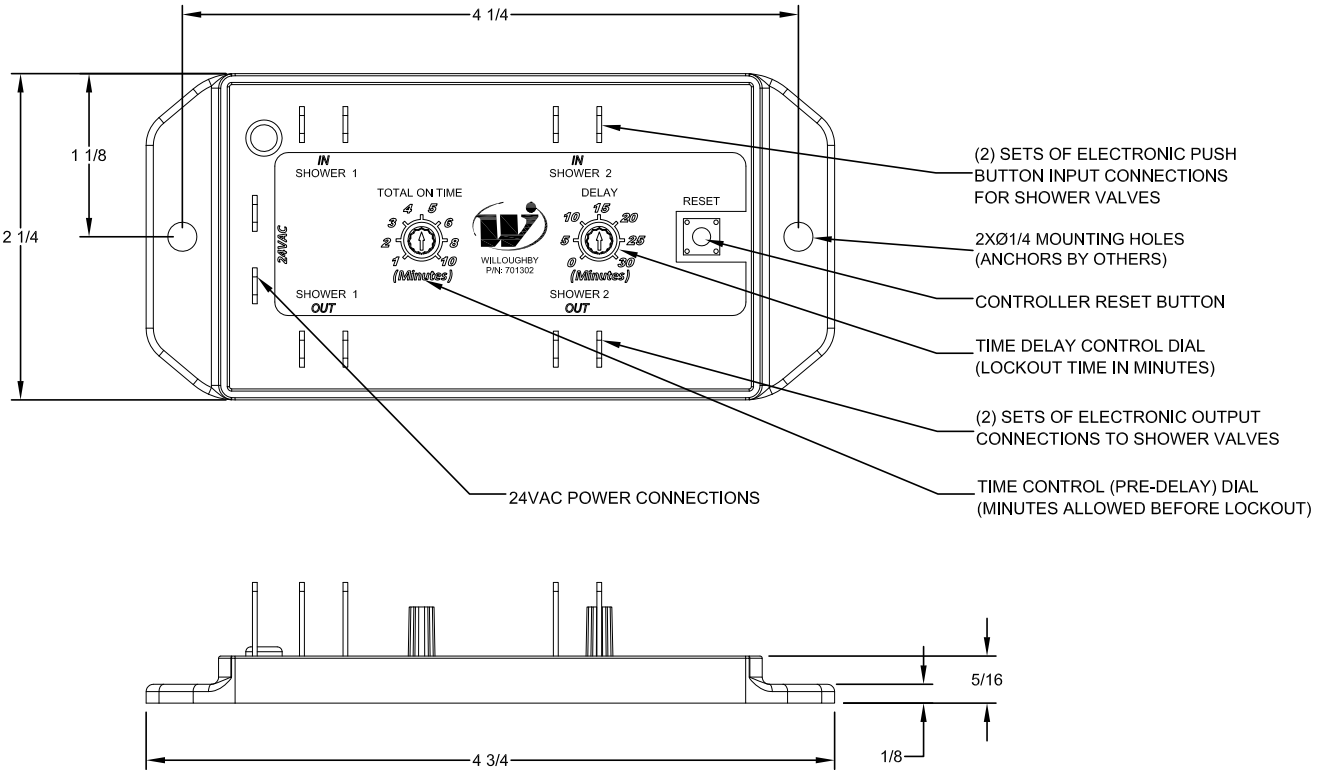
❑ WUSC-2200 Electronic Water Usage 2-Shower Controller
(Contains Controller and all necessary cabling for installation, P/N: WUSC-2200-KIT)

2.) Other Options:

❑ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ Other _____
❑ Other _____

*(Req 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____



VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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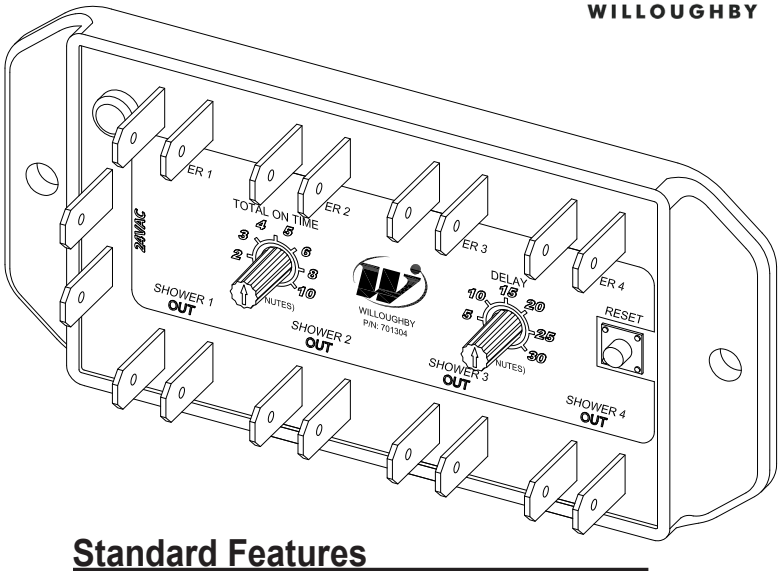
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WUSC-2400
Electronic Water Usage 4-Shower Controller



Recommended Specifications

Electronic Water Usage 4-Shower Controller shall be:
Willoughby Model: **WUSC-2400**

Shower Controller is a stand-alone electronic module designed to control the operation of an electronic push button shower valve on a shower fixture from the utility chase.

Each 4-Shower Controller shall be capable of controlling up to 4 low-voltage solenoid shower valves.

Controller manufacturer shall supply a hard-wire 120/24 VAC 40VA step down transformer (option TF24H) with each controller A plug-in transformer is also available (option TF24P). Shower Controller shall retain all functional settings after the event of power interruption. All electronic circuitry shall be encased in a water-resistant, epoxied enclosure. As with all electrical and electronic equipment, avoid contact with water, especially once connected to the power supply.

Standard Features

Each valve activation shall be controlled by a vandal-resistant, stainless steel push button (sold separately). Each push button shall require less than 5 lbs. of force to activate.

All solenoid valves shall be non-hold-open and all metering times shall be adjustable using the Total On Time and Delay control dials:

- (1 to 10 minutes Total On Time) Total On Time dial shall control the total time the electronic shower valves can run before activating the preset re-initiate delay feature. This shall limit the amount of fixture use to a preset threshold.

- (0 to 30 minute Delay) Delay dial shall control the lock-out time period. Once the fixture use Total On Time threshold has been reached, shower function will be locked-out for a time period between 0 to 30 minutes.

All input, output, and power functions of the Shower Controller shall have corresponding LED diagnostic lights for testing and monitoring. A reset push button on the controller will enable maintenance personnel to reset functionality from the chase.

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MODEL NUMBER AND OPTIONS:

1.) Control System:

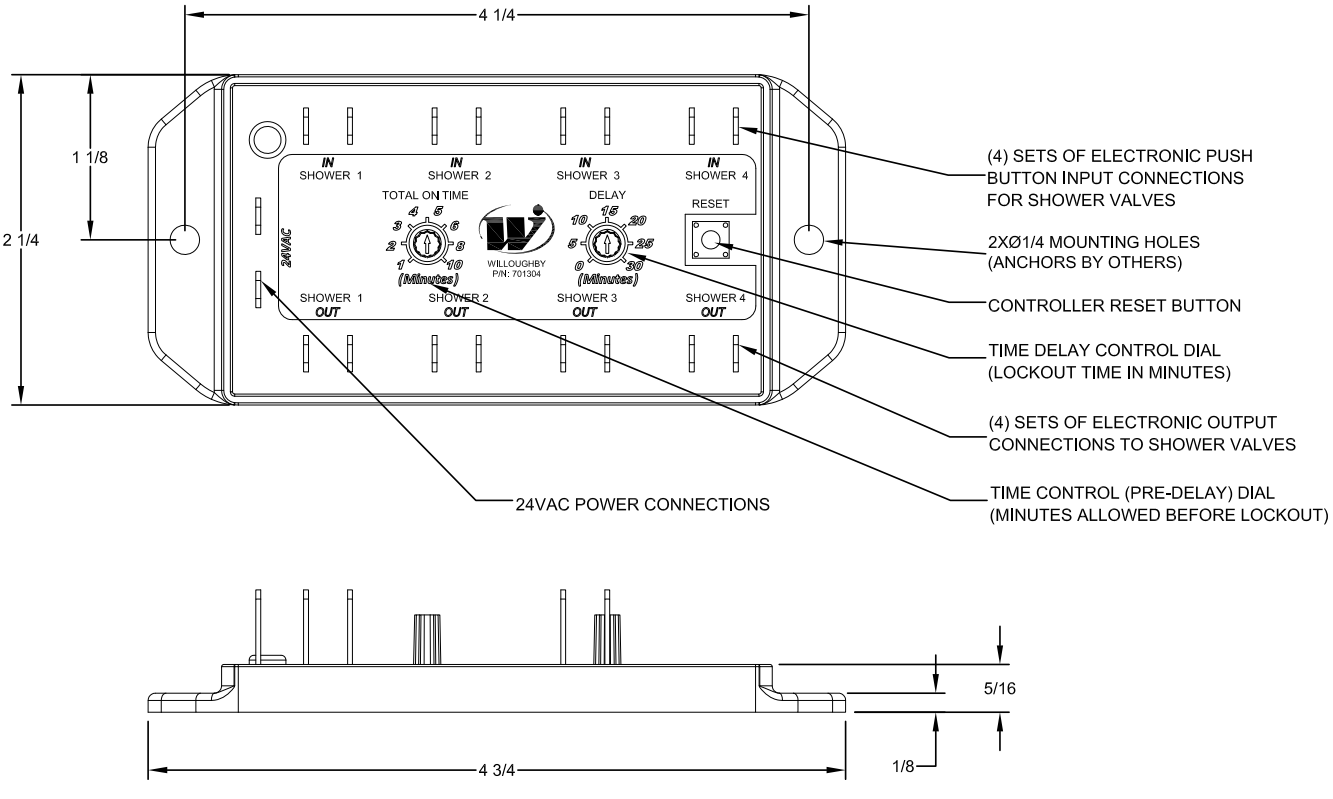
❑ WUSC-2400 Electronic Water Usage 4-Shower Controller
(Contains Controller and all necessary cabling for installation, P/N: WUSC-KIT)

2.) Other Options:

❑ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ Other _____
❑ Other _____

*(Req 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____



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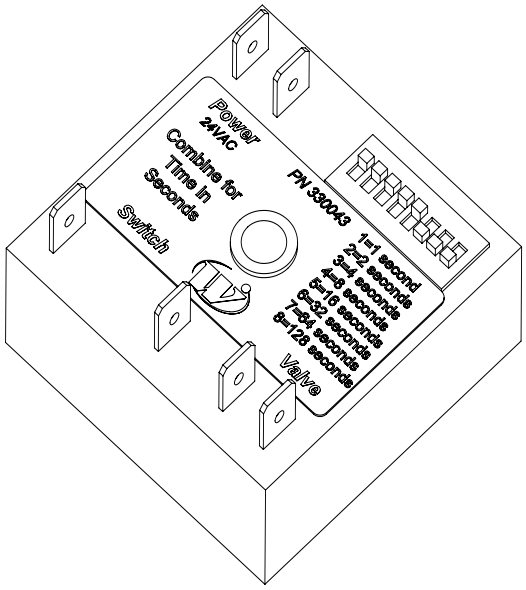
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Pneutronic All-Purpose Valve Controller



Recommended Specifications

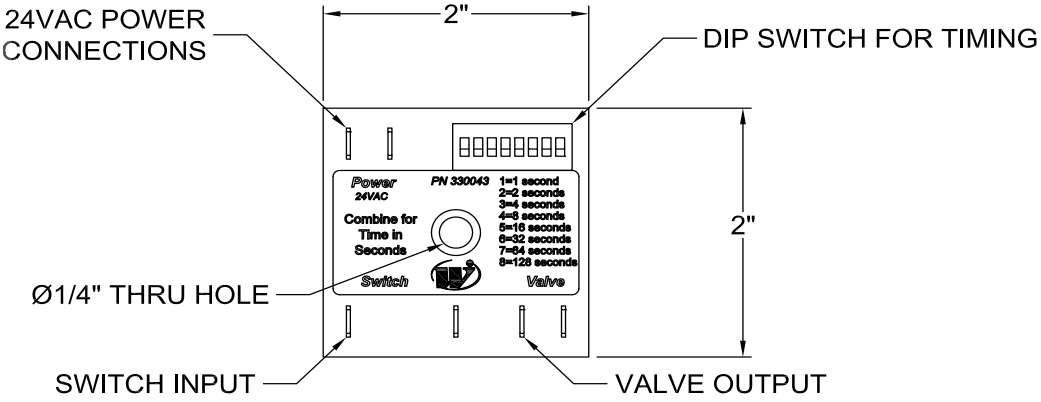
Electronic metering control shall be:
Willoughby Model: **Pneutronic All-Purpose Valve Controller**

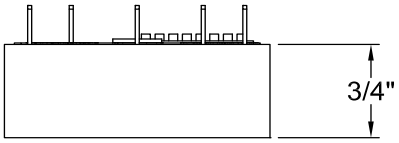
Valve controller shall use low voltage 24 VAC power and provide non-hold open valve operation. Each pneutronic module shall provide control of one solenoid valve. Valve activation shall come from a vandal-resistant stainless steel waterproof electronic push button. Push button shall require less than 5 lbs. of force to activate.

Metering time shall be easily adjustable from 1 second to over 4 minutes in 1-second increments via a DIP switch on the controller. The metering cycle shall be interruptible by a second press of the push button.

Valve controller troubleshooting lights shall be provided to indicate the presence of 24 VAC power, input switch status and output status. A 24 VAC self-closing solenoid valve is provided. Internal parts of the solenoid valve that are in contact with water shall be non-corrosive.

24 VAC power transformers are available as an option.





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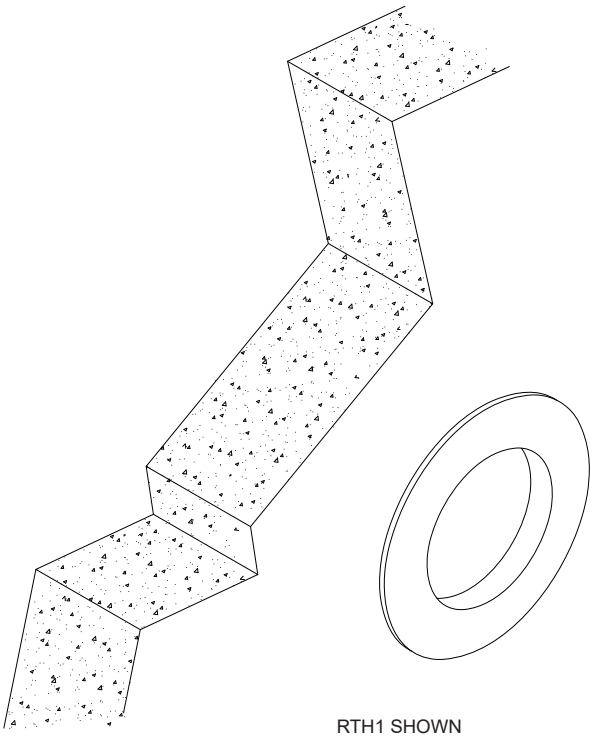
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RTH1
Rear Mounted
Tissue Holder

RTH1 recessed toilet tissue holder shall be die-formed of 14 GA, Type 304 stainless steel with an 18 GA, Type 304 #3 satin finish exposed flange. Flange edge to be turned back providing a tight fit to wall. Holder shall accommodate a standard roll of tissue, measuring 4-3/4" in diameter and 4-3/4" deep, providing no free area for the concealment of contraband.

Mounting hardware supplied with the tissue holder.



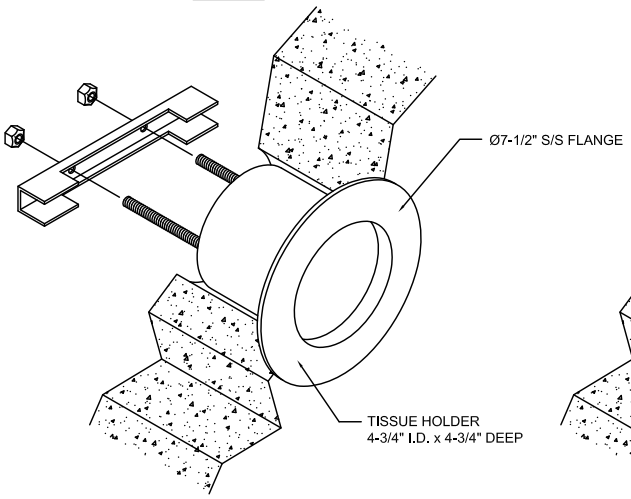
RTH1 SHOWN

RTH2
Front Mounted
Tissue Holder

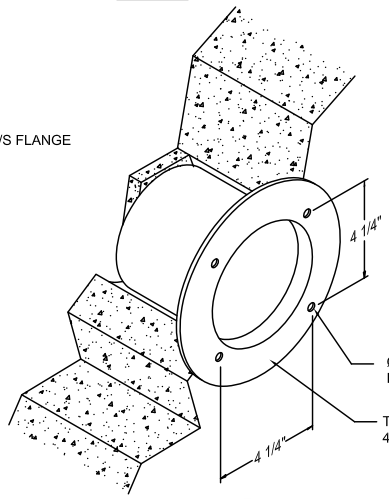
RTH2 recessed toilet tissue holder shall be die-formed of 14 GA, Type 304 stainless steel with an 18 GA, Type 304 #3 satin finish exposed flange. Flange edge to be turned back providing a tight fit to wall. Holder shall accommodate a standard roll of tissue, measuring 4-3/4" in diameter and 4-3/4" deep, providing no free area for the concealment of contraband. Mounting shall be from the front.

Stainless steel security screws provided, wall anchors by others.

RTH1



RTH2



NOTE:
TISSUE HOLDER REQUIRES A Ø5-1/4" WALL CUTOUT FOR INSTALLATION

Ø5/16" HOLES, SECURITY SCREWS PROVIDED, ANCHORS BY OTHERS

TISSUE HOLDER
4-3/4" I.D. x 4-3/4" DEEP

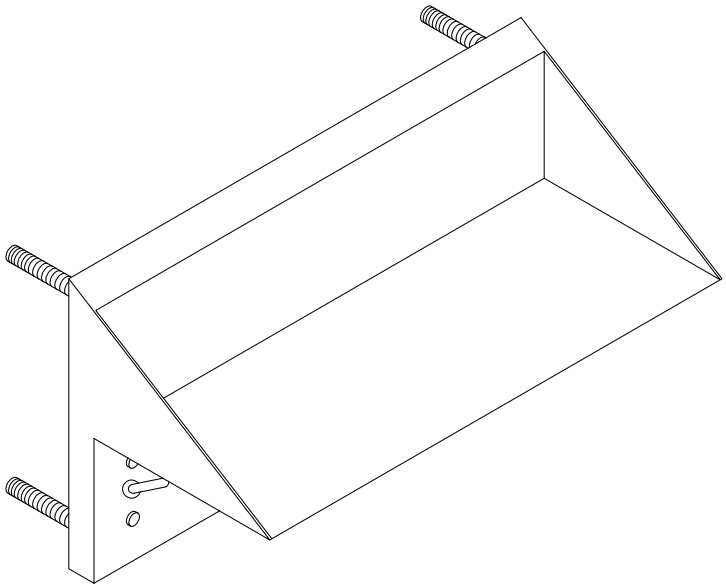
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WA-1824
Release Towel Hook w/ Integral Shelf Rear Mounted

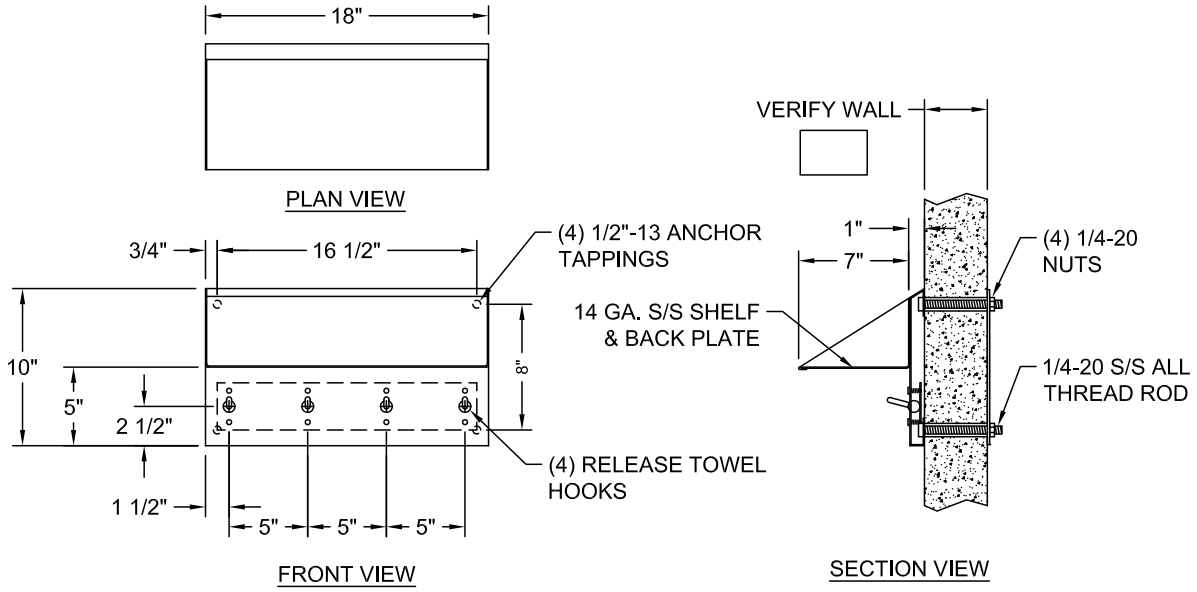


✓	MODEL NUMBER	NUMBER OF HOOKS
	WA-1824	4

WA-1824 release towel hook assembly with integral shelf shall be fabricated from Type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #3 satin finish.

Pressure activated release towel hook(s) will support light clothing and towel loads, however, excessive hook loads will cause downward hook release.

WA-1824 hook assembly supplied with all thread rod, nuts and washers.



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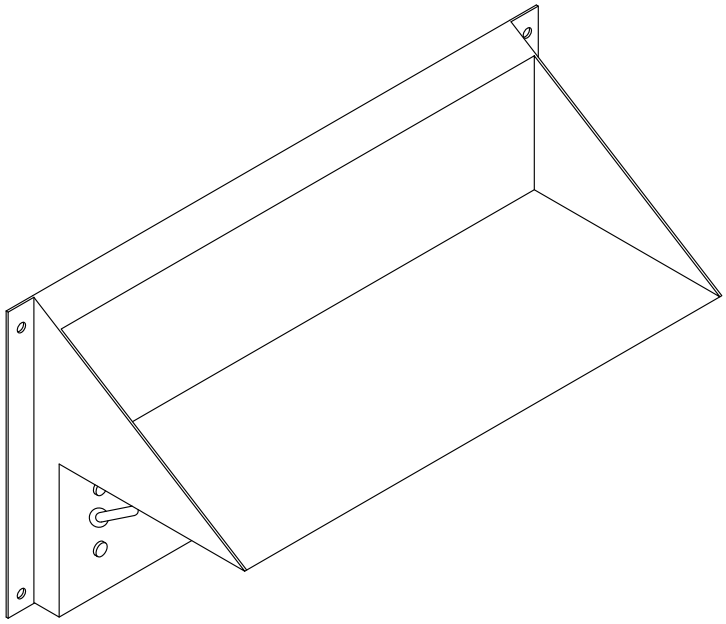
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WA-1824-FA
Release Towel Hook
w/ Integral Shelf
Front Mounted

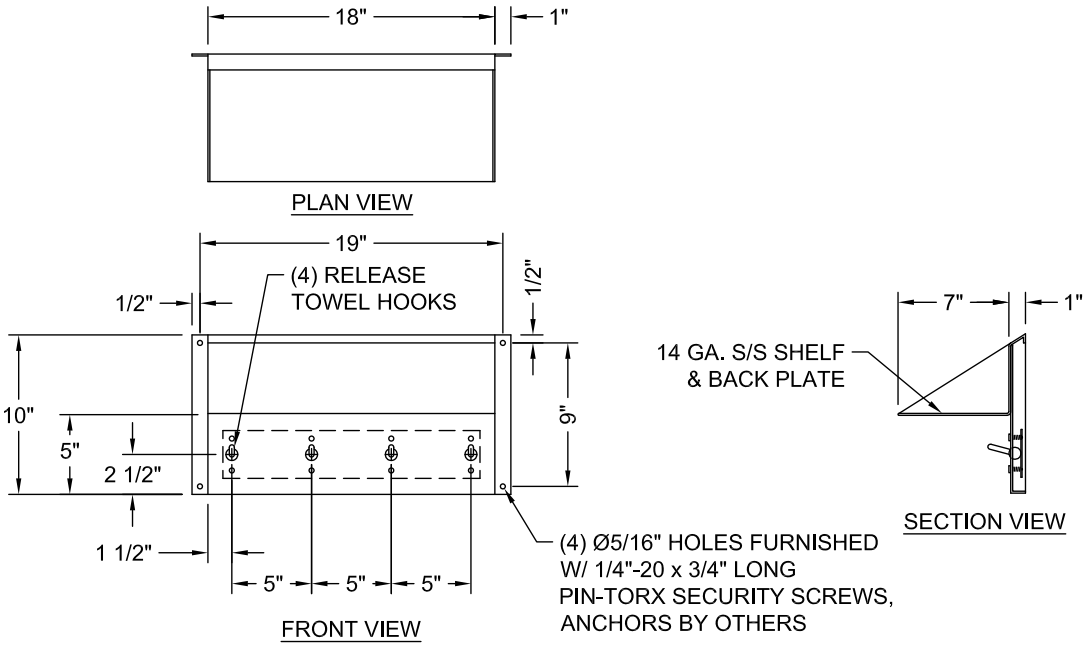


✓	MODEL NUMBER	NUMBER OF HOOKS
	WA-1824-FA	4

WA-1824-FA release towel hook assembly with integral shelf shall be fabricated from Type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #3 satin finish.

Pressure activated release towel hook(s) will support light clothing and towel loads, however, excessive hook loads will cause downward hook release.

WA-1824-FA hook assembly supplied with vandal-resistant stainless steel security screws. Wall anchors by others.



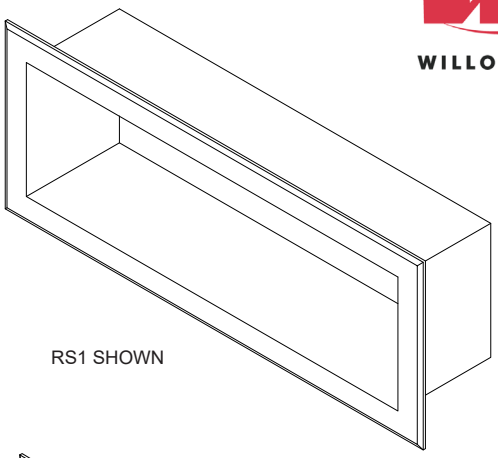
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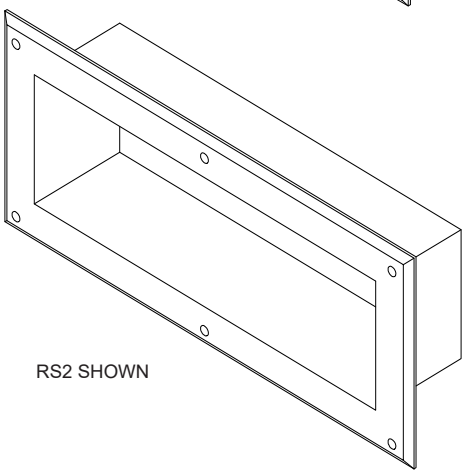
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RS Series
Recessed Shelf



RS1 SHOWN



RS2 SHOWN

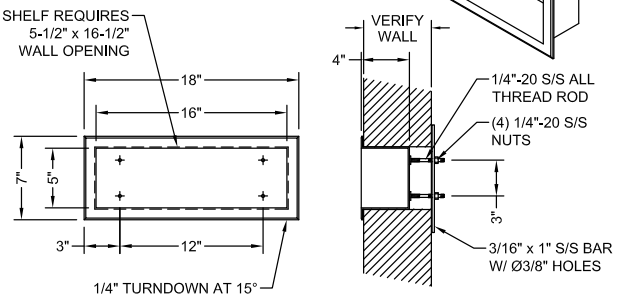
✓	MODEL NUMBER	MOUNTING CONFIGURATION
	RS1	REAR MOUNTED
	RS2	FRONT MOUNTED

RS ___ recessed shelf shall be fabricated entirely of 16 GA, Type 304 stainless steel. Exposed flange surfaces are polished to a #3 satin finish. Shelf is available in both rear mounting (RM) or flange mounting (FM) configuration.

Shelf assembly (RS1) supplied with anchoring hardware.

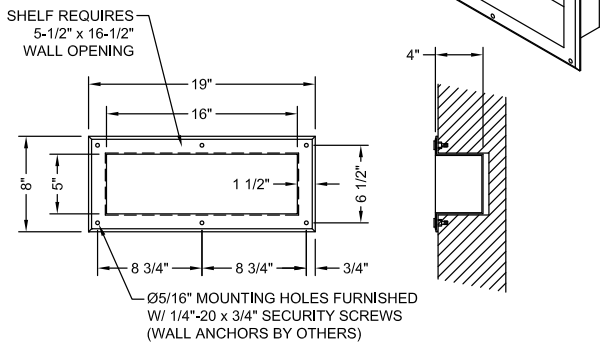
Shelf assembly (RS2) supplied with vandal-resistant security screws, wall anchors by others.

RS1



FRONT VIEW TYP. SECTION

RS2



FRONT VIEW TYP. SECTION

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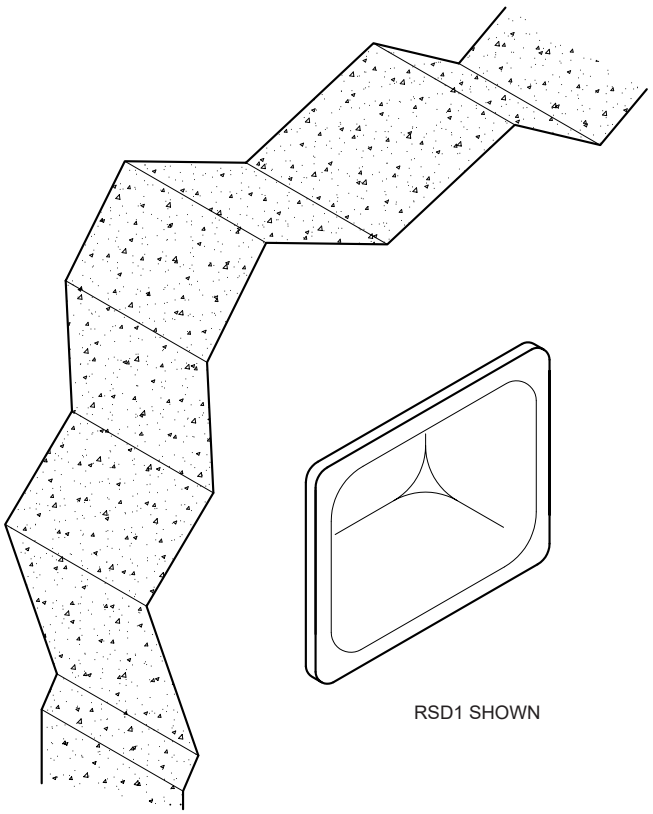
RSD1
Rear Mounted
Recessed Soap Dish

RSD1 recessed soap dish shall be 16 GA, Type 304 stainless steel. Unit is one piece construction, tamper-resistant with all exposed surfaces polished to a #3 satin finish. Wide radius corners assure cleanliness.

RSD2
Front Mounted
Recessed Soap Dish

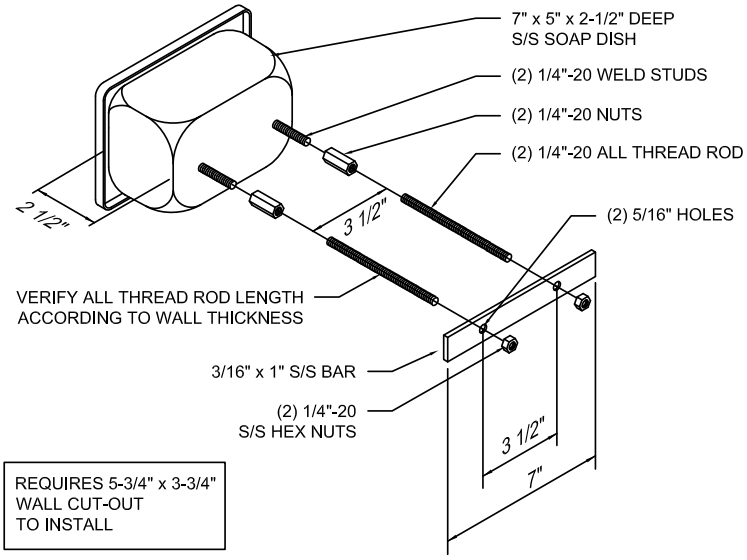
RSD2 recessed soap dish shall be 16 GA, Type 304 stainless steel. Unit is one piece construction, tamper-resistant with all exposed surfaces polished to a #3 satin finish. Wide radius corners assure cleanliness. Mounting shall be from the front.

Stainless steel security screws provided, wall anchors by others.



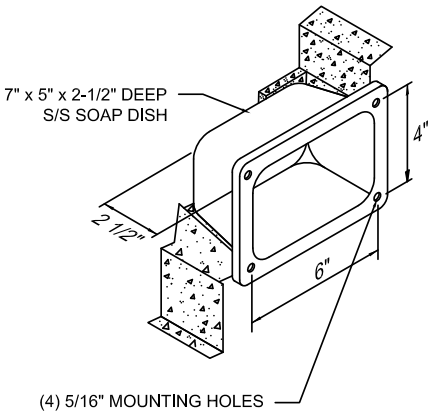
RSD1 SHOWN

RSD1



REQUIRES 5-3/4" x 3-3/4"
WALL CUT-OUT
TO INSTALL

RSD2



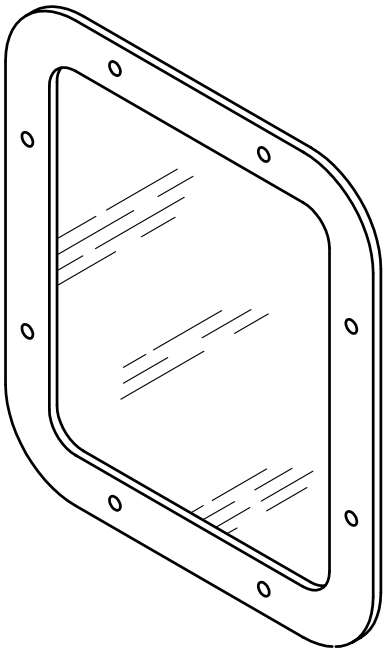
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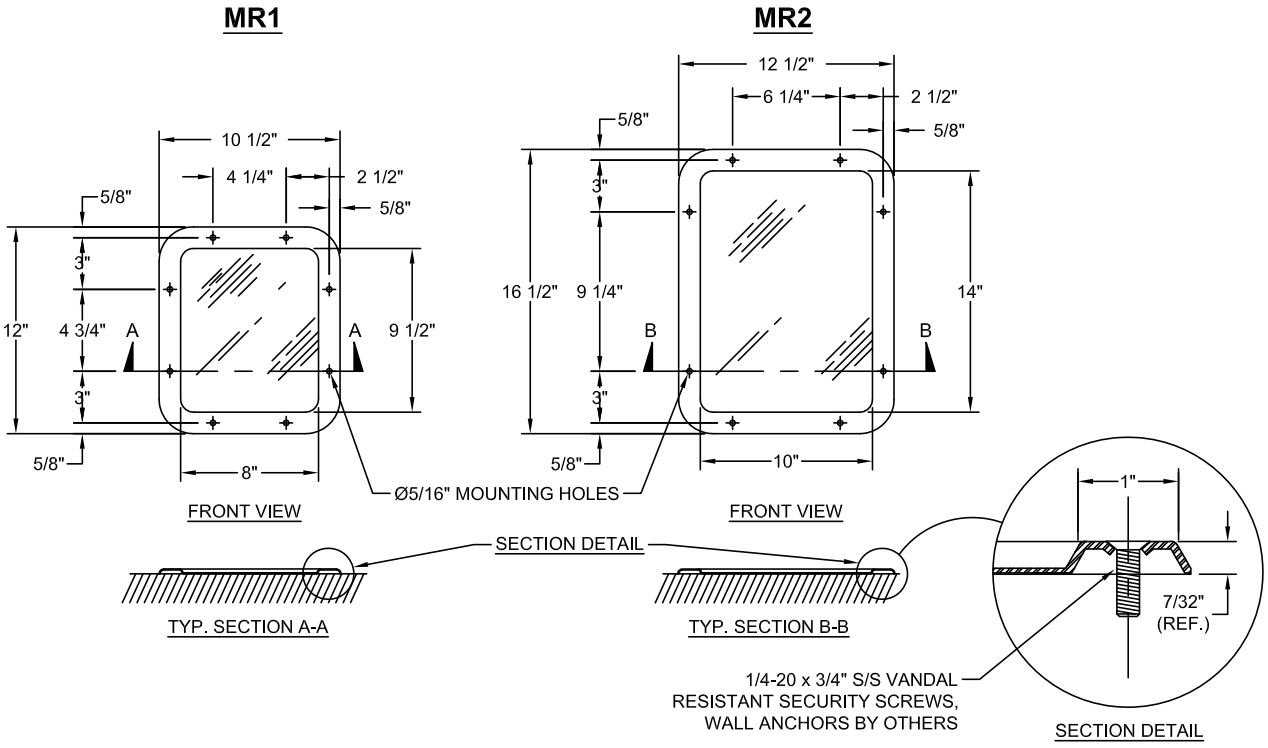
MR Series
Front Access
Security Mirror



✓	MODEL NUMBER	HEIGHT	WIDTH
	MR1	12"	10 1/2"
	MR2	16 1/2"	12 1/2"
	EM1 (OPTIONAL)	MOUNTING FRAME FOR MR1	
	EM2 (OPTIONAL)	MOUNTING FRAME FOR MR2	

MR ___ mirror with integral frame shall be die formed 16 GA, Type 304 series stainless steel, polished to a #8 non-directional mirror finish. Anchoring shall be by standard 8-point mounting. Vandal-resistant security screws provided with the mirror. Wall anchors provided by others.

Optional in-wall embedded mounting plate is available. For optional embedded mounting plate, specify EM1 or EM2 to correspond with above mirror size.



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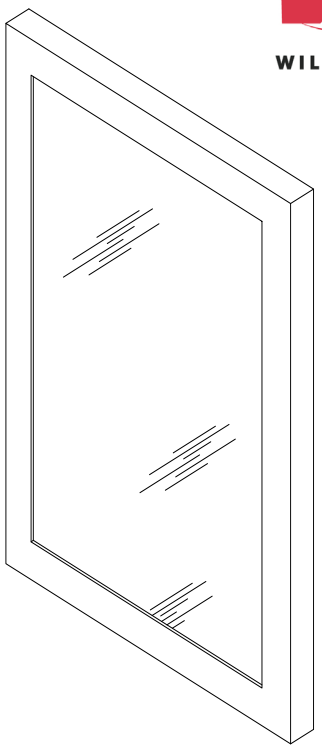
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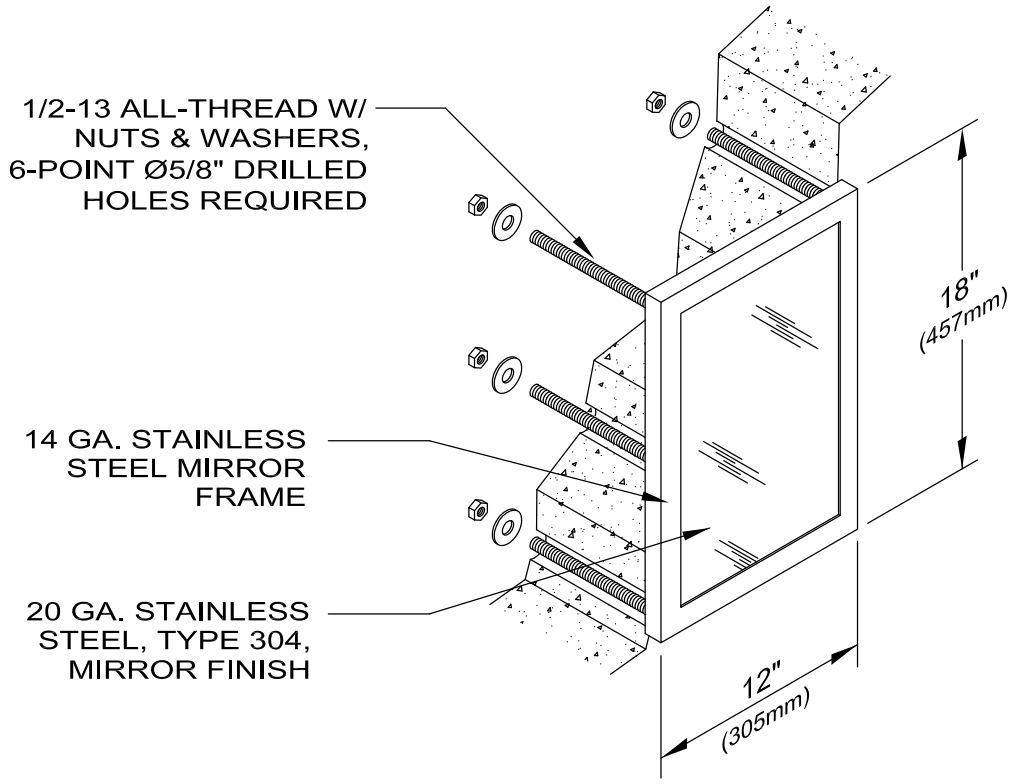
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FMR1
Framed Security Mirror
Rear Mounted



FMR1 framed security mirror to be 16 GA, Type 304 stainless steel, polished to a #8 non-directional mirror finish. Mirror shall be reinforced with 1/2" fiberboard backing. Anchoring shall be by a 6-point system: threaded rods, nuts and washers furnished for walls up to 8" thick. Unit requires chase for installation.



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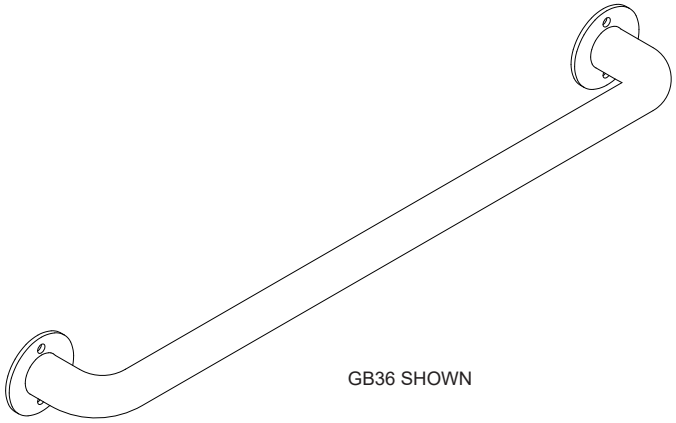
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GB Series
Grab Bars

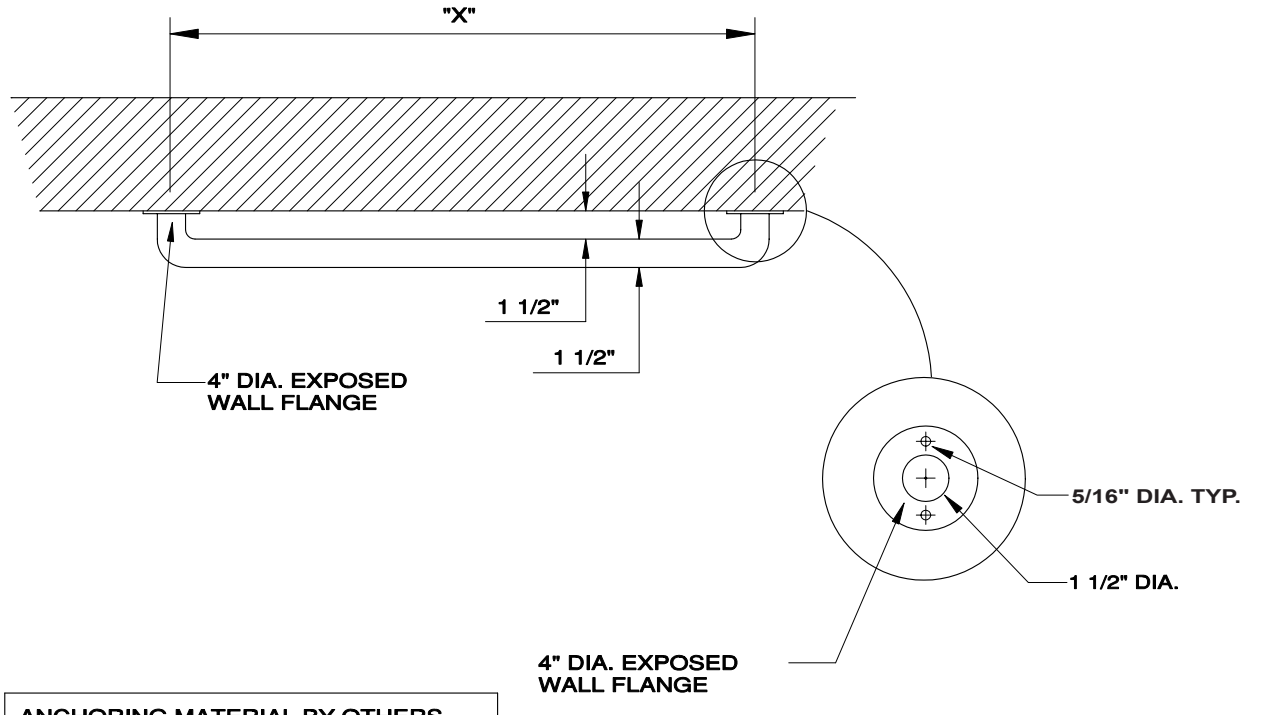
✓	MODEL NUMBER	GRAB BAR LENGTH ("X")
	GB18	18"
	GB24	24"
	GB30	30"
	GB36	36"
	GB42	42"
	GB48	48"
	GB3318	33" X 18"



GB36 SHOWN

GB _____ grab bars shall be fabricated from Type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #3 satin finish. Standard flange configuration is exposed. Grab bar fasteners and wall anchors by others.

Various configurations are available.



ANCHORING MATERIAL BY OTHERS

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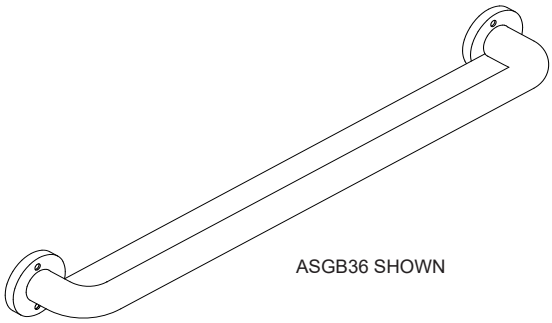
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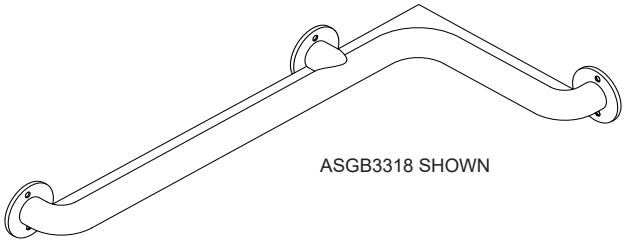
WILLOUGHBY

ASGB Series
Ligature-resistant
Grab Bars

✓	MODEL NUMBER	GRAB BAR LENGTH ("X")
	ASGB18	18"
	ASGB24	24"
	ASGB30	30"
	ASGB36	36"
	ASGB42	42"
	ASGB48	48"
	ASGB3318	33" X 18"



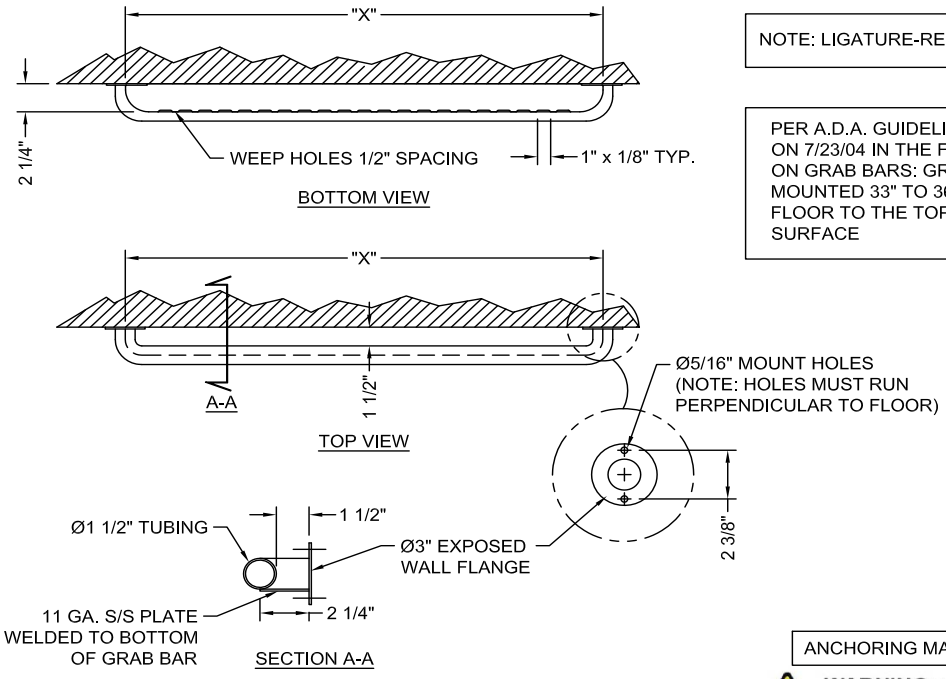
ASGB36 SHOWN



ASGB3318 SHOWN

ASGB _____ Ligature-resistant grab bars shall be fabricated from Type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #3 satin finish. Grab bar shall have 11 gauge stainless steel plate welded to bottom to give fixture a ligature-resistant design. Standard flange configuration is exposed. Grab bar fasteners and wall anchors by others.

Various configurations are available.



NOTE: LIGATURE-RESISTANT GRAB BAR

PER A.D.A. GUIDELINES AS PRINTED ON 7/23/04 IN THE FEDERAL REGISTER ON GRAB BARS: GRAB BARS MUST BE MOUNTED 33" TO 36" ABOVE FINISHED FLOOR TO THE TOP OF GRIPPING SURFACE

ANCHORING MATERIAL BY OTHERS

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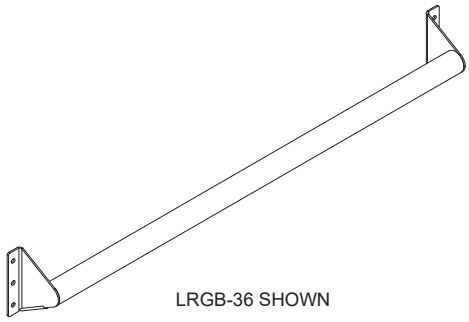
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LRGB Series
Ligature-resistant
ADA Compliant
Grab Bars

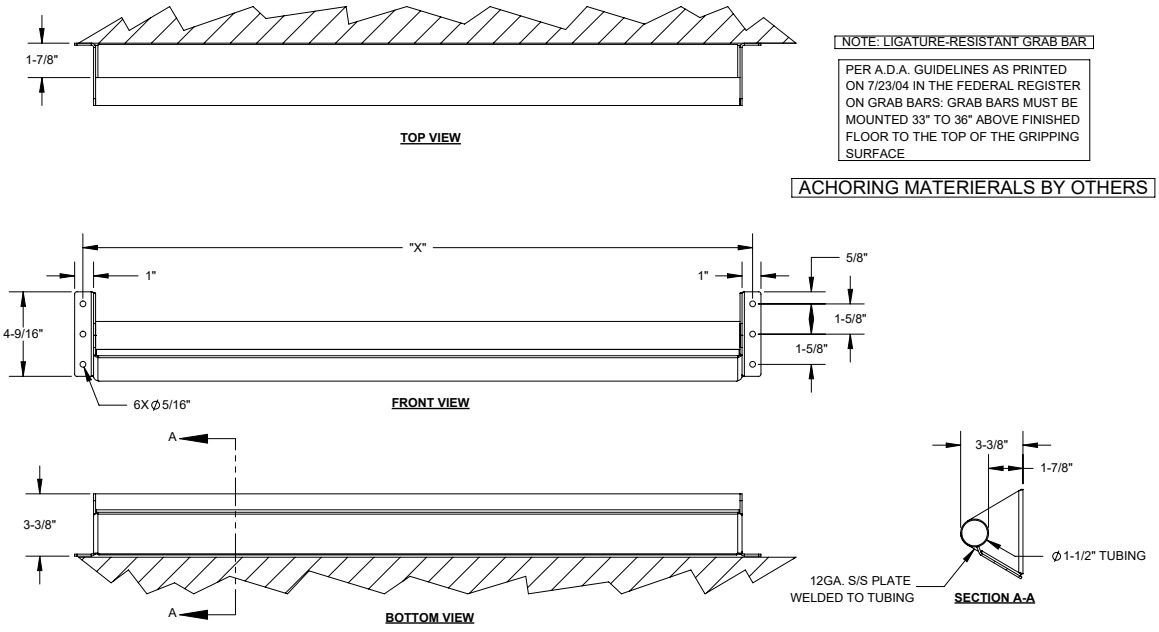
✓	MODEL NUMBER	GRAB BAR LENGTH ("X")
	LRGB-18-ADA	18"
	LRGB-24-ADA	24"
	LRGB-36-ADA	36"
	LRGB-42-ADA	42"
	LRGB-48-ADA	48"



LRGB-36 SHOWN

LRGB-_____ Ligature-resistant grab bars shall be fabricated from Type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #3 satin finish. Grab bar shall have11 gauge stainless steel plate welded to bottom to give fixture a ligature-resistant design. Grab bar fasteners and wall anchors by others.

Various configurations are available.



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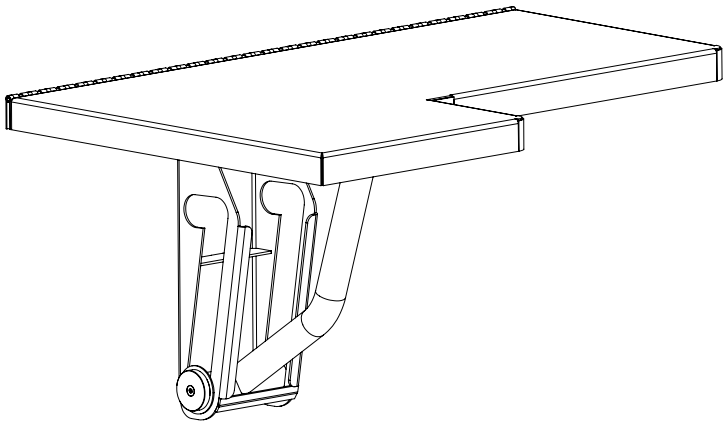
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FSS Series
Folding Shower Seat

✓	MODEL NUMBER	SEAT CONFIGURATION
	FSSR	RIGHT HAND
	FSSL	LEFT HAND



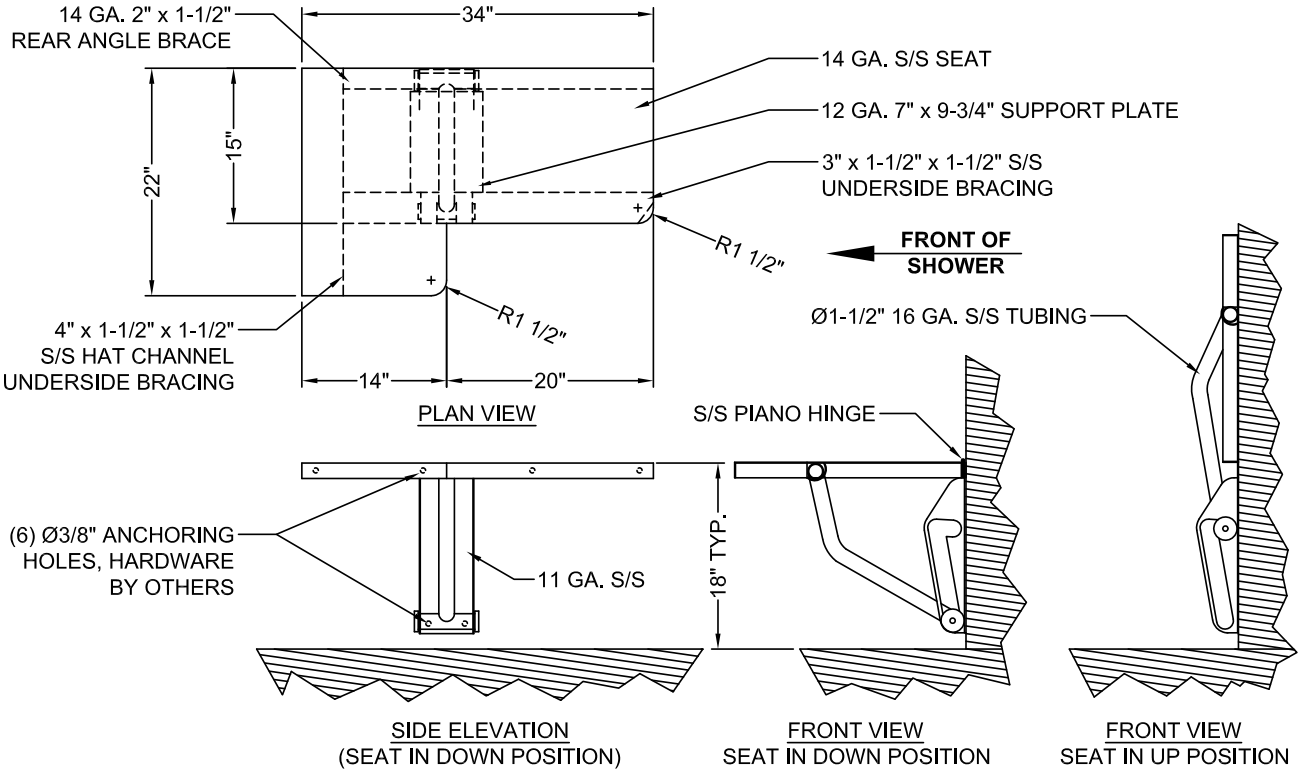
FSS _____ folding shower seat shall be fabricated from Type 304 stainless steel. Seating surface and flanges polished to a #3 satin finish. Folding shower seat provides sturdy seating for users of handicapped shower facilities and can be easily folded up when not in use.

Wall anchors and fasteners by others.

IN COMPLIANCE WITH A.D.A. 2010

RIGHT HAND SHOWN; LEFT HAND IS SYMMETRICALLY OPPOSITE

NOTE: FOLDING SEAT MUST MOUNT 1" OUT FROM BACK WALL TO AVOID GRAB BAR INTERFERENCE



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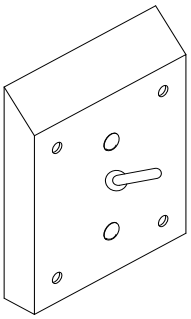
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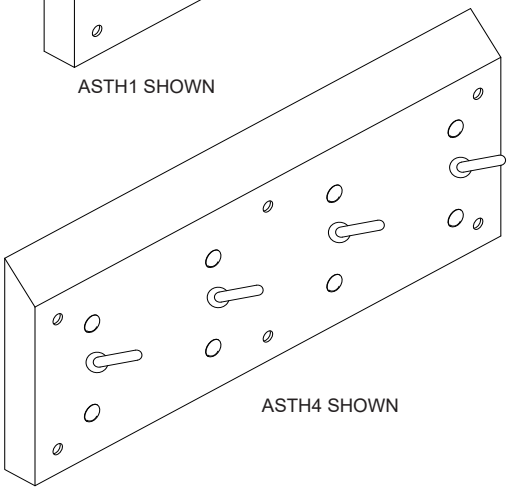
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ASTH Series
Ligature-resistant
Release Towel Hook

✓	MODEL NUMBER	NUMBER OF HOOKS
	ASTH1	1
	ASTH2	2
	ASTH3	3
	ASTH4	4



ASTH1 SHOWN

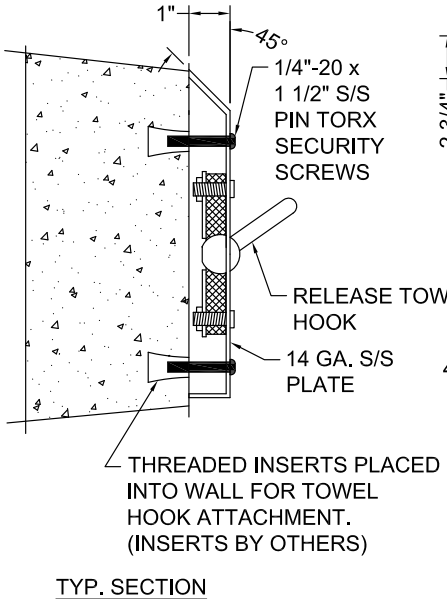


ASTH4 SHOWN

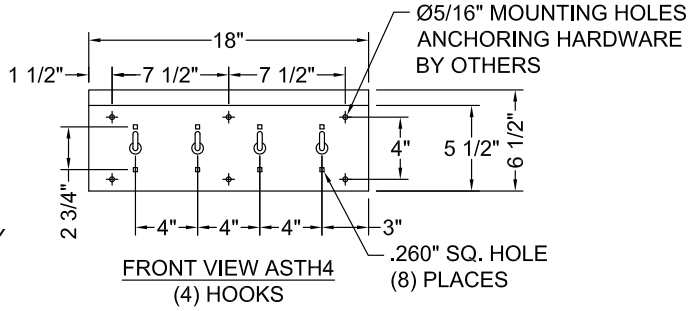
ASTH _____ ligature-resistant release towel hook assembly shall be fabricated from Type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #3 satin finish. Pressure activated release towel hook(s) will support light clothing and towel loads, however, excessive hook loads will cause downward hook release.

Towel hook assembly shall have a ligature-resistant sloped top in addition to the pressure activated release towel hooks.

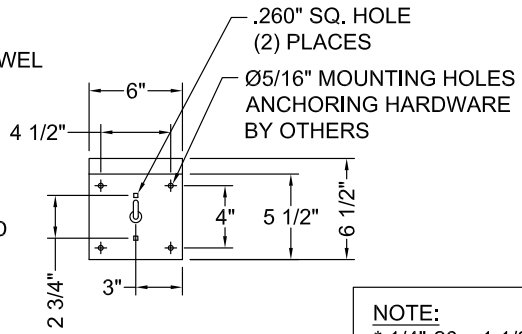
Hook assemblies supplied with vandal-resistant stainless steel security screws. Wall anchors by others.



TYP. SECTION



FRONT VIEW ASTH4
(4) HOOKS



FRONT VIEW ASTH1
(1) HOOKS

NOTE:
* 1/4"-20 x 1 1/2" VANDAL RESISTANT SECURITY SCREWS INCLUDED, WALL ANCHORS BY OTHERS

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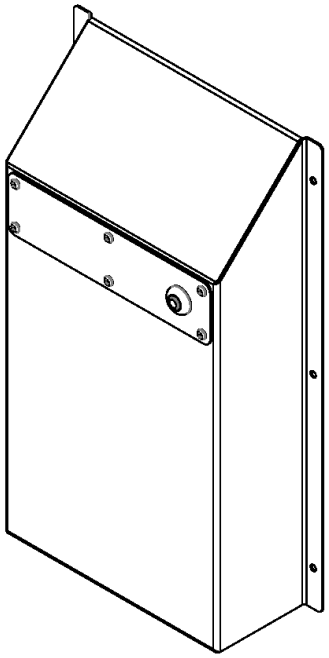
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WILLOUGHBY

ASFVC
Ligature-resistant
Flush Valve Cover

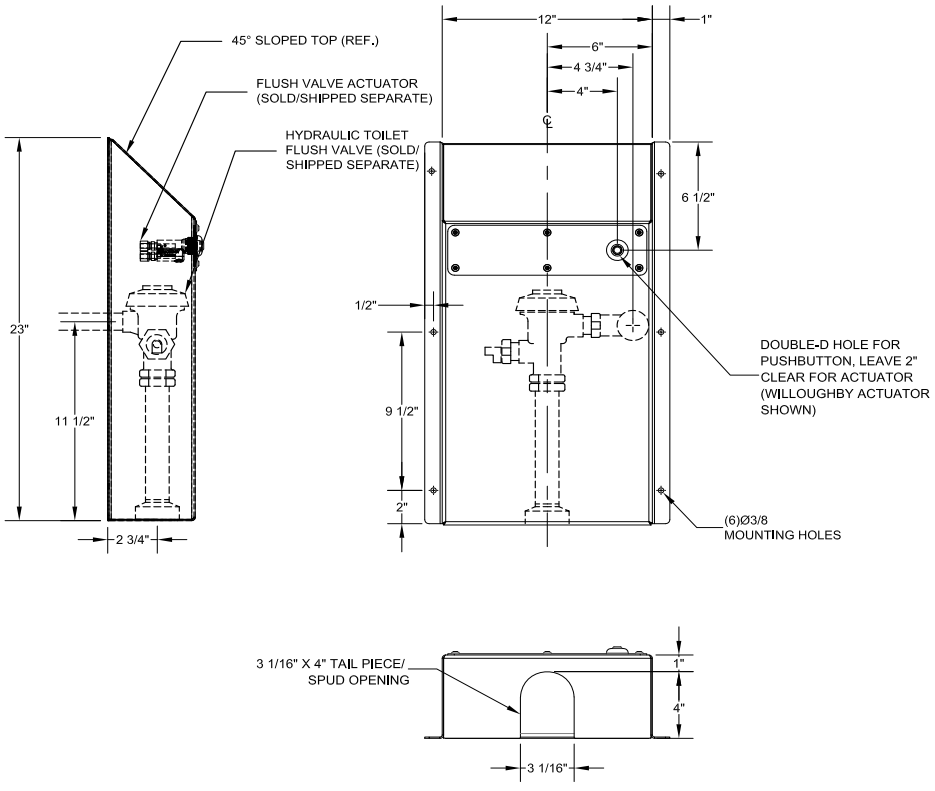


Stainless steel ligature-resistant flush valve cover shall be:
Willoughby Option No. **ASFVC**

Flush valve cover shall be fabricated from 14 GA, Type 304 stainless steel with exposed stainless steel surfaces polished to a #4 satin finish. Flush valve cover is supplied with Ø5/16" mounting holes, anchoring hardware is provided by others. Flush valve cover shall have a ligature-resistant sloped top, radiused vertical corners and a single access cover with a single push button hole for right or left hand toilet.

Options:

- ☐ DC Decorator Color (Fixture exterior only- White)
- ☐ For use with Willoughby push button actuator (double 'D' hole required)
- ☐ For use with Sloan push button actuator (Ø1-1/2" hole required)
- ☐ For use with another push button actuator (specify hole size:_____)



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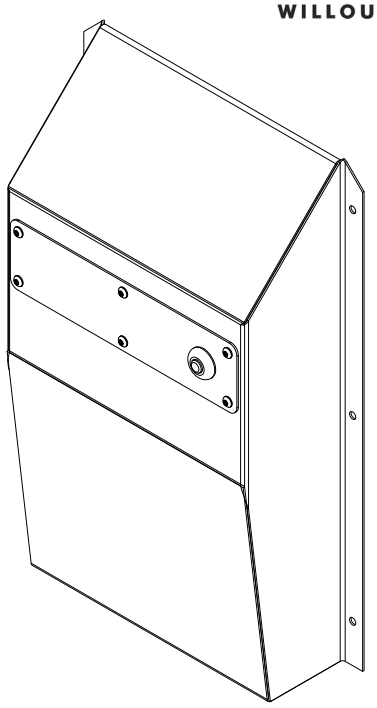
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ASUFVC
Ligature-resistant
Urinal Flush Valve Cover

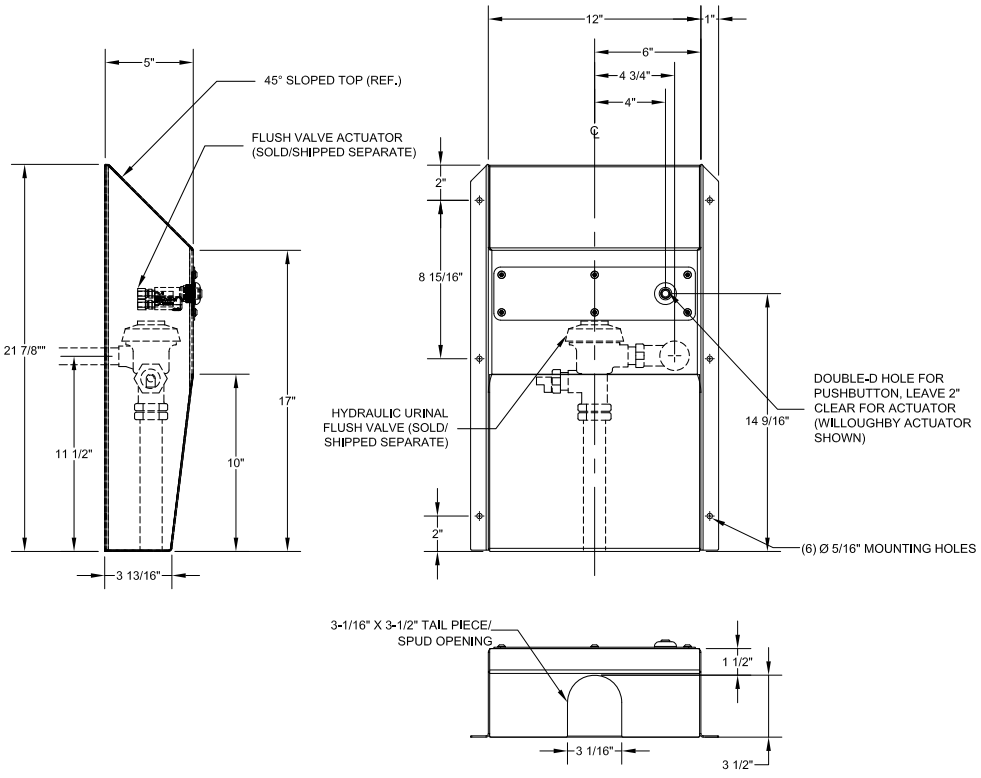


Stainless steel ligature-resistant urinal flush valve cover shall be:
Willoughby Option No. **ASUFVC**

Urinal flush valve cover shall be fabricated from 14 GA, Type 304 stainless steel with exposed stainless steel surfaces polished to a #4 satin finish. Flush valve cover is supplied with Ø5/16" mounting holes, anchoring hardware is provided by others. Flush valve cover shall have ligature-resistant sloped top and bottom and a single access cover with a single push button hole for right or left hand valve.

Options:

- ☐ DC Decorator Color (Fixture exterior only- White)
- ☐ For use with Willoughby push button actuator (double 'D' hole required)
- ☐ For use with Sloan push button actuator (Ø1-1/2" hole required)
- ☐ For use with another push button actuator (specify hole size:_____)



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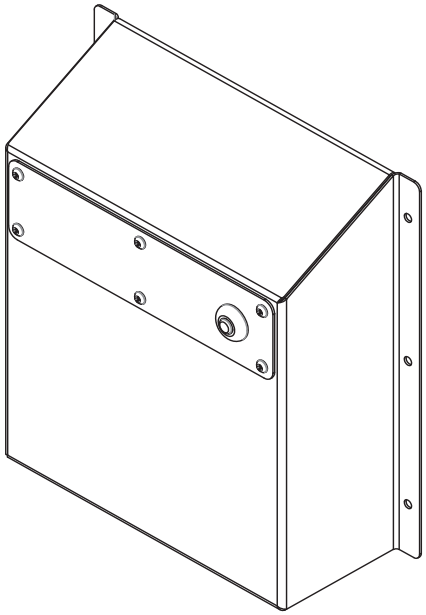
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ASFVC-ADA
Ligature-resistant
ADA Compliant
Flush Valve Cover

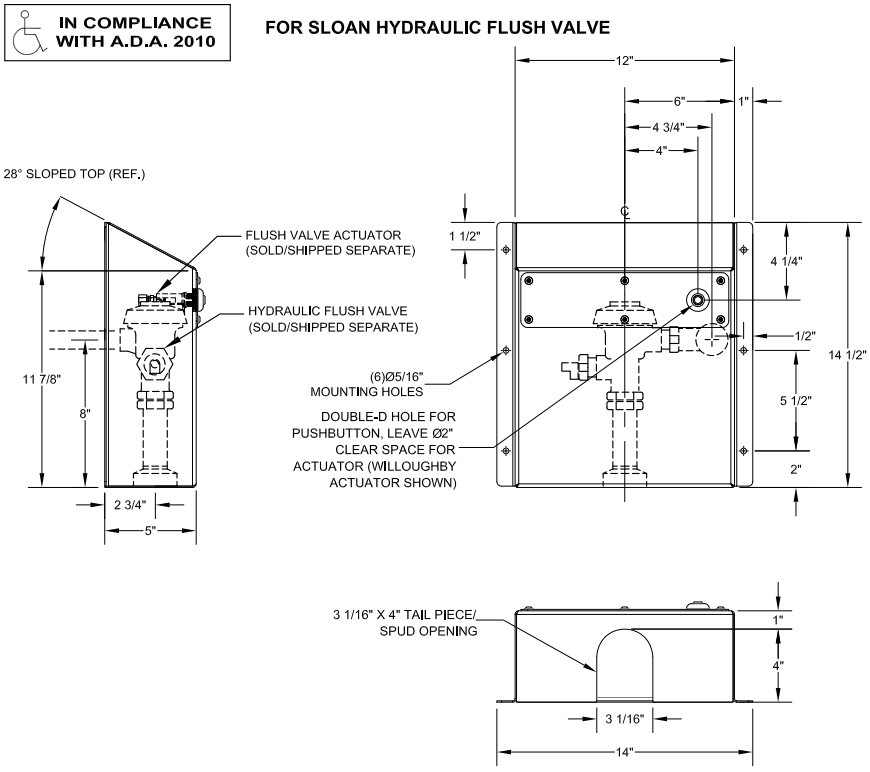
Stainless steel ligature-resistant ADA compliant flush valve cover shall be:
Willoughby Option No. **ASFVC-ADA**

Flush valve cover shall be fabricated from 14 GA, Type 304 stainless steel with exposed stainless steel surfaces polished to a #4 satin finish. Flush valve cover is supplied with Ø5/16" mounting holes, anchoring hardware is provided by others. Flush valve cover shall have a ligature-resistant sloped top, radiused vertical corners, single access cover with a single push button hole for right or left hand toilet.

Options:
- ❑ DC Decorator Color (Fixture exterior only- White)
- ❑ For use with Willoughby push button actuator (double 'D' hole required)
- ❑ For use with Sloan push button actuator (Ø1-1/2" hole required)
- ❑ For use with another push button actuator (specify hole size:_____)



SHOWN WITH WILLOUGHBY 600317PM PUSH BUTTON



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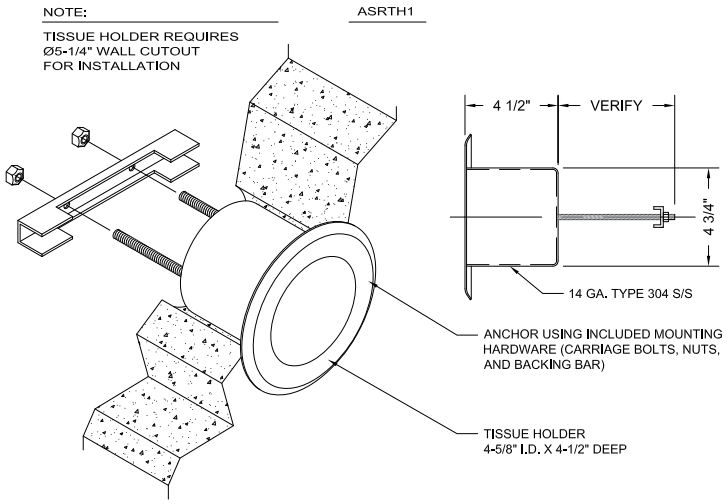
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ASRTH Series
Ligature-Resistant Tissue Holder

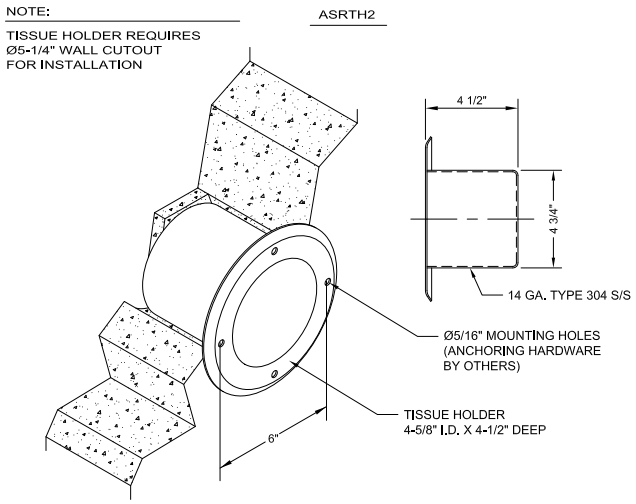
ASRTH1
Rear Mounted Ligature-Resistant Tissue Holder

ASRTH1 recessed toilet tissue holder shall be die-formed of 14 GA, Type 304 stainless steel with an 16 GA, Type 304 #3 satin finish exposed flange. Flange edge to be turned back providing a tight fit to wall. Holder shall accommodate a standard roll of tissue, measuring 4-5/8" in diameter and 4-1/2" deep. Interior shall be seamless and ligature-resistant, providing no free area for the concealment of contraband and no interior exposed flange edge. Mounting shall be from the rear using S/S mounting hardware provided (verify wall thickness).



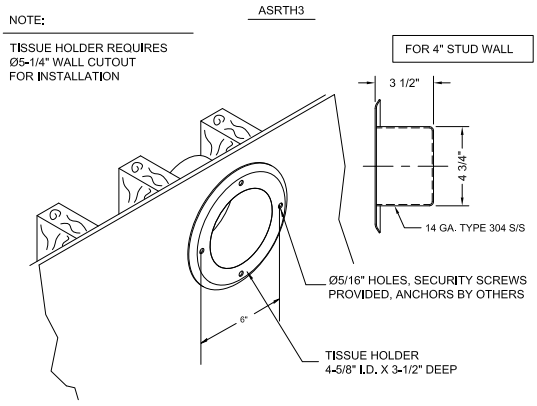
ASRTH2
Front Mounted Ligature-Resistant Tissue Holder

ASRTH2 recessed toilet tissue holder shall be die-formed of 14 GA, Type 304 stainless steel with an 16 GA, Type 304 #3 satin finish exposed flange. Flange edge to be turned back providing a tight fit to wall. Holder shall accommodate a standard roll of tissue, measuring 4-5/8" in diameter and 4-1/2" deep. Interior shall be seamless and ligature-resistant, providing no free area for the concealment of contraband and no interior exposed flange edge. Mounting shall be from the front. Stainless steel security screws provided, wall anchors by others.



ASRTH3
Front Mounted Ligature-Resistant Tissue Holder (For 4" Stud Wall)

ASRTH3 recessed toilet tissue holder shall be die-formed of 14 GA, Type 304 stainless steel with a 16 GA, Type 304 #3 satin finish exposed flange. Flange edge to be turned back providing a tight fit to wall. Holder shall accommodate a standard roll of tissue, measuring 4-3/4" in diameter and 3-1/2" deep. Interior shall be seamless and ligature-resistant, providing no free area for the concealment of contraband and no interior exposed flange edge. Mounting shall be from the front. Stainless steel security screws provided, wall anchors by others.



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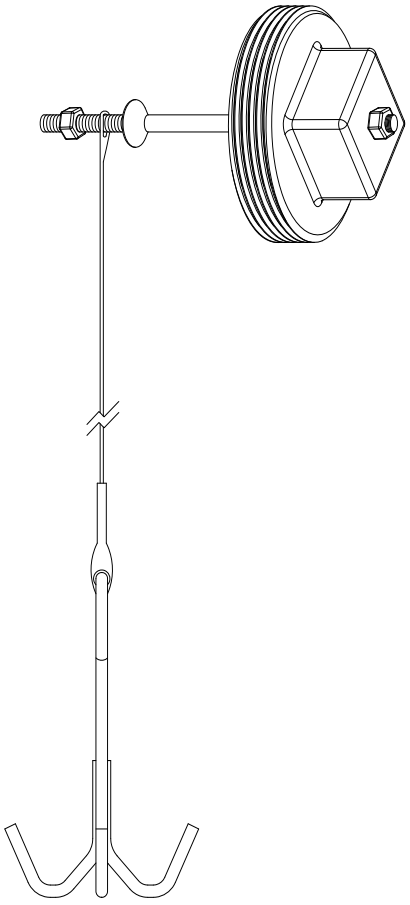
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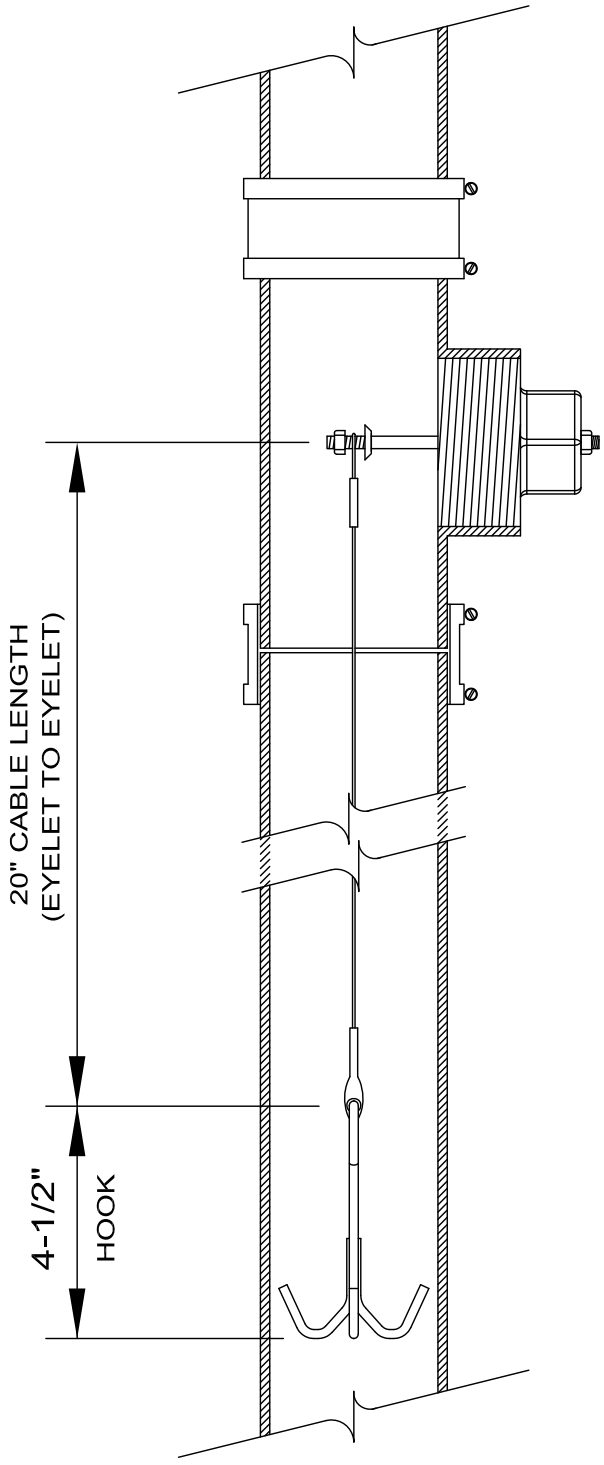
COH Series
Clean-out Hook



✓	PLUG TYPE	MODEL NUMBER
	4" PVC	COH4
	4" BRASS	COHB4

Clean-out hook shall be:
Willoughby Model No. **COH ____**

This option requires the use of a vertically mounted clean-out tee (SOLD SEPARATELY). The PVC or brass plug has a permanent stainless steel pin with stainless steel cable and stainless steel 3-pronged hook which extends downward to catch large objects passing through the waste piping.



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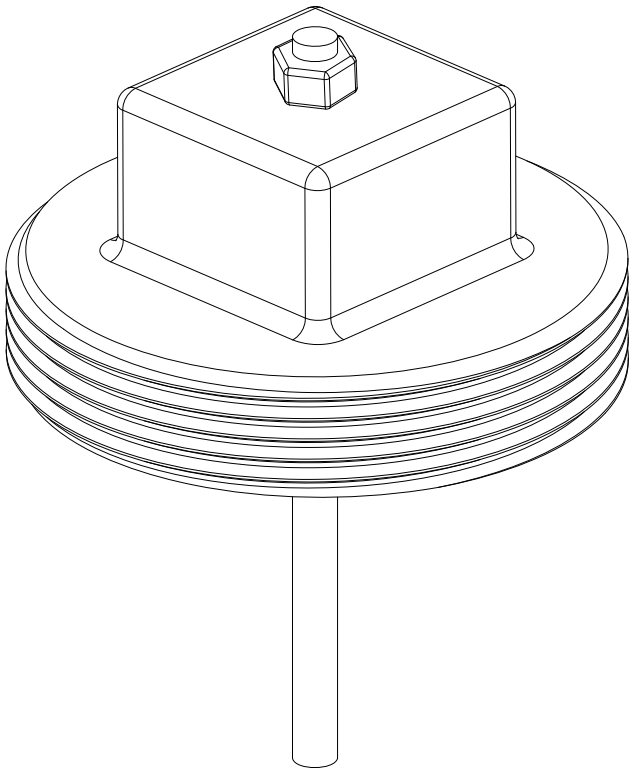
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PC Series
Pinned Clean-out Plug

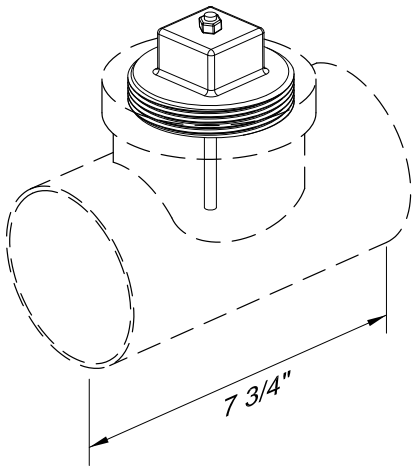


✓	PLUG TYPE	MODEL NUMBER
	3" PVC	PC3
	3" BRASS	PCB3
	4" PVC	PC4
	4" BRASS	PCB4

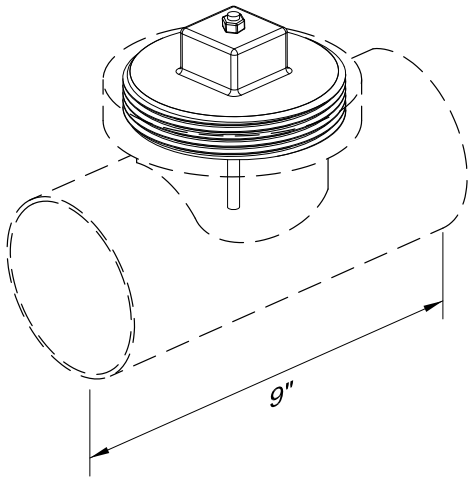
Pinned clean-out plug shall be:
Willoughby Model No. **PC____**

This option requires the use of a clean-out tee (SOLD SEPARATELY). The PVC or brass plug has a permanent stainless steel pin which extends downward to catch large objects passing through the waste piping.

PC3



PC4



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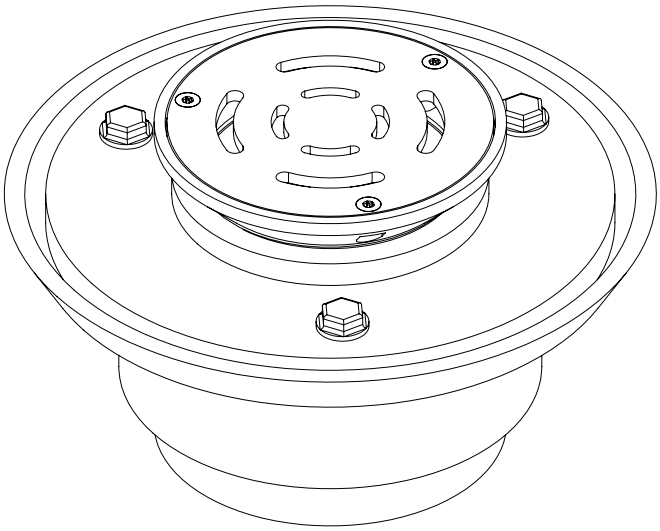
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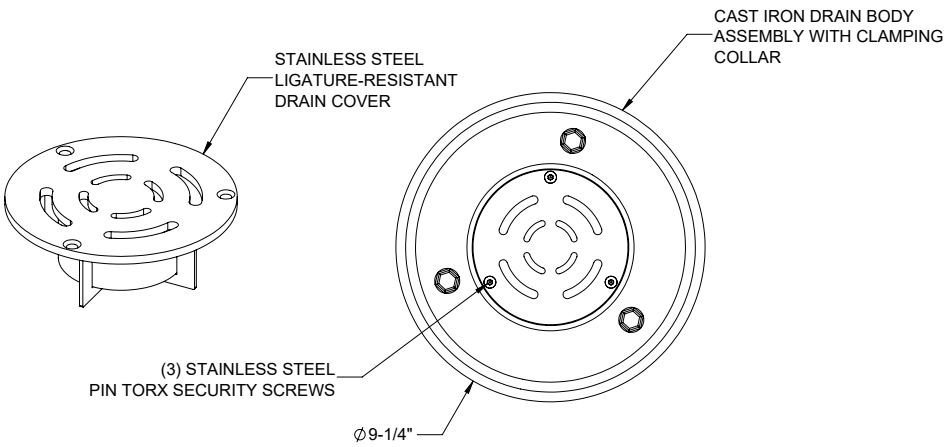
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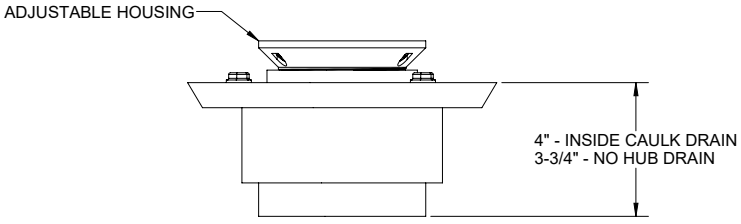
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LRFD Series
Ligature-Resistant Floor Drain



Ligature-resistant floor drain shall be Willoughby Model No. **LRFD-__RD-__-__** (select from model number and options list below). Floor drain assembly shall be cast iron with two piece body with double flange and 1/2" primer tap, invertible flashing collar, weep holes, bottom outlet connection and Nikaloy adjustable housing with heavy gauge, stainless steel, ligature-resistant drain cover.





1.) Base Model Number:
- ❑ LRFD — Ligature-resistant floor drain

2.) Drain Cover
- ❑ 5RD — 5" Ø Cover
- ❑ 6RD — 6" Ø Cover

3.) Pipe Size
- ❑ 2 — 2" Ø Pipe size
- ❑ 3 — 3" Ø Pipe size
- ❑ 4 — 4" Ø Pipe size

4.) Connection Type
- ❑ NH — No-Hub Drain
- ❑ ICD — Inside Caulk Drain
- ❑ PHG — Push-On Hub with Gasket

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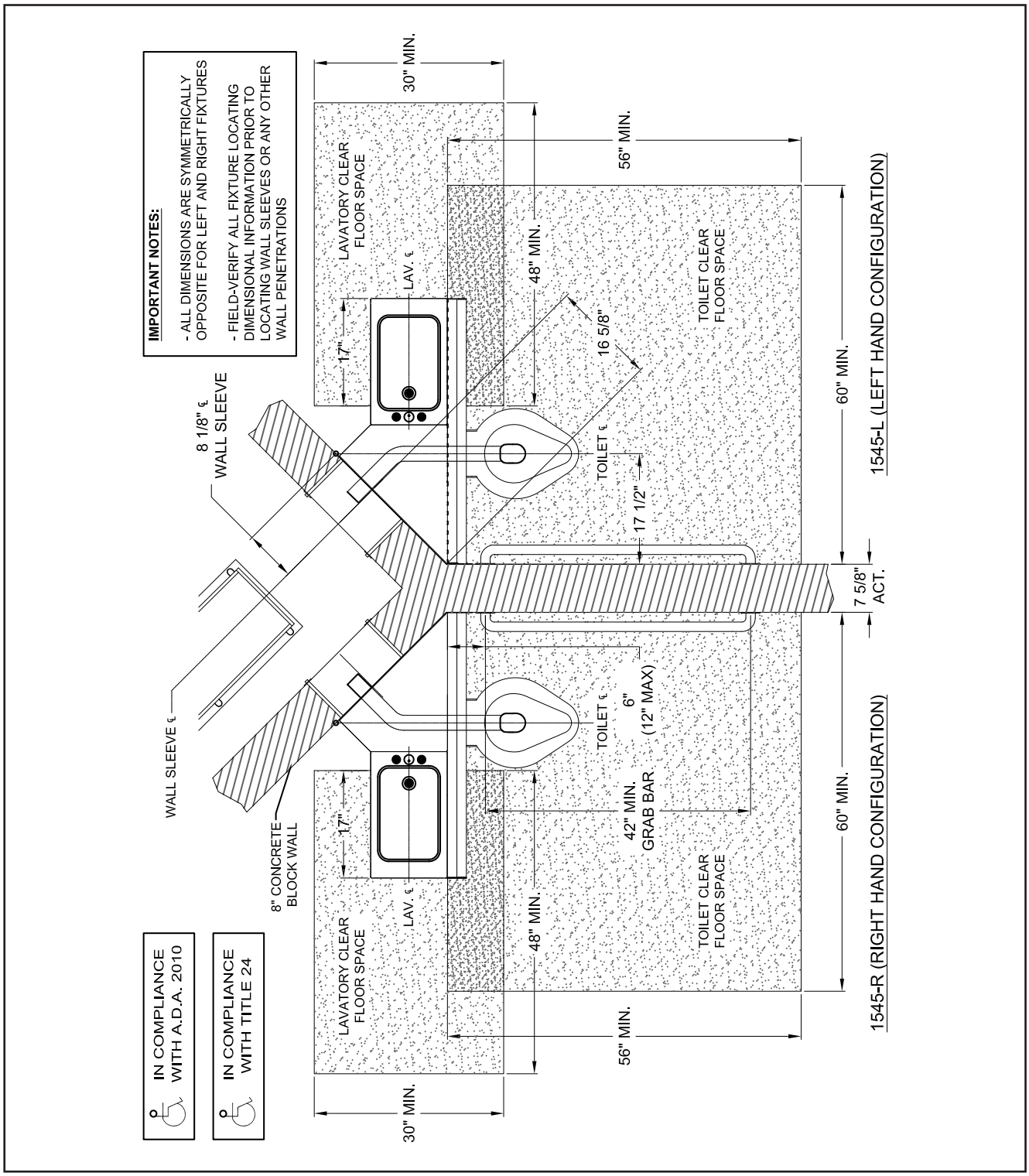
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1545 Series
Handicap Combination Unit Layout

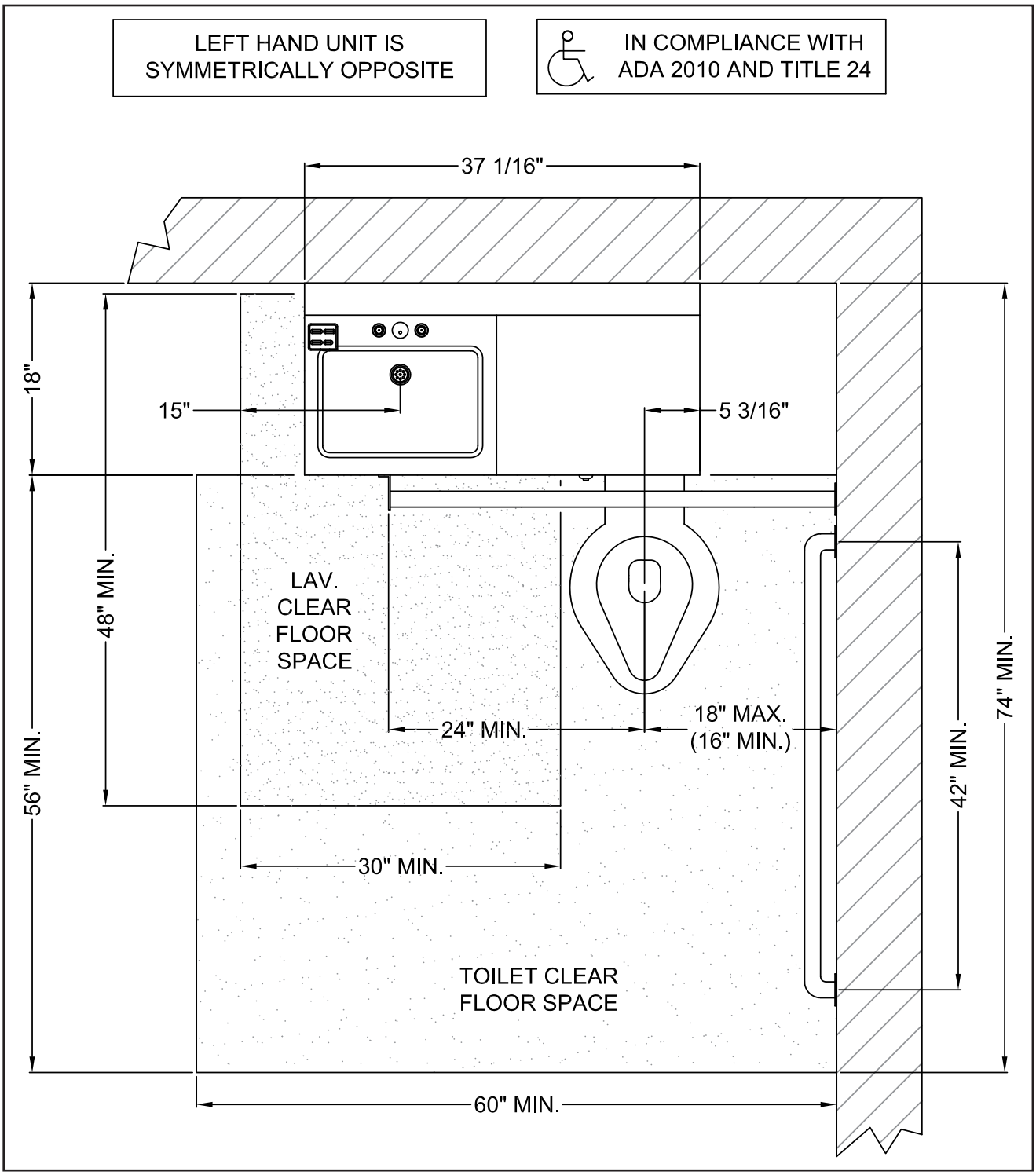


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3696 Series
Handicap Combination Unit Layout

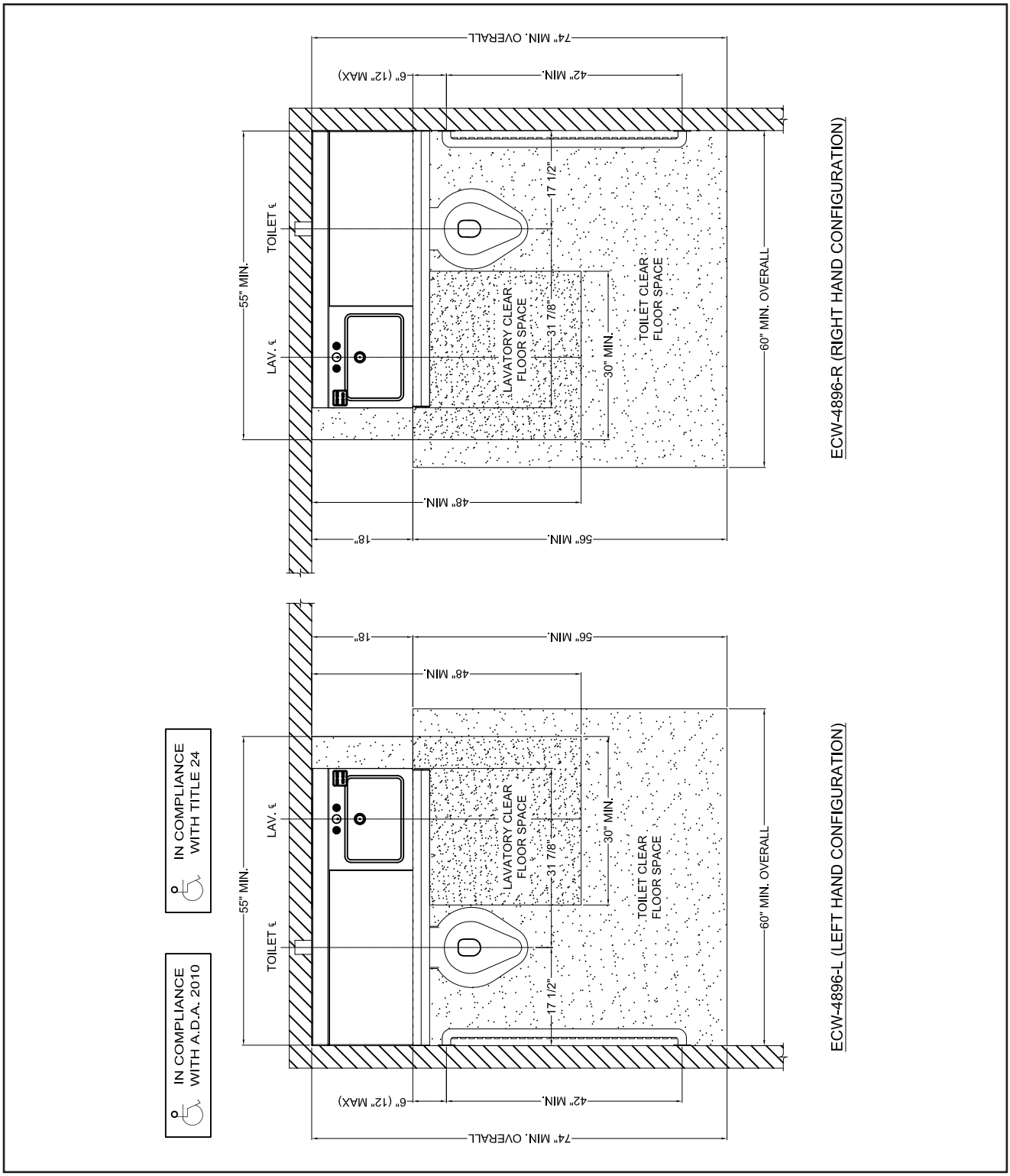


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4896 Series
Handicap Combination Unit Layout

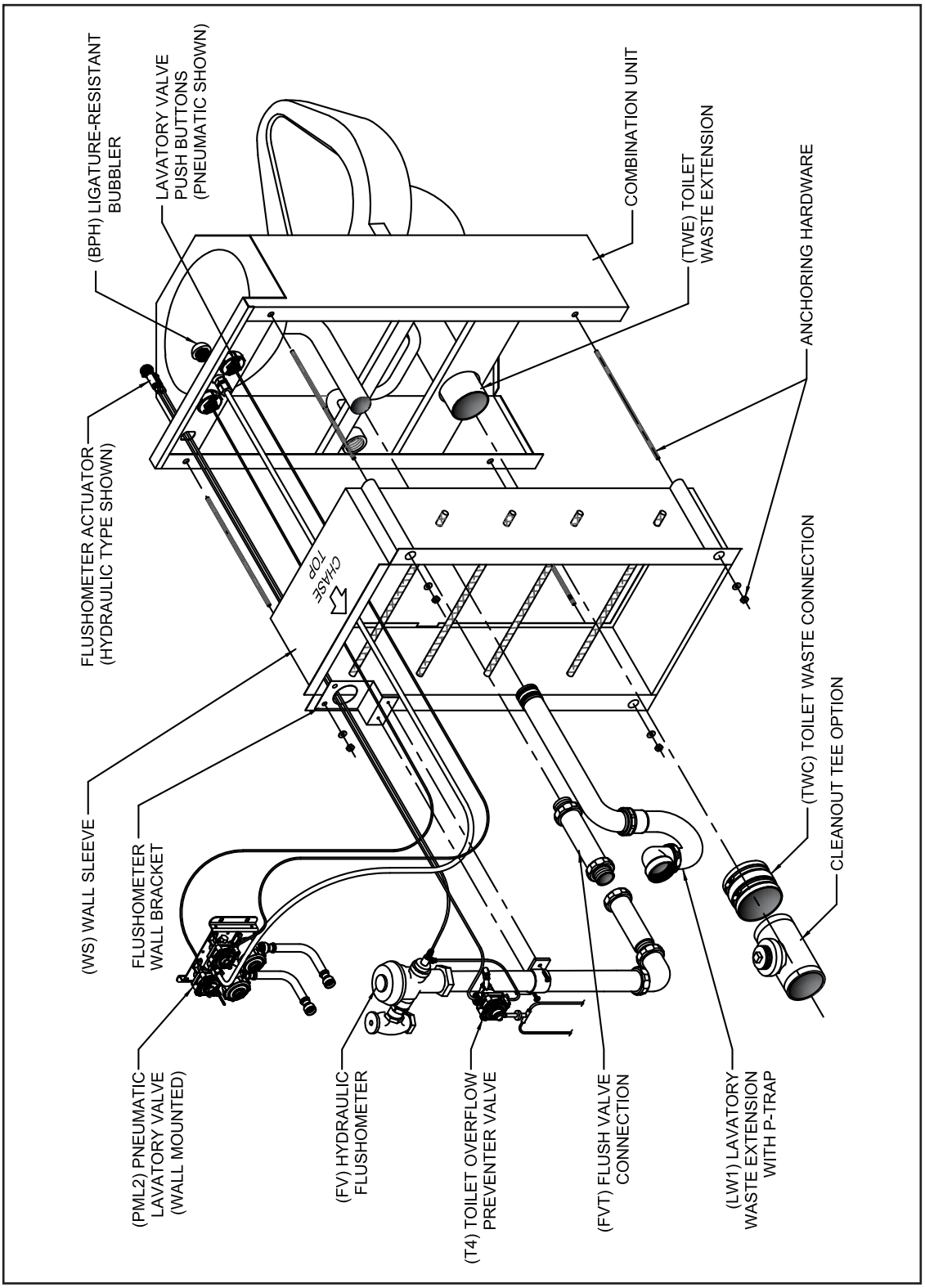


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Typical Combination Unit Installation



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Flush Valve Selection Chart

FLUSH VALVE	COMPATIBILITY CHART	MECH'L SLOAN	HYDRAULIC SLOAN	ACTUATOR	MECH'L ZURN	HYDRAULIC ZURN	MECH'L DELANY	HYDRAULIC DELANY
ECF-1546-C-ON	COMBINATION	603	9603	MBFW	Z-6603XL	ZH-6603XL	623	1223
ECF-1546-L/R-ON	COMBINATION	603	9603	MBFW	Z-6603XL	ZH-6603XL	623	1223
ECF-1846-C-ON	COMBINATION	603	9603	MBFW	Z-6603XL	ZH-6603XL	623	1223
ECF-1846-C-ON-FA	FRONT ACCESS COMBINATION	N/A	950	MBPM	N/A	ZH-6150XL	N/A	1233
ECF-1846-L/R-ON	COMBINATION	603	9603	MBFW	Z-6603XL	ZH-6603XL	603	1223
ECF-1846-L/R-ON-FA	FRONT ACCESS COMBINATION	N/A	950	MBPM	N/A	ZH-6150XL	N/A	1233
ECF-1897-L/R-ON	COMBINATION	603	9603	MBFW	Z-6603XL	ZH-6603XL	603	1223
ECF-1897-L/R-ON-FA	FRONT ACCESS COMBINATION	N/A	950	MBPM	N/A	ZH-6150XL	N/A	1233
ECF-2046-L/R-ON	COMBINATION	603	9603	MBFW	Z-6603XL	ZH-6603XL	603	1223
ECF-2046-L/R-ON-FA	FRONT ACCESS COMBINATION	N/A	950	MBPM	N/A	ZH-6150XL	N/A	1233
ECF-2696-L/R-ON	COMBINATION	603	9603	MBFW	Z-6603XL	ZH-6603XL	603	1223
ECF-2845-L/R-ON-FA-HC	HANDICAP COMBI W/ INTEGRAL, FLUSH VLV	N/A	950	MBPM	N/A	ZH-6150XL	N/A	1233
ECF-2897-L/R-ON-FA-HC	HANDICAP COMBI W/ INTEGRAL, FLUSH VLV	N/A	950	MBPM	N/A	ZH-6150XL	N/A	1233
ECW-1545-L/R-ON-HC	HANDICAP COMBINATION	603	9603	MBFW	Z-6603XL	ZH-6603XL	603	1223
ECW-1546-C-ON	COMBINATION	603	9603	MBFW	Z-6603XL	ZH-6603XL	603	1223
ECW-1546-C-F	COMBINATION	603	9603	MBFW	Z-6603XL	ZH-6603XL	603	1223
ECW-1546-L/R-ON	COMBINATION	603	9603	MBFW	Z-6603XL	ZH-6603XL	603	1223
ECW-1546-L/R-OF	COMBINATION	603	9603	MBFW	Z-6603XL	ZH-6603XL	603	1223
ECW-1846-C-ON	COMBINATION	603	9603	MBFW	Z-6603XL	ZH-6603XL	603	1223
ECW-1846-C-ON-FA	FRONT ACCESS COMBINATION	N/A	950	MBPM	N/A	ZH-6150XL	N/A	1233
ECW-1846-C-F	COMBINATION	603	9603	MBFW	Z-6603XL	ZH-6603XL	623	1223
ECW-1846-L/R-ON	COMBINATION	603	9603	MBFW	Z-6603XL	ZH-6603XL	623	1223
ECW-1846-L/R-ON-FA	FRONT ACCESS COMBINATION	N/A	950	MBPM	N/A	ZH-6150XL	N/A	1233
ECW-1846-L/R-OF	COMBINATION	603	9603	MBFW	Z-6603XL	ZH-6603XL	623	1223
ECW-1897-L/R-ON	COMBINATION	603	9603	MBFW	Z-6603XL	ZH-6603XL	623	1223
ECW-1897-L/R-ON-FA	FRONT ACCESS COMBINATION	N/A	950	MBPM	N/A	ZH-6150XL	N/A	1233
ECW-1897-L/R-OF	COMBINATION	603	9603	MBFW	Z-6603XL	ZH-6603XL	623	1223
ECW-2046-L/R-ON	COMBINATION	603	9603	MBFW	Z-6603XL	ZH-6603XL	623	1223
ECW-2046-L/R-ON-FA	FRONT ACCESS COMBINATION	N/A	950	MBPM	N/A	ZH-6150XL	N/A	1233
ECW-2046-L/R-OF	COMBINATION	603	9603	MBFW	Z-6603XL	ZH-6603XL	623	1223
ECW-2696-L/R-OF	COMBINATION	603	9603	MBFW	Z-6603XL	ZH-6603XL	623	1223
ECW-3696-L/R-ON-FA-HC	HANDICAP COMBI W/ INTEGRAL, FLUSH VLV	N/A	950	MBPM	N/A	ZH-6150XL	N/A	1233
ECW-3696-L/R-OF-FA-HC	HANDICAP COMBI W/ INTEGRAL, FLUSH VLV	N/A	950	MBPM	N/A	ZH-6150XL	N/A	1233
ETF-1490-FM-BS	WATER CLOSET	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETF-1490-FM-BS-10"-FA	FRONT ACCESS WATER CLOSET	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240

When specifying low flow toilets, the accompanying flush valve must be a low flow flush valve:
Delany low flow: add "1" suffix.
Sloan low flow: add "1.6" suffix (Exception: for model #110-1.6, use model #111)
Zurn low Flow: add "WS-1" suffix

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Flush Valve Selection Chart (cont.)

FLUSH VALVE	COMPATIBILITY CHART	MECH'L SLOAN	HYDRAULIC SLOAN	ACTUATOR	MECH'L ZURN	HYDRAULIC ZURN	MECH'L DELANY	HYDRAULIC DELANY
ETF-1490-FM-BS-12"-FA	FRONT ACCESS COMBINATION	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETF-1490-FM-BS-FA	FRONT ACCESS COMBINATION	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETF-1490-FM-BS-HC	HANDICAP WATER CLOSET	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETF-1490-FM-BS-HC-FA	HANDICAP FRONT ACCESS WATER CLOSET	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETF-1490-FM-TS	WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETF-1490-FM-TS-10"-FA	FRONT ACCESS WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETF-1490-FM-TS-12"-FA	FRONT ACCESS WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETF-1490-FM-TS-FA	FRONT ACCESS WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETF-1490-FM-TS-HC	HANDICAP WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETF-1490-FM-TS-HC-FA	HANDICAP FRONT ACCESS WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETW-1445-FM-BS-HC-L/R	HANDICAP WATER CLOSET	N/A	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETW-1445-OF-BS-HC-L/R	HANDICAP WATER CLOSET	N/A	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETW-1490-CM-BS	WATER CLOSET	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETW-1490-CM-TS	WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETW-1490-ES	WATER CLOSET	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETW-1490-FM-BS	WATER CLOSET	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETW-1490-FM-BS-FA	FRONT ACCESS WATER CLOSET	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETW-1490-FM-BS-HC	HANDICAP WATER CLOSET	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETW-1490-FM-BS-HC-FA	HANDICAP FRONT ACCESS WATER CLOSET	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETW-1490-FM-TS	WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETW-1490-FM-TS-FA	FRONT ACCESS WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETW-1490-FM-TS-HC	HANDICAP WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETW-1490-FM-TS-HC-FA	HANDICAP FRONT ACCESS WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETW-1490-OF-BS	WATER CLOSET	611	910	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETW-1490-OF-TS	WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETWS-1490-CM-BS	WATER CLOSET	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETWS-1490-CM-TS	WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETWS-1490-FM-BS	WATER CLOSET	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETWS-1490-FM-BS-FA	FRONT ACCESS WATER CLOSET	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETWS-1490-FM-BS-FA-HC	HANDICAP FRONT ACCESS WATER CLOSET	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETWS-1490-FM-BS-HC	HANDICAP WATER CLOSET	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240
ETWS-1490-FM-TS	WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETWS-1490-FM-TS-FA	FRONT ACCESS WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETWS-1490-FM-TS-FA-HC	HANDICAP FRONT ACCESS WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETWS-1490-FM-TS-HC	HANDICAP WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
ETWS-1490-1490-OF-BS	WATER CLOSET	611	9603	MBFW	Z-6611XL	ZH-6603XL	540	1240

When specifying low flow toilets, the accompanying flush valve must be a low flow flush valve:
Delany low flow: add "1" suffix.
Sloan low flow: add "1.6" suffix (Exception: for model #110-1.6, use model #111)
Zurn low Flow: add "WS-1" suffix

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Flush Valve Selection Chart (cont.)

FLUSH VALVE	COMPATIBILITY CHART	MECH'L SLOAN	HYDRAULIC SLOAN	ACTUATOR	MECH'L ZURN	HYDRAULIC ZURN	MECH'L DELANY	HYDRAULIC DELANY
ETWS-1490-OF-TS	WATER CLOSET	110	910	MBFW	Z-6606XL	ZH-6606XL	439	1239
FD-1400-LF	DETOX UNIT LESS FLANGES	110	910	MBPH	Z-6150XL	ZH-6150XL	538	1238
FD-1400-WF	DETOX UNIT WITH FLANGES	110	910	MBPH	Z-6150XL	ZH-6150XL	538	1238
UW-1412-BJ-BS	URINAL	609	9609	MBFW	Z-6609XL	ZH-6609XL	547	1247
UW-1412-BJ-BS-FA	FRONT ACCESS URINAL	609	9609	MBFW	Z-6609XL	ZH-6609XL	547	1247
UW-1412-BJ-TS	URINAL	180-T	980-T	MBFW	Z-6610XL	ZH-6610XL	439	1239
UW-1412-BJ-TS-FA	FRONT ACCESS URINAL	180-T	980-T	MBFW	Z-6610XL	ZH-6610XL	439	1239
UW-1412-WO-BS	URINAL	613	9613	MBFW	Z-6613XL	ZH-6613XL	576	1276
UW-1412-WO-BS-FA	FRONT ACCESS URINAL	613	9613	MBFW	Z-6613XL	ZH-6613XL	576	1276
UW-1412-WO-TS	URINAL	186	986	MBFW	Z-6614XL	ZH-6614XL	575	1275
UW-1412-WO-TS-FA	FRONT ACCESS URINAL	186	986	MBFW	Z-6614XL	ZH-6614XL	575	1275
UW-1438-BS	URINAL	613	9613	MBFW	Z-6613XL	ZH-6613XL	576	1276
UW-1438-TS	URINAL	186	986	MBFW	Z-6614XL	ZH-6614XL	545	1275
UW-1814BJ-BS	URINAL	609	9609	MBFW	Z-6609XL	ZH-6609XL	547	1247
UW-1814-BJ-BS-FA	FRONT ACCESS URINAL	609	9609	MBFW	Z-6609XL	ZH-6609XL	547	1247
UW-1814-BJ-TS	URINAL	180-T	980-T	MBFW	Z-6610XL	ZH-6610XL	439	1239
UW-1814-BJ-TS-FA	FRONT ACCESS URINAL	180-T	980-T	MBFW	Z-6610XL	ZH-6610XL	439	1239
UW-1814-WO-BS	URINAL	613	9613	MBFW	Z-6613XL	ZH-6613XL	576	1276
UW-1814-WO-BS-FA	FRONT ACCESS URINAL	613	9613	MBFW	Z-6613XL	ZH-6613XL	576	1276
UW-1814-WO-TS	URINAL	186	986	MBFW	Z-6614XL	ZH-6614XL	575	1275
UW-1814-WO-TS-FA	FRONT ACCESS URINAL	186	986	MBFW	Z-6614XL	ZH-6614XL	575	1275
UW-1836-BS	URINAL	613	9613	MBFW	Z-6613XL	ZH-6613XL	576	1276
UW-1836-MPT	URINAL	186	986	MBFW	Z-6614XL	ZH-6614XL	575	1275
UW-1836-TS	URINAL	186	986	MBFW	Z-6614XL	ZH-6614XL	575	1275
UW-1848-BS	URINAL	613	9613	MBFW	Z-6613XL	ZH-6613XL	576	1276
UW-1848-MPT	URINAL	186	986	MBFW	Z-6614XL	ZH-6614XL	575	1275
UW-1848-TS	URINAL	186	986	MBFW	Z-6614XL	ZH-6614XL	575	1275
UW-1860-BS	URINAL	613	9613	MBFW	Z-6613XL	ZH-6613XL	576	1276
UW-1860-MPT	URINAL	186	986	MBFW	Z-6614XL	ZH-6614XL	575	1275
UW-1860-TS	URINAL	186	986	MBFW	Z-6614XL	ZH-6614XL	575	1275
UW-1872-BS	URINAL	609	9609	MBFW	Z-6609XL	ZH-6609XL	547	1247
UW-1872-MPT	URINAL	180-T	980-T	MBFW	Z-6610XL	ZH-6610XL	448	1248
UW-1872-TS	URINAL	180-T	980-T	MBFW	Z-6610XL	ZH-6610XL	448	1248
UW-1896-BS	URINAL	609	9609	MBFW	Z-6609XL	ZH-6609XL	547	1247
UW-1896-MPT	URINAL	180-T	980-T	MBFW	Z-6610XL	ZH-6610XL	448	1248
UW-1896-TS	URINAL	180-T	980-T	MBFW	Z-6610XL	ZH-6610XL	448	1248

When specifying low flow toilets, the accompanying flush valve must be a low flow flush valve:
Delany low flow: add "1" suffix.
Sloan low flow: add "1.6" suffix (Exception: for model #110-1.6, use model #111)
Zurn low Flow: add "WS-1" suffix

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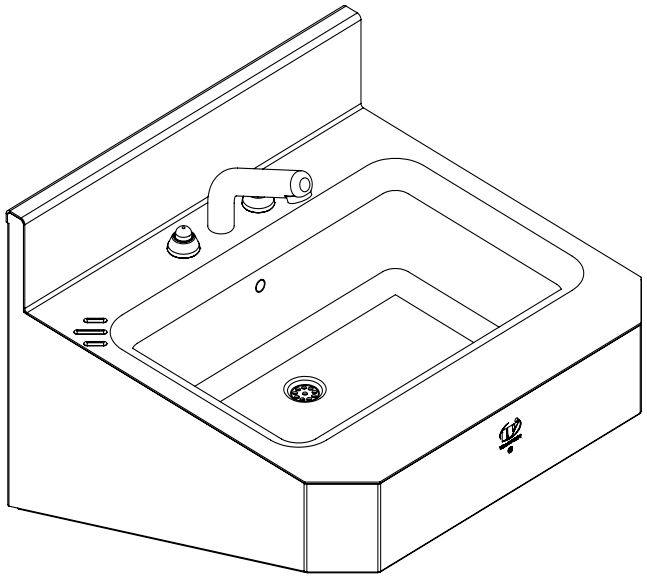
COMMERCIAL PRODUCTS

WILLOUGHBY

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Willoughby Industries - *Commercial Products*

ES-1015-HC
Handicap
Stainless Steel
Commercial Lavatory



IN COMPLIANCE
WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Handicap Stainless Steel Commercial Lavatory with deck mounted spout, dual temp. pneumatic metering valves, standard ligature-resistant pneumatic push buttons, standard lav. overflow vent, and chrome plated removable P-trap

Use the following Willoughby Model Number:
ES-1015-HC-DMS-PML2-PBH-OV-TT

Recommended Specifications

Handicap Stainless Steel Commercial Lavatory shall be:
Willoughby Model No. **ES-1015-HC**
(select from model number and options list on next page)

Fixture shall be fabricated from 16 gauge, Type 304 stainless steel. The construction is all-welded with exposed stainless surfaces polished to a #3 satin finish.

Standard lavatory shall include:
- Rectangular-shaped bowl, 14-1/2" x 9-1/2" x 4-3/8" deep
- Fast drain with overflow vent
- 4" long, Ø1-1/2" tailpiece
- Self-draining soap dish
- 0.5 GPM flow rate

Mounting:
Anchoring shall be from the front with Z-clip and anchoring holes provided. Anchoring hardware by others. Wall requires adequate backing to support lavatory. Unit requires no chase area for installation and maintenance.

ADA, TAS, and ANSI Compliant:
When the lavatory is mounted at the standard 34" adult rim height, it complies with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.

WARNING: Cancer and Reproductive Harm
- www.P65Warnings.ca.gov

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MODEL NUMBER AND OPTIONS:

1.) Lavatory Model:
- ❑ ES-1015-HC 18" Handicap Stainless Steel Commercial Lavatory

2.) Spout/Bubbler Selection:
- ❑ DMS Deck Mounted Spout
- ❑ DMBH Deck Mounted Hemispherical Bubbler

3.) Valve Selection:
- ❑ NV No Valve, No Spout / Bubbler- Faucet by Others (Select Hole Punching if needed)
- ❑ PSL1 Single Temp. Pneumatic Non-metering
- ❑ PSL2 Dual Temp. Pneumatic Non-metering
- ❑ PML1 Single Temp. Pneumatic Metering
- ❑ PML2 Dual Temp. Pneumatic Metering
- ❑ E1L1 Single Temp. Electronic (w/ Pneutronic Control)*
- ❑ E1L2 Dual Temp. Electronic (w/ Pneutronic Control)*

4.) Valve Actuation:
- ❑ PPB Pneumatic Push Buttons
- ❑ PBH Ligature-resistant Pneumatic Push Buttons
- ❑ EPB Electronic Push Buttons*
- ❑ EPBH Ligature-resistant Electronic Push Buttons*
- ❑ PZPB Ligature-resistant Piezo Electronic Push Buttons*

5.) Hole Punching Selection (Faucet by Others):
- ❑ 4CC 4" Centerset, Ø1-1/4" Holes (3 Holes)
- ❑ 8CC 8" Centerset, Ø1-1/4" Holes (3 Holes)
- ❑ 1CC Center Shank, (1) Ø1-1/4" Hole (1 Hole)

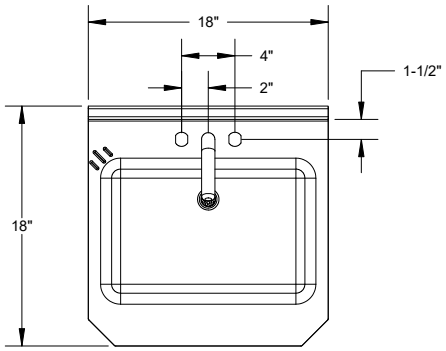
6.) Lavatory Waste Options:
- ❑ TT Chrome Plated Removable P-Trap
- ❑ TE Trap Enclosure
- ❑ OV Overflow Vent (Standard)

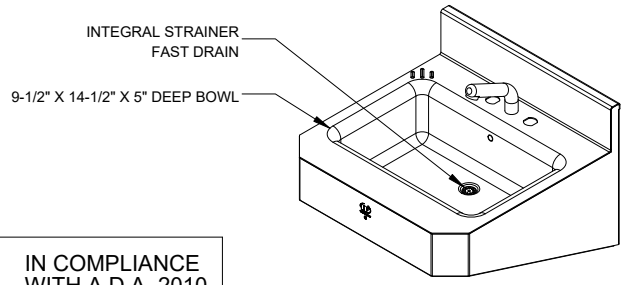
7.) Other Options:
- ❑ TMV In-line Thermostatic Mixing Valve
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ Other _____
- ❑ Other _____

8.) Electronic Controls* (Must Use Electronic Push Button):
- ❑ WUCC-3010 ❑ Pneutronic

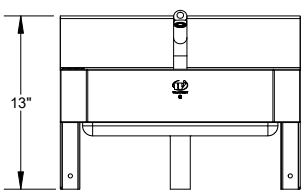
(The WUCC-3010 Control can be used to pair a Lavatory with a Toilet)
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

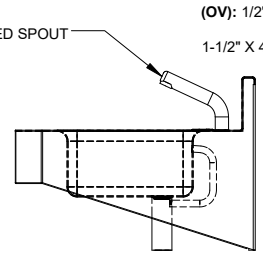
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Wall Thickness: _____ Wall Type: _____

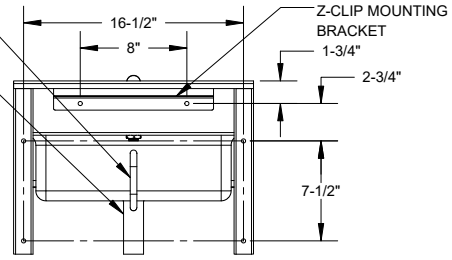




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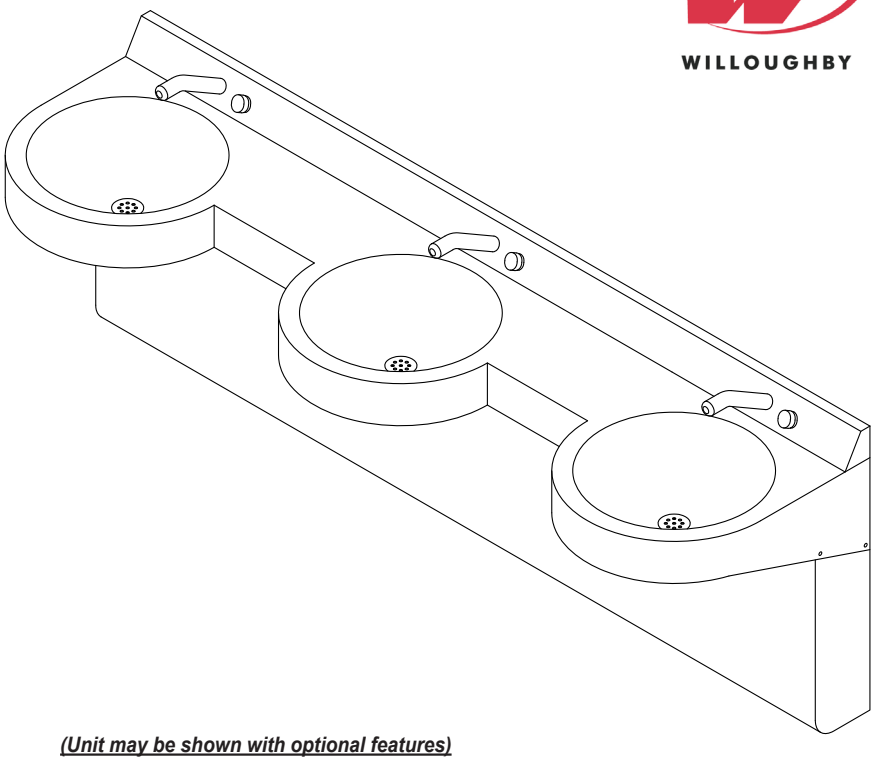
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Willoughby Industries - *Commercial Products*

CWLDR Series Round Front Stainless Steel Lavatory Deck



IN COMPLIANCE WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Round Front, Stainless Steel Lavatory Deck with 3 stations, standard off-floor mounting (34" rim height), backsplash mounted spouts, single temp pneumatic palm push buttons, standard lav. overflow vents, and thermostatic mixing valve

Use the following Willoughby Model Number:
CWLDR-3-OF-BMS-PLPB1-OV-TMV

Recommended Specifications

Round Front, Stainless Steel Lavatory Deck shall be:
Willoughby Model No. **CWLDR**
(select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, Type 304 stainless steel. The construction is all-welded with exposed stainless surfaces polished to a #3 satin finish.

Standard lavatory deck shall include:
- Ø15-3/4" by 5" deep lavatory bowls
- Basin overflows
- Fast drains with overflow vents
- Elbow waste w/ tailpiece-type connections for Ø1-1/2" slip-joint P-trap installations (P-traps by others)
- Stainless steel trap enclosure/pipe shroud

Mounting:
Anchoring shall be from the front with Z-clip and anchoring holes provided. Anchoring hardware by others. Wall requires adequate backing to support lavatory deck. Unit requires no chase area for installation and maintenance.

ADA, TAS, and ANSI Compliant:
When the lavatory is mounted at the standard 34" adult rim height, it complies with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines. Lavatory deck can be ordered with 31" rim height for juvenile use (JR).

Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.

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MODEL NUMBER AND OPTIONS:

1.) Lavatory Model:
- ❑ CWLDR — Round Front Stainless Steel Lavatory Deck

2.) Number of Wash Stations:
- ❑ 1 — (19" Width)
- ❑ 2 — (49" Width)
- ❑ 3 — (79" Width)
- ❑ 4 — (109" Width)

3.) Lavatory Mounting:
- ❑ OF — Off-floor Mounted

4.) Spout Selection:
- ❑ DMS — Deck Mounted Spouts, 0.5 GPM (Offset to side of bowl)
- ❑ BMS — Backsplash Mounted Spouts, 0.5 GPM

5.) Valve Selection:
- ❑ NV — No Valve, No Spout- Faucet by Others (Select Hole Punching if needed)
- ❑ PLPB1 — Pneumatic Palm Push Buttons for Single Temperature Pneumatic Metering
- ❑ PZPB1 — Ligature-resistant Piezo Electronic Push Buttons for Single Temperature Electronic (w/ Pneutronic Control)*
- ❑ IR — Infrared Sensors, Hard-wired (Must select (DMS) Deck Mounted Spout)*
- ❑ BO — Infrared Sensors, Battery Operated (Must select (DMS) Deck Mounted Spout)

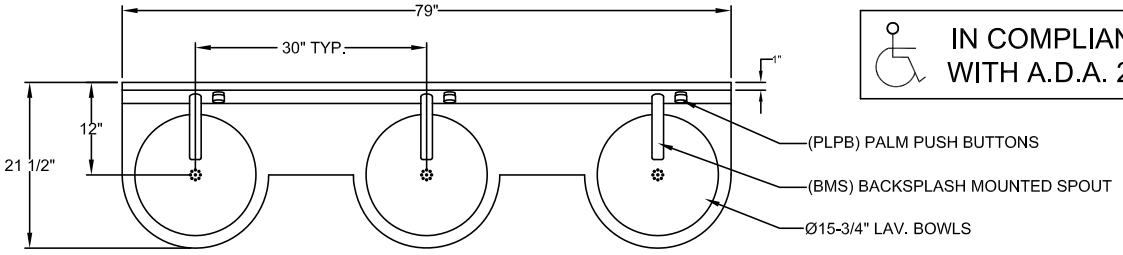
6.) Hole Punching Selection (Faucet by Others):
- ❑ 1CC — Center Shank, (1) Ø1-1/4" Hole (Requires offset mounting)
- ❑ SP — Special Punching (Specify hole punching dim.)
  SP: _____

7.) Lavatory Waste Options:
- ❑ LE — Less Trap Enclosure
- ❑ OV — Overflow Vent (Standard)

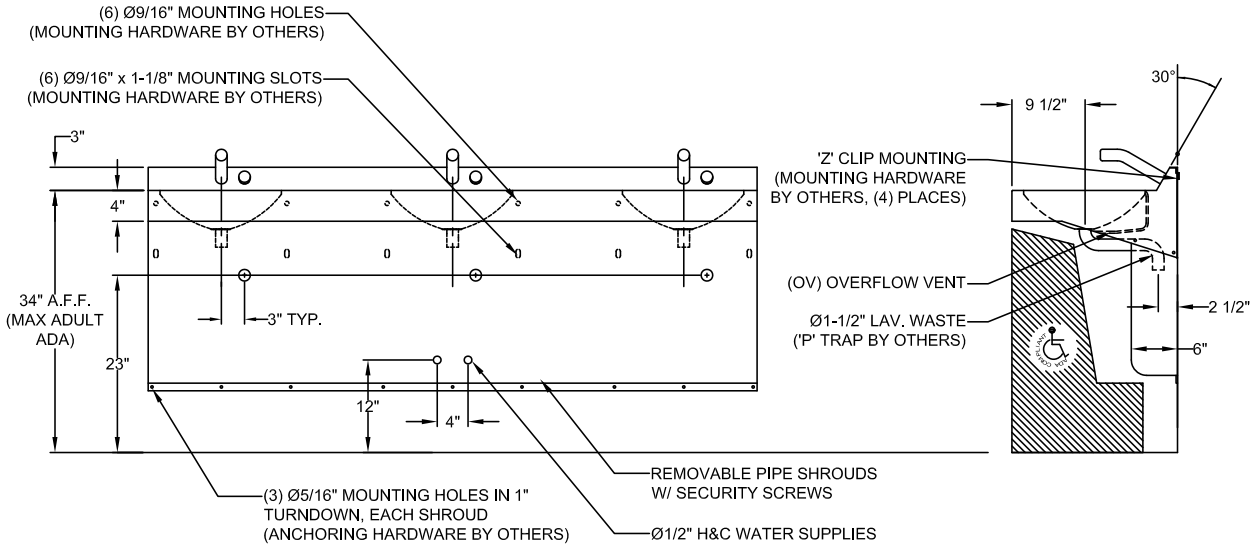
8.) Other Options:
- ❑ KPLD — Lavatory Kick Plate
- ❑ TMV — In-line Thermostatic Mixing Valve
- ❑ DC — Decorator Color (Fixture exterior only - White)
- ❑ LSDM — Liquid Soap Dispensers- Deck-mounted Spout and Bottle
- ❑ JR — Junior Height (31" Rim Height, JR. ADA Compliant)
- ❑ TF24H — Hard-wired Transformer, 110VAC to 24VAC* (Standard)
- ❑ TF24P — Plug-in Transformer, 110VAC to 24VAC*
- ❑ Other _____
- ❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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PLAN VIEW



FRONT VIEW

SIDE VIEW

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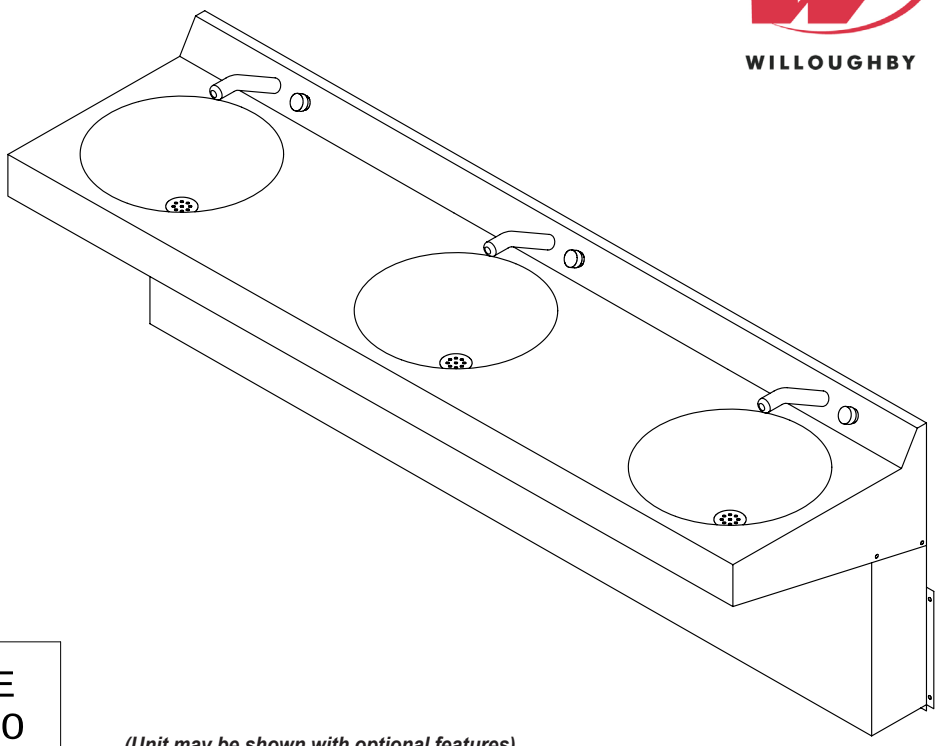
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CWLD Series Straight Front Stainless Steel Lavatory Deck



IN COMPLIANCE WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Straight Front, Stainless Steel Lavatory Deck with 3 stations, standard off-floor mounting (34" rim height), backsplash mounted spouts, single temp pneumatic palm push buttons, round lav. bowls, standard lav. overflow vents, and thermostatic mixing valve

Use the following Willoughby Model Number:
CWLD-3-OF-BMS-PLPB1-RND-OV-TMV

Recommended Specifications

Straight Front, Stainless Steel Lavatory Deck shall be:
Willoughby Model No. **CWLD**
(select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, Type 304 stainless steel. The construction is all-welded with exposed stainless surfaces polished to a #3 satin finish.

Standard lavatory deck shall include:
- Ø15-3/4" by 5" deep lavatory bowls
- Basin overflows
- Fast drains with air vents
- Elbow waste w/ tailpiece-type connections for Ø1-1/2" slip-joint P-trap installations (P-traps by others)
- Stainless steel trap enclosure/pipe shroud

Mounting:
Anchoring shall be from the front with Z-clip and anchoring holes provided. Anchoring hardware by others. Wall requires adequate backing to support lavatory deck. Unit requires no chase area for installation and maintenance.

ADA, TAS, and ANSI Compliant:
When the lavatory is mounted at the standard 34" adult rim height, it complies with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines. Lavatory deck can be ordered with 31" rim height for juvenile use (JR).

Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.

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MODEL NUMBER AND OPTIONS:

1.) Lavatory Model:
- ❑ CWLD — Straight Front Stainless Steel Lavatory Deck

2.) Number of Wash Stations:
- ❑ 1 (24" Width)
- ❑ 2 (48" Width)
- ❑ 3 (72" Width)
- ❑ 4 (96" Width)

3.) Lavatory Mounting:
- ❑ OF — Off-floor Mounted

4.) Spout Selection:
- ❑ DMS — Deck Mounted Spouts, 0.5 GPM (Offset to side of bowl)
- ❑ BMS — Backsplash Mounted Spouts, 0.5 GPM

5.) Valve Selection:
- ❑ NV — No Valve, No Spout- Faucet by Others (Select Hole Punching if needed)
- ❑ PLPB1 — Pneumatic Palm Push Buttons for Single Temperature Pneumatic Metering
- ❑ PZPB1 — Ligature-resistant Piezo Electronic Push Buttons for Single Temperature Electronic (w/ Pneutronic Control)*
- ❑ IR — Infrared Sensors, Hard-wired (Must select (DMS) Deck Mounted Spout)*
- ❑ BO — Infrared Sensors, Battery Operated (Must select (DMS) Deck Mounted Spout)

6.) Lavatory Bowl:
- ❑ RND — Round Bowl
- ❑ OVL — Oval Bowl

7.) Hole Punching Selection (Faucet by Others):
- ❑ 4CC — 4" Centerset, Ø1-1/4" Holes* (Requires Oval bowl, specify 2 or 3 holes:___)
- ❑ 8CC — 8" Centerset, Ø1-1/4" Holes* (Requires Oval bowl, specify 2 or 3 holes:___)
- ❑ 1CC — Center Shank, (1) Ø1-1/4" Hole
- ❑ SP — Special Punching (Specify hole punching dim.) SP: _____

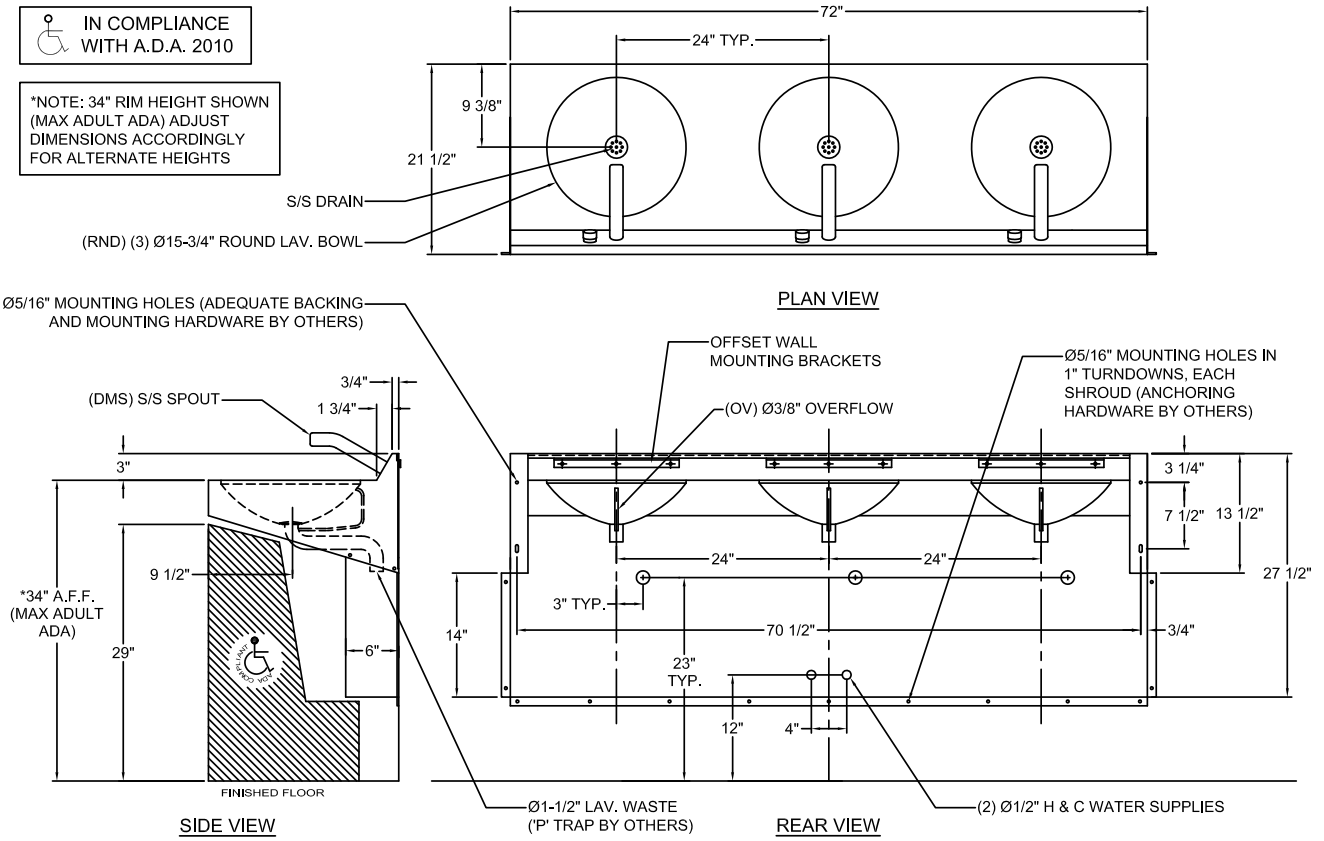
8.) Lavatory Waste Options:
- ❑ LE — Less Trap Enclosure
- ❑ OV — Overflow Vent (Standard)

9.) Other Options:
- ❑ KPLD — Lavatory Kick Plate
- ❑ TMV — In-line Thermostatic Mixing Valve
- ❑ DC — Decorator Color (Fixture exterior only - White)
- ❑ LSDM — Liquid Soap Dispensers- Deck-mounted Spout and Bottle
- ❑ JR — Junior Height (31" Rim Height, JR. ADA Compliant)
- ❑ TF24H — Hard-wired Transformer, 110VAC to 24VAC* (Standard)
- ❑ TF24P — Plug-in Transformer, 110VAC to 24VAC*
- ❑ Other _____
- ❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

IN COMPLIANCE WITH A.D.A. 2010

*NOTE: 34" RIM HEIGHT SHOWN (MAX ADULT ADA) ADJUST DIMENSIONS ACCORDINGLY FOR ALTERNATE HEIGHTS



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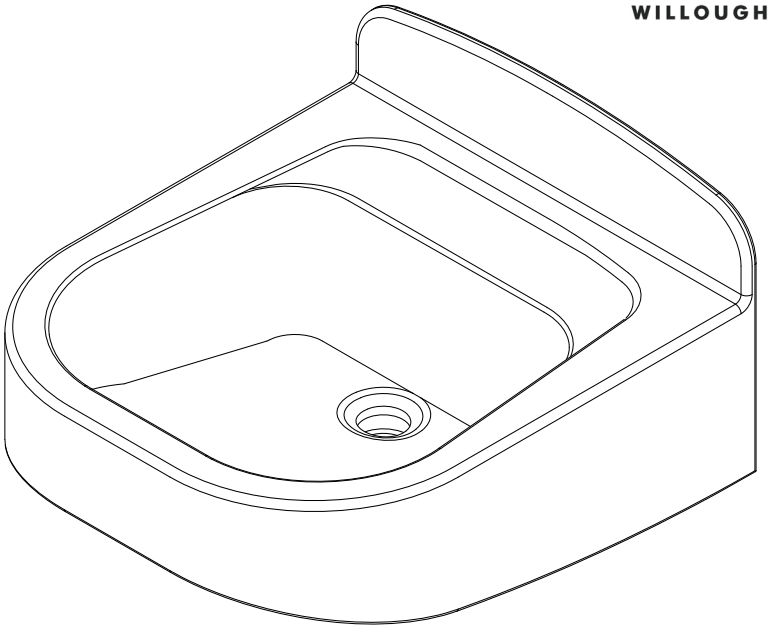
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Willoughby Industries - *Commercial Products*

WEL-2311
Aquasurf®
Single Station
Executive Lavatory



IN COMPLIANCE
WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options Guide.

Example: To specify an Aquasurf® Single Station Executive Lavatory with no faucet holes (standard), Sandstone color, and a stainless steel trap cover

Use the following Willoughby Model Number:
WEL-2311-NV-SS-TE

Recommended Specifications

Aquasurf® Single Station Executive Lavatory shall be:
Willoughby Model No. **WEL-2311**
(Select from model number and options list on next page)

Aquasurf® Executive Lavatory bowl shall be constructed of molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, and mineral fillers. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

Aquasurf® Executive Lavatory will accommodate one user at a time and features standard integral:
- Oval bowl with soap/faucet ledge
- 4" coved backsplash
- Wrap-around front edge
- Basin overflow

Mounting:
Heavy-gauge stainless steel mounting bracket shall be supplied standard with the lavatory (fasteners by others).

Faucet Holes:
Aquasurf® Executive Lavatory can be drilled for 4" Centerset (4CC) faucet, 8" Centerset (8CC) faucet, 1" Centershank (1CC) faucet, and/or deck-mounted soap dispensers/accessories (deck can be ordered with holes from the factory or without holes for later installation; faucets and accessories by others).

ADA, TAS, and ANSI Compliant:
When the deck is mounted at the standard 34" adult rim height, it complies with applicable ADA,TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines without the need for an offset drain.

Optional Features:
Aquasurf® Executive Lavatories are available with an optional stainless steel trap cover.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ WEL-2311 Aquasurf® Single Station Executive Lavatory

2.) Hole Drilling Selection (Faucet by Others):

❑ NV No Faucet Holes (Standard)
❑ 4CC 4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
❑ 8CC 8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
❑ 1CC Center Shank, (1) Ø1-1/4" Hole
❑ SP Special Drilling (Specify hole drilling dim.)
SP: _____

3.) Solid Surface Colors:

❑ BN Bone
❑ GW Glacier White
❑ GG Grey Granite
❑ SS Sandstone
❑ WG White Granite
❑ BG Black Granite
❑ NB Nocturnal Blue
❑ RC Red Coral
❑ SG Sea Green

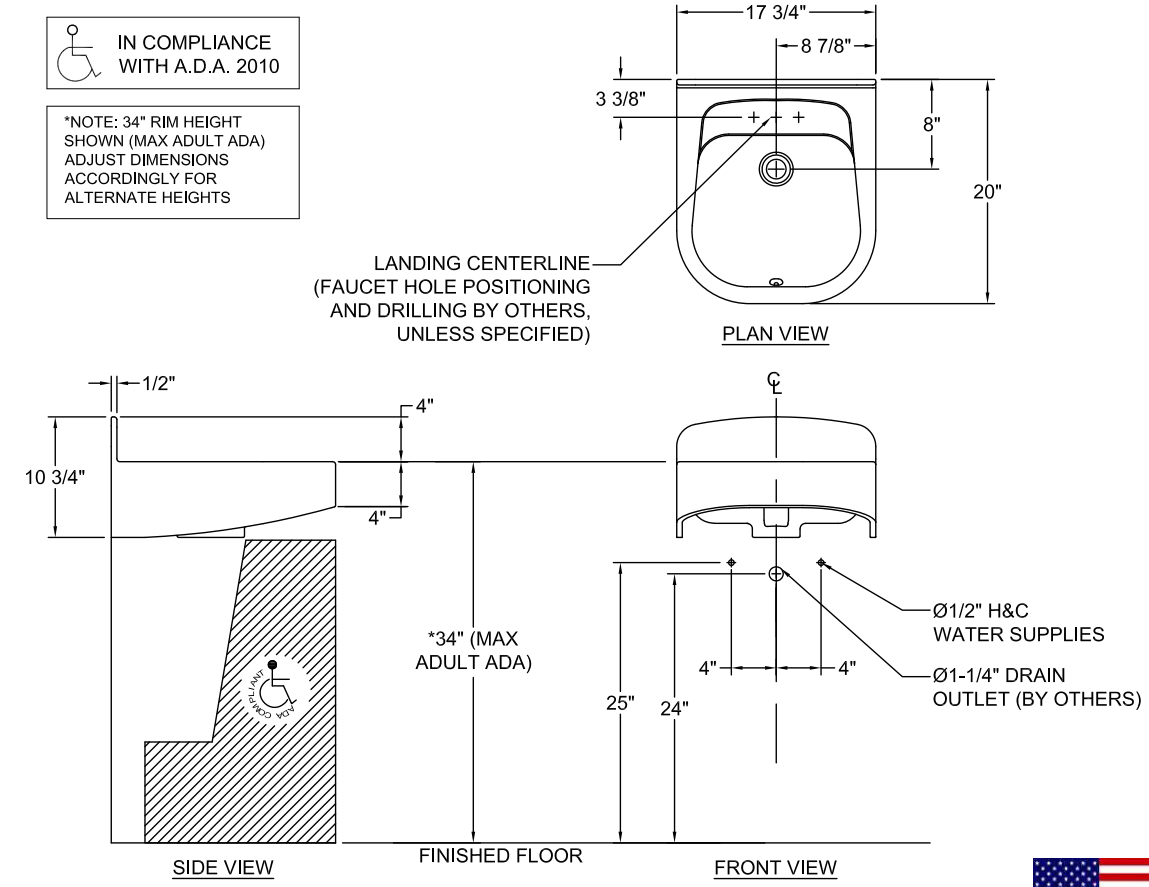
4.) Options:

❑ TE Trap Enclosure
❑ Other _____
❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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*NOTE: 34" RIM HEIGHT SHOWN (MAX ADULT ADA) ADJUST DIMENSIONS ACCORDINGLY FOR ALTERNATE HEIGHTS



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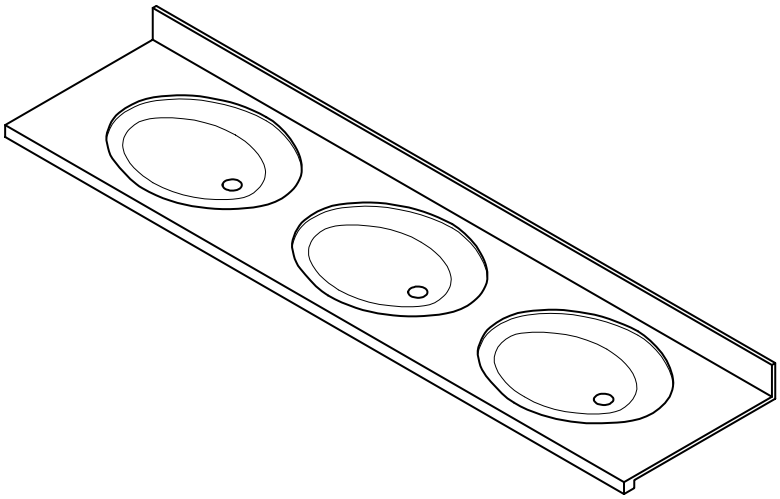
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Willoughby Industries - *Commercial Products*

AquaDeck 2230 Series Square Front (1-1/2") Solid Surface Lavatory Deck



IN COMPLIANCE WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options Guide.

Example: To specify an AquaDeck 2230 Series, Square Front (1-1/2"), Solid Surface Lavatory Deck with no faucet holes (standard), White Granite color, standard square-eased front edge, and right and left side splashes

Use the following Willoughby Model Number:
WAD-2230-3-NV-WG-WADSS-0422R-WADSS-0422L

Recommended Specifications

AquaDeck 2230 Series, Square Front (1-1/2"), Solid Surface Lavatory Deck shall be:
Willoughby Model No. **WAD-2230**
(Select from model number and options list on next page)

The lavatory deck shall be constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, and mineral fillers. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

AquaDeck lavatory deck shall be a modular cast component with standard integral features:
- Oval bowl with soap/faucet ledge
- 4" coved backsplash
- Straight sides
- 1-1/2" square-eased front edge
- Basin overflow
- Drain hole for 1-1/4" pop-up drain

Mounting:
Unit is designed to be supported by in-wall carriers (supplied by others). Optional stainless steel wall mounting brackets are available; specify left or right brackets when ordering.

ADA, TAS, and ANSI Compliant:
When the lavatory deck is mounted at the standard 34" adult rim height, it complies with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

Optional Features:
AquaDeck lavatory decks offer liquid soap dispensers as optional accessories.
AquaDeck lavatory decks can be ordered with Bullnosed or Beveled front edge styles instead of standard square-eased edges and/or 31" rim heights for juvenile use (JR).

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MODEL NUMBER AND OPTIONS:

1.) Lavatory Model:

❑ WAD-2230 AquaDeck 2230 Series, Square Front (1-1/2"), Solid Surface Lavatory Deck

2.) Number of Wash Stations:

❑ 1 ❑ 2 ❑ 3 ❑ 4

3.) Hole Drilling Selection (Faucet by Others):

❑ NV No Faucet Holes (Standard)
❑ 4CC 4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
❑ 8CC 8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
❑ 1CC Center Shank, (1) Ø1-1/4" Hole
❑ SP Special Drilling (Specify hole drilling dim.)
SP: _____

4.) Solid Surface Colors:

❑ BN Bone
❑ GW Glacier White
❑ GG Grey Granite
❑ SS Sandstone
❑ WG White Granite
❑ BG Black Granite
❑ NB Nocturnal Blue
❑ RC Red Coral
❑ SG Sea Green

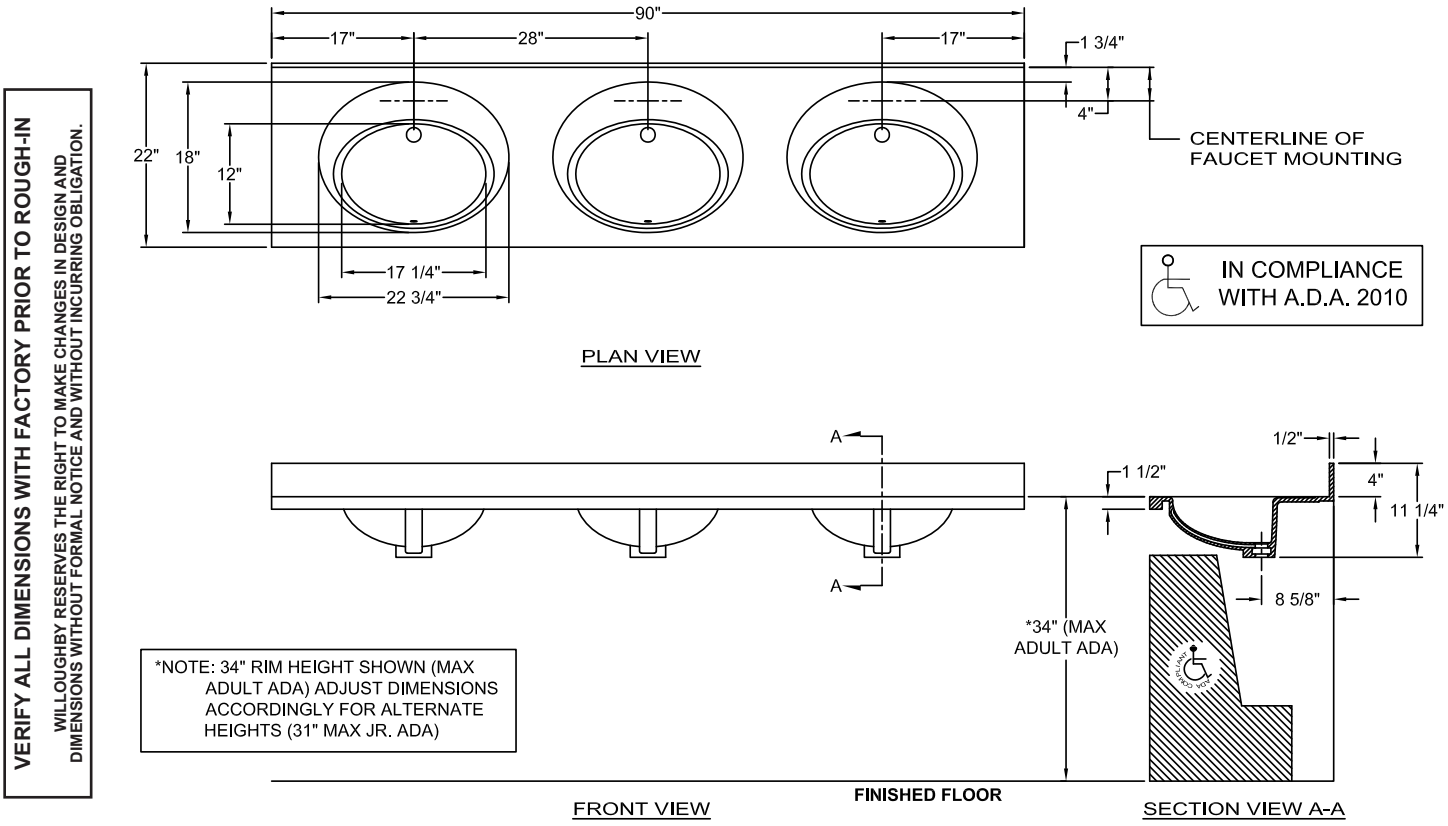
5.) Edge Style:

❑ Square-eased Front Edge (Standard)
❑ BLN Bullnosed
❑ BV Beveled

6.) Options:

❑ LSDM Liquid Soap Dispensers- Deck-mounted Spout and Bottle
❑ JR Junior Height, 31" Rim Height (JR. ADA Compliant)
❑ WADSS-BRKT-R Wall Mounting Bracket- Right
❑ WADSS-BRKT-L Wall Mounting Bracket- Left
❑ WADSS-0422R Right Side Splash
❑ WADSS-0422L Left Side Splash
❑ W-SS-DS Stainless Steel Modular Drain Shroud
❑ Other _____
❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____



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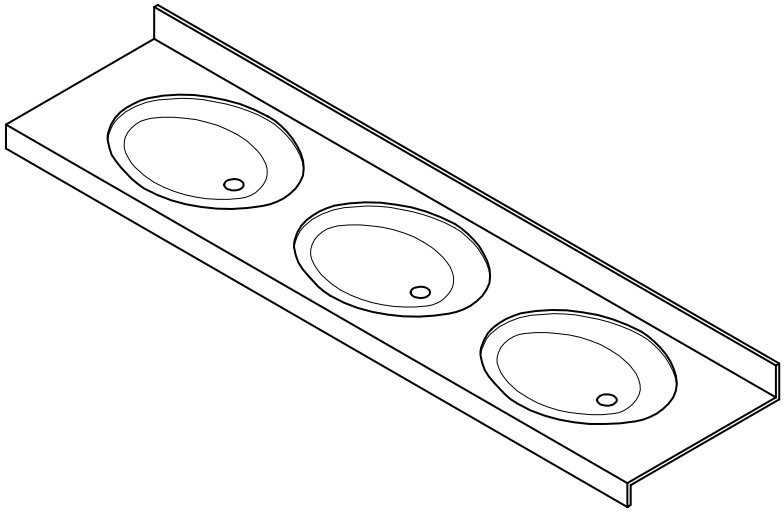
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Willoughby Industries - *Commercial Products*

AquaDeck 2235 Series Square Front (3") Solid Surface Lavatory Deck



IN COMPLIANCE WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options Guide.

Example: To specify an AquaDeck 2235 Series, Square Front (3"), Solid Surface Lavatory Deck with no faucet holes (standard), Black Granite color, bullnose front edge, and left side apron

Use the following Willoughby Model Number:
WAD-2235-3-NV-BG-BLN-WAD-APIS-422L

Recommended Specifications

AquaDeck 2235 Series, Square Front (3"), Solid Surface Lavatory Deck shall be:
Willoughby Model No. **WAD-2235**
(Select from model number and options list on next page)

The lavatory deck shall be constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, and mineral fillers. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

AquaDeck lavatory deck shall be a modular cast component with standard integral features:
- Oval bowl with soap/faucet ledge
- 4" coved backsplash
- Straight sides
- 3" square-eased front edge
- Basin overflow
- Drain hole for 1-1/4" pop-up drain

Mounting:
Unit is designed to be supported by in-wall carriers (supplied by others). Optional stainless steel wall mounting brackets are available; specify left or right brackets when ordering.

ADA, TAS, and ANSI Compliant:
When the lavatory deck is mounted at the standard 34" adult rim height, it complies with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

Optional Features:
AquaDeck lavatory decks offer liquid soap dispensers as optional accessories.
AquaDeck lavatory decks can be ordered with Bullnosed or Beveled front edge styles instead of standard square-eased edges and/or 31" rim heights for juvenile use (JR).

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MODEL NUMBER AND OPTIONS:

1.) Lavatory Model:

❑ WAD-2235 AquaDeck 2235 Series, Square Front (3"), Solid Surface Lavatory Deck

2.) Number of Wash Stations:

❑ 1 ❑ 2 ❑ 3 ❑ 4

3.) Hole Drilling Selection (Faucet by Others):

❑ NV No Faucet Holes (Standard)
❑ 4CC 4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
❑ 8CC 8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
❑ 1CC Center Shank, (1) Ø1-1/4" Hole
❑ SP Special Drilling (Specify hole drilling dim.)
SP: _____

4.) Solid Surface Colors:

❑ BN Bone
❑ GW Glacier White
❑ GG Grey Granite
❑ SS Sandstone
❑ WG White Granite
❑ BG Black Granite
❑ NB Nocturnal Blue
❑ RC Red Coral
❑ SG Sea Green

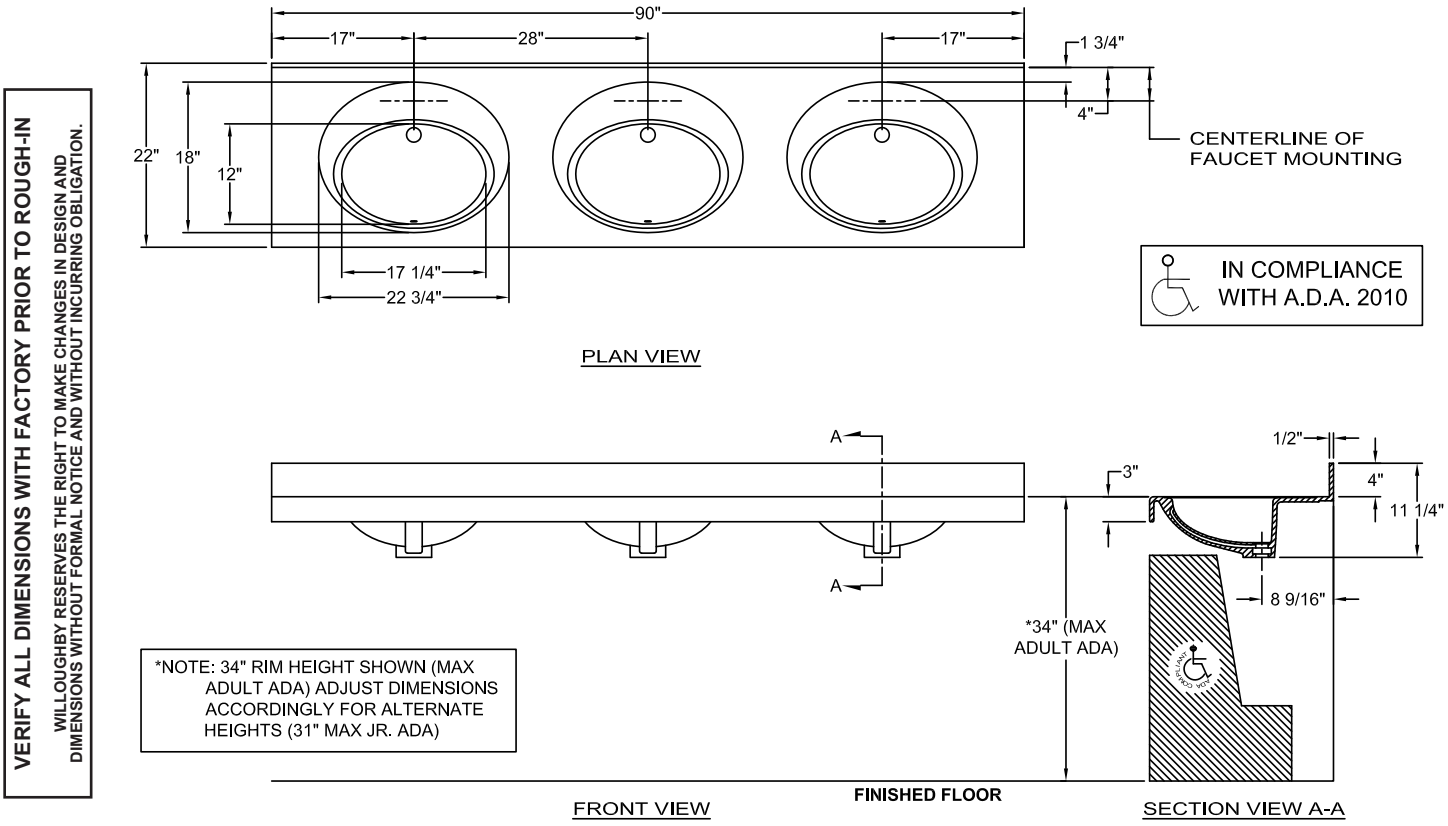
5.) Edge Style:

❑ Square-eased Front Edge (Standard)
❑ BLN Bullnosed
❑ BV Beveled

6.) Options:

❑ LSDM Liquid Soap Dispensers- Deck-mounted Spout and Bottle
❑ JR Junior Height, 31" Rim Height (JR. ADA Compliant)
❑ WADSS-BRKT-R Wall Mounting Bracket- Right
❑ WADSS-BRKT-L Wall Mounting Bracket- Left
❑ WADSS-0422R Right Side Splash
❑ WADSS-0422L Left Side Splash
❑ WAD-APIS-422R Integral Right Side Apron
❑ WAD-APIS-422L Integral Left Side Apron
❑ W-SS-DS Stainless Steel Modular Drain Shroud
❑ Other _____
❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____



VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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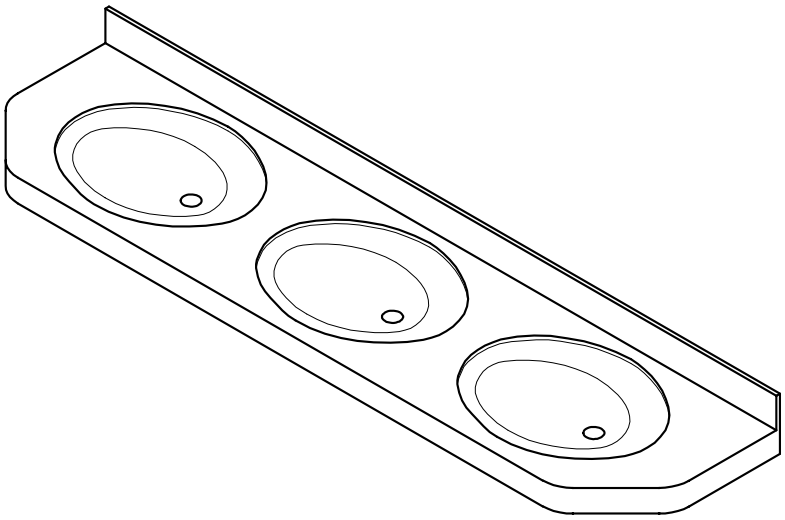
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Willoughby Industries - *Commercial Products*

AquaDeck 2240 Series Angled Front Solid Surface Lavatory Deck



IN COMPLIANCE WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options Guide.

Example: To specify an AquaDeck 2240 Series, Angled Front, Solid Surface Lavatory Deck with no faucet holes (standard), Nocturnal Blue color, bullnose front edges, and right and left side splashes

Use the following Willoughby Model Number:
WAD-2240-3-NV-NB-BLN-WADSS-0422R-WADSS-0422L

Recommended Specifications

AquaDeck 2240 Series, Angled Front, Solid Surface Lavatory Deck shall be:
Willoughby Model No. **WAD-2240**
(Select from model number and options list on next page)

The lavatory deck shall be constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, and mineral fillers. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

AquaDeck lavatory deck shall be a modular cast component with standard integral features:
- 45° angled front corners with matched front and side aprons
- Oval bowl with soap/faucet ledge
- 4" coved backsplash
- All square-eased front edges
- Basin overflow
- Drain hole for 1-1/4" pop-up drain

Mounting:
Unit is designed to be supported by in-wall carriers (supplied by others). Optional stainless steel wall mounting brackets are available; specify left or right brackets when ordering.

ADA, TAS, and ANSI Compliant:
When the lavatory deck is mounted at the standard 34" adult rim height, it complies with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

Optional Features:
AquaDeck lavatory decks offer liquid soap dispensers as optional accessories.
AquaDeck lavatory decks can be ordered with Bullnosed or Beveled front edge styles instead of standard square-eased edges and/or 31" rim heights for juvenile use (JR).

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MODEL NUMBER AND OPTIONS:

1.) Lavatory Model:

❑ WAD-2240 AquaDeck 2240 Series, Angled Front, Solid Surface Lavatory Deck

2.) Number of Wash Stations:

❑ 1 ❑ 2 ❑ 3 ❑ 4

3.) Hole Drilling Selection (Faucet by Others):

❑ NV No Faucet Holes (Standard)
❑ 4CC 4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
❑ 8CC 8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
❑ 1CC Center Shank, (1) Ø1-1/4" Hole
❑ SP Special Drilling (Specify hole drilling dim.)
SP: _____

4.) Solid Surface Colors:

❑ BN Bone
❑ GW Glacier White
❑ GG Grey Granite
❑ SS Sandstone
❑ WG White Granite
❑ BG Black Granite
❑ NB Nocturnal Blue
❑ RC Red Coral
❑ SG Sea Green

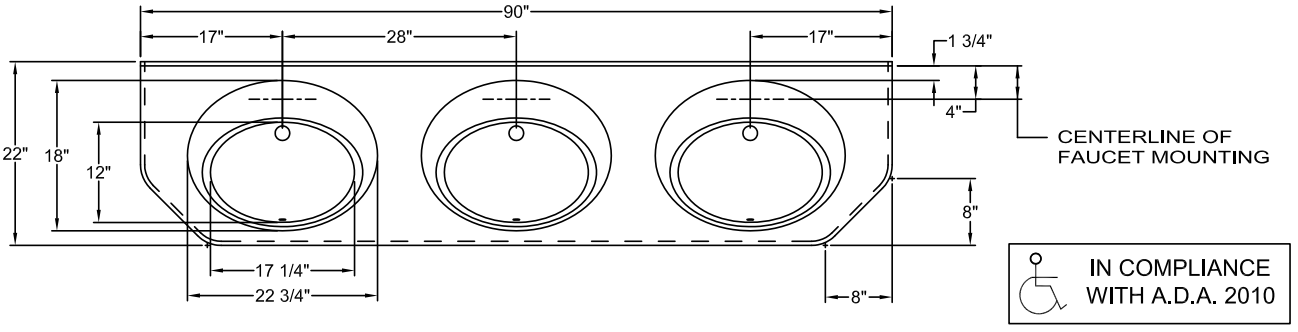
5.) Edge Style:

❑ Square-eased Front Edge (Standard)
❑ BLN Bullnosed
❑ BV Beveled

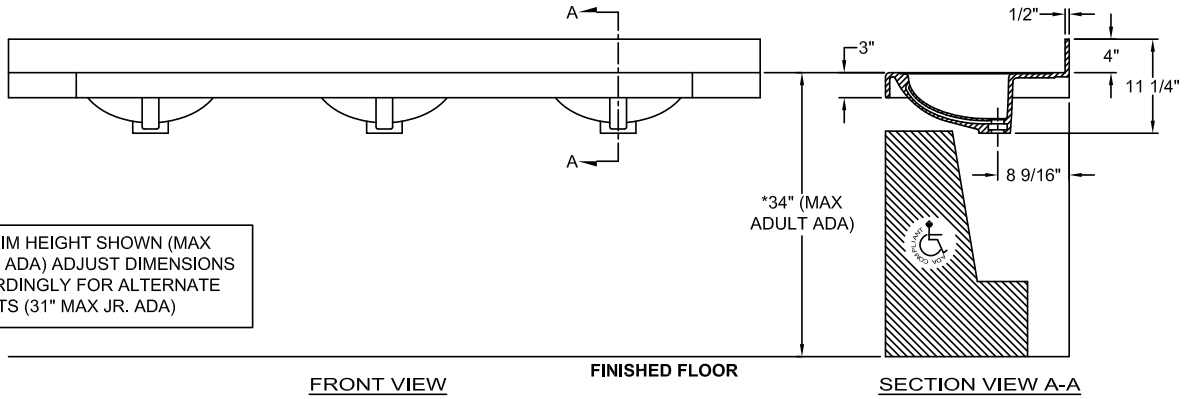
6.) Options:

❑ LSDM Liquid Soap Dispensers- Deck-mounted Spout and Bottle
❑ JR Junior Height, 31" Rim Height (JR. ADA Compliant)
❑ WADSS-BRKT-R Wall Mounting Bracket- Right
❑ WADSS-BRKT-L Wall Mounting Bracket- Left
❑ WADSS-0412R Right Side Splash
❑ WADSS-0412L Left Side Splash
❑ WAD-APIS-412R Integral Right Side Apron
❑ WAD-APIS-412L Integral Left Side Apron
❑ W-SS-DS Stainless Steel Modular Drain Shroud
❑ Other _____
❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____



PLAN VIEW



*NOTE: 34" RIM HEIGHT SHOWN (MAX ADULT ADA) ADJUST DIMENSIONS ACCORDINGLY FOR ALTERNATE HEIGHTS (31" MAX JR. ADA)

FRONT VIEW

SECTION VIEW A-A

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

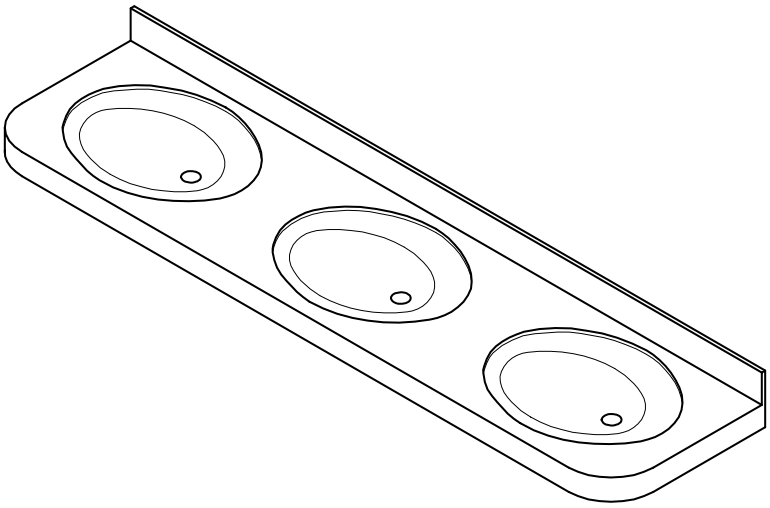
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AquaDeck 2250 Series Radiused Front Solid Surface Lavatory Deck



IN COMPLIANCE WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options Guide.

Example: To specify an AquaDeck 2250 Series, Radiused Front, Solid Surface Lavatory Deck with no faucet holes (standard), Red Coral color, standard square-eased front edges, and right and left side splashes

Use the following Willoughby Model Number:
WAD-2250-3-NV-RC-WADSS-0412R-WADSS-0412L

Recommended Specifications

AquaDeck 2250 Series, Radiused Front, Solid Surface Lavatory Deck shall be:
Willoughby Model No. **WAD-2250**
(Select from model number and options list on next page)

The lavatory deck shall be constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, and mineral fillers. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

AquaDeck lavatory deck shall be a modular cast component with standard integral features:
- 6" Radius front corners with matched front and side aprons
- Oval bowl with soap/faucet ledge
- 4" coved backsplash
- All square-eased front edges
- Basin overflow
- Drain hole for 1-1/4" pop-up drain

Mounting:
Unit is designed to be supported by in-wall carriers (supplied by others). Optional stainless steel wall mounting brackets are available; specify left or right brackets when ordering.

ADA, TAS and ANSI Compliant:
When the lavatory deck is mounted at the standard 34" adult rim height, it complies with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

Optional Features:
AquaDeck lavatory decks offer liquid soap dispensers as optional accessories.
AquaDeck lavatory decks can be ordered with Bullnosed or Beveled front edge styles instead of standard square-eased edges and/or 31" rim heights for juvenile use (JR).

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MODEL NUMBER AND OPTIONS:

1.) Lavatory Model:

❑ WAD-2250 AquaDeck 2250 Series, Radiused Front, Solid Surface Lavatory Deck

2.) Number of Wash Stations:

❑ 1 ❑ 2 ❑ 3 ❑ 4

3.) Hole Drilling Selection (Faucet by Others):

❑ NV No Faucet Holes (Standard)
❑ 4CC 4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
❑ 8CC 8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
❑ 1CC Center Shank, (1) Ø1-1/4" Hole
❑ SP Special Drilling (Specify hole drilling dim.)
SP: _____

4.) Solid Surface Colors:

❑ BN Bone
❑ GW Glacier White
❑ GG Grey Granite
❑ SS Sandstone
❑ WG White Granite
❑ BG Black Granite
❑ NB Nocturnal Blue
❑ RC Red Coral
❑ SG Sea Green

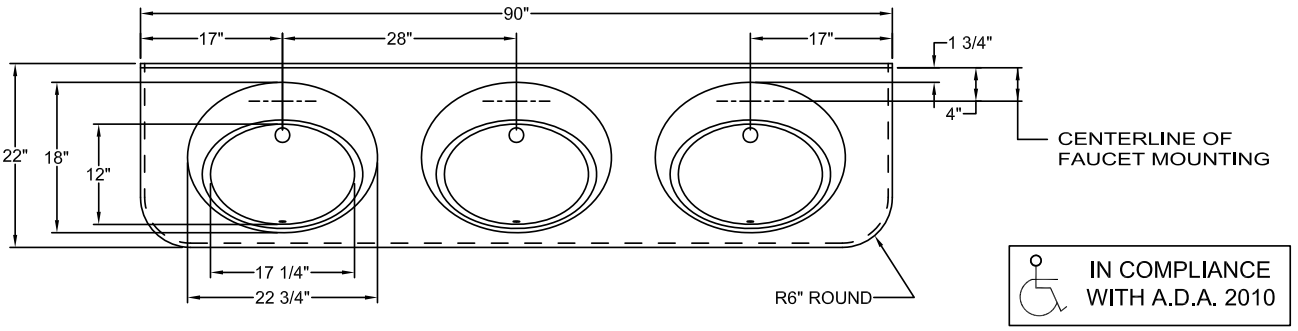
5.) Edge Style:

❑ Square-eased Front Edge (Standard)
❑ BLN Bullnosed
❑ BV Beveled

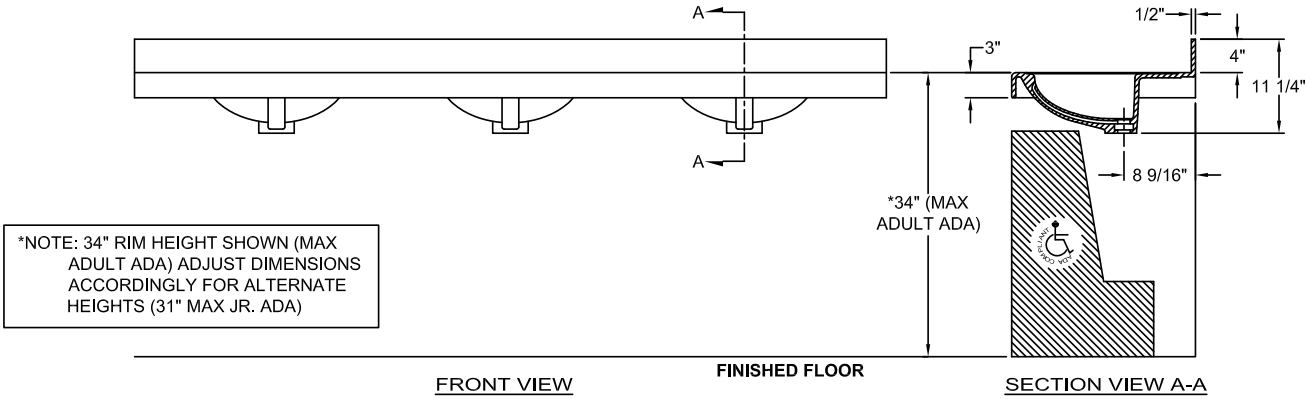
6.) Options:

❑ LSDM Liquid Soap Dispensers- Deck-mounted Spout and Bottle
❑ JR Junior Height, 31" Rim Height (JR. ADA Compliant)
❑ WADSS-BRKT-R Wall Mounting Bracket- Right
❑ WADSS-BRKT-L Wall Mounting Bracket- Left
❑ WADSS-0416R Right Side Splash
❑ WADSS-0416L Left Side Splash
❑ WAD-APIS-416R Integral Right Side Apron
❑ WAD-APIS-416L Integral Left Side Apron
❑ W-SS-DS Stainless Steel Modular Drain Shroud
❑ Other _____
❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____



PLAN VIEW



*NOTE: 34" RIM HEIGHT SHOWN (MAX ADULT ADA) ADJUST DIMENSIONS ACCORDINGLY FOR ALTERNATE HEIGHTS (31" MAX JR. ADA)

FRONT VIEW

SECTION VIEW A-A

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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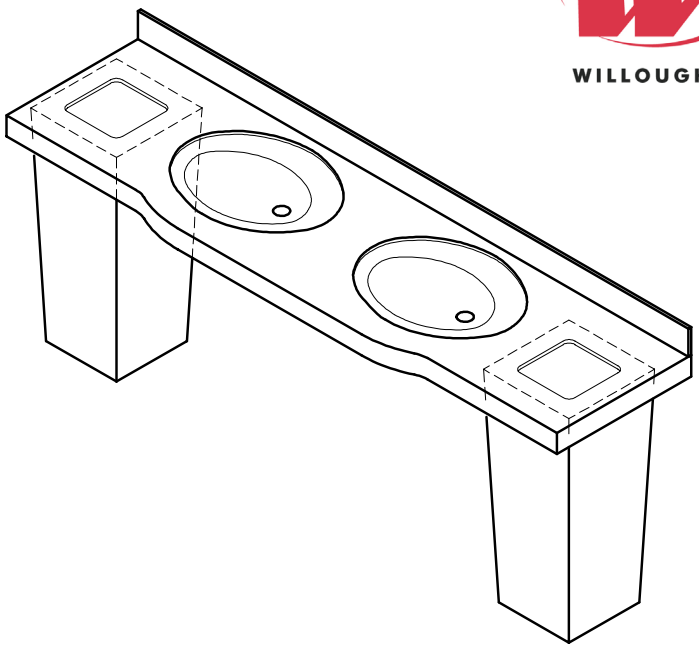
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Willoughby Industries - *Commercial Ware*

AquaDeck 2260 Series Contoured Front Solid Surface Lavatory Deck



IN COMPLIANCE WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options Guide.

Example: To specify an AquaDeck 2260 Series, Contoured Front, Solid Surface Lavatory Deck with the trash receptacle design option, no faucet holes (standard), Sea Green color, bullnose front edge, and right and left integral side aprons

Use the following Willoughby Model Number:
WAD-2260-2-W-SS-TR-NV-SG-BLN-WAD-APIS-422R-WAD-APIS-422L

Recommended Specifications

AquaDeck 2260 Series, Contoured Front, Solid Surface Lavatory Deck shall be:
Willoughby Model No. **WAD-2260**
(Select from model number and options list on next page)

The lavatory deck shall be constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, and mineral fillers. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

AquaDeck lavatory deck shall be a modular cast component with standard integral features:
- Contoured front apron
- Oval bowl with soap/faucet ledge
- 4" coved backsplash
- All square-eased front edges
- Basin overflow
- Drain hole for 1-1/4" pop-up drain

Mounting:
Unit is designed to be supported by in-wall carriers (supplied by others). Optional stainless steel wall mounting brackets are available; specify left or right brackets when ordering.

ADA, TAS, and ANSI Compliant:
When the lavatory deck is mounted at the standard 34" adult rim height, it complies with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

Optional Features:
The AquaDeck WAD-2260 (W-SS-TR) Waste Receptacle Design option (shown above) adds (2) stainless steel waste receptacles and (15") deck extensions with waste cut-outs to both sides of the lavatory deck. Cut-outs are positioned to provide ease of waste disposal into the receptacles below.

AquaDeck lavatory decks offer liquid soap dispensers as optional accessories.
AquaDeck lavatory decks can be ordered with Bullnosed or Beveled front edge styles instead of standard square-eased edges and/or 31" rim heights for juvenile use (JR).

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MODEL NUMBER AND OPTIONS:

1.) Lavatory Model:

❑ WAD-2260 AquaDeck 2260 Series, Contoured Front, Solid Surface Lavatory Deck

2.) Number of Wash Stations:

❑ 1 ❑ 2

3.)Waste Receptacle Design Option (WAD-2260 only):

❑ W-SS-TR (2) Stainless Steel Waste Receptacles (Option adds (15") deck extensions to both sides of the deck)

4.) Hole Drilling Selection (Faucet by Others):

❑ NV No Faucet Holes (Standard)
❑ 4CC 4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
❑ 8CC 8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
❑ 1CC Center Shank, (1) Ø1-1/4" Hole
❑ SP Special Drilling (Specify hole drilling dim.)
SP: _____

5.) Solid Surface Colors:

❑ BN Bone
❑ GW Glacier White
❑ GG Grey Granite
❑ SS Sandstone
❑ WG White Granite
❑ BG Black Granite
❑ NB Nocturnal Blue
❑ RC Red Coral
❑ SG Sea Green

6.) Edge Style:

❑ Square-eased Front Edge (Standard)
❑ BLN Bullnosed
❑ BV Beveled

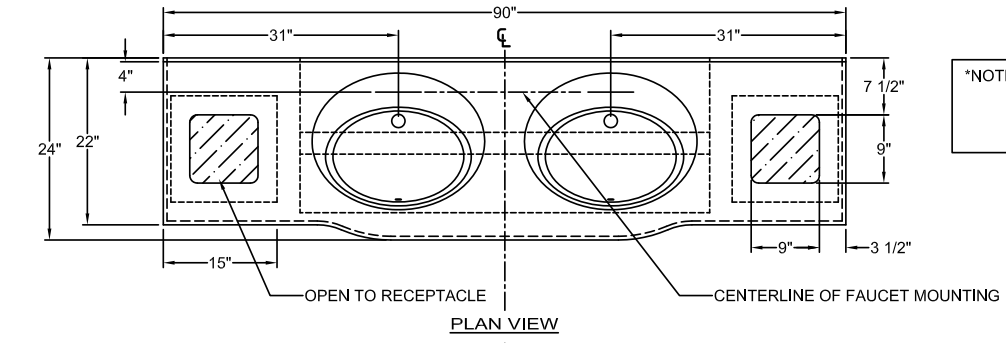
7.) Options:

❑ LSDM Liquid Soap Dispensers- Deck-mounted Spout and Bottle
❑ JR Junior Height, 31" Rim Height (JR. ADA Compliant)
❑ WADSS-BRKT-R Wall Mounting Bracket- Right
❑ WADSS-BRKT-L Wall Mounting Bracket- Left
❑ WADSS-0422R Right Side Splash
❑ WADSS-0422L Left Side Splash
❑ WAD-APIS-422R Integral Right Side Apron
❑ WAD-APIS-422L Integral Left Side Apron
❑ W-SS-DS54 54" Stainless Steel Modular Drain Shroud
❑ Other _____
❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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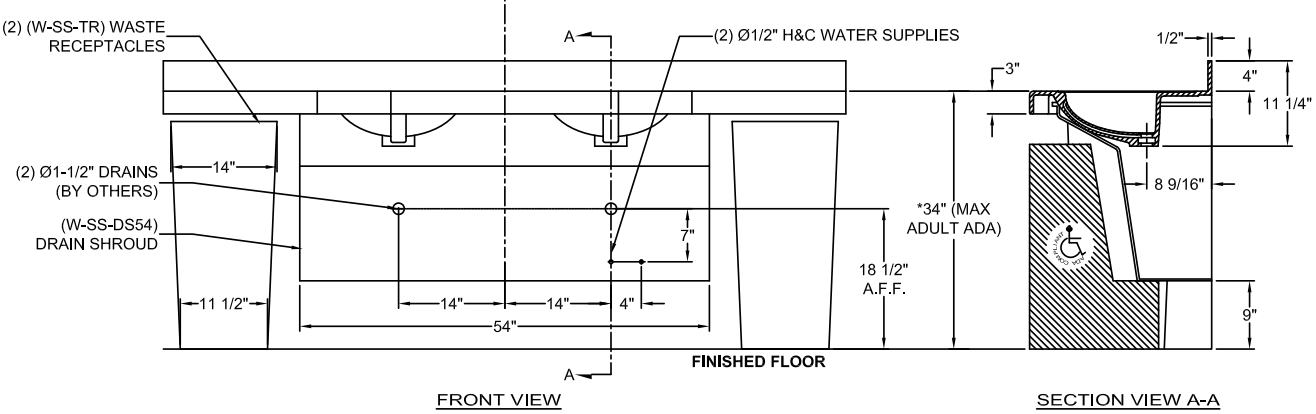
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PLAN VIEW

*NOTE: 34" RIM HEIGHT SHOWN (MAX ADULT ADA) ADJUST DIMENSIONS ACCORDINGLY FOR ALTERNATE HEIGHTS (31" MAX JR. ADA)

IN COMPLIANCE WITH A.D.A. 2010



FRONT VIEW

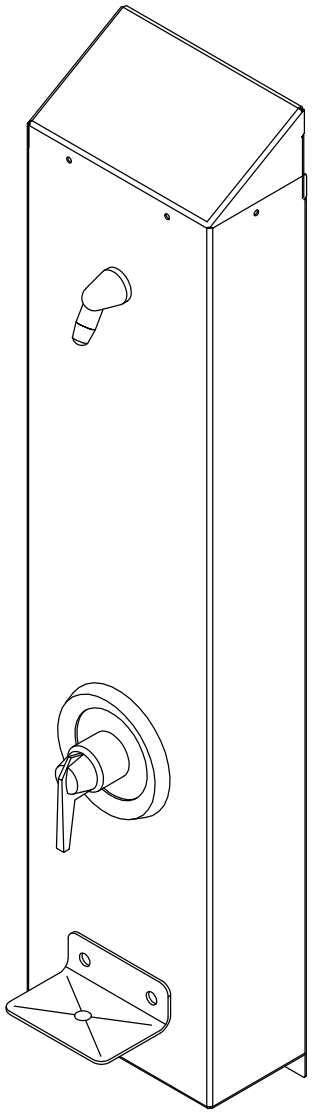
SECTION VIEW A-A

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CWSMS Series
Surface Mounted
Wall Shower



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Surface Mounted Wall Shower with temp./pressure-balancing mixing valve, standard 2.5 GPM flow rate, APS adjustable vandal-resistant shower head, and surface mounted soap dish

Use the following Willoughby Model Number:
CWSMS-TPV-2.5-APS-SD

Recommended Specifications

Surface Mounted Wall Shower shall be:
Willoughby Model No. **CWSMS**
(Select from model number and options list on next page)

Shower panel shall be fabricated from 18 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Sloped top panel and bottom panel are riveted onto the wall shower.

Standard equipment shall include:
- Shower valves (from Valve Selection options list)
- Shower head (from Shower Head Selection options list)
- Z-clip mounting bracket

Anchoring shall be by Z-clip and bottom flange with anchoring hardware by others. Shower unit shall be factory assembled, tested for proper operation, and ready for installation by a contractor. Unit requires no chase area for installation and maintenance.

WaterSense Labeled for LRSH shower head.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ CWSMS — Surface Mounted Wall Shower

2.) Valve Selection:
- ❑ NV — No Valve
- ❑ PML1 — Single Temp. Pneumatic Metering
- ❑ PML2 — Dual Temp. Pneumatic Metering
- ❑ E1L1 — Single Temp. Electronic (Pick Control)*
- ❑ E1L2 — Dual Temp. Electronic (Pick Control)*
- ❑ PBV — Pressure-Balancing Mixing Valve
- ❑ TPV — Temperature/Pressure-Balancing Mixing Valve
- ❑ TPLR — Ligature-resistant Temperature/Pressure-Balancing Mixing Valve
- ❑ SVC — Single Temp. Compression Valve
- ❑ DVC — Dual Temp. Compression Valves

3.) Push Button Selection:
Pneumatic or Electronic Valves Only:
- ❑ PBH — Ligature-resistant Pneumatic Push Buttons
- ❑ PZPB — Ligature-resistant Piezo Electronic Push Buttons*

4.) Flow Rates:
❑ 2.5 GPM (Standard) ❑ 2.0 GPM ❑ 1.5 GPM

5.) Electronic Control* (Must Use Electronic Push Button):
❑ WUSC-2200 ❑ WUSC-2400 ❑ Pneutronic

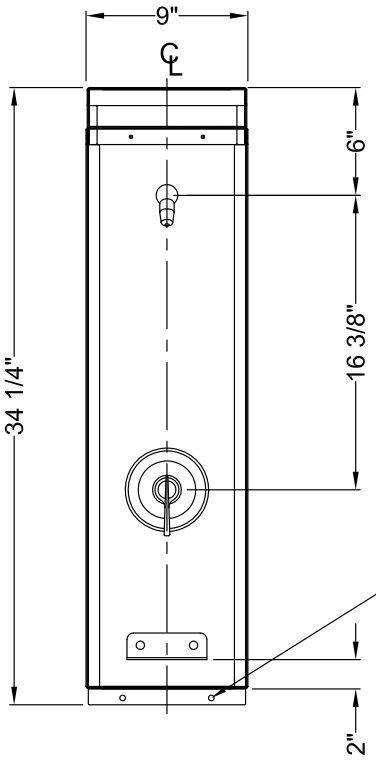
6.) Shower Head Selection:
- ❑ APS — Adjustable Vandal-resistant Shower Head
- ❑ NPS — Non-Adjustable Vandal-resistant Shower Head
- ❑ UBJ — Universal Ball Joint Shower Head
- ❑ LBJ — Lockable Ball Joint Shower Head
- ❑ CSH — Ligature-resistant Shower Head
- ❑ LRSH — Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate

7.) Other Options:
- ❑ TF24H — Hard-wired Transformer, 110VAC to 24VAC* (Standard)
- ❑ TF24P — Plug-in Transformer, 110VAC to 24VAC*
- ❑ TMV — Inline Thermostatic Mixing Valve
- ❑ SD — Surface Mounted Soap Dish
- ❑ RD — Recessed Mounted Soap Dish
- ❑ PS — Pipe Shroud (Specify Length): _____ (Pipe Shroud option changes Riveted Sloped Top to Flat Top)
- ❑ Other _____
- ❑ Other _____

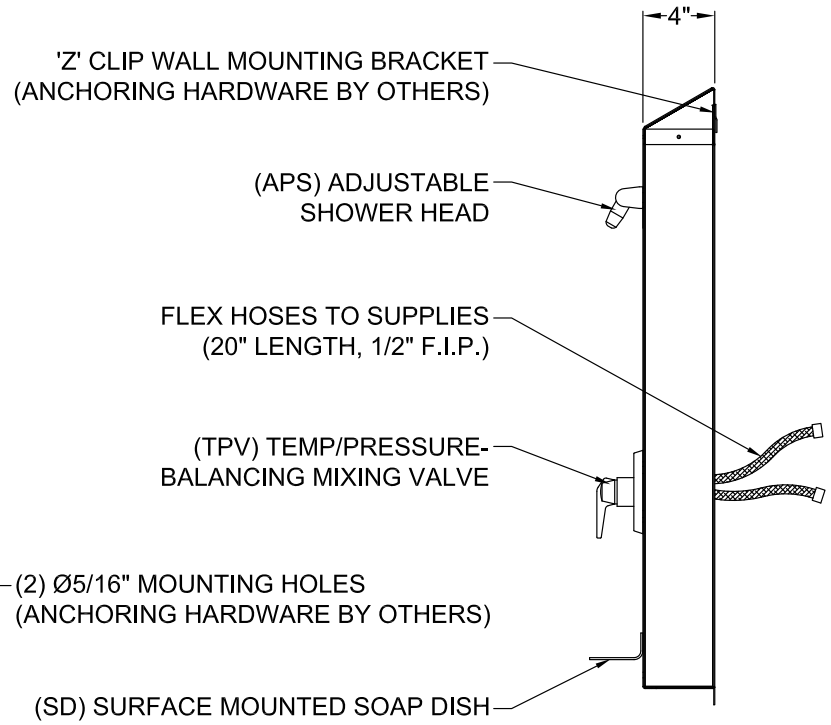
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN
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FRONT VIEW



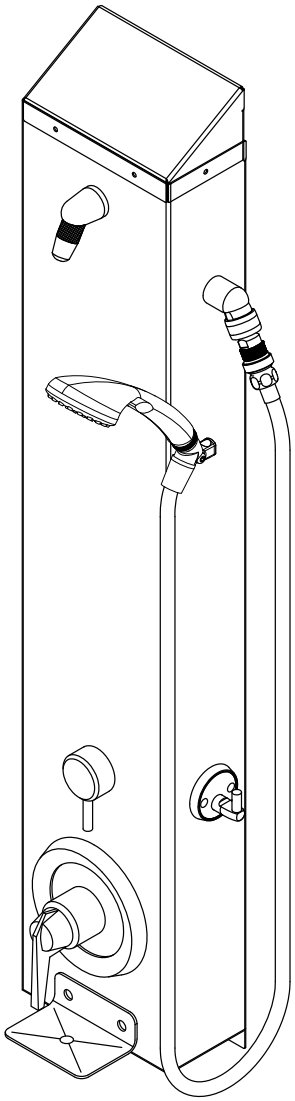
SIDE VIEW

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CWSMS-HCA Series Handicap Accessible Surface Mounted Wall Shower



(HCA) HANDICAP ACCESSIBLE

Recommended Specifications

Handicap Accessible, Surface Mounted Wall Shower shall be: Willoughby Model No. **CWSMS-HCA**
(Select from model number and options list on next page)

Shower panel shall be fabricated from 18 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Sloped top panel and bottom panel are riveted onto the wall shower.

Standard equipment shall include:
- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)
- Z-clip mounting bracket
- (FX) Hand Held Flexshower head

Anchoring shall be by Z-clip and bottom flange with anchoring hardware by others. Shower unit shall be factory assembled, tested for proper operation, and ready for installation by a contractor. Unit requires no chase area for installation and maintenance.

WaterSense Labeled for LRSH shower head.

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Handicap Accessible, Surface Mounted Wall Shower with temp./pressure-balancing mixing valve, diverter valve, standard 2.5 GPM flow rate, APS and FX shower heads, and surface mounted soap dish

Use the following Willoughby Model Number:
CWSMS-HCA-TPV-DV-2.5-APS-FX-SD

Handicap Accessible:
The CWSMS-HCA will conform to most, but not all, ADA requirements; for complete ADA Compliance, see Model No. CWSMS-ADA-WH.
(Compliance shall be subject to the requirements of the local code authority based on installation-specific details and is the responsibility of the installer.)

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
❑ CWSMS-HCA Handicap Accessible, Surface Mounted Wall Shower

2.) Valve Selection:
❑ NV No Valve
❑ PML1 Single Temp. Pneumatic Metering
❑ PML2 Dual Temp. Pneumatic Metering
❑ E1L1 Single Temp. Electronic (Pick Control)*
❑ E1L2 Dual Temp. Electronic (Pick Control)*
❑ PBV Pressure-Balancing Mixing Valve
❑ TPV Temperature Pressure-Balancing Mixing Valve
❑ TPLR Ligature-resistant Temperature/Pressure-Balancing Mixing Valve
❑ SVCL Single Temp. Compression Valve (w/ ADA lever handle)
❑ DVCL Dual Temp. Compression Valves (w/ ADA lever handle)
❑ MA2 ***Valve Manifold Option*** *(Pneumatic or Electronic Valves Only):*
(See the Manifold Option Page at the end of Catalog Section C14 for further information)

3.) Diverter Valve:
❑ DV Diverter Valve
❑ DVLR Ligature-resistant Diverter Valve
❑ PML1-MA2 Two Single Temp. Pneumatic Metering Valves (Used to divert water flow to either upper, lower, or both shower heads; for use with Mixing Valve options above)

4.) Push Button Selection:
Pneumatic or Electronic Valves Only:
❑ PBH Ligature-resistant Pneumatic Push Buttons
❑ PZPB Ligature-resistant Piezo Electronic Push Buttons*

5.) Flow Rates:
❑ 2.5 GPM (Standard) ❑ 2.0 GPM ❑ 1.5 GPM

6.) Electronic Control* (Must Use Electronic Push Button):
❑ WUSC-2200 ❑ WUSC-2400 ❑ Pneutronic

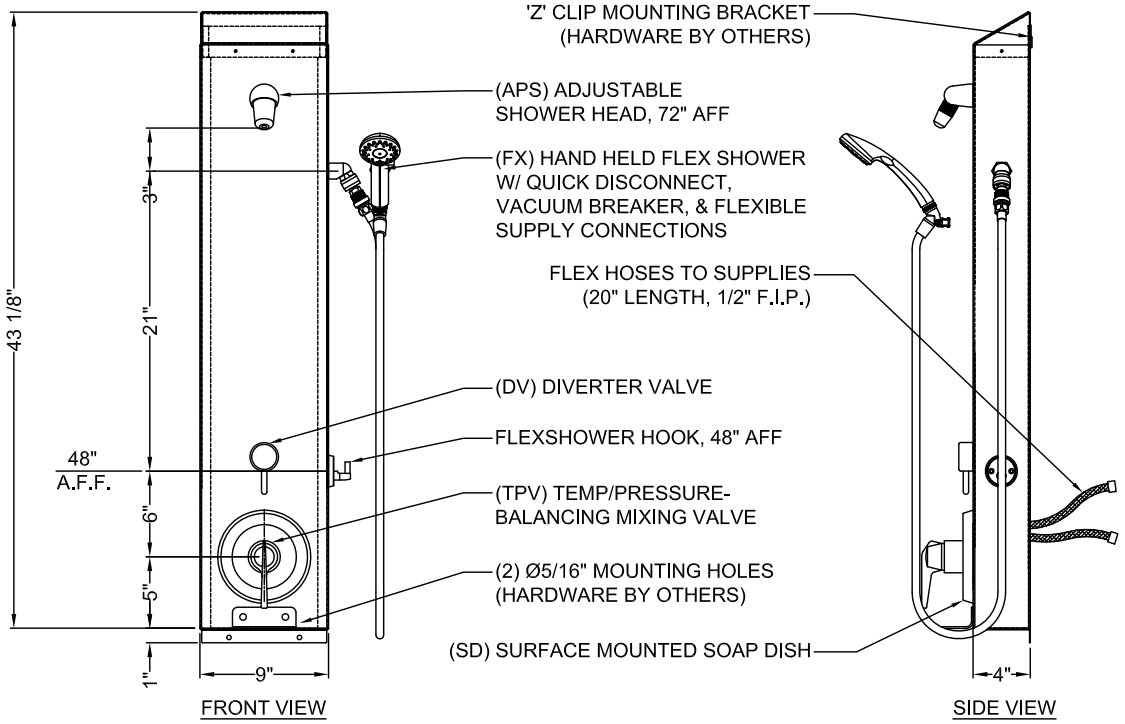
7.) Shower Head Selection:
❑ APS Adjustable Vandal-resistant Shower Head
❑ NPS Non-Adjustable Vandal-resistant Shower Head
❑ UBJ Universal Ball Joint Shower Head
❑ LBJ Lockable Ball Joint Shower Head
❑ CSH Ligature-resistant Shower Head
❑ FX Hand-held Flexshower Head (w/ quick disconnect, vacuum breaker, and (1) hook) (Standard)
❑ LRSH Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate

8.) Other Options:
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ TMV Inline Thermostatic Mixing Valve
❑ HL Hi-Lo (2 Hooks For Flexshower, Wall Mounted)
❑ SLB24 24" Adjustable Slide Bar (for Flexshower, wall mounted)
❑ SD Surface Mounted Soap Dish
❑ RD Recessed Mounted Soap Dish (Extends housing 5" and will interfere with grab bar installation)
❑ PS Pipe Shroud (Specify Length): _____ (Pipe Shroud option changes Riveted Sloped Top to Flat Top)
❑ Other _____
❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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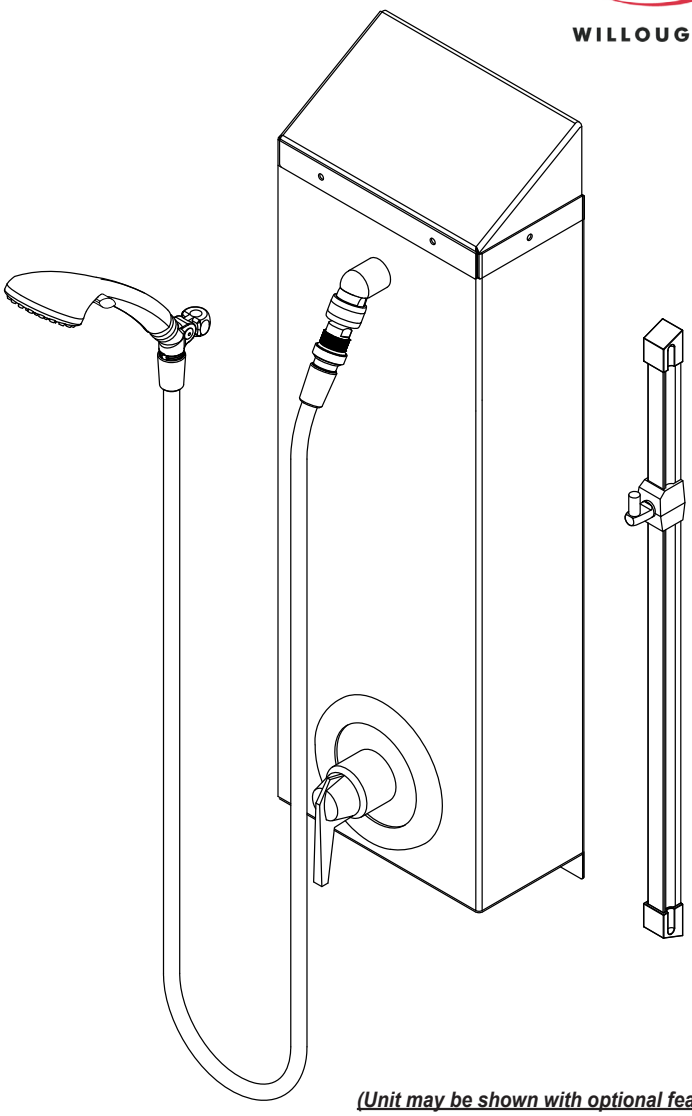
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CWSMS-ADA Series ADA-Compliant Surface Mounted Wall Shower



(Unit may be shown with optional features)

IN COMPLIANCE WITH A.D.A. 2010

Recommended Specifications

ADA-Compliant, Surface Mounted Wall Shower shall be:
Willoughby Model No. **CWSMS-ADA**
(Select from model number and options list on next page)

Shower panel shall be fabricated from 18 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Sloped top panel and bottom panel are riveted onto the wall shower.

Standard equipment shall include:
- Shower valves (from Valve Selection options list)
- (FX) Hand Held Flexshower head
- (SLB24) 24" Adjustable Slide Bar (for Flexshower)
- Z-clip mounting bracket

Anchoring shall be by Z-clip and bottom flange with anchoring hardware by others. Shower unit shall be factory assembled, tested for proper operation, and ready for installation by a contractor. Unit requires no chase area for installation and maintenance.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an ADA-Compliant, Surface Mounted Wall Shower with pressure-balancing valve, 2.5 GPM flow rate, standard FX Flexshower head, and standard 24" Flexshower slide bar

Use the following Willoughby Model Number:
CWSMS-ADA-TPV-2.5-FX-SLB24

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
❑ CWSMS-ADA ADA-Compliant, Surface Mounted Wall Shower

2.) Valve Selection:
❑ NV No Valve
❑ PML1 Single Temp. Pneumatic Metering
❑ PML2 Dual Temp. Pneumatic Metering
❑ E1L1 Single Temp. Electronic (Pick Control)*
❑ E1L2 Dual Temp. Electronic (Pick Control)*
❑ PBV Pressure-Balancing Mixing Valve
❑ TPV Temperature/Pressure-Balancing Mixing Valve
❑ TPLR Ligature-resistant Temperature/Pressure-Balancing Mixing Valve

3.) Push Button Selection:
Pneumatic or Electronic Valves Only:
❑ PBH Ligature-resistant Pneumatic Push Buttons
❑ PZPB Ligature-resistant Piezo Electronic Push Buttons*

4.) Flow Rates:
❑ 2.5 GPM (Standard) ❑ 2.0 GPM ❑ 1.5 GPM

5.) Electronic Control* (Must Use Electronic Push Button):
❑ WUSC-2200 ❑ WUSC-2400 ❑ Pneutronic

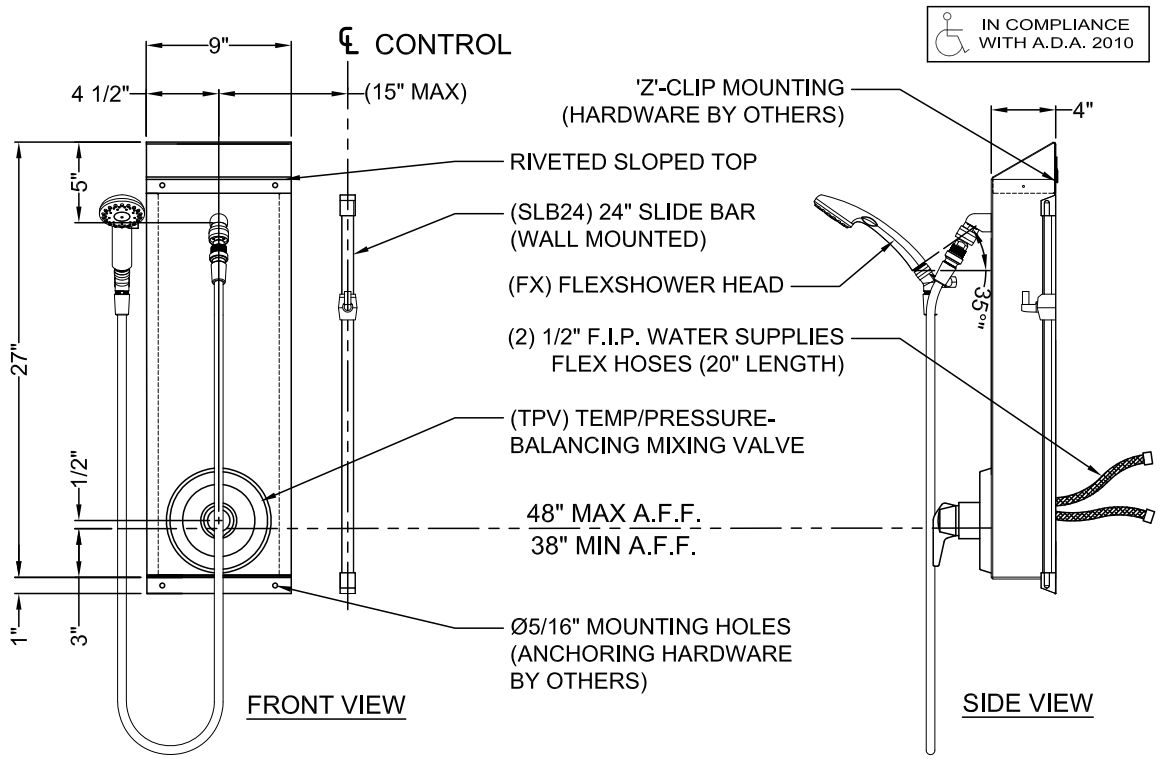
6.) Shower Head Selection:
❑ FX Hand-held Flexshower Head (w/ quick disconnect and vacuum breaker)

7.) Other Options:
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ TMV Inline Thermostatic Mixing Valve
❑ HL Hi-Lo (2 Hooks For Flexshower, Wall Mounted)
❑ SLB24 24" Adjustable Slide Bar (for Flexshower, Standard)
❑ PS Pipe Shroud (Specify Length): _____
(Pipe Shroud option changes Riveted Sloped Top to Flat Top)
❑ Other _____
❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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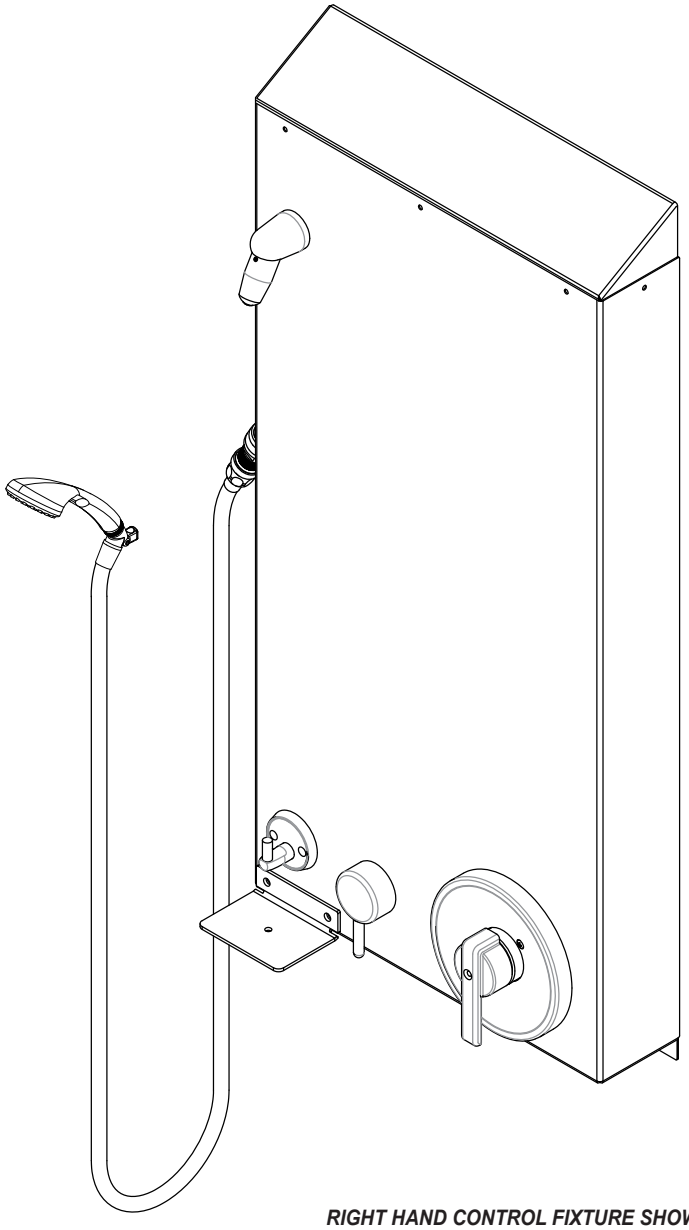
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Willoughby Industries - *Commercial Products*

CWSMS-ADA-WH Series
Wide Housing
ADA-Compliant
Surface Mounted
Wall Shower



RIGHT HAND CONTROL FIXTURE SHOWN
(Unit may be shown with optional features)

IN COMPLIANCE
WITH A.D.A. 2010

Recommended Specifications

Wide Housing, ADA-Compliant, Surface Mounted Wall Shower shall be:
Willoughby Model No. **CWSMS-ADA-WH**
(Select from model number and options list on next page)

Shower panel shall be fabricated from 18 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Sloped top panel and bottom panel are riveted onto the cabinet.

Standard equipment shall include:
- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)
- Z-clip mounting bracket

Anchoring shall be by Z-clip and bottom flange with anchoring hardware by others. Shower unit shall be factory assembled, tested for proper operation, and ready for installation by a contractor. Unit requires no chase area for installation and maintenance.

WaterSense Labeled for LRSH shower head.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Wide Housing, ADA-Compliant, Surface Mounted Wall Shower with Right Hand controls, pressure-balancing valve, diverter valve, 1.5 GPM flow rate, APS and FX shower heads, and surface mounted soap dish

Use the following Willoughby Model Number:
CWSMS-ADA-WH-R-PBV-DV-1.5-APS-FX-SD

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ CWSMS-ADA-WH — Wide Housing, ADA-Compliant, Surface Mounted Wall Shower

2.) Panel Orientation (Must Specify):
- ❑ L — Left Hand Controls
- ❑ R — Right Hand Controls

3.) Valve Selection:
- ❑ NV — No Valve
- ❑ PML1 — Single Temp. Pneumatic Metering
- ❑ PML2 — Dual Temp. Pneumatic Metering
- ❑ E1L1 — Single Temp. Electronic (Pick Control)*
- ❑ E1L2 — Dual Temp. Electronic (Pick Control)*
- ❑ PBV — Pressure-Balancing Mixing Valve
- ❑ TPV — Temp/Pressure-Balancing Mixing Valve
- ❑ TPLR — Ligature-resistant Temperature/Pressure-Balancing Mixing Valve
- ❑ SVCL — Single Temp. Compression Valve (w/ ADA lever handle)
- ❑ DVCL — Dual Temp. Compression Valves (w/ ADA lever handle)
- ❑ MA2 — ***Valve Manifold Option*** *(Pneumatic or Electronic Valves Only):* ***(See the Manifold Option Page at the end of Catalog Section C14 for further information)***

4.) Diverter Valve:
- ❑ DV — Diverter Valve
- ❑ DVLR — Ligature-resistant Diverter Valve
- ❑ PML1-MA2 — Two Single Temp. Pneumatic Metering Valves (Used to divert water flow to either upper, lower, or both shower heads; for use with Mixing Valve options above)

5.) Push Button Selection:
Pneumatic or Electronic Valves Only:
- ❑ PBH — Ligature-resistant Pneumatic Push Buttons
- ❑ PZPB — Ligature-resistant Piezo Electronic Push Buttons*

6.) Flow Rates:
- ❑ 2.5 GPM (Standard)
- ❑ 2.0 GPM
- ❑ 1.5 GPM

7.) Electronic Control* (Must Use Electronic Push Button):
- ❑ WUSC-2200
- ❑ WUSC-2400
- ❑ Pneutronic

8.) Shower Head Selection:
- ❑ APS — Adjustable Vandal-resistant Shower Head
- ❑ NPS — Non-Adjustable Vandal-resistant Shower Head
- ❑ UBJ — Universal Ball Joint Shower Head
- ❑ LBJ — Lockable Ball Joint Shower Head
- ❑ CSH — Ligature-resistant Shower Head
- ❑ FX — Hand-held Flexshower Head (w/ quick disconnect, vacuum breaker, hook)
- ❑ LRSH — Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate
- ❑ 2HD — Dual Fixed Shower Heads (replaces (FX) Flexshower head w/ second of the selected fixed Shower Head)

9.) Optional Shower Seat:
- ❑ FSSL — Left Hand Stainless Steel Folding Shower Seat
- ❑ FSSR — Right Hand Stainless Steel Folding Shower Seat
- ❑ PFSSL — Left Hand Padded Stainless Steel Folding Shower Seat
- ❑ PFSSR — Right Hand Padded Stainless Steel Folding Shower Seat
- ❑ PHSSL — Left Hand Phenolic Folding Shower Seat
- ❑ PHSSR — Right Hand Phenolic Folding Shower Seat

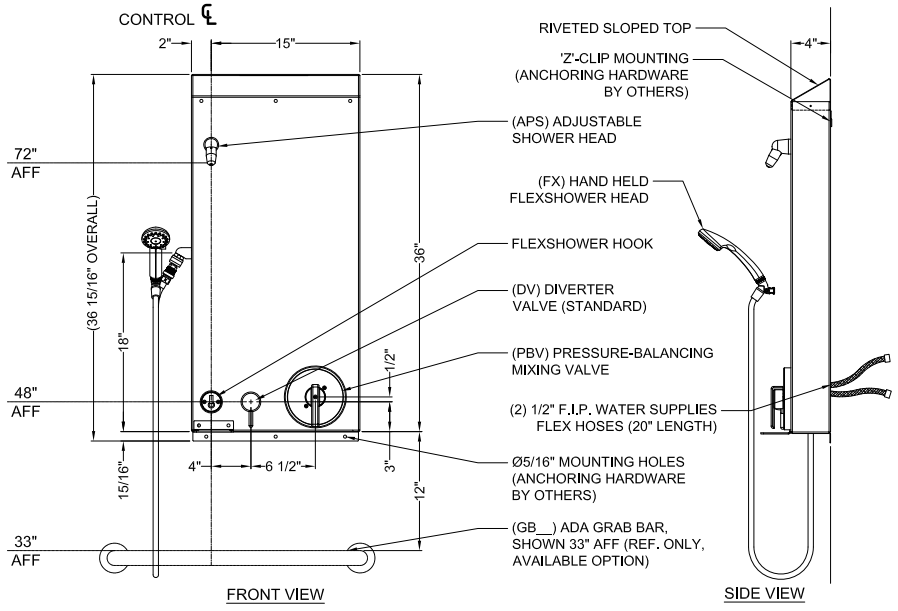
10.) Other Options:
- ❑ TF24H — Hard-wired Transformer, 110VAC to 24VAC* (Standard)
- ❑ TF24P — Plug-in Transformer, 110VAC to 24VAC*
- ❑ TMV — Inline Thermostatic Mixing Valve
- ❑ HL — Hi-Lo (2 Hooks For Flexshower, Wall Mounted)
- ❑ SLB24 — 24" Adjustable Slide Bar (for Flexshower)
- ❑ SD — Surface Mounted Soap Dish
- ❑ RD — Recessed Mounted Soap Dish (Option increases the cabinet width 7" to accommodate the soap dish while maintaining ADA compliance)
- ❑ PS — Pipe Shroud (Specify Length): _____ (Pipe Shroud option changes Riveted Sloped Top to Flat Top)
- ❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
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RIGHT HAND CONTROL FIXTURE SHOWN
(LEFT HAND FIXTURE IS SYMMETRICALLY OPPOSITE)



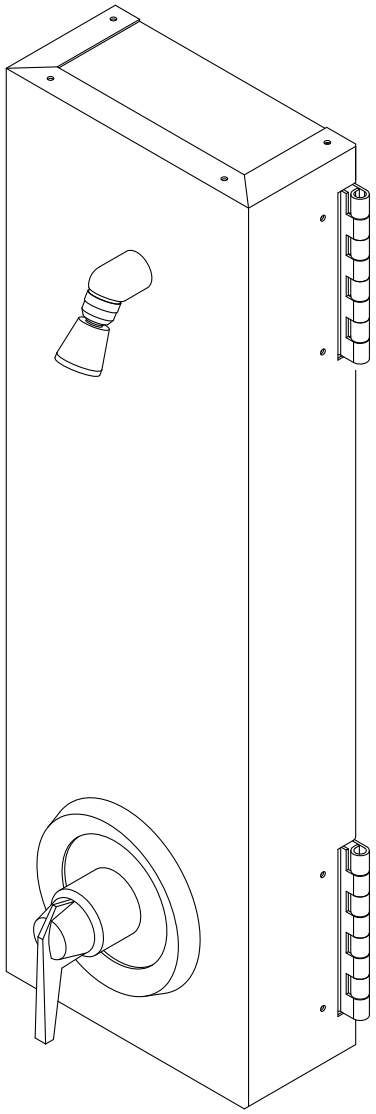
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CWSMSH Series
Hinged Surface Mounted Wall Shower



(Unit may be shown with optional features)

Recommended Specifications

Hinged Surface Mounted Wall Shower shall be:
Willoughby Model No. **CWSMSH**
(Select from model number and options list on next page)

Hinged shower panel shall be fabricated from 18 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Top and bottom panels are riveted on to shower panel.

Standard equipment shall include:
- Shower valves (from Valve Selection options list)
- Shower head (from Shower Head Selection options list)

Anchoring shall be by (2) 1" opening hinges with Ø5/16" mounting holes and (2) Ø5/16" mounting tabs (anchoring hardware by others). Shower unit shall be factory assembled, tested for proper operation, and ready for installation by a contractor. Unit requires no chase area for installation and maintenance.

WaterSense Labeled for LRSH shower head.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Hinged Surface Mounted Wall Shower with temp./pressure-balancing mixing valve, standard 2.5 GPM flow rate, and standard UBJ universal ball joint shower head

Use the following Willoughby Model Number:
CWSMSH-TPV-2.5-UBJ

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ CWSMSH Hinged Surface Mounted Wall Shower

2.) Valve Selection:
- ❑ NV No Valve
- ❑ PML1 Single Temp. Pneumatic Metering
- ❑ PML2 Dual Temp. Pneumatic Metering
- ❑ E1L1 Single Temp. Electronic (Pick Control)*
- ❑ E1L2 Dual Temp. Electronic (Pick Control)*
- ❑ PBV Pressure-Balancing Mixing Valve
- ❑ TPV Temperature/Pressure-Balancing Mixing Valve
- ❑ SVC Single Temp. Compression Valve
- ❑ DVC Dual Temp. Compression Valves

3.) Push Button Selection:
Pneumatic or Electronic Valves Only:
- ❑ PBH Ligature-resistant Pneumatic Push Buttons
- ❑ PZPB Ligature-resistant Piezo Electronic Push Buttons*

4.) Flow Rates:
❑ 2.5 GPM (Standard) ❑ 2.0 GPM ❑ 1.5 GPM

5.) Electronic Control* (Must Use Electronic Push Button):
❑ WUSC-2200 ❑ WUSC-2400 ❑ Pneutronic

6.) Shower Head Selection:
- ❑ APS Adjustable Vandal-resistant Shower Head
- ❑ NPS Non-Adjustable Vandal-resistant Shower Head
- ❑ UBJ Universal Ball Joint Shower Head
- ❑ LBJ Lockable Ball Joint Shower Head
- ❑ CSH Ligature-resistant Shower Head
- ❑ LRSH Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate

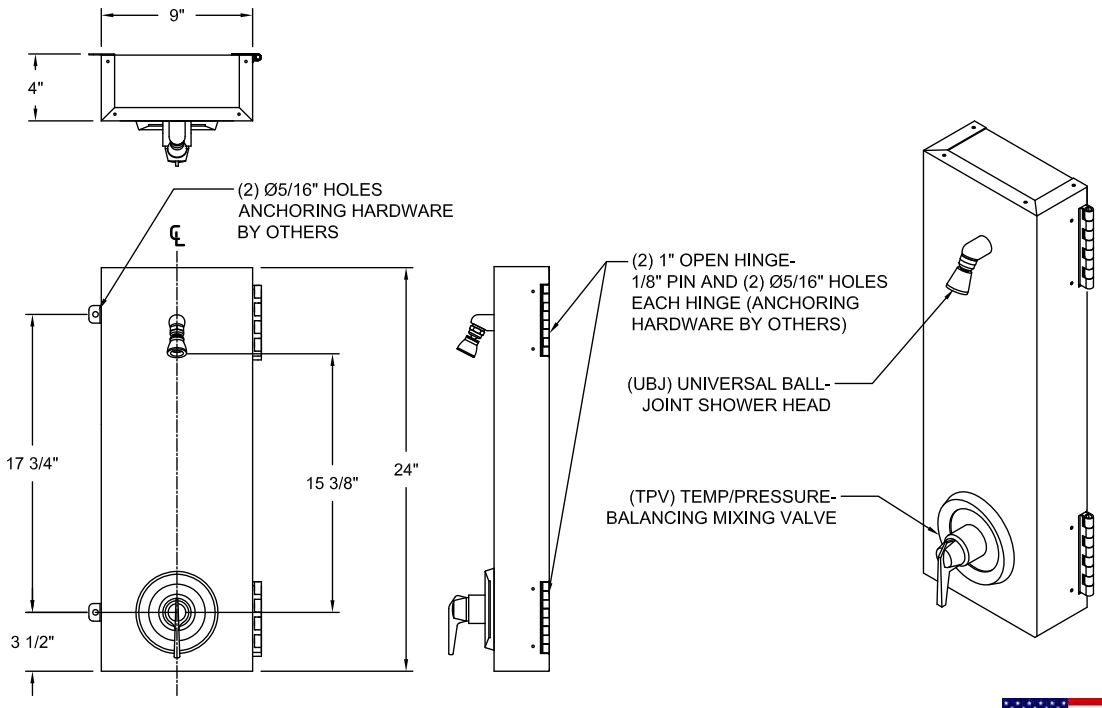
7.) Other Options:
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ TMV Inline Thermostatic Mixing Valve
- ❑ SD Surface Mounted Soap Dish (Wall Mounted)
- ❑ RSD2 Recessed Soap Dish (In-Wall Mounted)
- ❑ PS Pipe Shroud (Specify Length): _____
- ❑ Other _____
- ❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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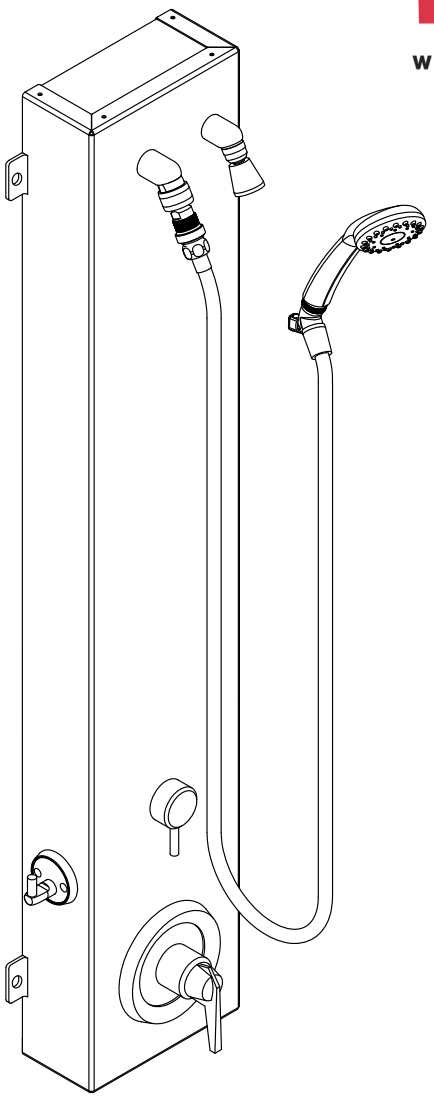
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CWSMSH-HCA Series Handicap Accessible Hinged Surface Mounted Wall Shower



(Unit may be shown with optional features)

(HCA) HANDICAP ACCESSIBLE

Recommended Specifications

Handicap Accessible, Hinged Surface Mounted Wall Shower shall be: Willoughby Model No. **CWSMSH-HCA** (Select from model number and options list on next page)

Hinged shower panel shall be fabricated from 18 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Top and bottom panels are riveted on to shower panel.

Standard equipment shall include:
- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)

Anchoring shall be by (3) 1" opening hinges with Ø5/16" mounting holes and (2) Ø5/16" mounting tabs (anchoring hardware by others). Shower unit shall be factory assembled, tested for proper operation, and ready for installation by a contractor. Unit requires no chase area for installation and maintenance.

WaterSense Labeled for LRSH shower head.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Handicap Accessible, Hinged Surface Mounted Wall Shower with temp./ pressure-balancing mixing valve, diverter valve, standard 2.5 GPM flow rate, and UBJ universal ball joint and FX Flexshower shower heads

Use the following Willoughby Model Number:
CWSMSH-HCA-TPV-DV-2.5-UBJ-FX

Handicap Accessible:
The CWSMSH-HCA will conform to most, but not all, ADA requirements; for complete ADA Compliance, see Model No. CWSMS-ADA-WH (non-hinged). (Compliance shall be subject to the requirements of the local code authority based on installation-specific details and is the responsibility of the installer.)

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ CWSMSH-HCA — Handicap Accessible, Hinged Surface Mounted Wall Shower

2.) Valve Selection:

❑ NV — No Valve
❑ PML1 — Single Temp. Pneumatic Metering
❑ PML2 — Dual Temp. Pneumatic Metering
❑ E1L1 — Single Temp. Electronic (Pick Control)*
❑ E1L2 — Dual Temp. Electronic (Pick Control)*
❑ PBV — Pressure-Balancing Mixing Valve
❑ TPV — Temperature/Pressure-Balancing Mixing Valve
❑ SVCL — Single Temp. Compression Valve (w/ ADA lever handle)
❑ DVCL — Dual Temp. Compression Valves (w/ ADA lever handle)
❑ MA2 — ***Valve Manifold Option*** *(Pneumatic or Electronic Valves Only):* ***(See the Manifold Option Page at the end of Catalog Section C14 for further information)***

3.) Diverter Valve:

❑ DV — Diverter Valve
❑ DVLR — Ligature-resistant Diverter Valve
❑ PML1-MA2 — Two Single Temp. Pneumatic Metering Valves (Used to divert water flow to either upper, lower, or both shower heads; for use with Mixing Valve options above)

4.) Push Button Selection:

Pneumatic or Electronic Valves Only:

❑ PBH — Ligature-resistant Pneumatic Push Buttons
❑ PZPB — Ligature-resistant Piezo Electronic Push Buttons*

5.) Flow Rates:

❑ 2.5 GPM (Standard) ❑ 2.0 GPM ❑ 1.5 GPM

6.) Electronic Control* (Must Use Electronic Push Button):

❑ WUSC-2200 ❑ WUSC-2400 ❑ Pneutronic

7.) Shower Head Selection:

❑ APS — Adjustable Vandal-resistant Shower Head
❑ NPS — Non-Adjustable Vandal-resistant Shower Head
❑ UBJ — Universal Ball Joint Shower Head
❑ LBJ — Lockable Ball Joint Shower Head
❑ CSH — Ligature-resistant Shower Head
❑ FX — Hand-held Flexshower Head (w/ quick disconnect, vacuum breaker, and (1) hook)
❑ LRSH — Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate
❑ 2HD — Dual Fixed Shower Heads (replaces (FX) Flexshower head w/ second of the selected fixed Shower Head)

8.) Other Options:

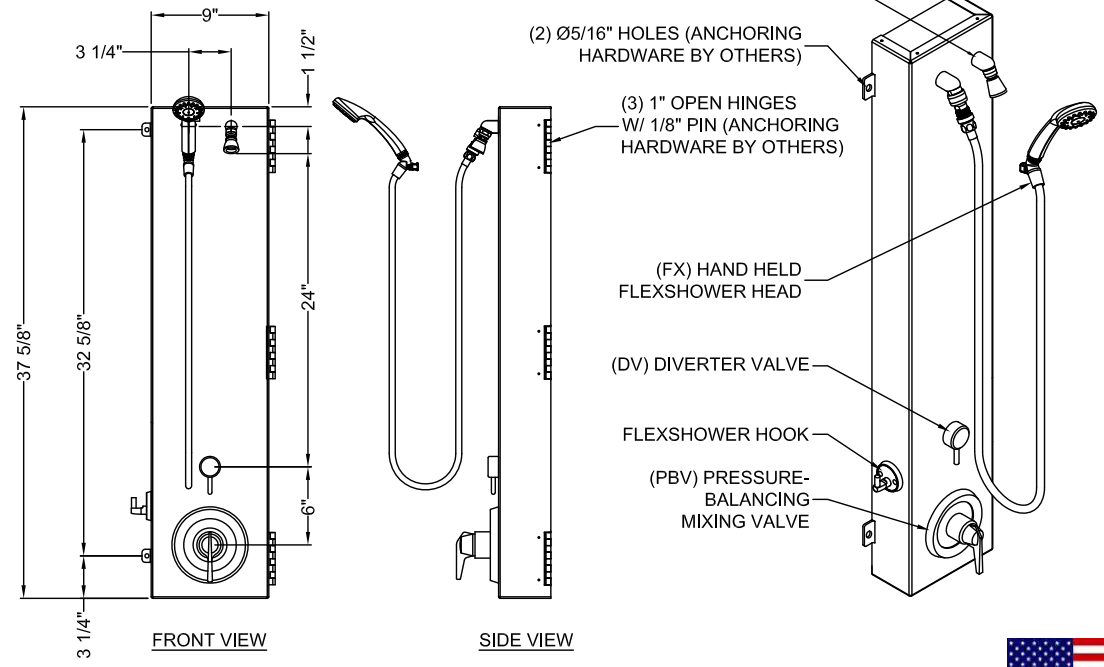
❑ TF24H — Hard-wired Transformer, 110VAC to 24VAC* (Standard)
❑ TF24P — Plug-in Transformer, 110VAC to 24VAC*
❑ TMV — Inline Thermostatic Mixing Valve
❑ HL — Hi-Lo (2 Hooks For Flexshower, Wall Mounted)
❑ SLB24 — 24" Adjustable Slide Bar (for Flexshower)
❑ SD — Surface Mounted Soap Dish (Wall Mounted)
❑ RSD2 — Recessed Soap Dish (In-Wall Mounted)
❑ PS — Pipe Shroud (Specify Length): _____
❑ Other _____
❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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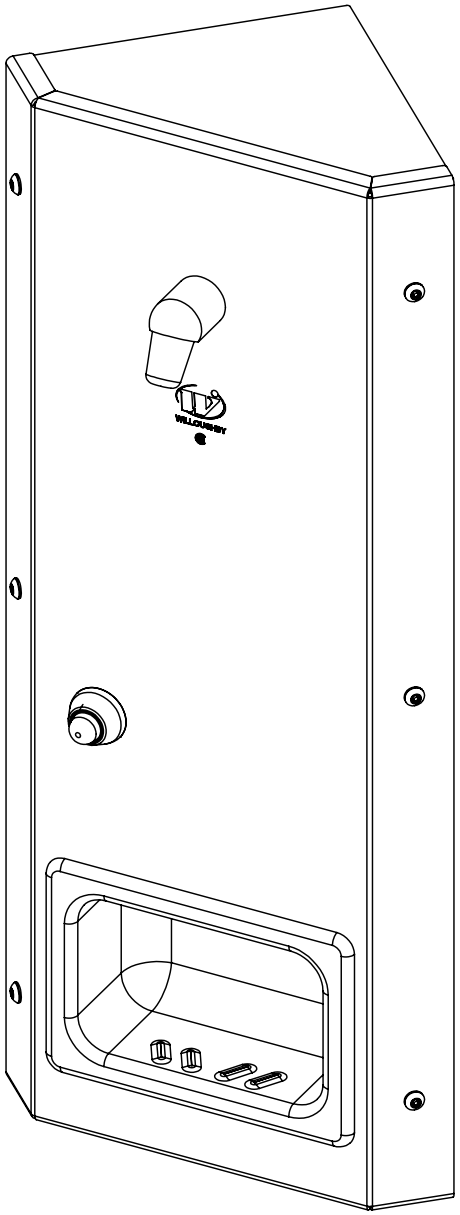
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CWKS Series
Surface Mounted
Corner Wall Shower



(Unit may be shown with optional features)

Recommended Specifications

Surface Mounted Corner Wall Shower shall be:
Willoughby Model No. **CWKS**
(Select from model number and options list on next page)

Shower cabinet shall be fabricated from 16 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Wall bracket shall be fabricated from 16 gauge, Type 304 stainless steel.

Standard equipment shall include:
- Shower valves (from Valve Selection options list)
- Shower head (from Shower Head Selection options list)
- Mounting bracket

Shower face plate shall attach to mounting bracket with vandal resistant stainless steel security screws. Mounting bracket anchoring hardware by others. Unit requires no chase area for installation and maintenance.

WaterSense Labeled for LRSH shower head.

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify a Surface Mounted Corner Wall Shower with single-temp pneumatic valving, standard ligature-resistant pnuematic push button, standard 2.5 GPM flow rate, NPS non-adjustable vandal-resistant shower head, and recessed soap dish

Use the following Willoughby Model Number:
CWKS-PML1-PBH-2.5-NPS-RD

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ CWKS — Surface Mounted Corner Wall Shower

2.) Valve Selection:
- ❑ NV — No Valve
- ❑ PML1 — Single Temp. Pneumatic Metering
- ❑ PML2 — Dual Temp. Pneumatic Metering
- ❑ E1L1 — Single Temp. Electronic (Pick Control)*
- ❑ E1L2 — Dual Temp. Electronic (Pick Control)*
- ❑ PBV — Pressure-Balancing Mixing Valve
- ❑ TPV — Temperature/Pressure-Balancing Mixing Valve
- ❑ TPLR — Ligature-resistant Temp/Pressure-balancing Mixing Valve
- ❑ SVC — Single Temp. Compression Valve
- ❑ DVC — Dual Temp. Compression Valves

3.) Push Button Selection:
Pneumatic or Electronic Valves Only:
- ❑ PBH — Ligature-resistant Pneumatic Push Buttons
- ❑ PZPB — Ligature-resistant Piezo Electronic Push Buttons*

4.) Flow Rates:
❑ 2.5 GPM (Standard) ❑ 2.0 GPM ❑ 1.5 GPM

5.) Electronic Control* (Must Use Electronic Push Button):
❑ WUSC-2200 ❑ WUSC-2400 ❑ Pneutronic

6.) Shower Head Selection:
- ❑ APS — Adjustable Vandal-resistant Shower Head
- ❑ NPS — Non-Adjustable Vandal-resistant Shower Head
- ❑ UBJ — Universal Ball Joint Shower Head
- ❑ LBJ — Lockable Ball Joint Shower Head
- ❑ CSH — Ligature-resistant Shower Head
- ❑ LRSH — Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate

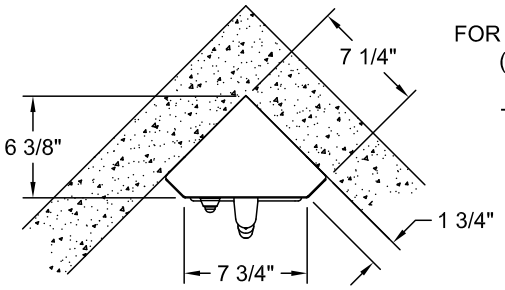
7.) Other Options:
- ❑ TF24H — Hard-wired Transformer, 110VAC to 24VAC* (Standard)
- ❑ TF24P — Plug-in Transformer, 110VAC to 24VAC*
- ❑ TMV — Inline Thermostatic Mixing Valve
- ❑ SD — Surface Mounted Soap Dish
- ❑ RD — Recessed Mounted Soap Dish
- ❑ PS — Pipe Shroud (Specify Length): _____
- ❑ Other _____
- ❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

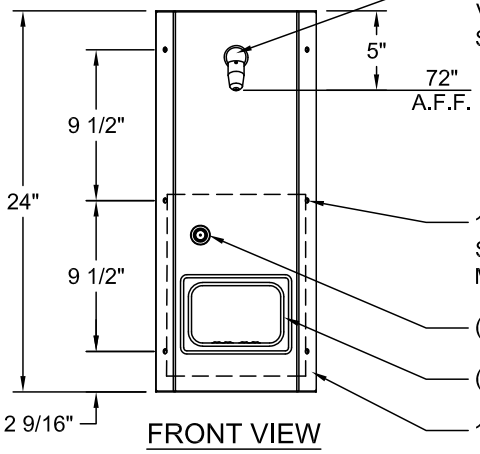
Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

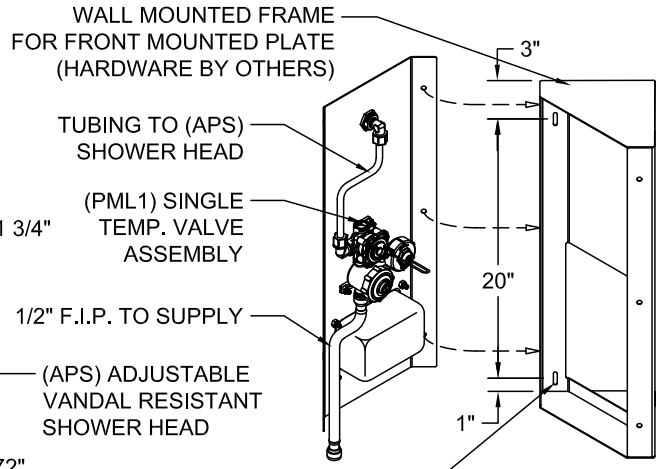
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PLAN VIEW



FRONT VIEW



EXPLODED SIDE VIEW

1/4"-20 x 3/4" S/S SECURITY SCREWS W/ S/S NUTS MOUNTED IN FRAME

(PBH) LIGATURE-RESISTANT PUSH BUTTON

(RD) RECESSED SOAP DISH

16 GA STAINLESS STEEL PANEL

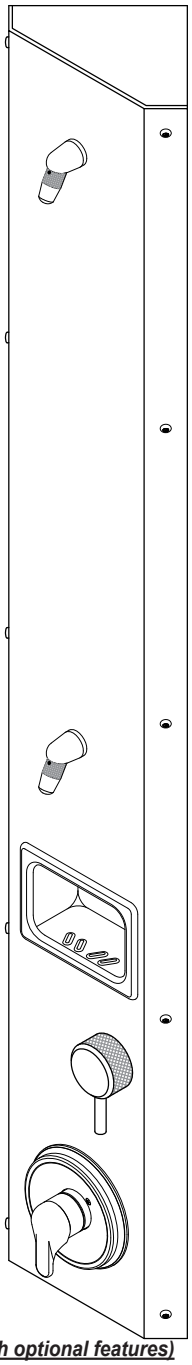
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CWKS-HCA Series Handicap Accessible Surface Mounted Corner Wall Shower



(Unit may be shown with optional features)

(HCA) HANDICAP ACCESSIBLE

Recommended Specifications

Handicap Accessible, Surface Mounted Corner Wall Shower shall be: Willoughby Model No. **CWKS-HCA** (Select from model number and options list on next page)

Shower cabinet shall be fabricated from 16 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Wall bracket shall be fabricated from 16 gauge, Type 304 stainless steel.

Standard equipment shall include:
- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)
- Mounting bracket

Shower face plate shall attach to mounting bracket with vandal resistant stainless steel security screws. Mounting bracket anchoring hardware by others. Unit requires no chase area for installation and maintenance.

Handicap Accessible:
The CWKS-HCA corner shower will conform to most, but not all, ADA requirements.
(Compliance shall be subject to the requirements of the local code authority based on installation-specific details and is the responsibility of the installer.)

WaterSense Labeled for LRSH shower head.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Handicap Accessible, Surface Mounted Corner Wall Shower with temp./pressure-balancing mixing valve, diverter valve, standard 2.5 GPM flow rate, (2) APS adjustable vandal-resistant shower heads, and recessed soap dish

Use the following Willoughby Model Number:
CWKS-HCA-TPV-DV-2.5-APS-2HD-RD

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ CWKS-HCA Handicap Accessible, Surface Mounted Corner Wall Shower

2.) Valve Selection:

❑ NV No Valve
❑ PML1 Single Temp. Pneumatic Metering
❑ PML2 Dual Temp. Pneumatic Metering
❑ E1L1 Single Temp. Electronic (Pick Control)*
❑ E1L2 Dual Temp. Electronic (Pick Control)*
❑ PBV Pressure-Balancing Mixing Valve
❑ TPV Temperature/Pressure-Balancing Mixing Valve
❑ TPLR Ligature-resistant Temp/Pressure-balancing Mixing Valve
❑ SVCL Single Temp. Compression Valve (w/ ADA lever handle)
❑ DVCL Dual Temp. Compression Valves (w/ ADA lever handle)
❑ MA2 ***Valve Manifold Option*** *(Pneumatic or Electronic Valves Only):* ***(See the Manifold Option Page at the end of Catalog Section C14 for further information)***

3.) Diverter Valve:

❑ DV Diverter Valve
❑ DVLR Ligature-resistant Diverter Valve
❑ PML1-MA2 Two Single Temp. Pneumatic Metering Valves (Used to divert water flow to either upper, lower, or both shower heads; for use with Mixing Valve options above)

4.) Push Button Selection:

Pneumatic or Electronic Valves Only:

❑ PBH Ligature-resistant Pneumatic Push Buttons
❑ PZPB Ligature-resistant Piezo Electronic Push Buttons*

5.) Flow Rates:

❑ 2.5 GPM (Standard) ❑ 2.0 GPM ❑ 1.5 GPM

6.) Electronic Control* (Must Use Electronic Push Button):

❑ WUSC-2200 ❑ WUSC-2400 ❑ Pneutronic

7.) Shower Head Selection:

❑ APS Adjustable Vandal-resistant Shower Head
❑ NPS Non-Adjustable Vandal-resistant Shower Head
❑ UBJ Universal Ball Joint Shower Head
❑ LBJ Lockable Ball Joint Shower Head
❑ CSH Ligature-resistant Shower Head
❑ FX Hand-held Flexshower Head (w/ quick disconnect, vacuum breaker, and (1) hook)
❑ LRSH Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate
❑ 2HD Dual Fixed Shower Heads (replaces (FX) Flexshower head w/ second of the selected fixed Shower Head)

8.) Other Options:

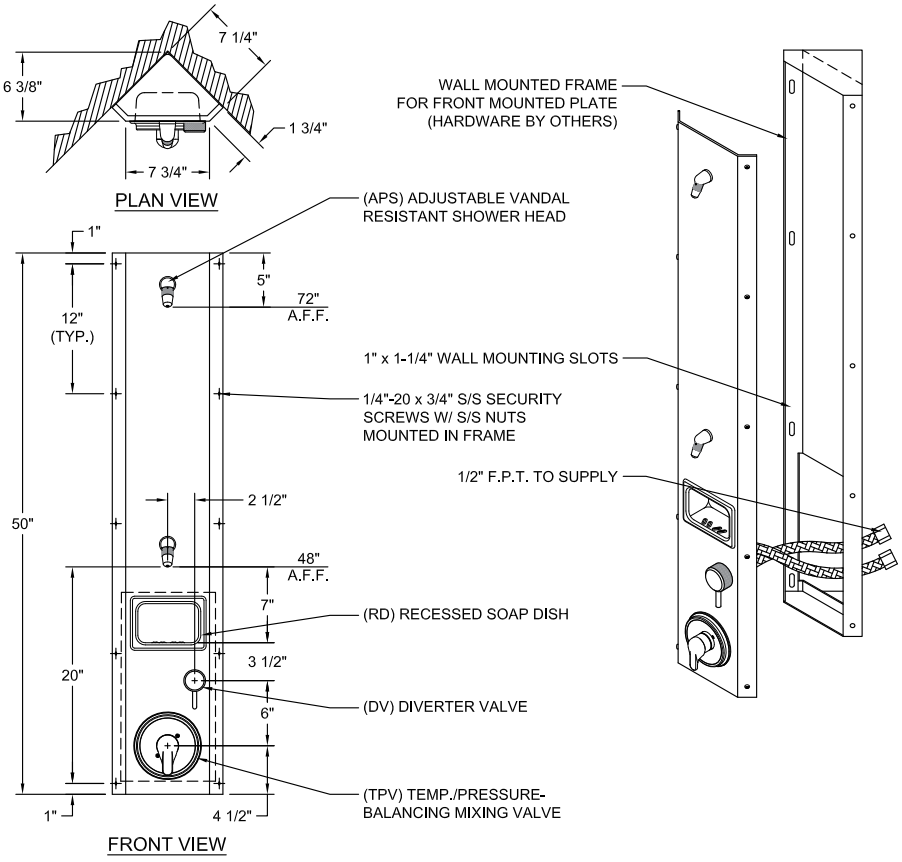
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ TMV Inline Thermostatic Mixing Valve
❑ HL Hi-Lo (2 Hooks For Flexshower, Wall Mounted)
❑ SLB24 24" Adjustable Slide Bar (for Flexshower, Wall Mounted)
❑ SD Surface Mounted Soap Dish
❑ RD Recessed Mounted Soap Dish
❑ PS Pipe Shroud (Specify Length): _____
❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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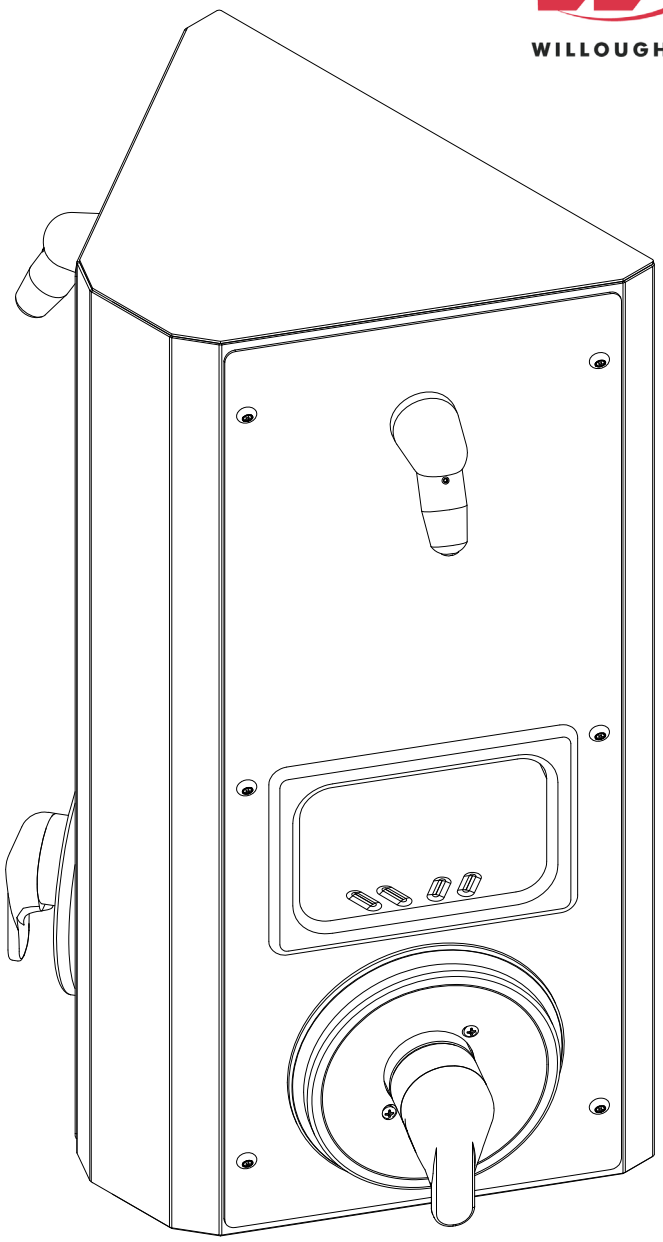
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Willoughby Industries - *Commercial Products*

WILLOUGHBY

CWDS Series
Two Station
Surface Mounted
Wall Shower



(Unit may be shown with optional features)

Recommended Specifications

Two Station, Surface Mounted Wall Shower shall be:
Willoughby Model No. **CWDS**
(Select from model number and options list on next page)

Shower face plates shall be fabricated from 16 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Wall bracket shall be fabricated from 16 gauge, Type 304 stainless steel.

Standard equipment shall include:
- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)
- Mounting bracket

Shower face plate shall attach to mounting bracket with vandal resistant stainless steel security screws. Mounting bracket anchoring hardware by others. Unit requires no chase area for installation and maintenance.

WaterSense Labeled for LRSH shower head.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Two Station, Surface Mounted Wall Shower with temp./pressure-balancing mixing valves, standard 2.5 GPM flow rate, APS adjustable vandal-resistant shower heads, and recessed soap dishes

Use the following Willoughby Model Number:
CWDS-TPV-2.5-APS-RD

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ CWDS — Two Station, Surface Mounted Wall Shower

2.) Valve Selection:
- ❑ NV — No Valve
- ❑ PML1 — Single Temp. Pneumatic Metering
- ❑ PML2 — Dual Temp. Pneumatic Metering
- ❑ E1L1 — Single Temp. Electronic (Pick Control)*
- ❑ E1L2 — Dual Temp. Electronic (Pick Control)*
- ❑ PBV — Pressure-Balancing Mixing Valve
- ❑ TPV — Temperature/Pressure-Balancing Mixing Valve
- ❑ TPLR — Ligature-resistant Temp/Pressure-balancing Mixing Valve
- ❑ SVC — Single Temp. Compression Valve
- ❑ DVC — Dual Temp. Compression Valves

3.) Push Button Selection:
Pneumatic or Electronic Valves Only:
- ❑ PBH — Ligature-resistant Pneumatic Push Buttons
- ❑ PZPB — Ligature-resistant Piezo Electronic Push Buttons*

4.) Flow Rates:
❑ 2.5 GPM (Standard) ❑ 2.0 GPM ❑ 1.5 GPM

5.) Electronic Control* (Must Use Electronic Push Button):
❑ WUSC-2200 ❑ WUSC-2400 ❑ Pneutronic

6.) Shower Head Selection:
- ❑ APS — Adjustable Vandal-resistant Shower Head
- ❑ NPS — Non-Adjustable Vandal-resistant Shower Head
- ❑ UBJ — Universal Ball Joint Shower Head
- ❑ LBJ — Lockable Ball Joint Shower Head
- ❑ CSH — Ligature-resistant Shower Head
- ❑ LRSH — Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate

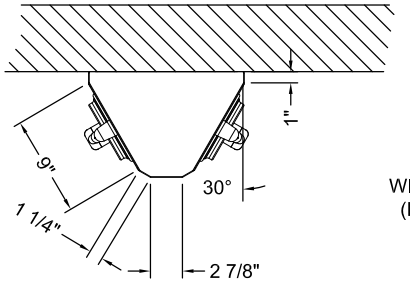
7.) Other Options:
- ❑ TF24H — Hard-wired Transformer, 110VAC to 24VAC* (Standard)
- ❑ TF24P — Plug-in Transformer, 110VAC to 24VAC*
- ❑ TMV — Inline Thermostatic Mixing Valve
- ❑ SLB24 — 24" Adjustable Slide Bar (for Flexshower, Wall Mounted)
- ❑ SD — Surface Mounted Soap Dish
- ❑ RD — Recessed Mounted Soap Dish
- ❑ PS — Pipe Shroud (Specify Length): _____
- ❑ Other _____
- ❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

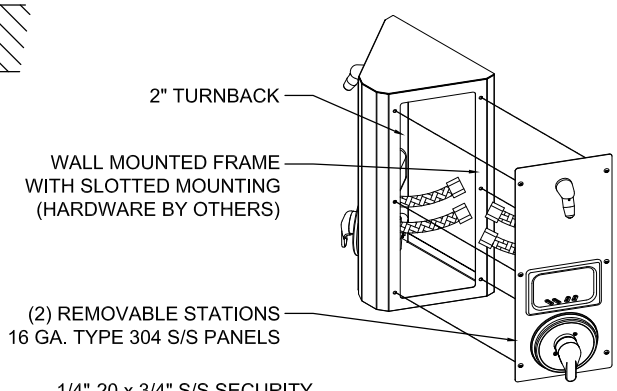
Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

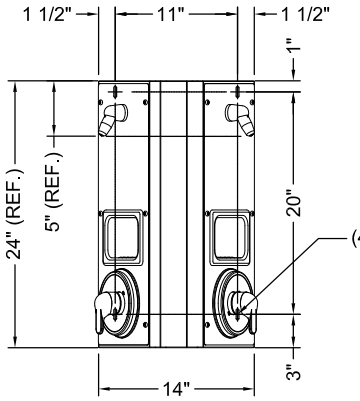
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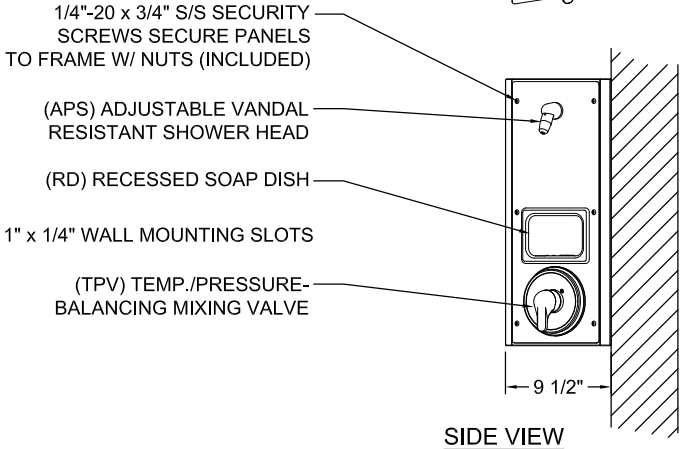


PLAN VIEW





FRONT VIEW



SIDE VIEW

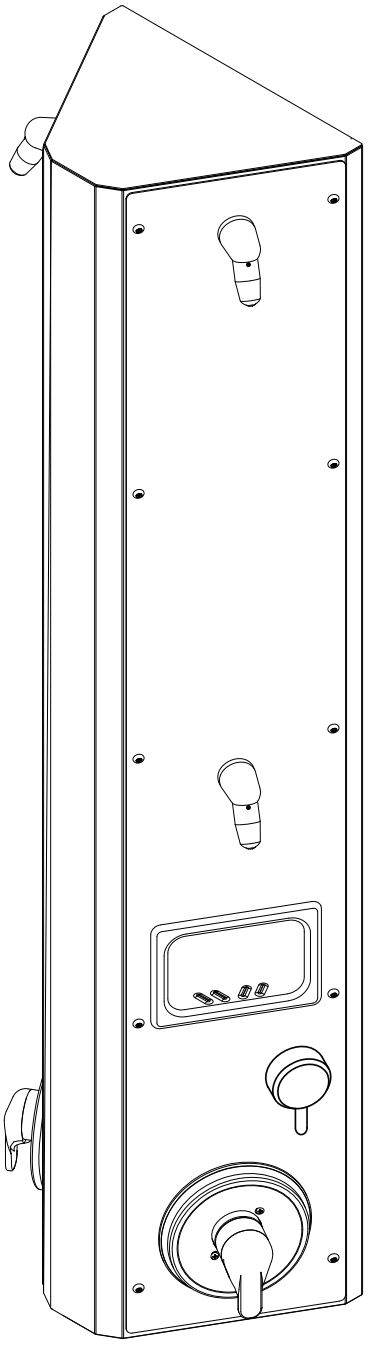
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Willoughby Industries - *Commercial Products*

CWDS-HCA Series
Handicap Accessible
Two Station
Surface Mounted
Wall Shower



(HCA) HANDICAP ACCESSIBLE

Recommended Specifications

Handicap Accessible, Two Station, Surface Mounted Wall Shower shall be: Willoughby Model No. **CWDS-HCA**
(Select from model number and options list on next page)

Shower cabinet shall be fabricated from 16 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Wall bracket shall be fabricated from 16 gauge, Type 304 stainless steel.

Standard equipment shall include:
- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)
- Mounting bracket

Shower face plate shall attach to mounting bracket with vandal resistant stainless steel security screws. Mounting bracket anchoring hardware by others. Unit requires no chase area for installation and maintenance.

Handicap Accessible:
The CWDS-HCA surface mounted shower will conform to most, but not all, ADA requirements.
(Compliance shall be subject to the requirements of the local code authority based on installation-specific details and is the responsibility of the installer.)

WaterSense Labeled for LRSH shower head.

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify a Handicap Accessible, Two Station, Surface Mounted Wall Shower with temp./pressure-balancing mixing valve, diverter valve, standard 2.5 GPM flow rate, (2) APS adjustable vandal-resistant shower heads, and recessed soap dish

Use the following Willoughby Model Number:
CWKS-HCA-TPV-DV-2.5-APS-2HD-RD

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ CWDS-HCA — Handicap Accessible, Two Station, Surface Mounted Wall Shower

2.) Shower Orientation (Must Specify):
- ❑ L — Left Side ADA
- ❑ R — Right Side ADA

3.) Valve Selection:
- ❑ NV — No Valve
- ❑ PML1 — Single Temp. Pneumatic Metering
- ❑ PML2 — Dual Temp. Pneumatic Metering
- ❑ E1L1 — Single Temp. Electronic (Pick Control)*
- ❑ E1L2 — Dual Temp. Electronic (Pick Control)*
- ❑ PBV — Pressure-Balancing Mixing Valve
- ❑ TPV — Temperature/Pressure-Balancing Mixing Valve
- ❑ TPLR — Ligature-resistant Temp/Pressure-balancing Mixing Valve
- ❑ SVCL — Single Temp. Compression Valve (w/ ADA lever handle)
- ❑ DVCL — Dual Temp. Compression Valves (w/ ADA lever handle)

4.) Diverter Valve:
- ❑ DV — Diverter Valve
- ❑ DVLR — Ligature-resistant Diverter Valve
- ❑ PML1-MA2 — Two Single Temp. Pneumatic Metering Valves (Used to divert water flow to either upper, lower, or both shower heads; for use with Mixing Valve options above)

5.) Push Button Selection:
Pneumatic or Electronic Valves Only:
- ❑ PBH — Ligature-resistant Pneumatic Push Buttons
- ❑ PZPB — Ligature-resistant Piezo Electronic Push Buttons*

6.) Flow Rates:
- ❑ 2.5 GPM (Standard) ❑ 2.0 GPM ❑ 1.5 GPM

7.) Electronic Control* (Must Use Electronic Push Button):
- ❑ WUSC-2200 ❑ WUSC-2400 ❑ Pneutronic

8.) Shower Head Selection:
- ❑ APS — Adjustable Vandal-resistant Shower Head
- ❑ NPS — Non-Adjustable Vandal-resistant Shower Head
- ❑ UBJ — Universal Ball Joint Shower Head
- ❑ LBJ — Lockable Ball Joint Shower Head
- ❑ CSH — Ligature-resistant Shower Head
- ❑ FX — Hand-held Flexshower Head (w/ quick disconnect, vacuum breaker, and (1) hook)
- ❑ LRSH — Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate
- ❑ 2HD — Dual Fixed Shower Heads (replaces (FX) Flexshower head w/ second of the selected fixed Shower Head)

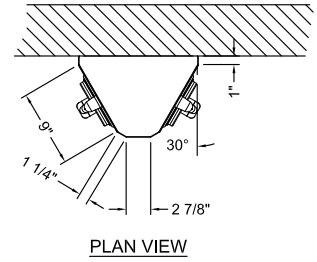
9.) Other Options:
- ❑ TF24H — Hard-wired Transformer, 110VAC to 24VAC* (Standard)
- ❑ TF24P — Plug-in Transformer, 110VAC to 24VAC*
- ❑ TMV — Inline Thermostatic Mixing Valve
- ❑ HL — Hi-Lo (2 Hooks For Flexshower, Wall Mounted)
- ❑ SLB24 — 24" Adjustable Slide Bar (for Flexshower, Wall Mounted)
- ❑ SD — Surface Mounted Soap Dish
- ❑ RD — Recessed Mounted Soap Dish
- ❑ PS — Pipe Shroud (Specify Length): _____
- ❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

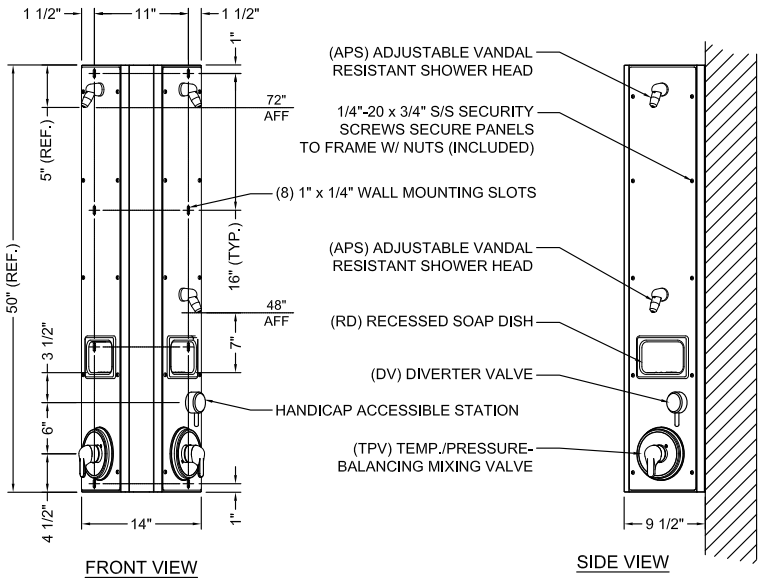
Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

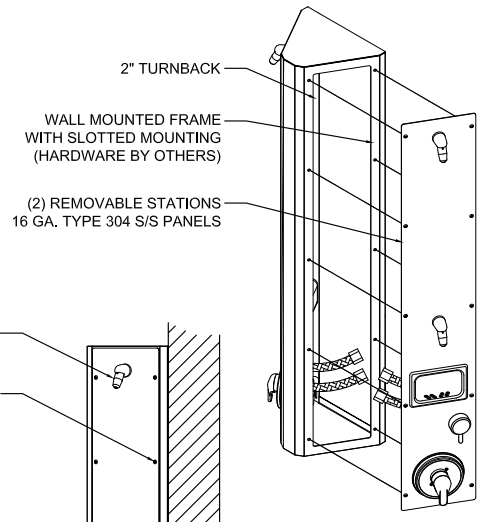
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PLAN VIEW



FRONT VIEW SIDE VIEW



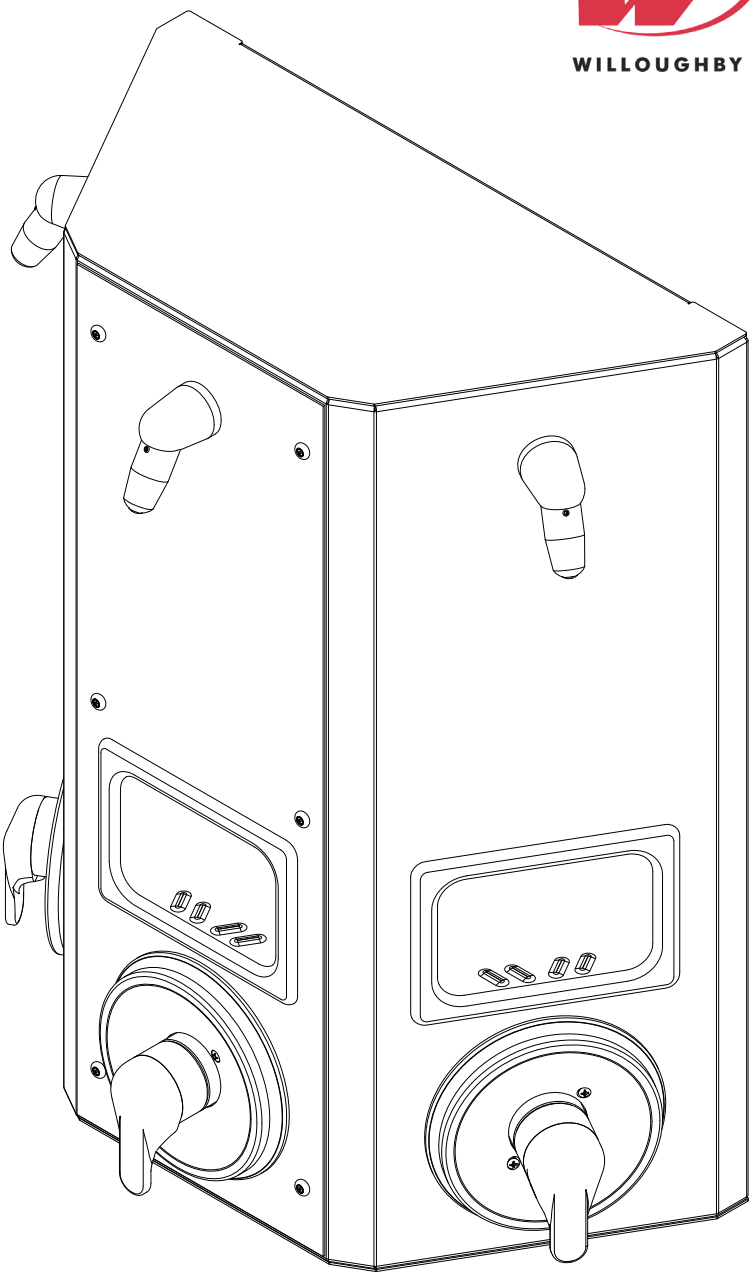
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CWTS Series
Three Station
Surface Mounted
Wall Shower



(Unit may be shown with optional features)

Recommended Specifications

Three Station, Surface Mounted Wall Shower shall be:
Willoughby Model No. **CWTS**
(Select from model number and options list on next page)

Shower face plates shall be fabricated from 16 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Wall bracket shall be fabricated from 16 gauge, Type 304 stainless steel.

Standard equipment shall include:
- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)
- Mounting bracket

Shower face plate shall attach to mounting bracket with vandal resistant stainless steel security screws. Mounting bracket anchoring hardware by others. Unit requires no chase area for installation and maintenance.

WaterSense Labeled for LRSH shower head.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Three Station, Surface Mounted Wall Shower with temp./pressure-balancing mixing valves, standard 2.5 GPM flow rate, APS adjustable vandal-resistant shower heads, and recessed soap dishes

Use the following Willoughby Model Number:
CWTS-TPV-2.5-APS-RD

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
❑ CWTS Surface Mounted, Three Station Wall Shower

2.) Valve Selection:
❑ NV No Valve
❑ PML1 Single Temp. Pneumatic Metering
❑ PML2 Dual Temp. Pneumatic Metering
❑ E1L1 Single Temp. Electronic (Pick Control)*
❑ E1L2 Dual Temp. Electronic (Pick Control)*
❑ PBV Pressure-Balancing Mixing Valve
❑ TPV Temperature/Pressure-Balancing Mixing Valve
❑ TPLR Ligature-resistant Temp/Pressure-balancing Mixing Valve
❑ SVC Single Temp. Compression Valve
❑ DVC Dual Temp. Compression Valves

3.) Push Button Selection:
Pneumatic or Electronic Valves Only:
❑ PBH Ligature-resistant Pneumatic Push Buttons
❑ PZPB Ligature-resistant Piezo Electronic Push Buttons*

4.) Flow Rates:
❑ 2.5 GPM (Standard) ❑ 2.0 GPM ❑ 1.5 GPM

5.) Electronic Control* (Must Use Electronic Push Button):
❑ WUSC-2200 ❑ WUSC-2400 ❑ Pneutronic

6.) Shower Head Selection:
❑ APS Adjustable Vandal-resistant Shower Head
❑ NPS Non-Adjustable Vandal-resistant Shower Head
❑ UBJ Universal Ball Joint Shower Head
❑ LBJ Lockable Ball Joint Shower Head
❑ CSH Ligature-resistant Shower Head
❑ LRSH Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate

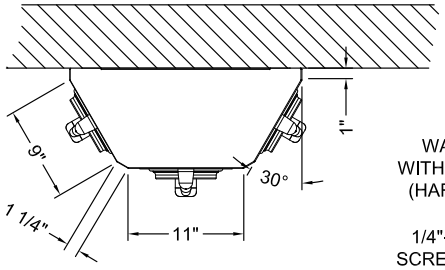
7.) Other Options:
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ TMV Inline Thermostatic Mixing Valve
❑ SD Surface Mounted Soap Dish
❑ RD Recessed Mounted Soap Dish
❑ PS Pipe Shroud (Specify Length): _____
❑ Other _____
❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

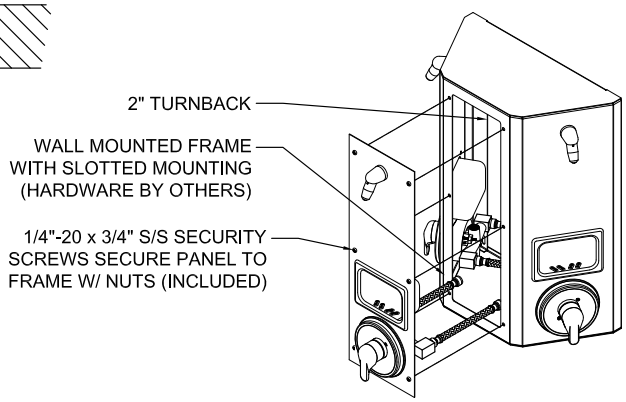
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Wall Thickness: _____ Wall Type: _____

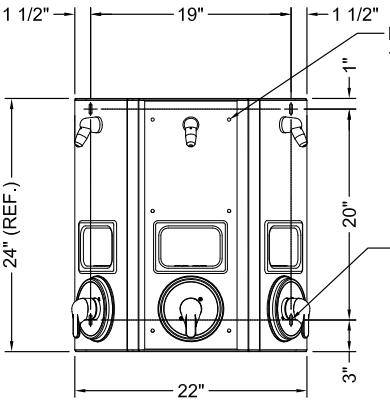
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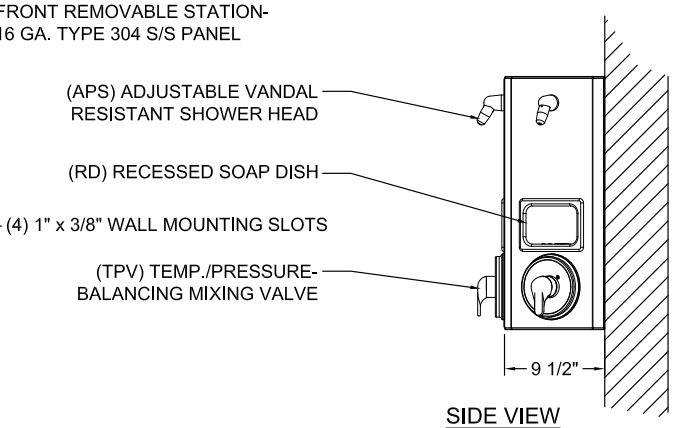


PLAN VIEW





FRONT VIEW



SIDE VIEW

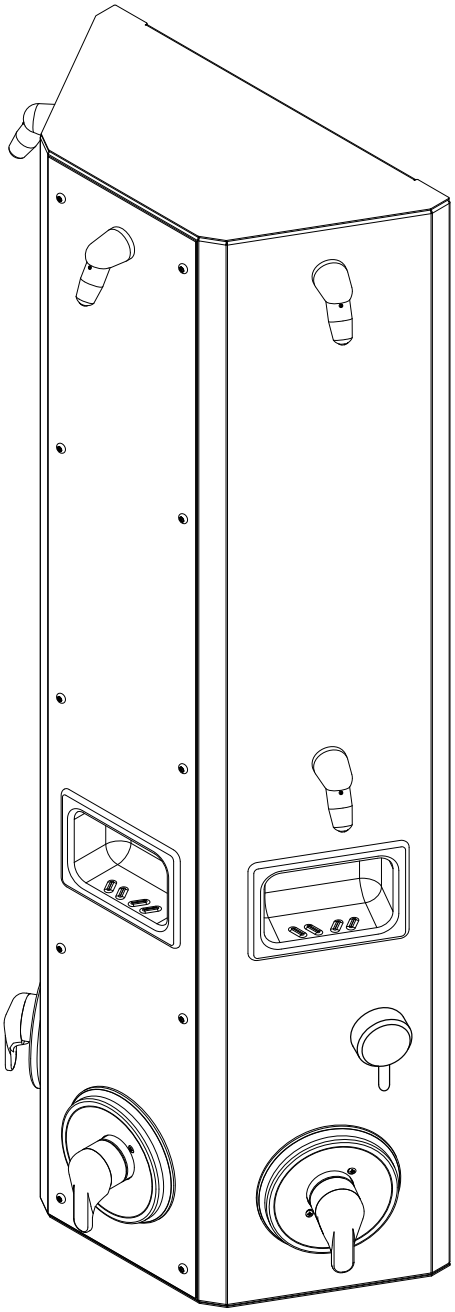
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CWTS-HCA Series Handicap Accessible Three Station Surface Mounted Wall Shower



RIGHT HAND HCA STATION SHOWN
(Unit may be shown with optional features)

(HCA) HANDICAP ACCESSIBLE

Recommended Specifications

Handicap Accessible, Three Station, Surface Mounted Wall Shower shall be: Willoughby Model No. **CWTS-HCA**
(Select from model number and options list on next page)

Shower cabinet shall be fabricated from 16 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Wall bracket shall be fabricated from 16 gauge, Type 304 stainless steel.

Standard equipment shall include:
- Shower valves (from Valve Selection options list)
- Shower head (from Shower Head Selection options list)
- Mounting bracket

Shower face plate shall attach to mounting bracket with vandal resistant stainless steel security screws. Mounting bracket anchoring hardware by others. Unit requires no chase area for installation and maintenance.

Handicap Accessible:
The CWTS-HCA surface mounted shower will conform to most, but not all, ADA requirements.
(Compliance shall be subject to the requirements of the local code authority based on installation-specific details and is the responsibility of the installer.)

WaterSense Labeled for LRSH shower head.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Handicap Accessible, Three Station, Surface Mounted Wall Shower with right hand HCA shower station, temp./pressure-balancing mixing valve, diverter valve, 2.5 GPM flow rate, (2) APS adjustable vandal-resistant shower heads, and recessed soap dish

Use the following Willoughby Model Number:
CWTS-HCA-R-TPV-DV-2.5-APS-2HD-RD

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ CWTS-HCA — Handicap Accessible, Three Station, Surface Mounted Wall Shower

2.) Shower Orientation (Must Specify):
- ❑ L — Left Hand HCA Shower Station
- ❑ R — Right Hand HCA Shower Station

3.) Valve Selection:
- ❑ NV — No Valve
- ❑ PML1 — Single Temp. Pneumatic Metering
- ❑ PML2 — Dual Temp. Pneumatic Metering
- ❑ E1L1 — Single Temp. Electronic (Pick Control)*
- ❑ E1L2 — Dual Temp. Electronic (Pick Control)*
- ❑ PBV — Pressure-Balancing Mixing Valve
- ❑ TPV — Temperature/Pressure-Balancing Mixing Valve
- ❑ TPLR — Ligature-resistant Temp/Pressure-balancing Mixing Valve
- ❑ SVCL — Single Temp. Compression Valve (w/ ADA lever handle)
- ❑ DVCL — Dual Temp. Compression Valves (w/ ADA lever handle)

4.) Diverter Valve:
- ❑ DV — Diverter Valve
- ❑ DVLR — Ligature-resistant Diverter Valve
- ❑ PML1-MA2 — Two Single Temp. Pneumatic Metering Valves (Used to divert water flow to either upper, lower, or both shower heads; for use with Mixing Valve options above)

5.) Push Button Selection:
Pneumatic or Electronic Valves Only:
- ❑ PBH — Ligature-resistant Pneumatic Push Buttons
- ❑ PZPB — Ligature-resistant Piezo Electronic Push Buttons*

6.) Flow Rates:
- ❑ 2.5 GPM (Standard) ❑ 2.0 GPM ❑ 1.5 GPM

7.) Electronic Control* (Must Use Electronic Push Button):
- ❑ WUSC-2200 ❑ WUSC-2400 ❑ Pneutronic

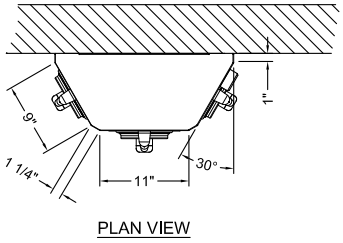
8.) Shower Head Selection:
- ❑ APS — Adjustable Vandal-resistant Shower Head
- ❑ NPS — Non-Adjustable Vandal-resistant Shower Head
- ❑ UBJ — Universal Ball Joint Shower Head
- ❑ LBJ — Lockable Ball Joint Shower Head
- ❑ CSH — Ligature-resistant Shower Head
- ❑ FX — Hand-held Flexshower Head (w/ quick disconnect, vacuum breaker, and (1) hook)
- ❑ LRSH — Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate
- ❑ 2HD — Dual Fixed Shower Heads (replaces (FX) Flexshower head w/ second of the selected fixed Shower Head)

9.) Other Options:
- ❑ TF24H — Hard-wired Transformer, 110VAC to 24VAC* (Standard)
- ❑ TF24P — Plug-in Transformer, 110VAC to 24VAC*
- ❑ TMV — Inline Thermostatic Mixing Valve
- ❑ HL — Hi-Lo (2 Hooks For Flexshower, Wall Mounted)
- ❑ SLB24 — 24" Adjustable Slide Bar (for Flexshower, Wall Mounted)
- ❑ SD — Surface Mounted Soap Dish
- ❑ RD — Recessed Mounted Soap Dish
- ❑ PS — Pipe Shroud (Specify Length): _____
- ❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

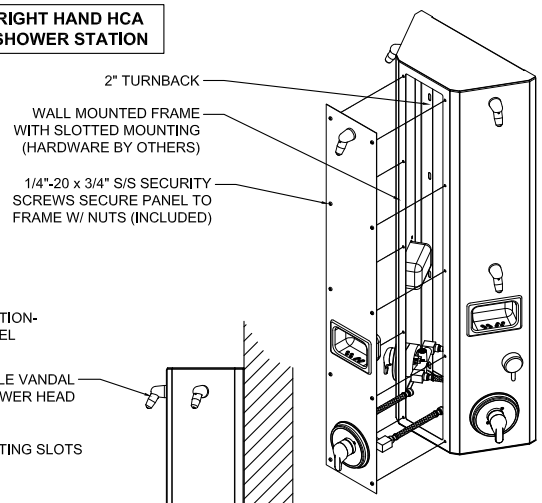
Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

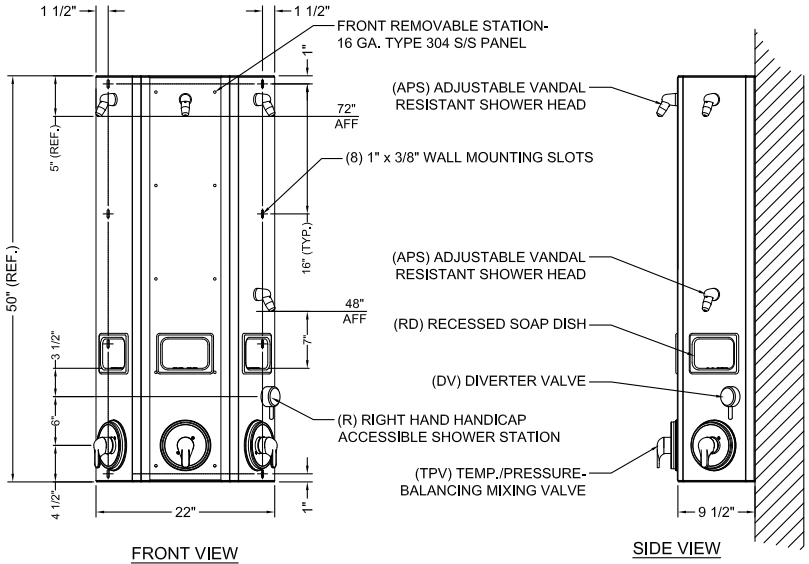
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PLAN VIEW

RIGHT HAND HCA SHOWER STATION





FRONT VIEW SIDE VIEW

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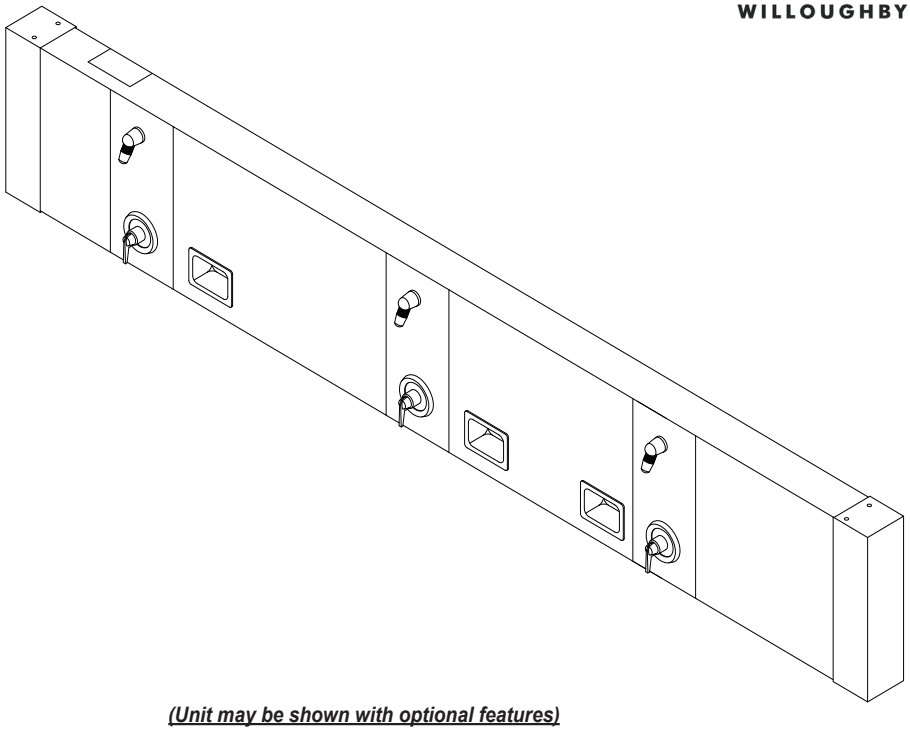
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CWCWS Series Continuous Wall Shower



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Continuous Wall Shower system with (3) stations, temp./pressure-balancing mixing valves, standard 2.5 GPM flow rate, standard APS adjustable vandal-resistant shower heads, and recessed soap dishes

Use the following Willoughby Model Number:
CWCWS-3-TPV-2.5-APS-RD

Recommended Specifications

Continuous Wall Shower system shall be:
Willoughby Model No. **CWCWS**
(Select from model number and options list on next page)

Shower housing shall be fabricated from 16 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)
- Individual shower station panels fastened with vandal resistant security screws

Standard spacing between shower heads shall be 36"

Shower unit shall be factory pre-piped, tested for proper operation and ready for installation by contractor. Anchoring shall be by mounting bracket with Uni-Strut for supplies, with anchoring hardware by others. Unit requires no chase area for installation and maintenance.

WaterSense Labeled for LRSH shower head.

Note: Continuous wall shower systems are designed for each specific application. **Contractor shall furnish to manufacturer exact field dimensions prior to fabrication.**

NUMBER OF SHOWER HEADS	INLET DIAMETER*
1 TO 4	3/4"
5 TO 8	1"
9 TO 11	1 1/4"
12+	1 1/2"

***BASED ON 45 PSI INLET PRESSURE**

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
❑ CWCWS Continuous Wall Shower

2.) Shower Stations:
❑ **Number of Shower Stations (must specify):** _____

3.) Valve Selection:
❑ NV No Valve
❑ PML1 Single Temp. Pneumatic Metering
❑ PML2 Dual Temp. Pneumatic Metering
❑ E1L1 Single Temp. Electronic (Pick Control)*
❑ E1L2 Dual Temp. Electronic (Pick Control)*
❑ PBV Pressure-Balancing Mixing Valve
❑ TPV Temperature/Pressure-Balancing Mixing Valve
❑ TPLR Ligature-resistant Temp/Pressure-balancing Mixing Valve
❑ SVC Single Temp. Compression Valve
❑ DVC Dual Temp. Compression Valves
❑ MA2 ***Valve Manifold Option*** *(Pneumatic or Electronic Valves Only):*
(See the Manifold Option Page at the end of Catalog Section C14 for further information)

4.) Push Button Selection:
Pneumatic or Electronic Valves Only:
❑ PBH Ligature-resistant Pneumatic Push Buttons
❑ PZPB Ligature-resistant Piezo Electronic Push Buttons*

5.) Flow Rates:
❑ 2.5 GPM (Standard) ❑ 2.0 GPM ❑ 1.5 GPM

6.) Electronic Control* (Must Use Electronic Push Button):
❑ WUSC-2200 ❑ WUSC-2400 ❑ Pneutronic

7.) Shower Head Selection:
❑ APS Adjustable Vandal-resistant Shower Head
❑ NPS Non-Adjustable Vandal-resistant Shower Head
❑ UBJ Universal Ball Joint Shower Head
❑ LBJ Lockable Ball Joint Shower Head
❑ CSH Ligature-resistant Shower Head
❑ FX Hand-held Flexshower Head (w/ quick disconnect, vacuum breaker, and (1) hook)
❑ LRSH Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate

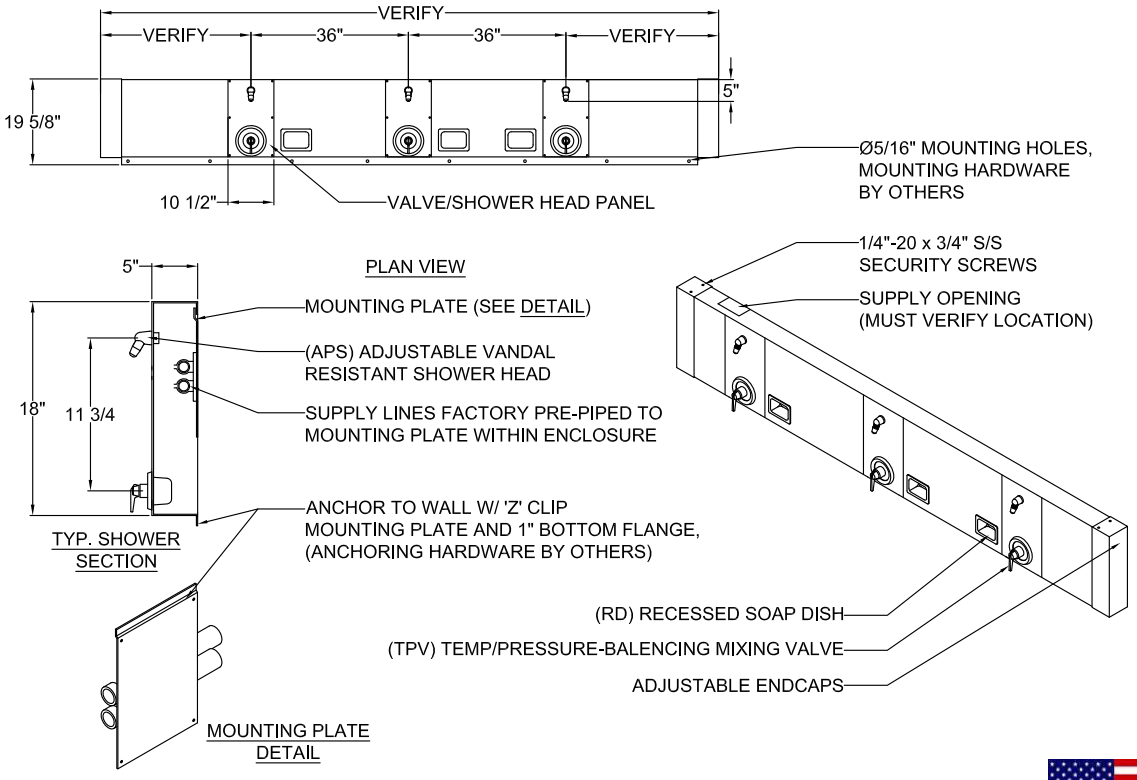
8.) Other Options:
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ TMV Inline Thermostatic Mixing Valve
❑ SD Surface Mounted Soap Dish
❑ RD Recessed Mounted Soap Dish
❑ PS Pipe Shroud (Specify Length): _____
❑ HCA Handicap Accessible Shower Station (1 *station will include: Diverter Valve, Hand-held Flexshower Head, and 1 Flexshower Hook)*
❑ Other _____
❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

CONTRACTOR SHALL FURNISH TO MANUFACTURER EXACT FIELD DIMENSIONS PRIOR TO FABRICATION

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN
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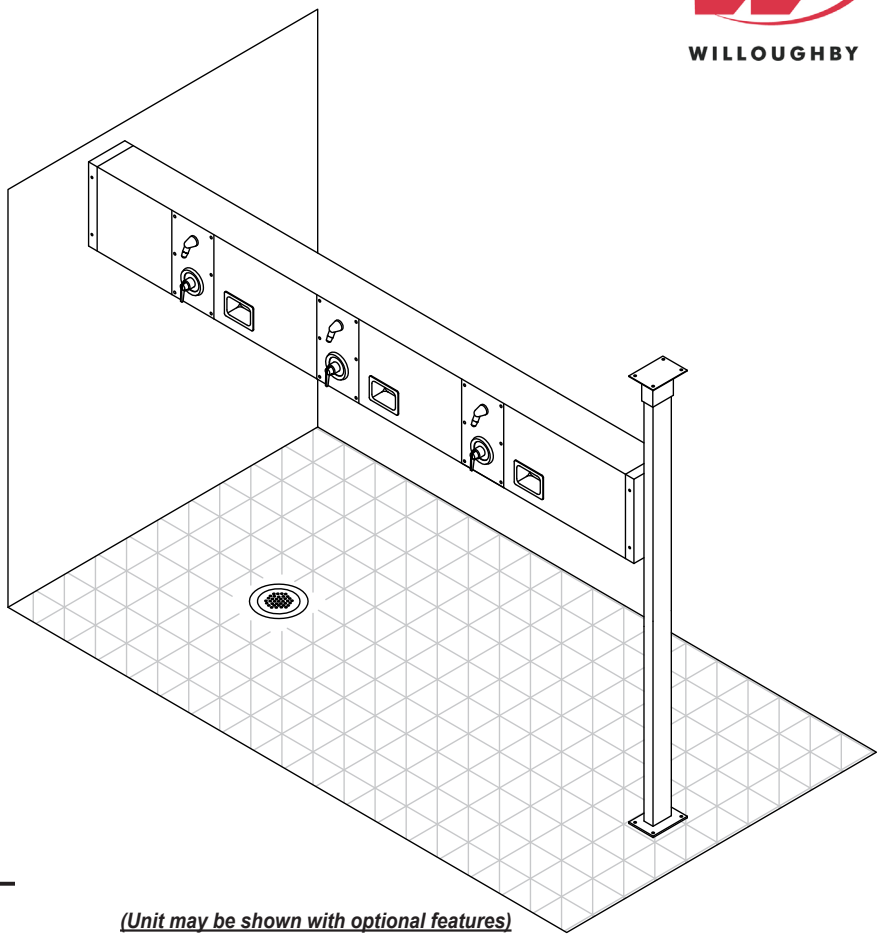
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CWBTBS Series Back-to-Back Continuous Wall Shower



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Back-to-back Continuous Wall Shower system with (3) stations, temp./pressure-balancing mixing valves, standard 2.5 GPM flow rate, standard APS adjustable vandal-resistant shower heads, individual checkstops, and recessed soap dishes

Use the following Willoughby Model Number:
CWBTBS-3-TPV-2.5-APS-GX-RD

Recommended Specifications

Back-to-back Continuous Wall Shower system shall be:
Willoughby Model No. **CWBTBS**
(Select from model number and options list on next page)

Shower housing shall be fabricated from 16 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)
- Individual shower station panels fastened with vandal resistant security screws

Standard spacing between shower heads shall be 36"

Shower unit shall be factory pre-piped, tested for proper operation and ready for installation by contractor. Anchoring shall be by mounting bracket on the wall and floor mounted stanchion. Wall and floor anchoring hardware by others. Unit requires no chase area for installation and maintenance.

WaterSense Labeled for LRSH shower head.

Back to Back Continuous wall shower systems are designed for each specific application. **Contractor shall furnish to manufacturer exact field dimensions prior to fabrication.**

NUMBER OF SHOWER HEADS	INLET DIAMETER*
1 TO 4	3/4"
5 TO 8	1"
9 TO 11	1 1/4"
12+	1 1/2"

***BASED ON 45 PSI INLET PRESSURE**

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
❑ CWBTBS Back-to-Back Continuous Wall Shower

2.) Shower Stations:
❑ **Number of Non-handicap Shower Stations (must specify):** _____

3.) Valve Selection:
❑ NV No Valve
❑ PML1 Single Temp. Pneumatic Metering
❑ PML2 Dual Temp. Pneumatic Metering
❑ E1L1 Single Temp. Electronic (Pick Control)*
❑ E1L2 Dual Temp. Electronic (Pick Control)*
❑ PBV Pressure-Balancing Mixing Valve
❑ TPV Temperature/Pressure-Balancing Mixing Valve
❑ TPLR Ligature-resistant Temp/Pressure-balancing Mixing Valve
❑ SVC Single Temp. Compression Valve
❑ DVC Dual Temp. Compression Valves
❑ MA2 ***Valve Manifold Option*** *(Pneumatic or Electronic Valves Only):*
(See the Manifold Option Page at the end of Catalog Section C14 for further information)

4.) Push Button Selection:
Pneumatic or Electronic Valves Only:
❑ PBH Ligature-resistant Pneumatic Push Buttons
❑ PZPB Ligature-resistant Piezo Electronic Push Buttons*

5.) Flow Rates:
❑ 2.5 GPM (Standard) ❑ 2.0 GPM ❑ 1.5 GPM

6.) Electronic Control* (Must Use Electronic Push Button):
❑ WUSC-2200 ❑ WUSC-2400 ❑ Pneutronic

7.) Shower Head Selection:
❑ APS Adjustable Vandal-resistant Shower Head
❑ NPS Non-Adjustable Vandal-resistant Shower Head
❑ UBJ Universal Ball Joint Shower Head
❑ LBJ Lockable Ball Joint Shower Head
❑ CSH Ligature-resistant Shower Head
❑ FX Hand-held Flexshower Head (w/ quick disconnect, vacuum breaker, and (1) hook)
❑ LRSH Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate

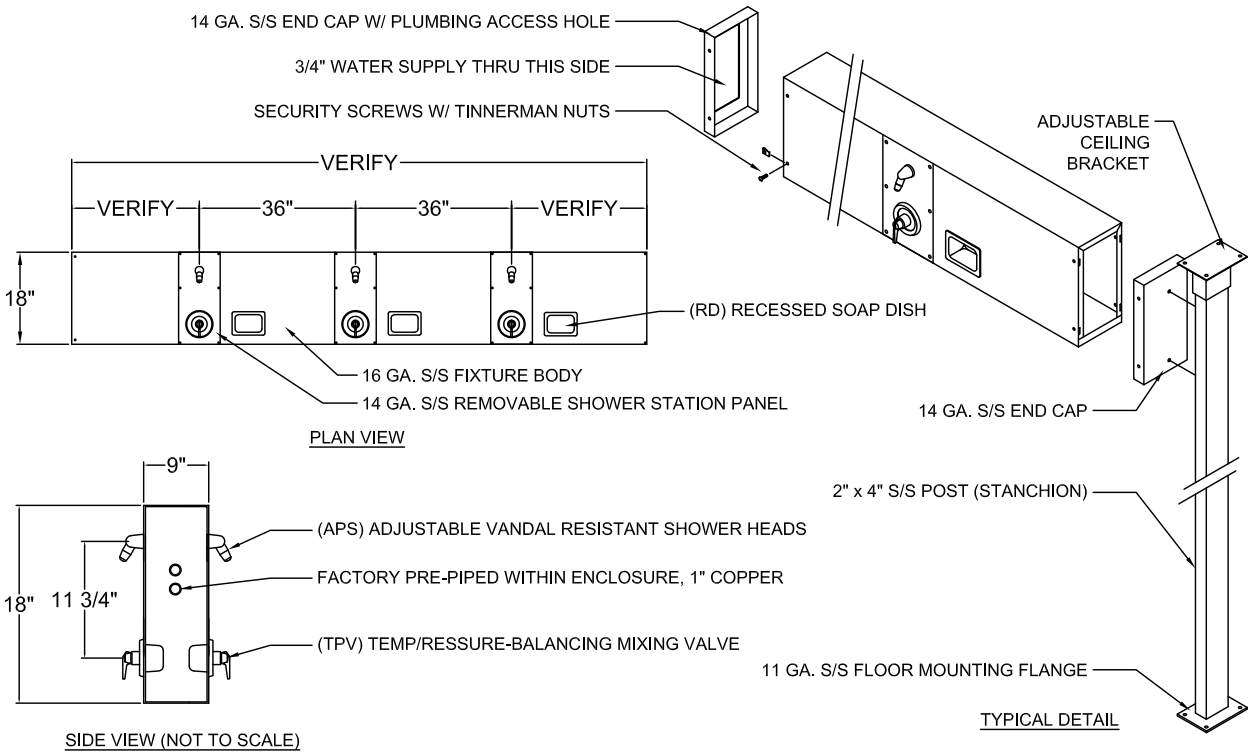
8.) Other Options:
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ TMV Inline Thermostatic Mixing Valve
❑ SD Surface Mounted Soap Dish
❑ RD Recessed Mounted Soap Dish
❑ PS Pipe Shroud (Specify Length): _____
❑ Other _____
❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

CONTRACTOR SHALL FURNISH TO MANUFACTURER EXACT FIELD DIMENSIONS PRIOR TO FABRICATION

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN
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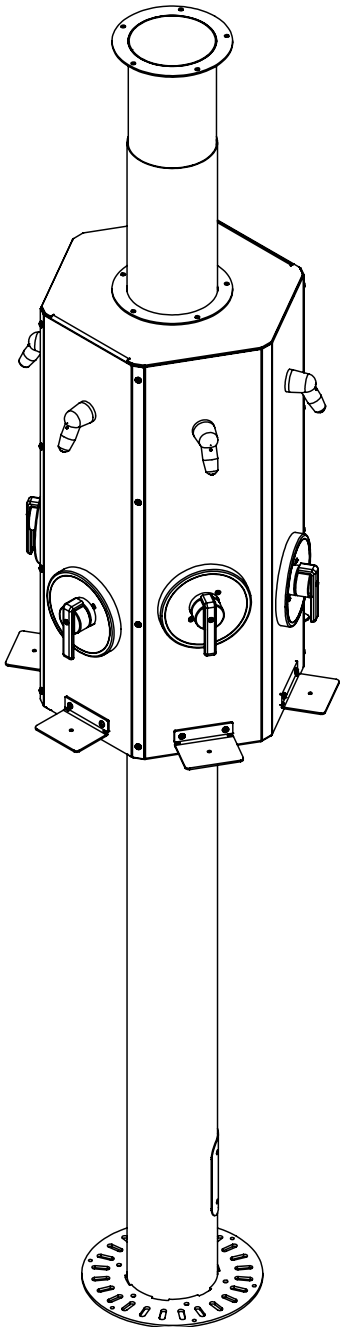
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CWCSY Series
2-6 Station
Type Y
Column Shower



(Unit may be shown with optional features)

Recommended Specifications

Type Y column shower shall be:
Willoughby Model No. **CWCSY-___**
(Select from model number and options list on next page)

Shower column fabricated from 16 gauge, Type 304 stainless steel with exposed surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Shower valves (from Valve Selection options list)
- Shower heads (from Shower Head Selection options list)
- Stainless steel drain fitting and access panel

Supplies are from above or below. Drain configuration shall be vented off line or vented through column.

Shower unit is factory assembled, tested for proper operation, and ready for installation by a contractor. Mounting bolts are provided for fastening column to drain fitting. Ceiling fasteners furnished by others.

WaterSense Labeled for LRSH shower head.

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a CWCSY column shower with 6 stations, temp./pressure-balancing mixing valves, standard 2.5 GPM flow rate, standard APS adjustable vandal-resistant shower heads, supplies below/vent off line, surface mounted soap dishes, and ceiling anchor plate

Use the following Willoughby Model Number:
CWCSY-6-TPV-2.5-APS-A-CA-SD

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
❑ CWCSY Type Y Column Shower

2.) Number Of Stations:
❑ 2 ❑ 3 ❑ 4 ❑ 5 ❑ 6

3.) Valve Selection:
❑ NV No Valve
❑ PML1 Single Temp. Pneumatic Metering
❑ PML2 Dual Temp. Pneumatic Metering
❑ E1L1 Single Temp. Electronic (Pick Control)*
❑ E1L2 Dual Temp. Electronic (Pick Control)*
❑ PBV Pressure-Balancing Mixing Valve
❑ TPV Temperature/Pressure-Balancing Mixing Valve
❑ TPLR Ligature-resistant Temp/Pressure-balancing Mixing Valve
❑ SVC Single Temp. Compression Valve
❑ DVC Dual Temp. Compression Valves

4.) Push Button Selection:
Pneumatic or Electronic Valves Only:
❑ PBH Ligature-resistant Pneumatic Push Buttons
❑ PZPB Ligature-resistant Piezo Electronic Push Buttons*

5.) Flow Rates:
❑ 2.5 GPM (Standard) ❑ 2.0 GPM ❑ 1.5 GPM

6.) Electronic Control* (Must Use Electronic Push Button):
❑ WUSC-2200 ❑ WUSC-2400 ❑ Pneutronic

7.) Shower Head Selection:
❑ APS Adjustable Vandal-resistant Shower Head
❑ NPS Non-Adjustable Vandal-resistant Shower Head
❑ UBJ Universal Ball Joint Shower Head
❑ LBJ Lockable Ball Joint Shower Head
❑ CSH Ligature-resistant Shower Head
❑ FX Hand-held Flexshower Head (w/ quick disconnect, vacuum breaker, and (1) hook)
❑ LRSH Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Max Flow Rate

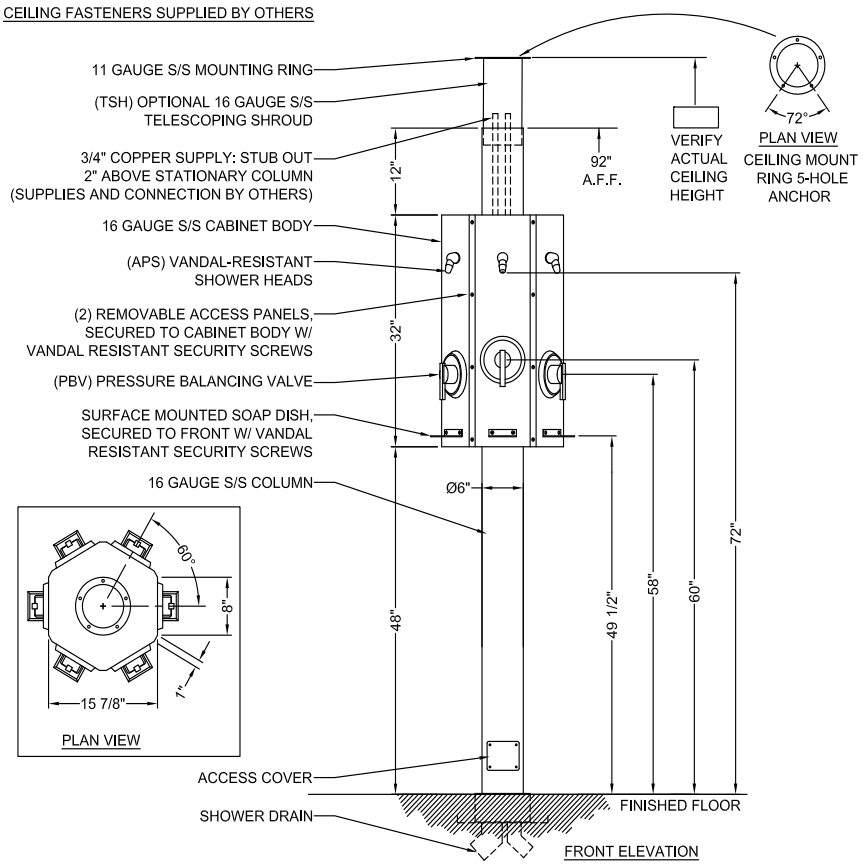
8.) Supply And Drain Type:
❑ A Supplies Below/Vent Off Line
❑ B Supplies Above/Vent Thru Column
❑ C Supplies Below/Vent Thru Column
❑ D Supplies Above/Vent Off Line

9.) Other Options:
❑ CA Ceiling Anchor
❑ HCA Handicap Accessible Shower Station (1 *station will include: Diverter Valve, Hand-held Flexshower Head, and 1 Flexshower Hook)*
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC* (Standard)
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ TMV Inline Thermostatic Mixing Valve
❑ SD Surface Mounted Soap Dish
❑ RD Recessed Mounted Soap Dish
❑ GB24V 24" Vertically-mounted Grab Bar (Mounted to Shower)
❑ TSH Telescoping Pipe Shroud (Specify Ceiling Height): _____
❑ USV Unit Shut-Off Valve
❑ Other _____
❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN
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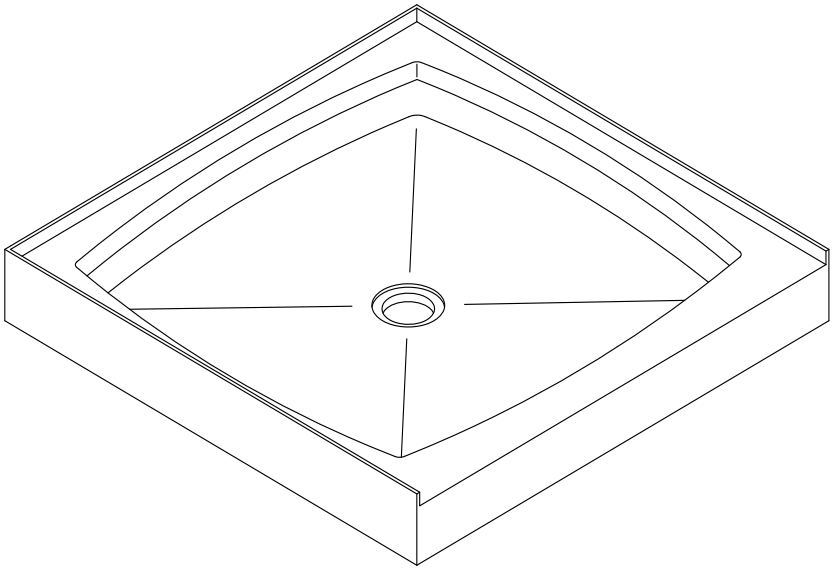
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Aquasurf® Solid Surface Shower Base Square, Rectangular



(36" x 36" SQUARE SHOWN)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a 36 x 36 square base in Glacier White.

Use the following Willoughby Model Number:
AS-S3636-GW

Recommended Specifications

Solid Surface Shower Base shall be:
Willoughby Aquasurf® Model No. **AS-___**
(Select from model number and options list on next page)

Aquasurf® Solid Surface Products Shower Bases are designed for single and multiple applications. The Shower Base shall be a monolithic cast component. Aquasurf® Solid Surface Products polymer materials, composed of fully densified aluminum trihydrate mineral fillers, homogeneously blended in an engineered, UV stabilized, acrylic modified polyester resin.

Shower Base shall have integrally molded support bracing on bottom, positive sloped non-slip textured interior floor and integral perimeter flange. Aquasurf® Solid Surface Products Shower Base shall incorporate integral threshold, curb and Ø3-1/2" standard opening for Ø2" no-hub drain connection. Drain is included.

Shower Base shall be available in solid color or granite pattern solid surface (specify color selection).

Solid Surface Shower Base shall comply with ANSI Z124.2.

Vandal Resistance:
Aquasurf® Solid Surface Products Shower Bases offer high impact, chip, scratch and burn resistance. Topical surface damages can easily be repaired with minor abrasive applications (3M #7448 Scotch-Brite™) The viral, bacteriological, chemical, mildew and mold resistance provides a sanitary, easily cleaned, durable, low maintenance component.

Optional Features:
Aquasurf® Solid Surface Products wall panel kits with overlay battens, coved corners and soap/shampoo assemblies provide all components required to complete shower area enclosure (refer to selection sheet for unit designation).

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MODEL NUMBER AND OPTIONS:

1.) Base Type:

- ❑ AS-S3636 36x36 Square Base
- ❑ AS-S3648 36x48 Rectangular Base
- ❑ AS-S3660 36x60 Rectangular Base

2.) Commercial Wall Kits (1/4" Panels):

- ❑ ASK-S363684 (3)-36x84 Panels
  (2)-AS-IS-CV8 Inside Corner Cove Overlay
- ❑ ASK-S483684 (2)-36x84 Panels
  (2)-24x84 Panels
  (1)-3x84 Overlay
  (2)-AS-IS-CV8 Inside Corner Cove Overlay
- ❑ ASK-S603684 (2)-36x84 Panels
  (2)-29-1/2 x 84 Panels
  (1)-3x84 Overlay
  (2)-AS-IS-CV8 Inside Corner Cove Overlay

3.) Accessories:

- ❑ AS-SSH Soap/Shampoo Holder
- ❑ LRD4 4" Ligature-Resistant Drain Cover

4.) Solid Surface Color:

- ❑ BN Bone
- ❑ GW Glacier White
- ❑ GG Grey Granite
- ❑ SS Sandstone
- ❑ WG White Granite
- ❑ BG Black Granite
- ❑ NB Nocturnal Blue
- ❑ RC Red Coral
- ❑ SG Sea Green

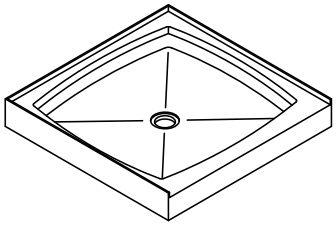
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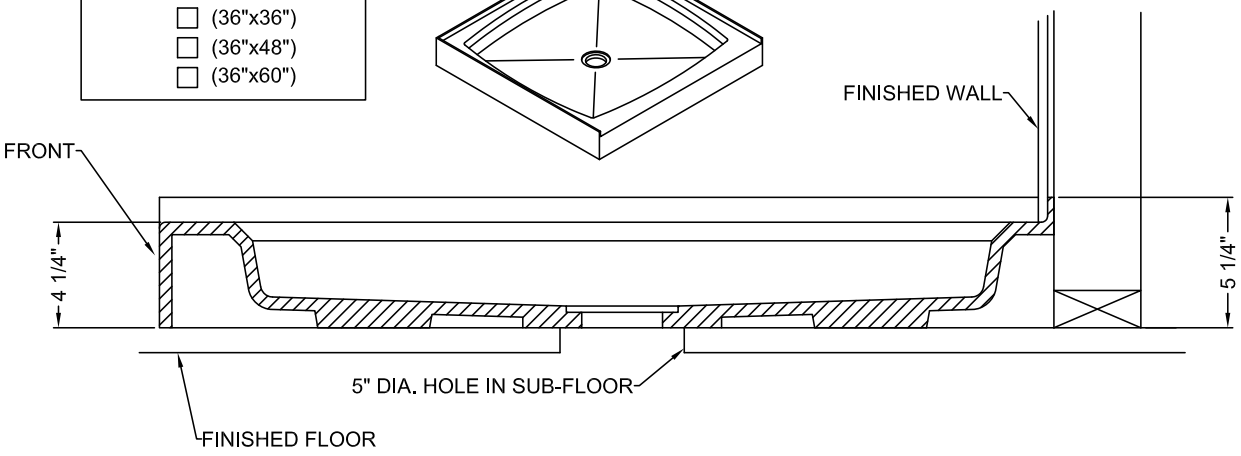
Wall Thickness: _____ Wall Type: _____

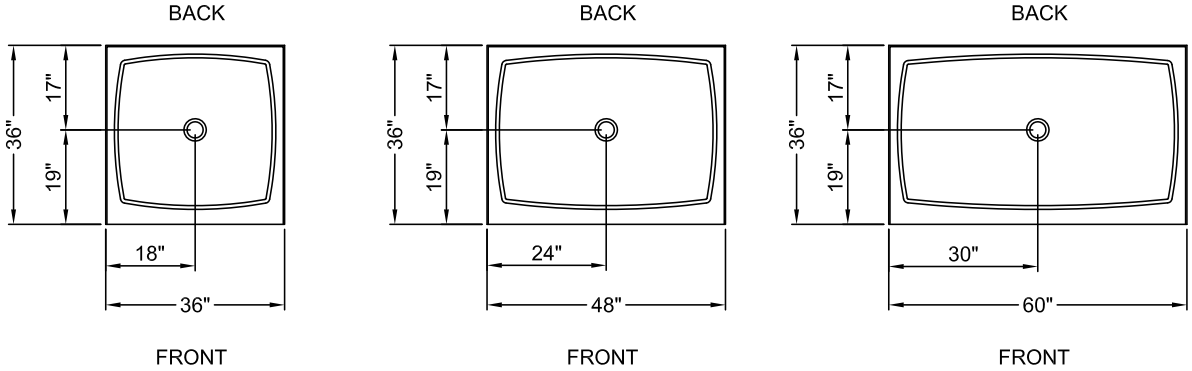
VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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SELECT A MODEL:
- ☐ (36"x36")
- ☐ (36"x48")
- ☐ (36"x60")







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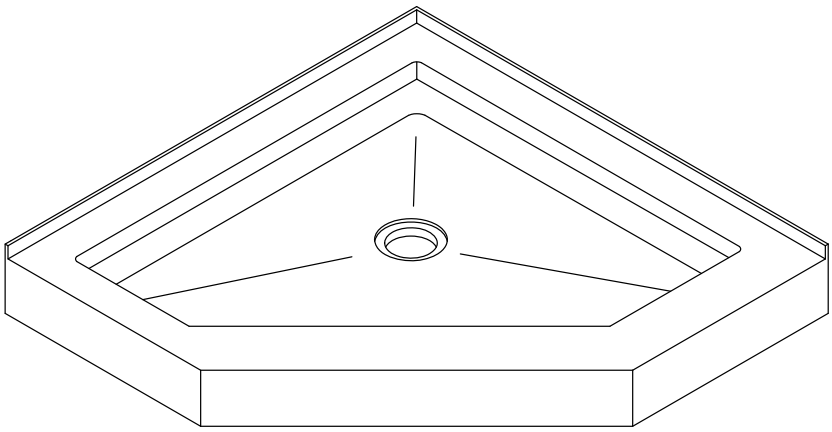
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Aquasurf® Solid Surface Shower Base Round, Angular



(NEO ANGLE SHOWN)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a 36" neo-angle base in Glacier White

Use the following Willoughby Model Number:
AS-S36NEO-GW

Recommended Specifications

Solid Surface Shower Base shall be:
Willoughby Aquasurf® Model No. **AS-___**
(Select from model number and options list on next page)

Aquasurf® Solid Surface Products Shower Bases are designed for single and multiple applications. The Shower Base shall be a monolithic cast component. Aquasurf® Solid Surface Products polymer materials, composed of fully densified aluminum trihydrate mineral fillers, homogeneously blended in an engineered, UV stabilized, acrylic modified polyester resin.

Shower Base shall have integrally molded support bracing on bottom, positive sloped non-slip textured interior floor and integral perimeter flange. Aquasurf® Solid Surface Products Shower Base shall incorporate integral threshold, curb and Ø3-1/2" standard opening for Ø2" no-hub drain connection. Drain is included.

Shower Base shall be available in solid color or granite pattern solid surface (specify color selection).

Solid Surface Shower Base shall comply with ANSI Z124.2.

Vandal Resistance:
Aquasurf® Solid Surface Products Shower Bases offer high impact, chip, scratch and burn resistance. Topical surface damages can easily be repaired with minor abrasive applications (3M #7448 Scotch-Brite™) The viral, bacteriological, chemical, mildew and mold resistance provides a sanitary, easily cleaned, durable, low maintenance component.

Optional Features:
Aquasurf® Solid Surface Products wall panel kits with overlay battens, coved corners and soap/shampoo assemblies provide all components required to complete shower area enclosure (refer to selection sheet for unit designation).

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MODEL NUMBER AND OPTIONS:

1.) Base Type:

- ❑ AS-S36NEO 36x36 Neo-Angle Base
- ❑ AS-S42NEO 42x42 Neo-Angle Base
- ❑ AS-S36RND 36x36 Round Front Base

2.) Commercial Wall Kits (1/4" Panels):

- ❑ ASK-S36NEO (2)-36x84 Panels
  (2)-18x84 Jamb Panels
  (3)-AS-IS-CV8 Inside Corner Cove Overlay
- ❑ ASK-S42NEO (2)-42x84 Panels
  (2)-24x84 Jamb Panels
  (3)-AS-IS-CV8 Inside Corner Cove Overlay
- ❑ ASK-S36RND (2)-36x84 Panels
  (1)-AS-IS-CV8 Inside Corner Cove Overlay

3.) Accessories:

- ❑ AS-SSH Soap/Shampoo Holder
- ❑ LRD4 4" Ligature-Resistant Drain Cover

4.) Solid Surface Color:

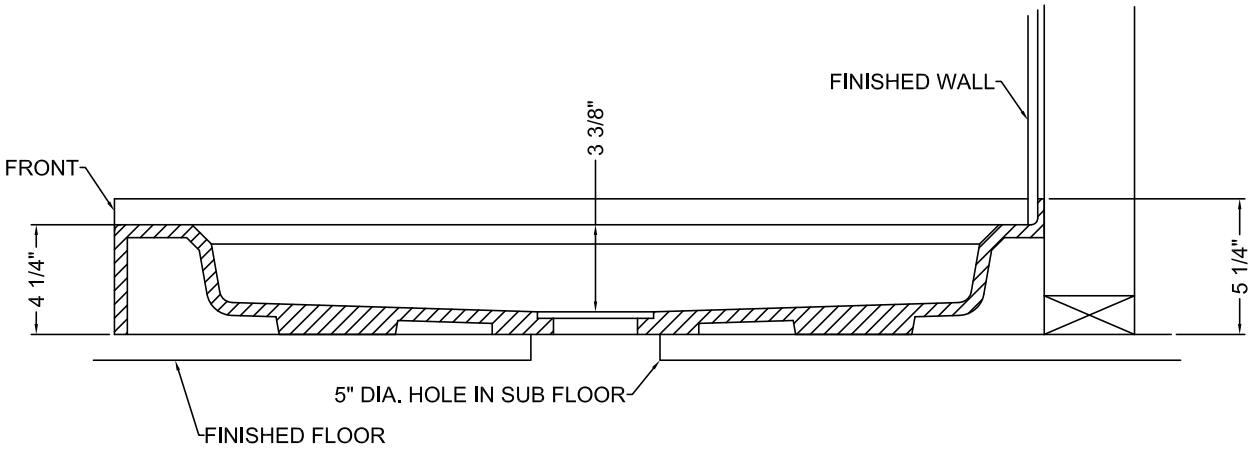
- ❑ BN Bone
- ❑ GW Glacier White
- ❑ GG Grey Granite
- ❑ SS Sandstone
- ❑ WG White Granite
- ❑ BG Black Granite
- ❑ NB Nocturnal Blue
- ❑ RC Red Coral
- ❑ SG Sea Green

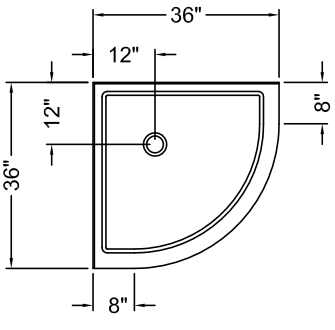
Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

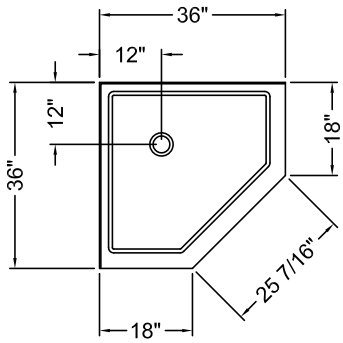
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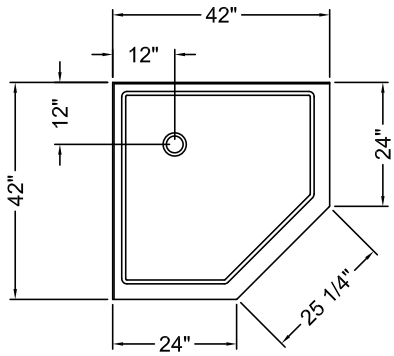




AS-S36RND



AS-S36NEO



AS-S42NEO

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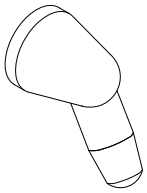
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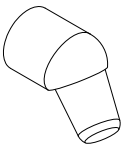
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SHOWER HEAD OPTIONS



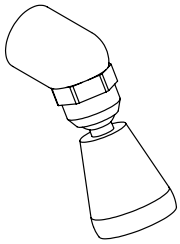
SHOWER HEAD IS FIXED TYPE. CONSTRUCTED ENTIRELY OF STAIN-LESS STEEL. MOUNTED FROM THE REAR WITH NO REMOVABLE PARTS AND SHALL HAVE A 30 DEGREE ADJUSTABLE ANGLE OF SPRAY. THE HEAD SHALL HAVE 3/8" F.I.P. THREADS ON THE INLET. THE ENTIRE UNIT HAS A TAPERED LIGATURE-RESISTANT DESIGN. USER **CAN** ADJUST THE SPRAY PATTERN.

(APS) ADJUSTABLE VANDAL-RESISTANT SHOWER HEAD



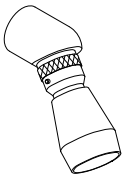
SHOWER HEAD IS FIXED TYPE. CONSTRUCTED ENTIRELY OF STAIN-LESS STEEL. MOUNTED FROM THE REAR WITH NO REMOVABLE PARTS AND SHALL HAVE A 30 DEGREE ADJUSTABLE ANGLE OF SPRAY. THE HEAD SHALL HAVE 3/8" F.I.P. THREADS ON THE INLET. THE ENTIRE UNIT HAS A TAPERED LIGATURE-RESISTANT DESIGN. USER **CANNOT** ADJUST THE SPRAY PATTERN.

(NPS) NON-ADJUSTABLE VANDAL-RESISTANT SHOWER HEAD



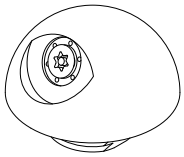
SHOWER HEAD IS CONSTRUCTED FROM CHROME-PLATED BRASS. MOUNTED FROM THE REAR WITH NO REMOV-ABLE PARTS. THE HEAD SHALL HAVE 3/8" F.I.P. THREADS ON THE INLET. THIS UNIT ALLOWS THE USER TO MOVE THE SHOWER HEAD IN ALL DIRECTIONS AND TO ADJUST THE SPRAY PATTERN.

(UBJ) UNIVERSAL BALL JOINT SHOWER HEAD



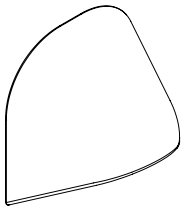
SHOWER HEAD IS CONSTRUCTED FROM CHROME-PLATED BRASS. MOUNTED FROM THE REAR WITH NO REMOVABLE PARTS. THE HEAD SHALL HAVE 3/8" F.I.P. THREADS ON THE INLET. THIS UNIT ALLOWS FOR LOCKING THE SHOWER HEAD IN A MULTITUDE OF DESIRED PO-SITIONS WITH A SET SCREW. USER CAN ADJUST THE SPRAY PATTERN.

(LBJ) LOCKABLE BALL JOINT SHOWER HEAD



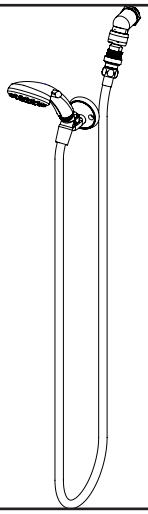
SHOWER HEAD IS FIXED TYPE. CONSTRUCTED OF TYPE 303 STAIN-LESS STEEL, MOUNTED FROM THE REAR WITH NO VISIBLE FASTENERS, AND SHALL HAVE A 30° ANGLE OF SPRAY THROUGH A DELRIN INSERT, RETAINED BY A STAINLESS STEEL PIN-TORX SE-CURITY SCREW. THE HEAD SHALL HAVE 3/8" F.I.P. THREADS ON THE INLET. THE ENTIRE UNIT HAS A LIGATURE-RESIS-TANT ROUNDED AND TAPERED DESIGN.

(CSH) LIGATURE-RESISTANT SHOWER HEAD



SHOWER HEAD IS FIXED TYPE. CONSTRUCTED FROM CHROME-PLATED DIE CAST, MOUNTED FROM THE REAR WITH NO VISIBLE FASTENERS, AND SHALL HAVE A 30° ANGLE OF SPRAY WITH A MAXIMUM FLOW RATE OF 2.0 GPM. THE HEAD SHALL HAVE 3/8" F.I.P. THREADS ON THE INLET. THE ENTIRE UNIT HAS A LIGATURE-RESISTANT ROUNDED AND TAPERED DESIGN.

(LRSH) LIGATURE-RESISTANT HIGH EFFICIENCY SHOWER HEAD



FLEXSHOWER CONSISTS OF ELBOW, VACUUM BREAKER, QUICK DISCON-NECT, 60" LONG STAINLESS FLEX HOSE, SWIVEL CONNECTOR, FIXED SPRAY HAND HELD SHOWER HEAD AND HOOK (WALL MOUNTED OR FIXTURE MOUNTED).

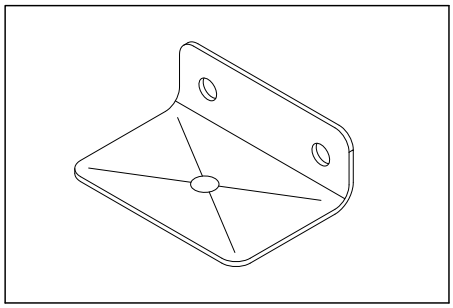
(FX) FLEXSHOWER HEAD

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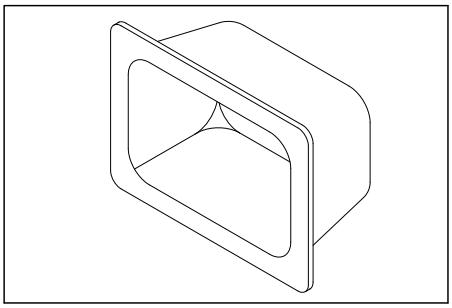
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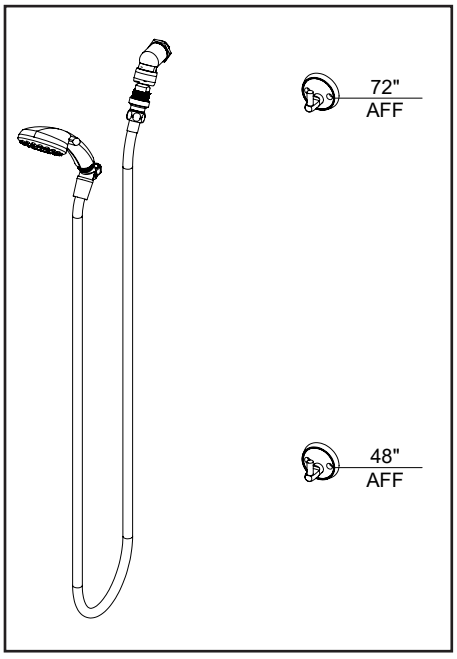
OTHER SHOWER OPTIONS



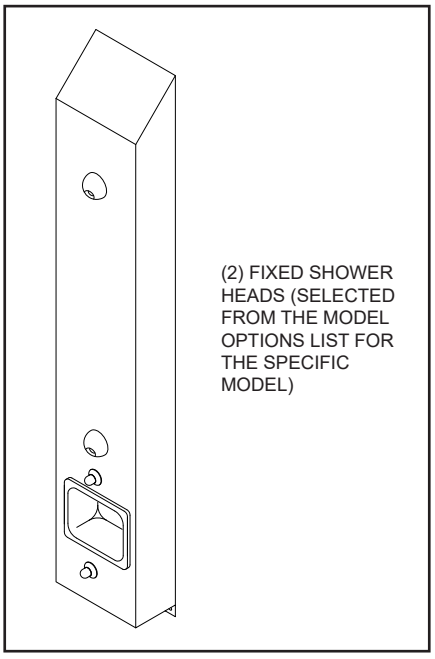
(SD) SURFACE MOUNTED
SOAP DISH



(RD) RECESSED SOAP DISH

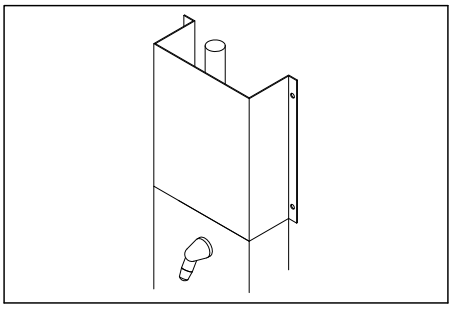


(HL) HI-LO (2 MOUNTING
HOOKS FOR FLEXSHOWER)

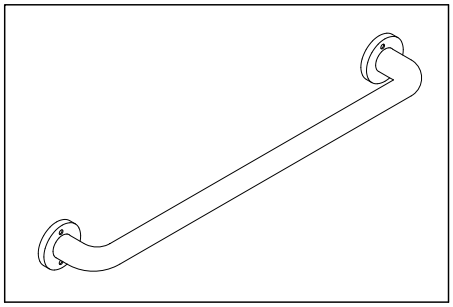


(2) FIXED SHOWER
HEADS (SELECTED
FROM THE MODEL
OPTIONS LIST FOR
THE SPECIFIC
MODEL)

(2HD) DUAL FIXED SHOWER HEADS



(PS) PIPE SHROUD
FOR STANDARD UNITS
CONCEALS TOP SUPPLY PIPING

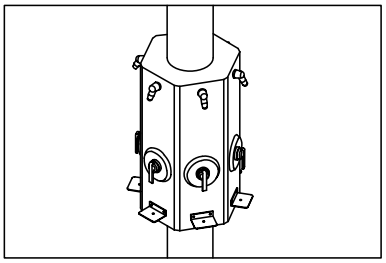


(GB____) GRAB BAR
(SPECIFY DIMENSIONS)

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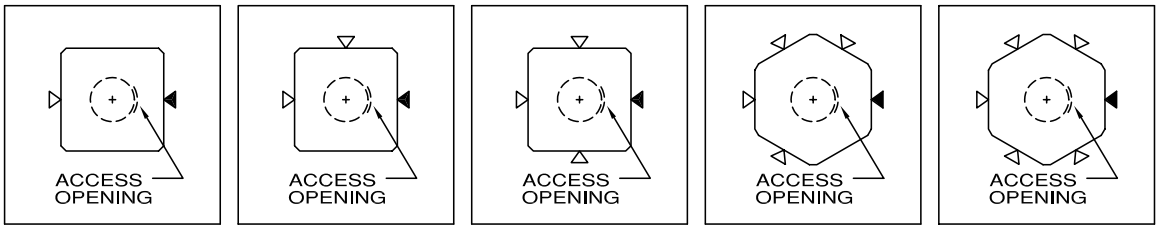
COLUMN SHOWER OPTIONS

BASE MODEL NUMBER



"CWCSY" COLUMN SHOWER

NUMBER OF STATIONS



TWO STATION "CWCSY" | THREE STATION "CWCSY" | FOUR STATION "CWCSY" | FIVE STATION "CWCSY" | SIX STATION "CWCSY"

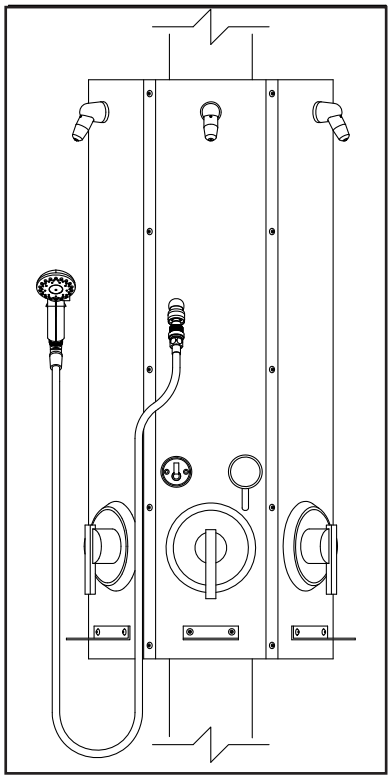
◀ INDICATES THE NUMBER ONE SHOWER STATION. ACCESS OPENING AND IDENTIFICATION NOTCH ON DRAIN ARE LOCATED ON THE VERTICAL CENTERLINE OF THE NUMBER ONE STATION. COUNT CLOCKWISE TO IDENTIFY OTHER STATIONS.

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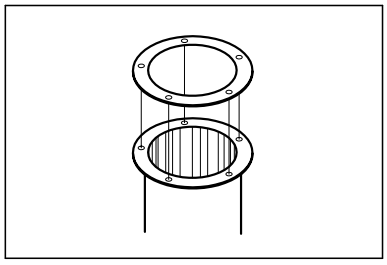
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COLUMN SHOWER OPTIONS (CONT.)

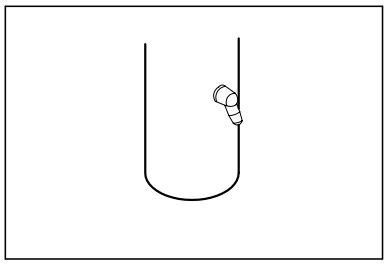


"HCA" HANDICAP ACCESSIBLE COLUMN SHOWER STATION (OPTION ADDS ONE ACCESSIBLE STATION PER COLUMN)

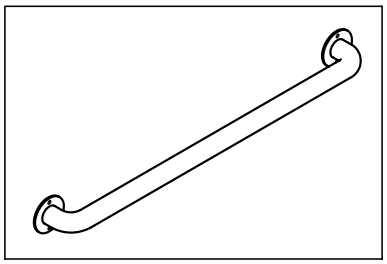
(INCLUDES ELONGATED SHOWER PANELS TO ACCOMMODATE (2) SHOWER HEADS (MOUNTED AT 48" AFF AND 72" AFF), VALVING, AND FEATURES INTENDED TO MEET MOST, BUT NOT ALL, ADA REQUIREMENTS)



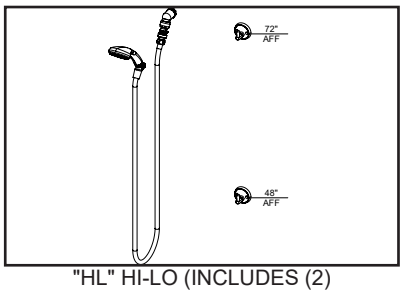
"CA" CEILING ANCHOR PLATE FOR SUPPLY COVER ANCHORING HARDWARE BY OTHERS



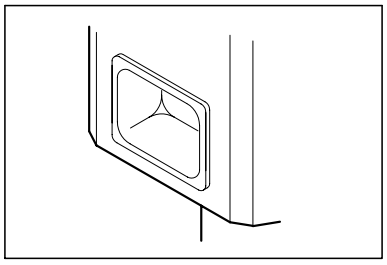
"FS" FOOT SHOWER AT ONE STATION



"GB" GRAB BAR (SPECIFY DIMENSIONS)



"HL" HI-LO (INCLUDES (2) FLEXSHOWER HOOKS



"RD" RECESSED SOAP DISH

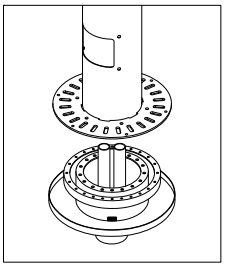
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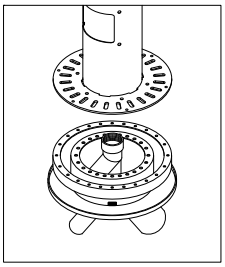
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COLUMN SHOWER OPTIONS (CONT.)

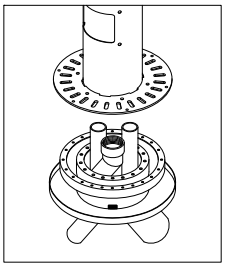
SUPPLY AND DRAIN TYPE



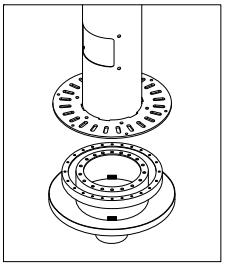
"A" SUPPLIES BELOW / VENT OFF LINE



"B" SUPPLIES ABOVE / VENT THRU COLUMN

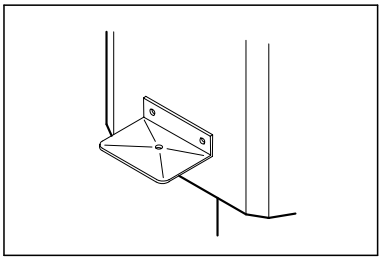


"C" SUPPLIES BELOW / VENT THRU COLUMN

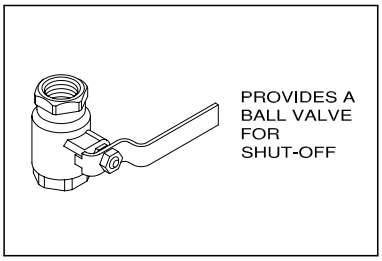


"D" SUPPLIES ABOVE / VENT OFF LINE

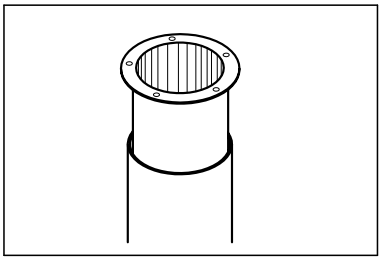
OTHER OPTIONS



"SD" SURFACE MOUNTED SOAP DISH



"USV" UNIT SHUT-OFF VALVE



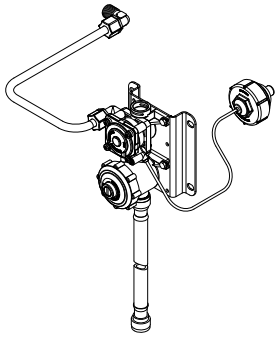
"TSH" TELESCOPING PIPE SHROUD (SPECIFY CEILING HEIGHT)

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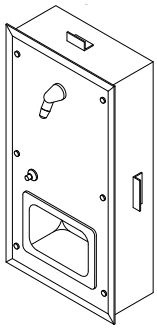
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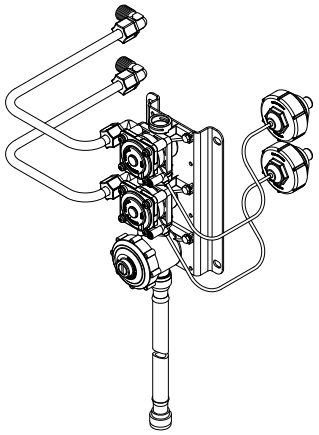
SHOWER VALVE MANIFOLDING OPTION



SINGLE VALVE
-NO SUFFIX (1 FIXTURE)

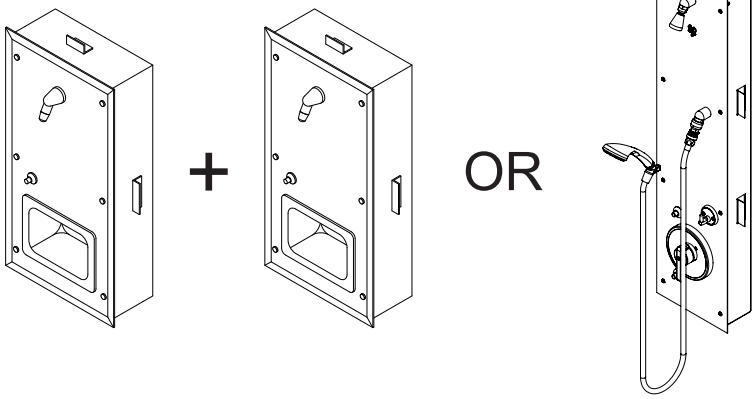
Used for (1) Single shower head fixture:





DUAL MANIFOLD VALVE
-(MA2) (2 FIXTURES)

Used for (2) Single shower head fixtures (Single Temp.) OR (1) Dual shower head fixture (Single Temp.):



VALVE MANIFOLDING

"MANIFOLDING"
Willoughby suffix (MA2) allows for the operation of two shower valve assemblies, either (2) single shower head fixtures or (1) two shower head fixture from a common pair of Hot/Cold supply lines.

PRIMARY ADVANTAGES

- Reduces installation costs, labor, and materials

- Easier access for maintenance

- Adds flexibility and simplicity to your shower design needs

To specify: add suffix (MA2) to the selected valve model number. If manifolding (2) single shower head fixtures, be sure to specify this to your sales representative when placing your order.

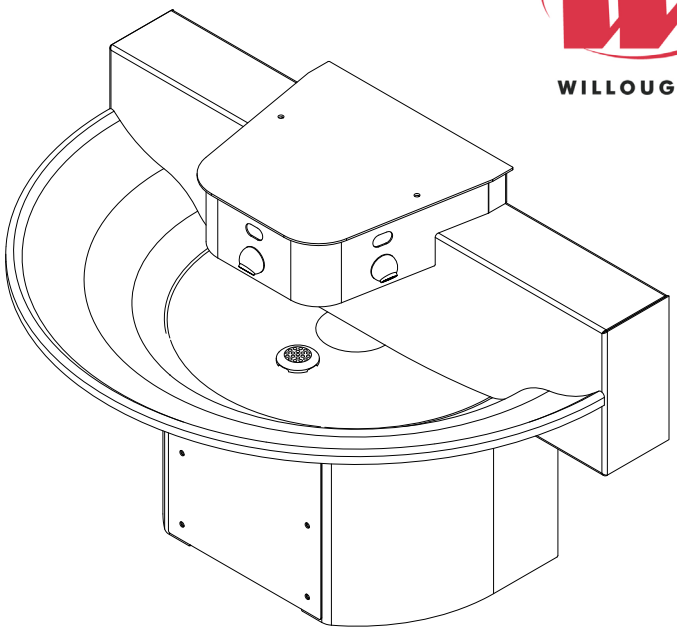
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Willoughby Industries - *Commercial Ware*

WWF-3603
Three Station
Half Round
36" Stainless Steel
Deep Bowl Washfountain



IN COMPLIANCE
WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify a 3 Station Half Round 36" Stainless Steel, Deep Bowl Washfountain with standard wall mounting (34" rim height) and hard-wired infrared sensors

Use the following Willoughby Model Number:
WWF-3603-WALL-IR

Recommended Specifications

Half Round 36" Stainless Steel, Deep Bowl Washfountain shall be: Willoughby Model No. **WWF-3603**
(select from model number and options list on next page)

Washfountain shall accommodate from 1 to 3 users simultaneously for the 3 station. Washfountain bowl is constructed of **12 GA. stainless steel.** Pedestal and water distribution head shall be constructed of heavy gauge, Type 304 stainless steel. Head cover is constructed of Aquasurf® solid surface material (Grey Granite color). Exposed stainless steel surfaces shall be polished to a #3 satin finish.

The push buttons and water spray nozzles shall be machined Type 303 stainless steel. Drain grate shall be constructed of heavy gauge stainless steel. The sprayhead module shall be equipped with independent spray nozzles; each controlled by a separate push button or infrared sensor. Flow restrictor shall maintain flow rates at 0.5 GPM per station.

All washfountains shall be supplied with thermostatic mixing valves, checkstops and strainers, drain spud, flexible supply hoses, control valves, color coded water lines and Class II, 120/24 VAC plug-in transformer (as needed)*. Operating supply water pressure range is 25-80 PSI.

Vandal resistance:
All spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the sprayhead. Valves, water supplies and waste connections are concealed within the pedestal. Removable access panels are secured with vandal resistant security Torx screws. Unit is shipped pre-assembled.

ADA, TAS, and ANSI Compliant:
When the washfountain is mounted at the standard 34" adult rim height it is designed to comply with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

This excludes Floor Mounted (FLR) and Floor Mounted Foot Operated (FO) models.

Optional Features:
Willoughby washfountains offer liquid soap dispensers and a stainless steel head cover as optional accessories. Willoughby washfountains can be ordered with 31" rim heights for juvenile use (JR). A wall mounted stainless steel kick plate (KPWF) is available for wall-mounted pedestals w/ floor-based rough-ins.

* *Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.*

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ WWF-3603 3 Station Half Round 36" Stainless Steel, Deep Bowl Washfountain

2.) Pedestal Mounting:

❑ WALL Wall Mounted (Standard)
❑ FLR Floor Mounted (Not ADA Compliant)

3.) Junior Height Option:

❑ JR Junior Height (31" Rim Height, not ADA Compliant)

4.) Valve Actuation:

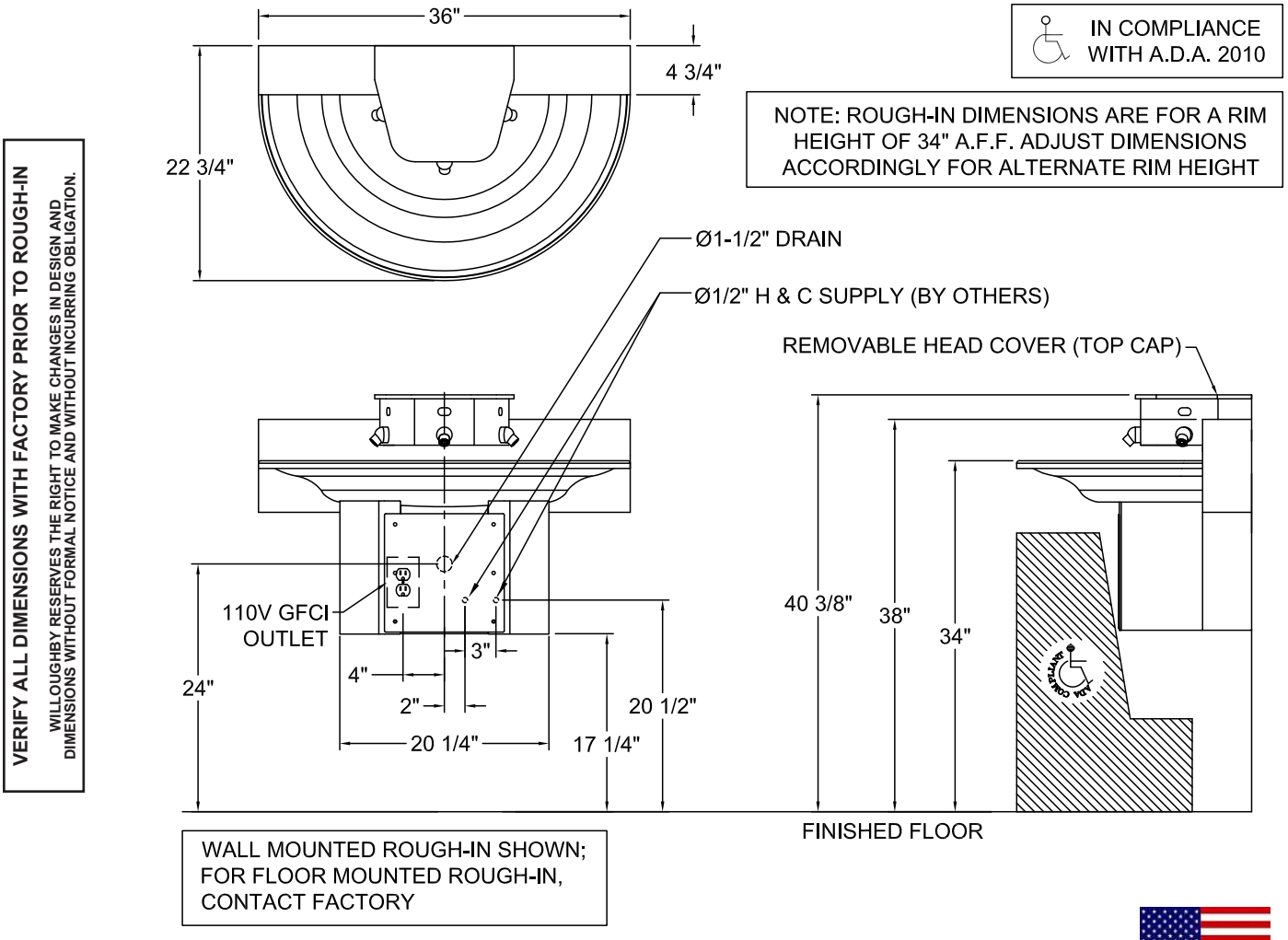
❑ PPB1 Standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering Valves
❑ PZPB1 Piezo Electronic Push Buttons for Single Temperature Electronic Valves (w/ Pneutronic Control)*
❑ IR Infrared Sensors, Hard-wired*
❑ BO Infrared Sensors, Battery Operated
❑ FO Foot Operated Pneumatic Push Buttons (Not ADA Compliant, Requires FLR Floor Mounted Pedestal)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

5.) Other Options:

❑ LSD Liquid Soap Dispensers (2)
❑ TL Less In-line Thermostatic Mixing Valve
❑ SSC Stainless Steel Head Cover (Top Cap)
❑ KPWF Wall Mounted Stainless Steel Kick Plate (For wall-mounted pedestal only)
❑ LSH 1.5 gpm Laminar Flow Sprayheads
❑ Other _____
❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____



VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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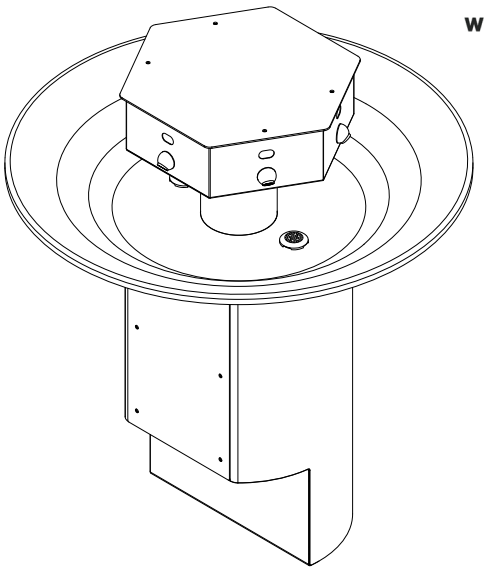
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Willoughby Industries - *Commercial Ware*

WWF-3606
Six Station
Full Round
36" Stainless Steel
Deep Bowl Washfountain



IN COMPLIANCE
WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify a 6 Station Full Round, 36" Stainless Steel, Deep Bowl Washfountain with standard floor mounting (34" rim height), hard-wired infrared sensors, and supplies from below

Use the following Willoughby Model Number:
WWF-3606-FLR-IR-SB

Recommended Specifications

Full Round, 36" Stainless Steel, Deep Bowl Washfountain shall be: Willoughby Model No. **WWF-3606**
(select from model number and options list on next page)

Washfountain shall accommodate from 1 to 6 users simultaneously. Washfountain bowl is constructed of **12 GA. stainless steel.** Pedestal and water distribution head shall be constructed of heavy gauge, Type 304 stainless steel. Head cover shall be constructed of Aquasurf® solid surface material (Grey Granite color). Exposed stainless steel surfaces shall be polished to a #3 satin finish.

The push buttons and water spray nozzles shall be machined Type 303 stainless steel. Drain grate shall be constructed of heavy gauge stainless steel. The sprayhead module shall be equipped with independent spray nozzles; each controlled by a separate push button or infrared sensor. Flow restrictor shall maintain flow rates at 0.5 GPM per station.

All washfountains shall be supplied with thermostatic mixing valves, checkstops and strainers, drain spud, flexible supply hoses, control valves, color coded water lines and Class II, 120/24 VAC plug-in transformer (as needed)*. Operating supply water pressure range is 25-80 PSI.

Vandal resistance:
All spray nozzles, push buttons, infrared sensors and escutcheons are secured to the unit from within the sprayhead. Valves, water supplies and waste connections are concealed within the pedestal. Removable access panels are secured with vandal resistant security Torx screws. Unit is shipped pre-assembled.

ADA, TAS, and ANSI Compliant:
At the standard 34" adult rim height, one (1) station is designed to comply with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines. The other (5) stations will comply with most, but not all, accessibility guidelines.

This excludes Floor Mounted Foot Operated (FO) models.

Optional Features:
Willoughby washfountains offer liquid soap dispensers and a stainless steel head cover as optional accessories. Willoughby washfountains can be ordered with 31" rim heights for juvenile use (JR) (Junior ADA Compliant).

* *Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.*

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ WWF-3606 6 Station Full Round 36" Stainless Steel, Deep Bowl Washfountain

2.) Pedestal Mounting:

❑ FLR Floor Mounted (Standard)

3.) Junior Height Option:

❑ JR Junior Height (31" Rim Height, JR. ADA Compliant)

4.) Valve Actuation:

❑ PPB1 Standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering Valves

❑ PZPB1 Piezo Electronic Push Buttons for Single Temperature Electronic Valves (w/ Pneutronic Control)*

❑ IR Infrared Sensors, Hard-wired*

❑ BO Infrared Sensors, Battery Operated

❑ FO Foot Operated Pneumatic Push Buttons (Not ADA Compliant)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

5.) Water Supply:

❑ SB Supply From Below (Standard)

❑ SA Supply From Above (**Option** (TSHWF) recommended)

6.) Other Options:

❑ LSD Liquid Soap Dispensers (2)

❑ TL Less In-line Thermostatic Mixing Valve

❑ SSC Stainless Steel Head Cover (Top Cap)

❑ TSHWF Telescoping Washfountain Shroud (For use on (SA) models only)

❑ LSH 1.5 gpm Laminar Flow Sprayheads

❑ Other _____

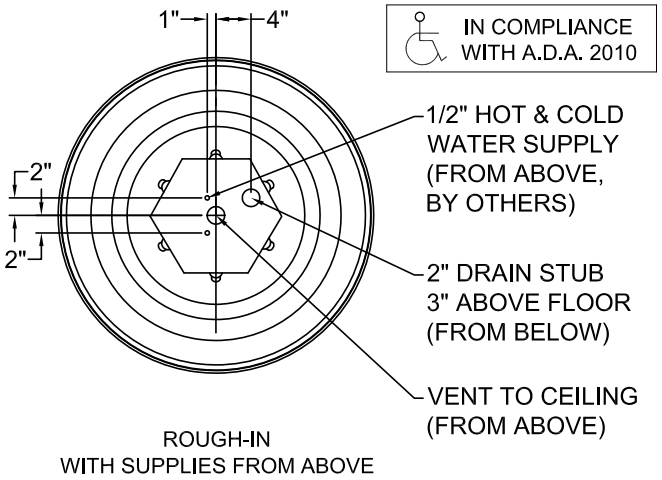
❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____

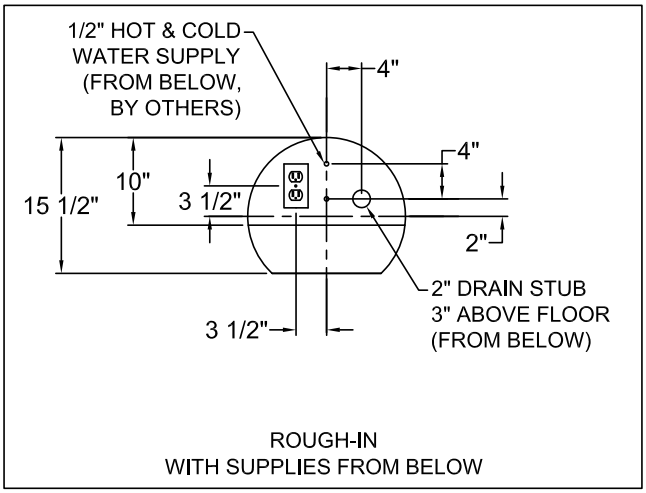
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

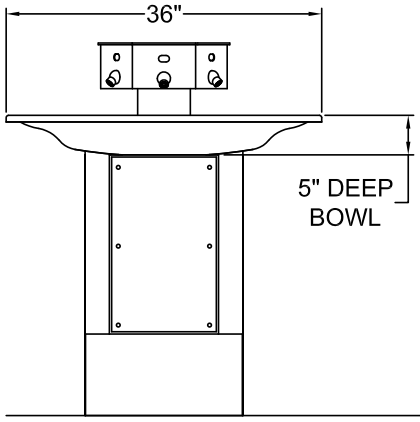
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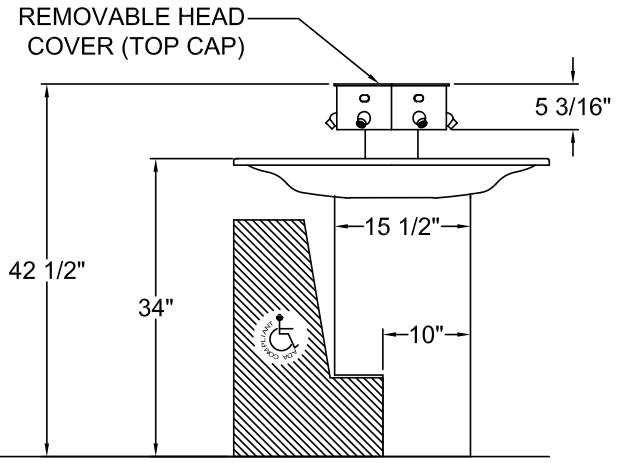


ROUGH-IN
WITH SUPPLIES FROM ABOVE



ROUGH-IN
WITH SUPPLIES FROM BELOW





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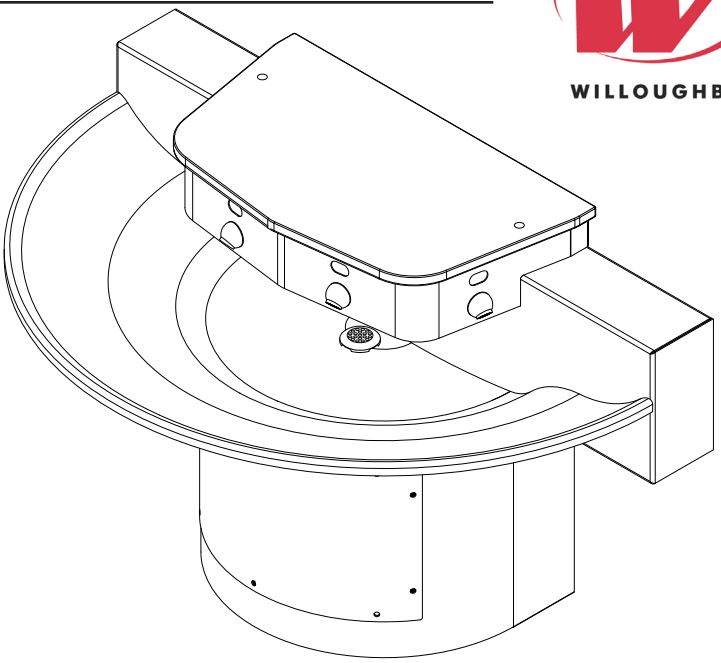
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Willoughby Industries - *Commercial Ware*

WWF-4203/4204
Three and Four Station
Half Round
42" Stainless Steel
Deep Bowl Washfountain



IN COMPLIANCE
WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify a 4 Station Half Round, 42" Stainless Steel, Deep Bowl Washfountain with standard wall mounting (34" rim height) and battery operated infrared sensors

Use the following Willoughby Model Number:
WWF-4204-WALL-BO

Recommended Specifications

Half Round, 42" Stainless Steel, Deep Bowl Washfountain shall be: Willoughby Model No. **WWF-420___**
(select from model number and options list on next page)

Washfountain shall accommodate from 1 to 3 users simultaneously for the 3 station or 1 to 4 users simultaneously for the 4 station. Washfountain bowl is constructed of **12 GA. stainless steel.** Pedestal and water distribution head shall be constructed of heavy gauge, Type 304 stainless steel. Head cover is constructed of Aquasurf® solid surface material (Grey Granite color). Exposed stainless steel surfaces shall be polished to a #3 satin finish.

The push buttons and water spray nozzles shall be machined Type 303 stainless steel. Drain grate shall be constructed of heavy gauge stainless steel. The sprayhead module shall be equipped with independent spray nozzles; each controlled by a separate push button or infrared sensor. Flow restrictor shall maintain flow rates at 0.5 GPM per station.

All washfountains shall be supplied with thermostatic mixing valves, checkstops and strainers, drain spud, flexible supply hoses, control valves, color coded water lines and Class II, 120/24 VAC plug-in transformer (as needed)*. Operating supply water pressure range is 25-80 PSI.

Vandal resistance:
All spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the sprayhead. Valves, water supplies and waste connections are concealed within the pedestal. Removable access panels are secured with vandal resistant security Torx screws. Unit is shipped pre-assembled.

ADA, TAS, and ANSI Compliant:
When the washfountain is mounted at the standard 34" adult rim height, it is designed to comply with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

This excludes Floor Mounted Foot Operated (FO) models.

Optional Features:
Willoughby washfountains offer liquid soap dispensers and a stainless steel head cover as optional accessories. Willoughby washfountains can be ordered with 31" rim heights for juvenile use (JR) (Junior ADA Compliant). A wall mounted stainless steel kick plate (KPWF) is available for wall-mounted pedestals w/ floor-based plumbing rough-ins.

* *Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.*

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

- ❑ WWF-4203 — 3 Station Half Round 42" Stainless Steel, Deep Bowl Washfountain
- ❑ WWF-4204 — 4 Station Half Round 42" Stainless Steel, Deep Bowl Washfountain

2.) Pedestal Mounting:

- ❑ WALL — Wall Mounted (Standard)
- ❑ FLR — Floor Mounted

3.) Junior Height Option:

- ❑ JR — Junior Height (31" Rim Height, Wall Mounted JR. ADA Compliant; Floor Mounted Not ADA Compliant)

4.) Valve Actuation:

- ❑ PPB1 — Standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering Valves
- ❑ PZPB1 — Piezo Electronic Push Buttons for Single Temperature Electronic Valves (w/ Pneutronic Control)*
- ❑ IR — Infrared Sensors, Hard-wired*
- ❑ BO — Infrared Sensors, Battery Operated
- ❑ FO — Foot Operated Pneumatic Push Buttons (Not ADA Compliant, Requires FLR Floor Mounted Pedestal)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

5.) Other Options:

- ❑ LSD — Liquid Soap Dispensers (2)
- ❑ TL — Less In-line Thermostatic Mixing Valve
- ❑ SSC — Stainless Steel Head Cover (Top Cap)
- ❑ KPWF — Wall Mounted Stainless Steel Kick Plate (For wall-mounted pedestal only)
- ❑ LSH — 1.5 gpm Laminar Flow Sprayheads
- ❑ Other _____
- ❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

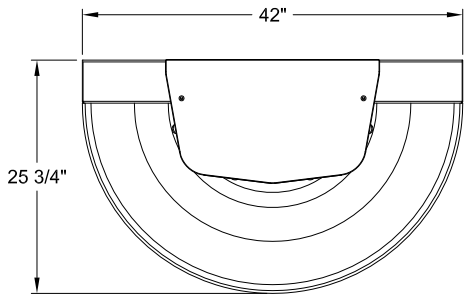
VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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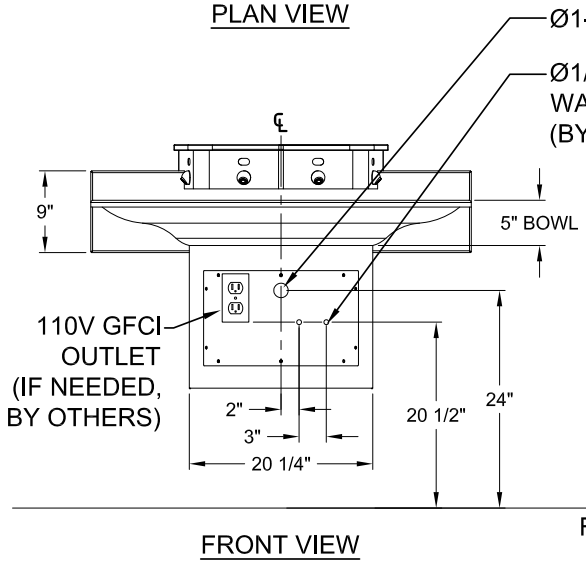
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WALL MOUNTED ROUGH-IN SHOWN; FOR FLOOR MOUNTED ROUGH-IN, CONTACT FACTORY

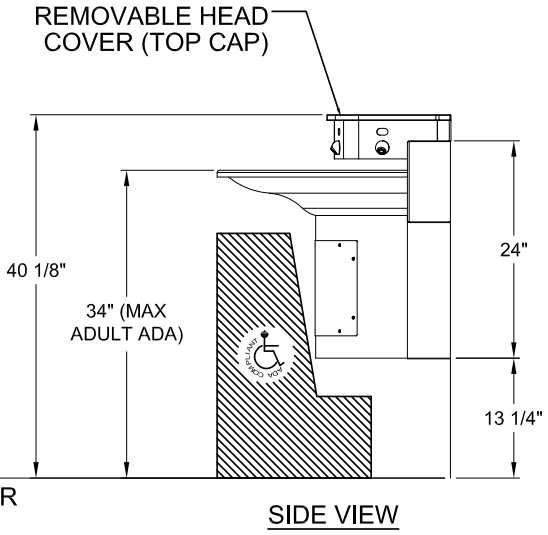
NOTE:
ROUGH-IN DIMENSIONS ARE FOR A RIM HEIGHT OF 34" A.F.F. ADJUST DIMENSIONS ACCORDINGLY FOR ALTERNATE RIM HEIGHT.



PLAN VIEW



FRONT VIEW



SIDE VIEW

FINISHED FLOOR

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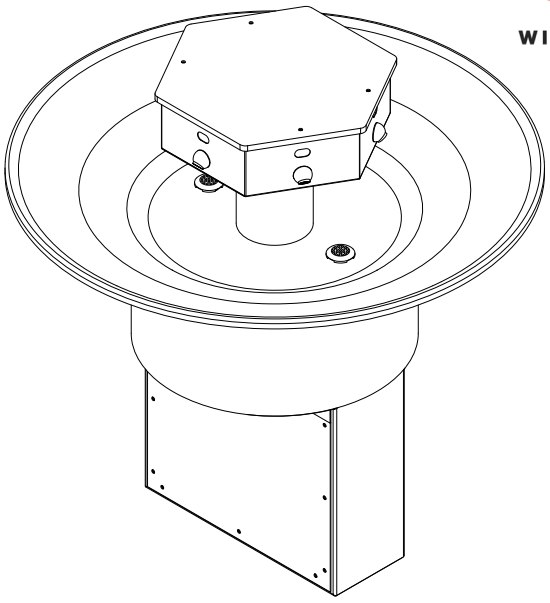
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Willoughby Industries - *Commercial Ware*

WWF-4206
Six Station
Full Round
42" Stainless Steel
Deep Bowl Washfountain



IN COMPLIANCE
WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify a 6 Station Full Round, 42" Stainless Steel, Deep Bowl Washfountain with standard floor mounting (34" rim height), battery operated infrared sensors, and supplies from below

Use the following Willoughby Model Number:
WWF-4206-FLR-BO-SB

Recommended Specifications

Full Round, 42" Stainless Steel, Deep Bowl Washfountain shall be: Willoughby Model No. **WWF-4206**
(select from model number and options list on next page)

Washfountain shall accommodate from 1 to 6 users simultaneously. Washfountain bowl is constructed of **12 GA. stainless steel.** Pedestal and water distribution head shall be constructed of heavy gauge, Type 304 stainless steel. Head cover shall be constructed of Aquasurf® solid surface material (Grey Granite color). Exposed stainless steel surfaces shall be polished to a #3 satin finish.

The push buttons and water spray nozzles shall be machined Type 303 stainless steel. Drain grate shall be constructed of heavy gauge stainless steel. The sprayhead module shall be equipped with independent spray nozzles; each controlled by a separate push button or infrared sensor. Flow restrictor shall maintain flow rates at 0.5 GPM per station.

All washfountains shall be supplied with thermostatic mixing valves, checkstops and strainers, drain spud, flexible supply hoses, control valves, color coded water lines and Class II, 120/24 VAC plug-in transformer (as needed)*. Operating supply water pressure range is 25-80 PSI.

Vandal resistance:
All spray nozzles, push buttons, infrared sensors and escutcheons are secured to the unit from within the sprayhead. Valves, water supplies and waste connections are concealed within the pedestal. Removable access panels are secured with vandal resistant security Torx screws. Unit is shipped pre-assembled.

ADA, TAS, and ANSI Compliant:
At the standard 34" adult rim height, two (2) stations are designed to comply with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines. The other (4) stations will comply with most, but not all, accessibility guidelines.

This excludes Floor Mounted Foot Operated (FO) models.

Optional Features:
Willoughby washfountains offer liquid soap dispensers and a stainless steel head cover as optional accessories. Willoughby washfountains can be ordered with 31" rim heights for juvenile use (JR) (Junior ADA Compliant).

* <u>Note:</u> *Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.*

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:
- ❑ WWF-4206 — 6 Station Full Round 42" Stainless Steel, Deep Bowl Washfountain

2.) Pedestal Mounting:
- ❑ FLR — Floor Mounted (Standard)

3.) Junior Height Option:
- ❑ JR — Junior Height (31" Rim Height, not ADA Compliant)

4.) Valve Actuation:
- ❑ PPB1 — Standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering Valves
- ❑ PZPB1 — Piezo Electronic Push Buttons for Single Temperature Electronic Valves (w/ Pneutronic Control)*
- ❑ IR — Infrared Sensors, Hard-wired*
- ❑ BO — Infrared Sensors, Battery Operated
- ❑ FO — Foot Operated Pneumatic Push Buttons (Not ADA Compliant)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

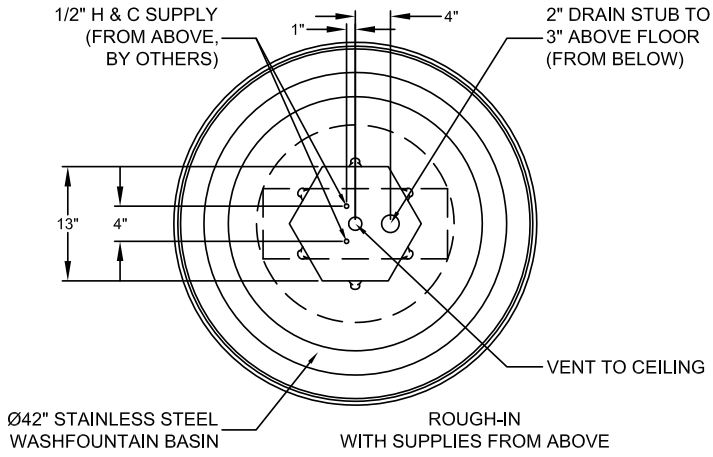
5.) Water Supply:
- ❑ SB — Supply From Below (Standard)
- ❑ SA — Supply From Above (**Option** (TSHWF) recommended)

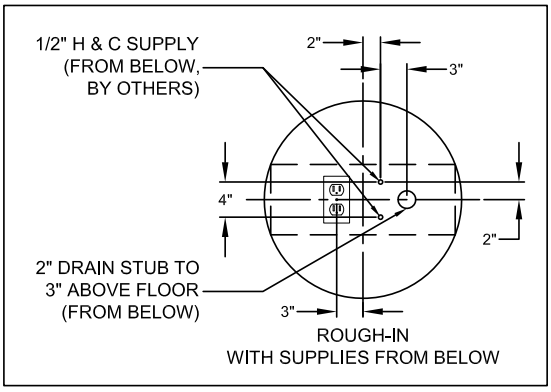
6.) Other Options:
- ❑ LSD — Liquid Soap Dispensers
- ❑ TL — Less In-line Thermostatic Mixing Valve
- ❑ SSC — Stainless Steel Head Cover (Top Cap)
- ❑ TSHWF — Telescoping Washfountain Shroud (For use on (SA) models only)
- ❑ LSH — 1.5 gpm Laminar Flow Sprayheads
- ❑ Other _____
- ❑ Other _____

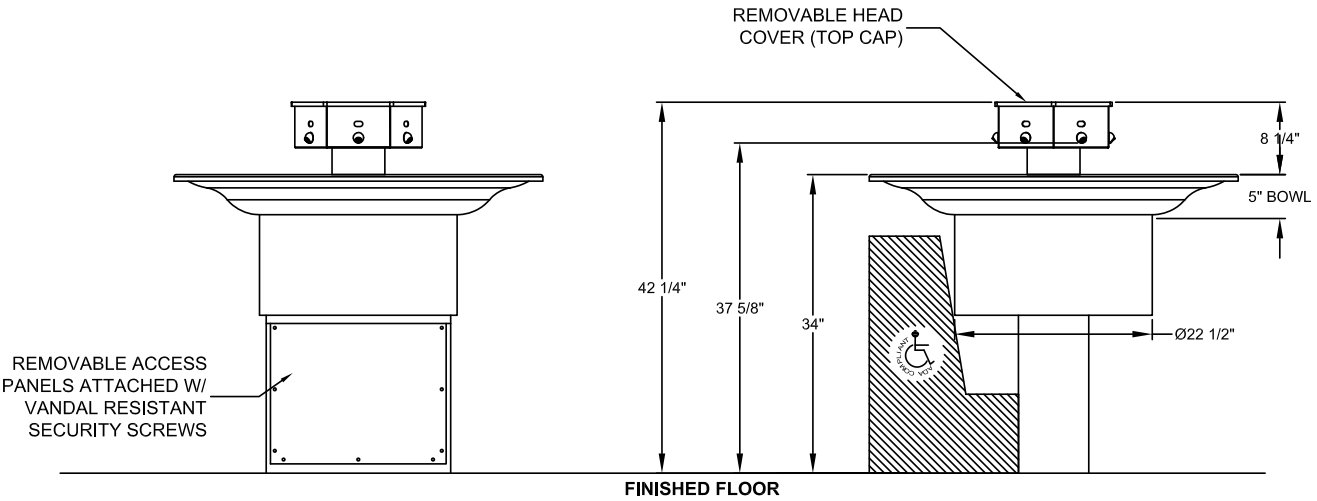
Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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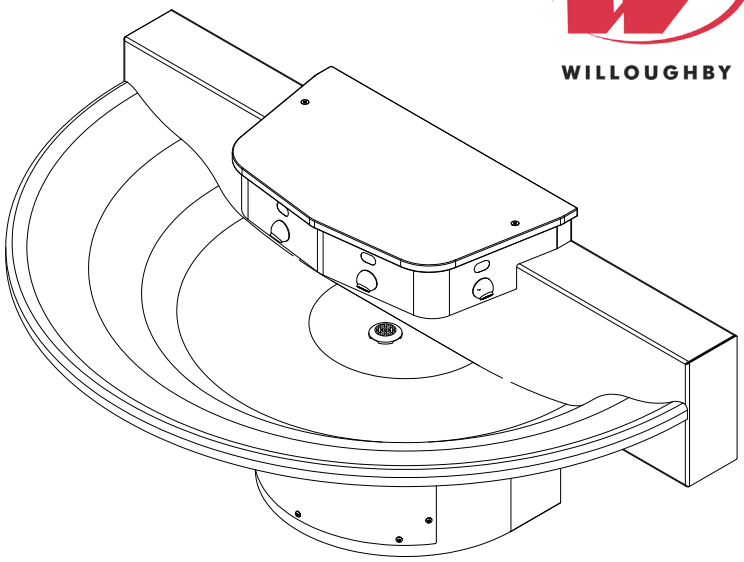
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Willoughby Industries - *Commercial Ware*

WWF-5403/5404
Three and Four Station
Half Round
54" Stainless Steel
Deep Bowl Washfountain



IN COMPLIANCE
WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify a 4 Station Half Round, 54" Stainless Steel, Deep Bowl Washfountain with standard wall mounting (34" rim height) and hard-wired infrared sensors

Use the following Willoughby Model Number:
WWF-5404-WALL-IR

Recommended Specifications

Half Round, 54" Stainless Steel, Deep Bowl Washfountain shall be: Willoughby Model No. **WWF-540___**
(select from model number and options list on next page)

Washfountain shall accommodate from 1 to 3 users simultaneously for the 3 station or 1 to 4 users simultaneously for the 4 station. Washfountain bowl is constructed of **12 GA. stainless steel.** Pedestal and water distribution head shall be constructed of heavy gauge, Type 304 stainless steel. Head cover is constructed of Aquasurf® solid surface material (Grey Granite color). Exposed stainless steel surfaces shall be polished to a #3 satin finish.

The push buttons and water spray nozzles shall be machined Type 303 stainless steel. Drain grate shall be constructed of heavy gauge stainless steel. The sprayhead module shall be equipped with independent spray nozzles; each controlled by a separate push button or infrared sensor. Flow restrictor shall maintain flow rates at 0.5 GPM per station.

All washfountains shall be supplied with thermostatic mixing valves, checkstops and strainers, drain spud, flexible supply hoses, control valves, color coded water lines and Class II, 120/24 VAC plug-in transformer (as needed)*. Operating supply water pressure range is 25-80 PSI.

Vandal resistance:
All spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the sprayhead. Valves, water supplies and waste connections are concealed within the pedestal. Removable access panels are secured with vandal resistant security Torx screws. Unit is shipped pre-assembled.

ADA, TAS, and ANSI Compliant:
When the washfountain is mounted at the standard 34" adult rim height, it is designed to comply with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

This excludes Floor Mounted Foot Operated (FO) models.

Optional Features:
Willoughby washfountains offer liquid soap dispensers and a stainless steel head cover as optional accessories. Willoughby washfountains can be ordered with 31" rim heights for juvenile use (JR) (Junior ADA Compliant). A wall mounted stainless steel kick plate (KPWF) is available for wall-mounted pedestals w/ floor-based plumbing rough-ins.

* *Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.*

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

- ❑ WWF-5403 — 3 Station Half Round 54" Stainless Steel, Deep Bowl Washfountain
- ❑ WWF-5404 — 4 Station Half Round 54" Stainless Steel, Deep Bowl Washfountain

2.) Pedestal Mounting:

- ❑ WALL — Wall Mounted (Standard)
- ❑ FLR — Floor Mounted

3.) Junior Height Option:

- ❑ JR — Junior Height (31" Rim Height, JR. ADA Compliant)

4.) Valve Actuation:

- ❑ PPB1 — Standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering Valves
- ❑ PZPB1 — Piezo Electronic Push Buttons for Single Temperature Electronic Valves (w/ Pneutronic Control)*
- ❑ IR — Infrared Sensors, Hard-wired*
- ❑ BO — Infrared Sensors, Battery Operated
- ❑ FO — Foot Operated Pneumatic Push Buttons (Not ADA Compliant, Requires FLR Floor Mounted Pedestal)

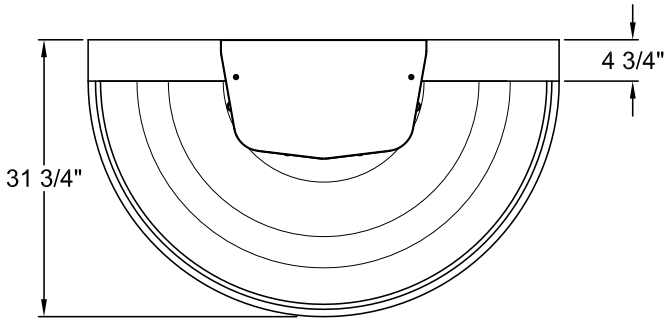
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

5.) Other Options:

- ❑ LSD — Liquid Soap Dispensers (2)
- ❑ TL — Less In-line Thermostatic Mixing Valve
- ❑ SSC — Stainless Steel Head Cover (Top Cap)
- ❑ KPWF — Wall Mounted Stainless Steel Kick Plate (For wall-mounted pedestal only)
- ❑ LSH — 1.5 gpm Laminar Flow Sprayheads
- ❑ Other _____
- ❑ Other _____

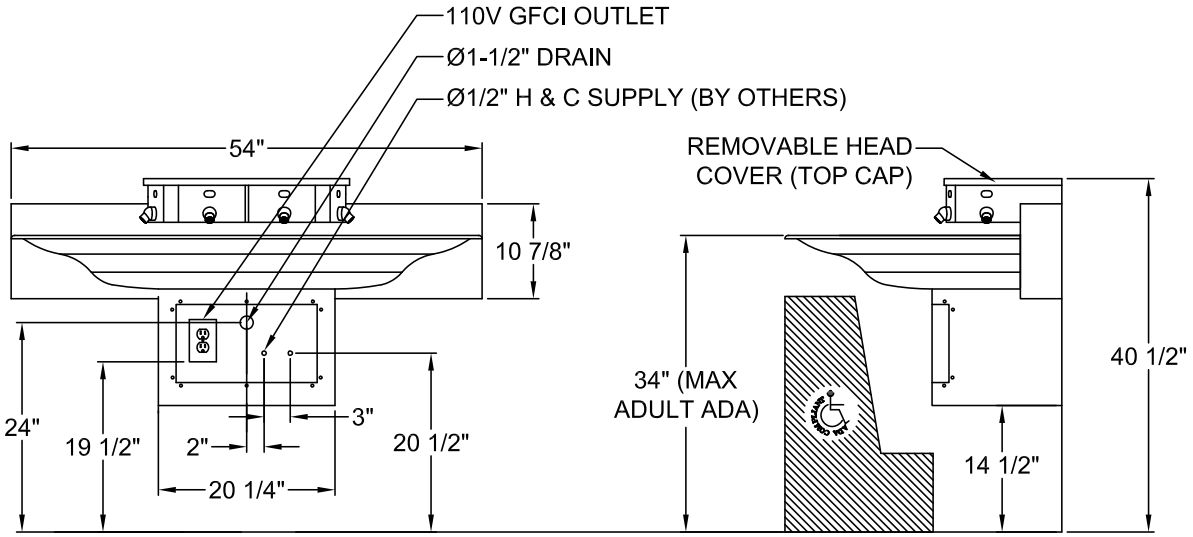
Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____



IN COMPLIANCE WITH A.D.A. 2010

ROUGH-IN DIMENSIONS ARE FOR RIM HEIGHT 34" AFF. ADJUST DIMENSIONS ACCORDINGLY FOR ALTERNATE RIM HEIGHT.



WALL MOUNTED ROUGH-IN SHOWN FOR FLOOR MOUNTED ROUGH-IN CONTACT FACTORY

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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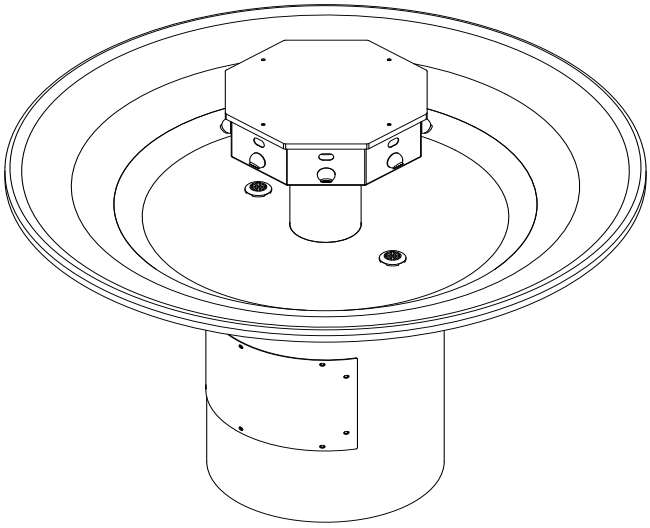
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Willoughby Industries - *Commercial Ware*

WWF-5406/5408
Six and Eight Station
Full Round
54" Stainless Steel
Deep Bowl Washfountain



IN COMPLIANCE
WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify an 8 Station Full Round, 54" Stainless Steel, Deep Bowl Washfountain with standard floor mounting (34" rim height), hard-wired infrared sensors, and supplies from below

Use the following Willoughby Model Number:
WWF-5408-FLR-IR-SB

Recommended Specifications

Full Round, 54" Stainless Steel, Deep Bowl Washfountain shall be: Willoughby Model No. **WWF-540___**
(select from model number and options list on next page)

Washfountain shall accommodate from 1 to 6 users simultaneously for the 6 station or 1 to 8 users simultaneously for the 8 station. Washfountain bowl is constructed of **12 GA. stainless steel.** Pedestal and water distribution head shall be constructed of heavy gauge, Type 304 stainless steel. Head cover shall be constructed of Aquasurf® solid surface material (Grey Granite color). Exposed stainless steel surfaces shall be polished to a #3 satin finish.

The push buttons and water spray nozzles shall be machined Type 303 stainless steel. Drain grate shall be constructed of heavy gauge stainless steel. The sprayhead module shall be equipped with independent spray nozzles; each controlled by a separate push button or infrared sensor. Flow restrictor shall maintain flow rates at 0.5 GPM per station.

All washfountains shall be supplied with thermostatic mixing valves, checkstops and strainers, drain spud, flexible supply hoses, control valves, color coded water lines and Class II, 120/24 VAC plug-in transformers (as needed)*. Operating supply water pressure range is 25-80 PSI.

Vandal resistance:
All spray nozzles, push buttons, infrared sensors and escutcheons are secured to the unit from within the sprayhead. Valves, water supplies and waste connections are concealed within the pedestal. Removable access panels are secured with vandal resistant security Torx screws. Unit is shipped pre-assembled.

ADA, TAS, and ANSI Compliant:
At the standard 34" adult rim height, all stations are designed to comply with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

This excludes Floor Mounted Foot Operated (FO) models.

Optional Features:
Willoughby washfountains offer liquid soap dispensers and a stainless steel head cover as optional accessories. Willoughby washfountains can be ordered with 31" rim heights for juvenile use (JR) (Junior ADA Compliant).

* *Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.*

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

- ❑ WWF-5406 — 6 Station Full Round 54" Stainless Steel, Deep Bowl Washfountain
- ❑ WWF-5408 — 8 Station Full Round 54" Stainless Steel, Deep Bowl Washfountain

2.) Pedestal Type:

- ❑ FLR — Floor Mounted (Standard)

3.) Junior Height Option:

- ❑ JR — Junior Height (31" Rim Height, JR. ADA Compliant)

4.) Valve Actuation:

- ❑ PPB1 — Standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering Valves
- ❑ PZPB1 — Piezo Electronic Push Buttons for Single Temperature Electronic Valves (w/ Pneutronic Control)*
- ❑ IR — Infrared Sensors, Hard-wired*
- ❑ BO — Infrared Sensors, Battery Operated
- ❑ FO — Foot Operated Pneumatic Push Buttons (Not ADA Compliant)

*(Req. 110V power through ground fault interrupter (GFCI) receptacles)

5.) Water Supply:

- ❑ SB — Supply From Below (Standard)
- ❑ SA — Supply From Above (**Option** (TSHWF) recommended)

6.) Other Options:

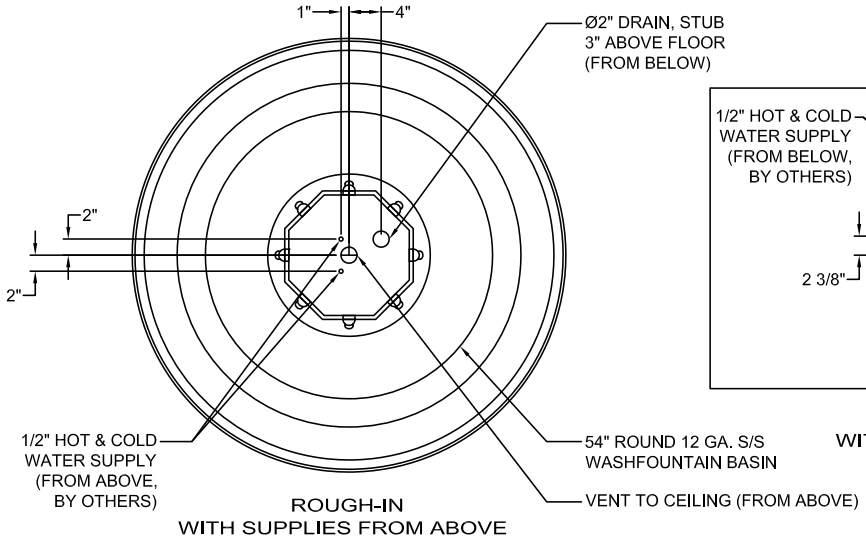
- ❑ LSD — Liquid Soap Dispensers (2)
- ❑ TL — Less In-line Thermostatic Mixing Valve
- ❑ SSC — Stainless Steel Head Cover (Top Cap)
- ❑ TSHWF — Telescoping Washfountain Shroud (For use on (SA) models only)
- ❑ LSH — 1.5 gpm Laminar Flow Sprayheads
- ❑ Other _____
- ❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

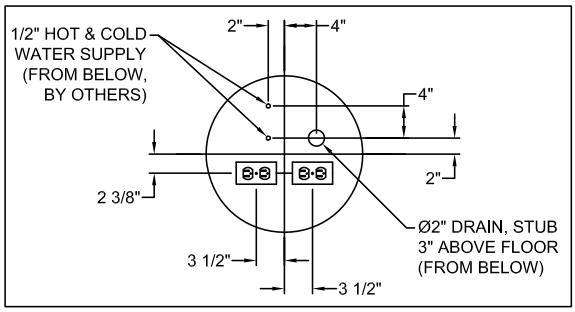
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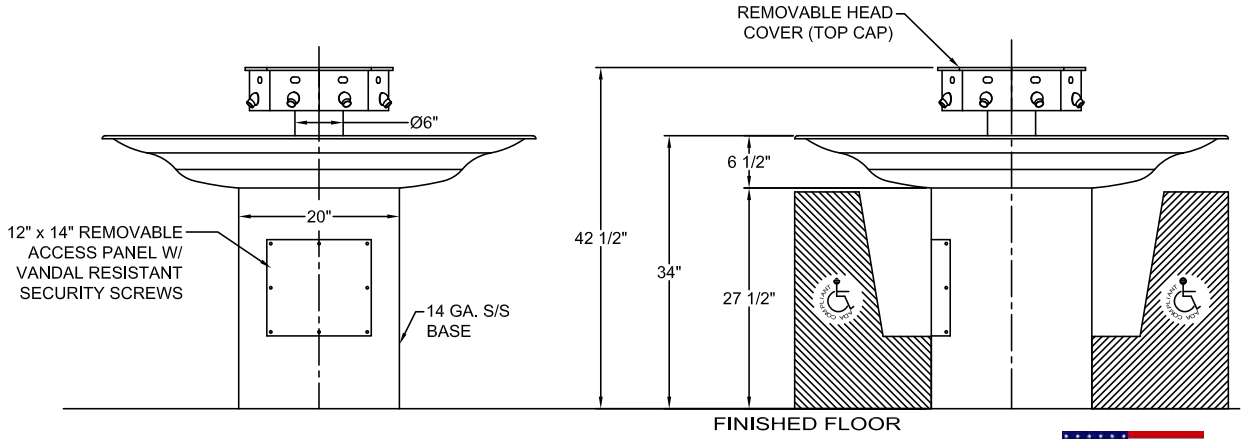


ROUGH-IN
WITH SUPPLIES FROM ABOVE

IN COMPLIANCE WITH A.D.A. 2010



ROUGH-IN
WITH SUPPLIES FROM BELOW



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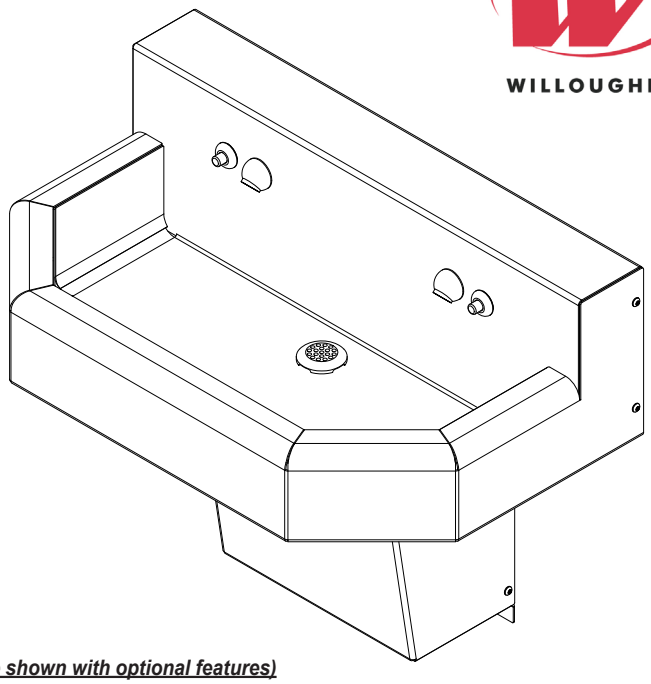
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Willoughby Industries - *Commercial Ware*

CEL-2817-2 / 4818-3 Multi-station Stainless Steel Lavatory



IN COMPLIANCE WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Multi-station, Stainless Steel Lavatory with 2 stations, and hard-wired infrared sensors

Use the following Willoughby Model Number: **CEL-2817-2-IR**

Recommended Specifications

Multi-station, Stainless Steel Lavatory shall be:
Willoughby Model No. **CEL-___**
(select from model number and options list on next page)

Lavatory shall accommodate from 1 to 2 users simultaneously for the 2 station or 1 to 3 users simultaneously for the 3 station. Fixture shall be fabricated from 14 GA, Type 304 stainless steel. The construction is all welded (excluding removable stainless steel shroud), with exposed stainless steel surfaces polished to a #3 satin finish.

Standard lavatory shall include:
- Integrally welded 4-1/2" deep lavatory basin
- Stainless steel spray nozzles with 0.5 GPM flow restrictors
- Machined stainless steel drain w/ tailpiece
- Stainless steel trap enclosure/pipe shroud

All lavatories shall be supplied with thermostatic mixing valves, checkstops and strainers, flexible supply hoses, control valves, color coded water lines and Class II, 120/24 VAC plug-in transformers (as needed)*.

Vandal resistance:
All spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the sprayhead. Valves, water supplies and waste connections are concealed within the pedestal. Removable access panels are secured with vandal resistant security Torx screws. Unit is shipped pre-assembled.

Mounting:
Anchoring shall be from the front with 'z' clip and anchoring holes provided. Anchoring hardware by others. Wall requires adequate backing to support lavatory. Unit requires no chase area for installation and maintenance.

ADA, TAS, and ANSI Compliant:
When the lavatory is mounted at the standard 34" adult rim height, it complies with applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines. Lavatory can be ordered with 31" rim height for juvenile use (JR).

* *Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.*

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

- ❑ CEL-2817-2 CEL-Series 2 Station Lavatory, 28" Width
- ❑ CEL-4818-3 CEL-Series 3 Station Lavatory, 48" Width

2.) Junior Height Option:

- ❑ JR Junior Height (31" Rim Height, JR. ADA Compliant)

3.) Valve Actuation:

- ❑ PPB1 Standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering Valves
- ❑ PZPB1 Piezo Electronic Push Buttons for Single Temperature Electronic Valves (w/ Pneutronic Control)*
- ❑ IR Infrared Sensors, Hard-wired*
- ❑ BO Infrared Sensors, Battery Operated

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

4.) Other Options:

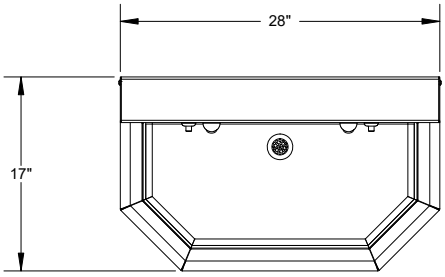
- ❑ TL Less In-line Thermostatic Mixing Valve
- ❑ LE Less Trap Enclosure
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ LSH 1.5 gpm Laminar Flow Sprayheads
- ❑ Other _____
- ❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____

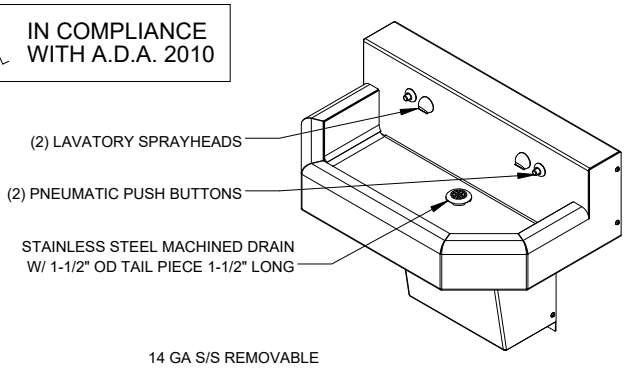
Wall Thickness: _____ Wall Type: _____

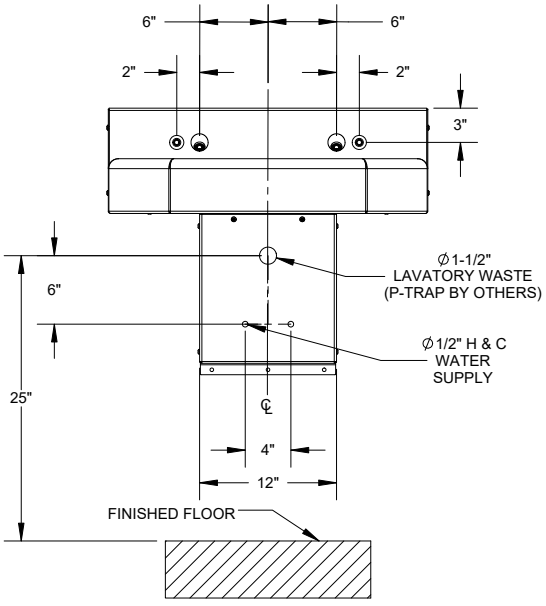
VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

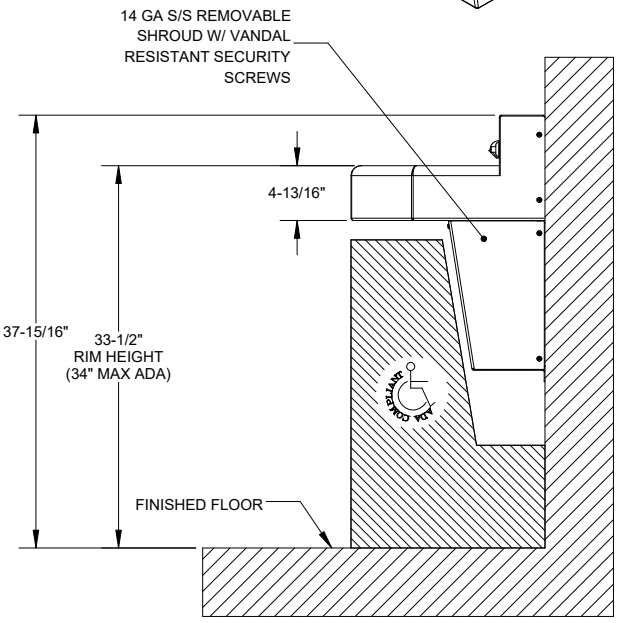
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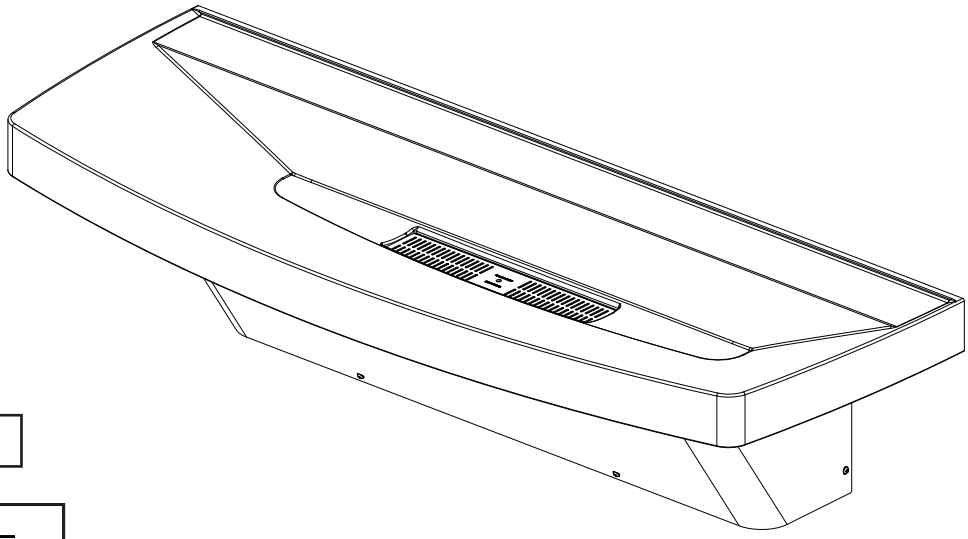
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Willoughby Industries - *Commercial Products*

WELS-2260
Envy Series
Two Station
Solid Surface
Lavatory System



PATENTED: D803,996 S

IN COMPLIANCE
WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an Envy Series Two Station Solid Surface Lavatory System with standard wall mounting (34" rim height), two sets of 1" Center Shank faucet holes, in White Granite color

Use the following Willoughby Model Number:
WELS-2260-WALL-1CC-WG

Recommended Specifications

Envy Series Two Station Solid Surface Lavatory System shall be:
Willoughby Model No. **WELS-2260**
(select from model number and options list on next page)

Envy Two Station Solid Surface Lavatory System shall accommodate 1 to 2 users simultaneously. The single-piece lavatory bowl is constructed of Aquasurf® molded cast polymer densified solid surface material, composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, and mineral fillers.

Wall-mounted pedestal shall be fabricated entirely from T304 stainless steel, and will feature a removable shroud access panel for ease of fixture installation and maintenance. Included drain grate shall be constructed of heavy gauge stainless steel, and will secure directly to the drain assembly. All exposed stainless steel surfaces shall be polished to a #4 satin finish.

Vandal resistance:
Valves (by others), water supplies, and waste connections are concealed within the pedestal. Removable stainless steel access panel is secured with vandal-resistant security screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA and ANSI Compliant:
The lavatory is designed to comply with all applicable ADA and ANSI Z124.3 and Z124.6 accessibility guidelines, whether mounted at standard adult rim height (34" Max A.F.F.) or (JR) junior height (31" Max A.F.F.)

Optional Features:
Envy Lavatory Systems offer a wall mounted stainless steel kick plate (KPWV) for installations with floor-based plumbing rough-ins.

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MODEL NUMBER AND OPTIONS:

1.) Washfountain Model:
❑ WELS-2260 Envy Series Two Station Solid Surface Lavatory System

2.) Pedestal Type:
❑ WALL Wall Mounted, Low-profile, All-Stainless Steel Shroud (Standard)

3.) Junior Height Option:
❑ JR Junior Height (31" Rim Height, JR. ADA Compliant)

4.) Faucet Drilling:
❑ NV No Valve, No Faucet Holes (Standard)
❑ 4CC Set of 4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
❑ 8CC Set of 8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
❑ 1CC Center Shank, (1) Ø1-1/4" Hole
❑ SP Special Drilling (Specify hole diameter and dimensions)
SP: _____

5.) Solid Surface Colors:
❑ BN Bone
❑ GW Glacier White
❑ GG Grey Granite
❑ SS Sandstone
❑ WG White Granite
❑ BG Black Granite
❑ NB Nocturnal Blue
❑ RC Red Coral
❑ SG Sea Green

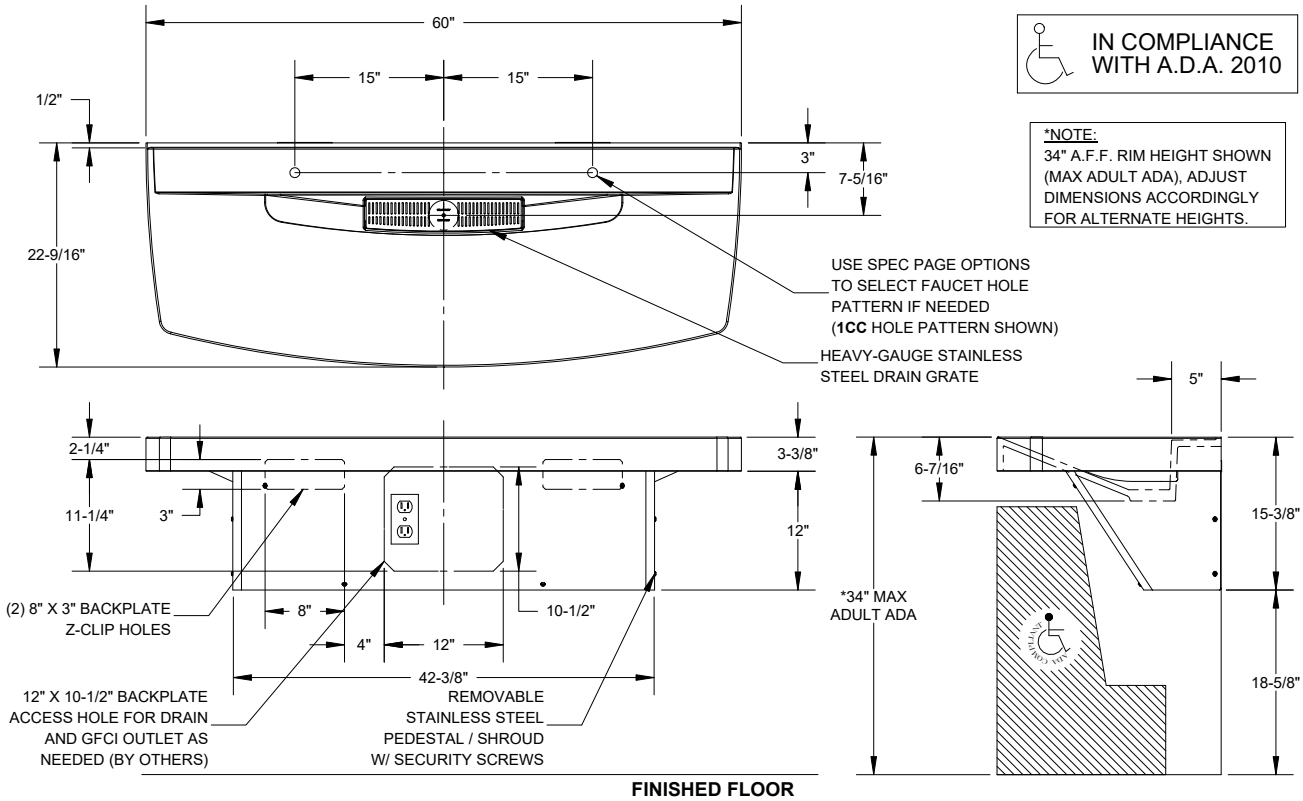
6.) Other Options:
❑ KPWV Wall Mounted Stainless Steel Kick Plate
❑ Other _____
❑ Other _____

PATENTED: D803,996 S

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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*NOTE:
34" A.F.F. RIM HEIGHT SHOWN (MAX ADULT ADA), ADJUST DIMENSIONS ACCORDINGLY FOR ALTERNATE HEIGHTS.

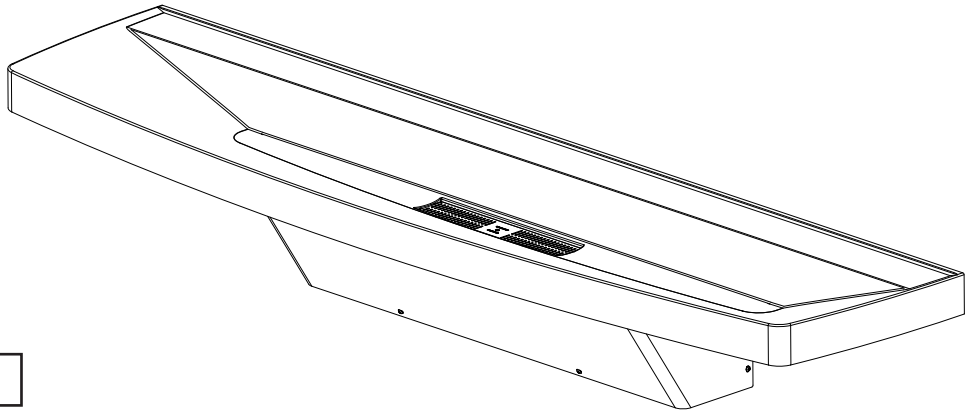
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Willoughby Industries - *Commercial Products*

WELS-2290
Envy Series
Three Station
Solid Surface
Lavatory System



PATENTED: D809,634 S

IN COMPLIANCE
WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an Envy Series Three Station Solid Surface Lavatory System with standard wall mounting (34" rim height), three sets of 1" Center Shank faucet holes, in Sandstone color

Use the following Willoughby Model Number:
WELS-2290-WALL-1CC-SS

Recommended Specifications

Envy Series Three Station Solid Surface Lavatory System shall be: Willoughby Model No. **WELS-2290**
(select from model number and options list on next page)

Envy Three Station Solid Surface Lavatory System shall accommodate 1 to 3 users simultaneously. The single-piece lavatory bowl is constructed of Aquasurf® molded cast polymer densified solid surface material, composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate, and mineral fillers.

Wall-mounted pedestal shall be fabricated entirely from T304 stainless steel, and will feature a removable shroud access panel for ease of fixture installation and maintenance. Included drain grate shall be constructed of heavy gauge stainless steel, and will secure directly to the drain assembly. All exposed stainless steel surfaces shall be polished to a #4 satin finish.

Vandal resistance:
Valves (by others), water supplies, and waste connections are concealed within the pedestal. Removable stainless steel access panel is secured with vandal-resistant security screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA and ANSI Compliant:
The lavatory is designed to comply with all applicable ADA and ANSI Z124.3 and Z124.6 accessibility guidelines, whether mounted at standard adult rim height (34" Max A.F.F.) or (JR) junior height (31" Max A.F.F.)

Optional Features:
Envy Lavatory Systems offer a wall mounted stainless steel kick plate (KPWV) for installations with floor-based plumbing rough-ins.

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MODEL NUMBER AND OPTIONS:

1.) Washfountain Model:
❑ WELS-2290 Envy Series Three Station Solid Surface Lavatory System

2.) Pedestal Type:
❑ WALL Wall Mounted, Low-profile, All-Stainless Steel Shroud (Standard)

3.) Junior Height Option:
❑ JR Junior Height (31" Rim Height, JR. ADA Compliant)

4.) Faucet Drilling:
❑ NV No Valve, No Faucet Holes (Standard)
❑ 4CC Set of 4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
❑ 8CC Set of 8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
❑ 1CC Center Shank, (1) Ø1-1/4" Hole
❑ SP Special Drilling (Specify hole diameter and dimensions)
SP: _____

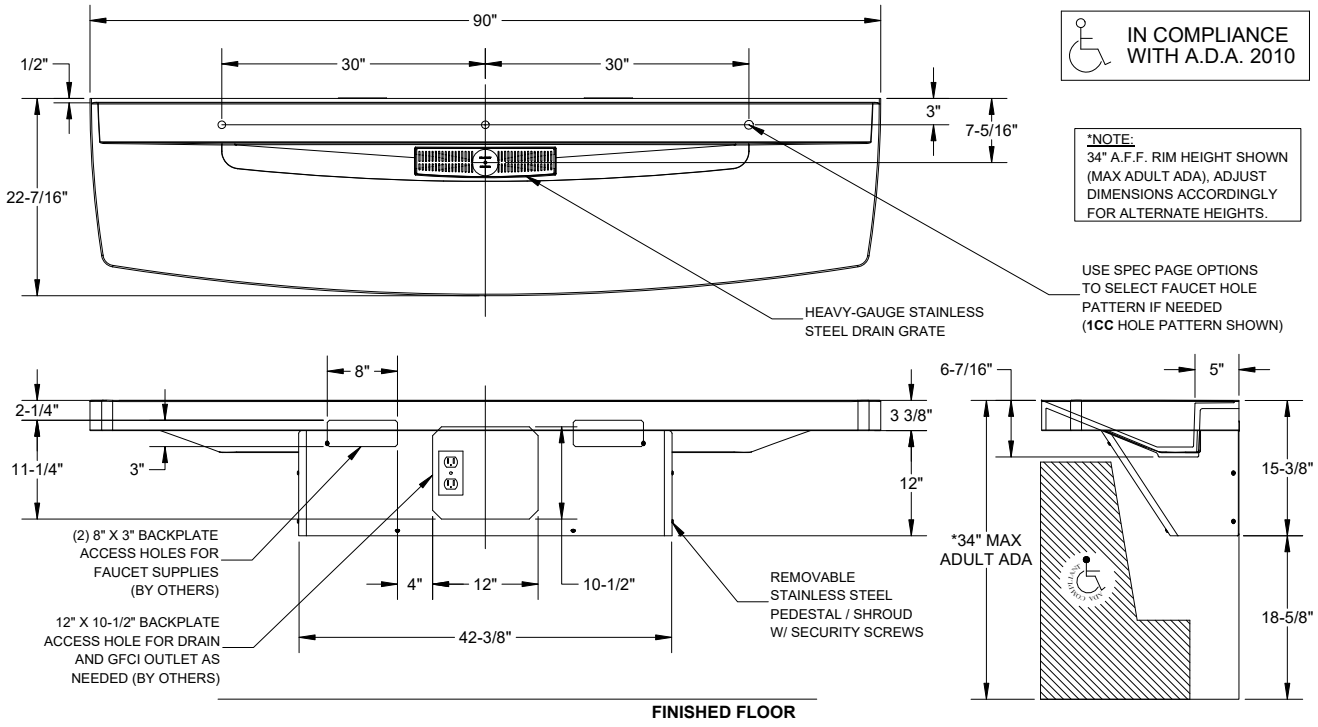
5.) Solid Surface Colors:
❑ BN Bone
❑ GW Glacier White
❑ GG Grey Granite
❑ SS Sandstone
❑ WG White Granite
❑ BG Black Granite
❑ NB Nocturnal Blue
❑ RC Red Coral
❑ SG Sea Green

6.) Other Options:
❑ KPWV Wall Mounted Stainless Steel Kick Plate
❑ Other _____
❑ Other _____

PATENTED: D809,634 S

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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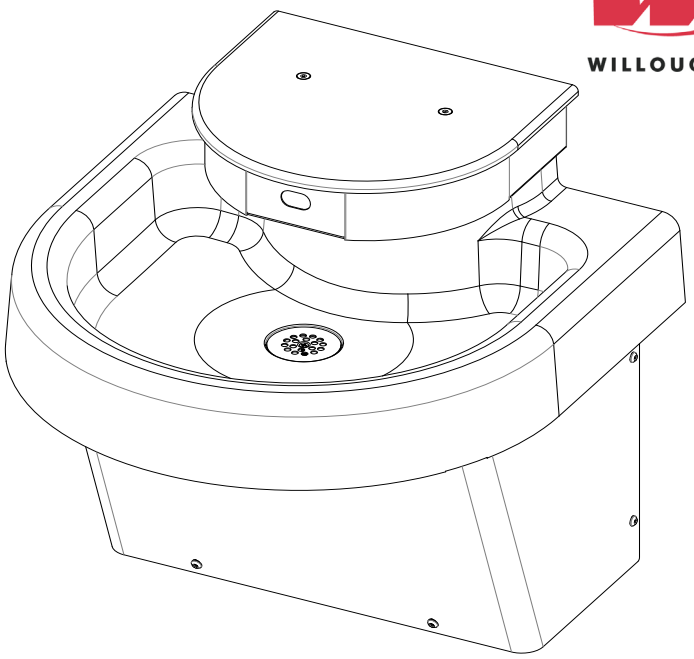
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Willoughby Industries - *Commercial Products*

WAW-2311 AquaWave® Single Station Solid Surface Lavatory System



IN COMPLIANCE WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a single station AquaWave® lavatory with wall mounting, hard-wired infrared sensor actuation, and Bone color

Use the following Willoughby Model Number:
WAW-2311-WALL-IR-BN

Recommended Specifications

AquaWave® Single Station, Solid Surface Lavatory System shall be: Willoughby Model No. **WAW-2311**
(select from model number and options list on next page.

AquaWave® Lavatory System shall accommodate 1 user. The lavatory system bowl, and top are constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate and mineral fillers. The pre-assembled water distribution head and low-profile pedestal base shall be constructed of heavy gauge, Type 304 stainless steel (the pedestal backplate is galvanized). Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Push button and water spray nozzle shall be constructed of type 303 stainless steel. The drain grate shall be constructed of heavy gauge stainless steel. The pre-assembled sprayhead module shall be equipped with independent spray nozzle controlled by a push button or infrared sensor. Flow restrictor shall maintain flow rates at 0.5 GPM per station.

AquaWave® Lavatory Systems shall be supplied with thermostatic mixing valves, integral checkstops, drain spuds, flexible supply hoses, control valves, color coded water lines, and Class II 120/24 VAC plug-in transformers (as needed)*. Operating supply water pressure range is 25-80 PSI.

Vandal resistance:
The spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the head kit. Valves, water supplies, and waste connections are concealed within the pedestal. Removable shroud is secured with vandal-resistant security Torx screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, and ANSI Compliant:
The lavatory is designed is designed to comply with all applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines, whether mounted at standard adult rim height (34" Max AFF) or junior height (31" Max AFF).

Optional Features:
AquaWave® Lavatory Systems offer liquid soap dispensers as optional accessories.

* *Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.*

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MODEL NUMBER AND OPTIONS:

1.) Washfountain Model:

❑ WAW-2311 AquaWave® 1 Station Solid Surface Lavatory System

2.) Pedestal Type:

❑ WALL Wall Mounted, Low-profile, All-Stainless Steel Shroud (Standard)

3.) Valve Actuation:

❑ PPB1 Standard Pneumatic Push Button for Single Temperature Pneumatic Metering

❑ PPB2 Standard Pneumatic Push Buttons for Dual Temperature Pneumatic Metering

❑ PZPB1 Ligature-resistant Piezo Electronic Push Button for Single Temperature Electronic (w/ Pneutronic Control)*

❑ PZPB2 Ligature-resistant Piezo Electronic Push Buttons for Dual Temperature Electronic (w/ Pneutronic Control)*

❑ IR Infrared Sensors, Hard-wired*

❑ BO Infrared Sensors, Battery Operated

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

4.) Solid Surface Colors:

❑ BN Bone

❑ GW Glacier White

❑ GG Grey Granite

❑ SS Sandstone

❑ WG White Granite

❑ BG Black Granite

❑ NB Nocturnal Blue

❑ RC Red Coral

❑ SG Sea Green

5.) Other Options:

❑ LSDM Liquid Soap Dispenser- Deck-mounted Spout and Bottle

❑ TL Less In-line Thermostatic Mixing Valve

❑ LSH 1.5 gpm Laminar Flow Sprayhead

❑ Other _____

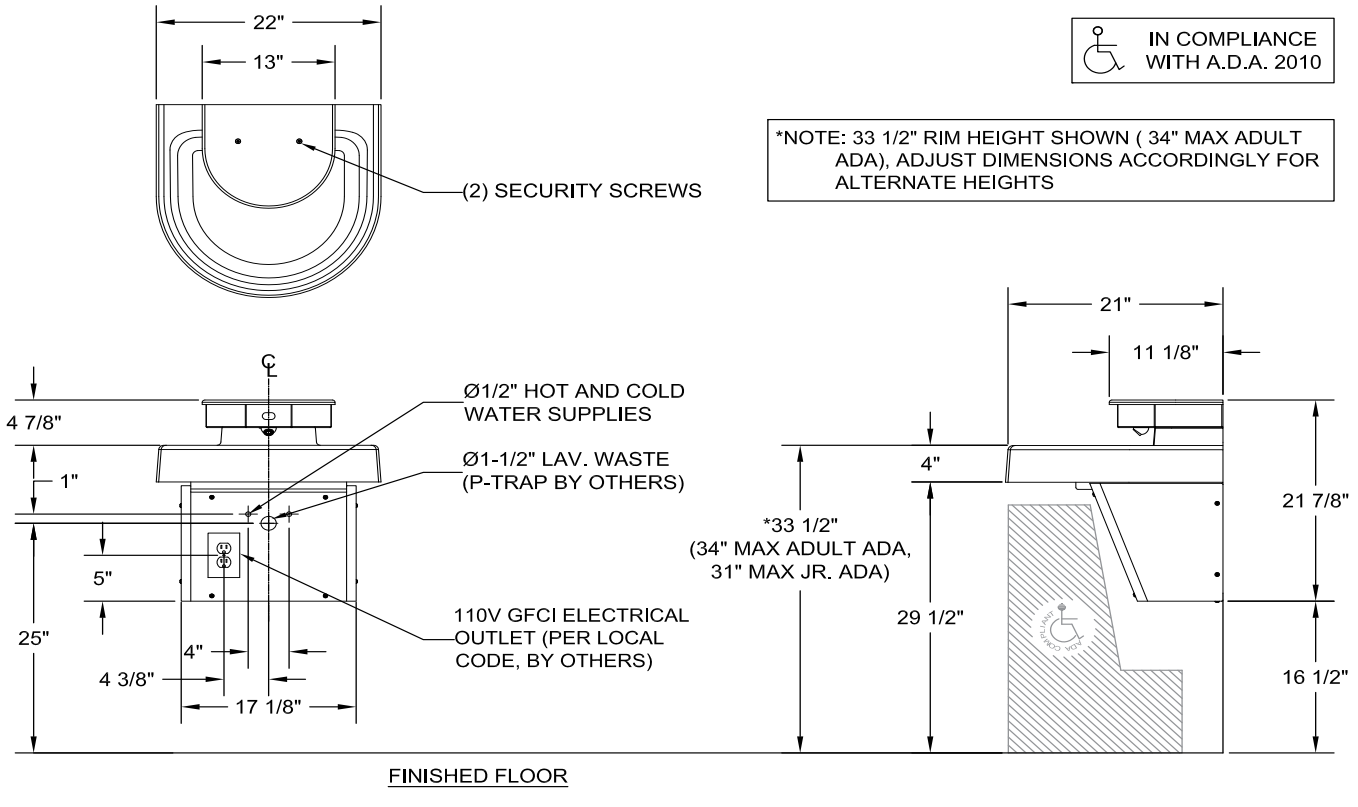
❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

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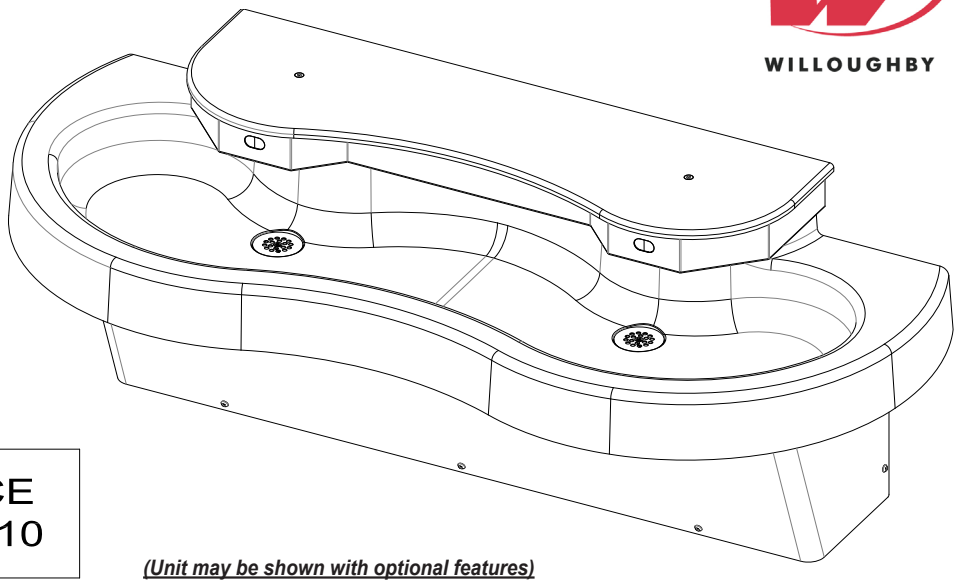
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WAW-2322 AquaWave® Two Station Solid Surface Lavatory System



IN COMPLIANCE WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a two station AquaWave® lavatory with standard wall mounting (34" rim height), hard-wired infrared sensors, Glacier White color, and liquid soap dispenser

Use the following Willoughby Model Number:
WAW-2322-WALL-IR-GW-LSD

Recommended Specifications

AquaWave® Two Station, Solid Surface Lavatory System shall be: Willoughby Model No. **WAW-2322**
(select from model number and options list on next page)

AquaWave® Lavatory System shall accommodate 1-2 users simultaneously. The lavatory system bowl, and top are constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate and mineral fillers. The pre-assembled water distribution head and low-profile pedestal base shall be constructed of heavy gauge, Type 304 stainless steel (the pedestal backplate is galvanized). Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Push buttons and water spray nozzles shall be constructed of type 303 stainless steel. The drain grates shall be constructed of heavy gauge stainless steel. The pre-assembled sprayhead module shall be equipped with independent spray nozzles controlled by push buttons or infrared sensors. Flow restrictors shall maintain flow rates at 0.5 GPM per station.

AquaWave® Lavatory Systems shall be supplied with thermostatic mixing valves, integral checkstops, drain spuds, flexible supply hoses, control valves, color coded water lines, and Class II 120/24 VAC plug-in transformers (as needed)*. Operating supply water pressure range is 25-80 PSI.

Vandal resistance:
The spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the head kit. Valves, water supplies, and waste connections are concealed within the pedestal. Removable shroud is secured with vandal-resistant security Torx screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, and ANSI Compliant:
The lavatory is designed is designed to comply with all applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines, whether mounted at standard adult rim height (34" Max AFF) or (JR) junior height (31" Max AFF).

Optional Features:
AquaWave® Lavatory Systems offer liquid soap dispensers as optional accessories. A wall mounted stainless steel kick plate (KPWF) is available for installations with floor-based plumbing rough-ins.

* *Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.*

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MODEL NUMBER AND OPTIONS:

1.) Washfountain Model:
❑ WAW-2322 AquaWave® 2 Station Solid Surface Lavatory System

2.) Pedestal Type:
❑ WALL Wall Mounted, Low-profile, All-Stainless Steel Shroud (Standard)

3.) Junior Height Option:
❑ JR Junior Height (31" Rim Height, JR. ADA Compliant)

4.) Valve Actuation:
❑ PPB1 Standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering
❑ PZPB1 Ligature-resistant Piezo Electronic Push Buttons for Single Temperature Electronic (w/ Pneutronic Control)*
❑ IR Infrared Sensors, Hard-wired*
❑ BO Infrared Sensors, Battery Operated

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

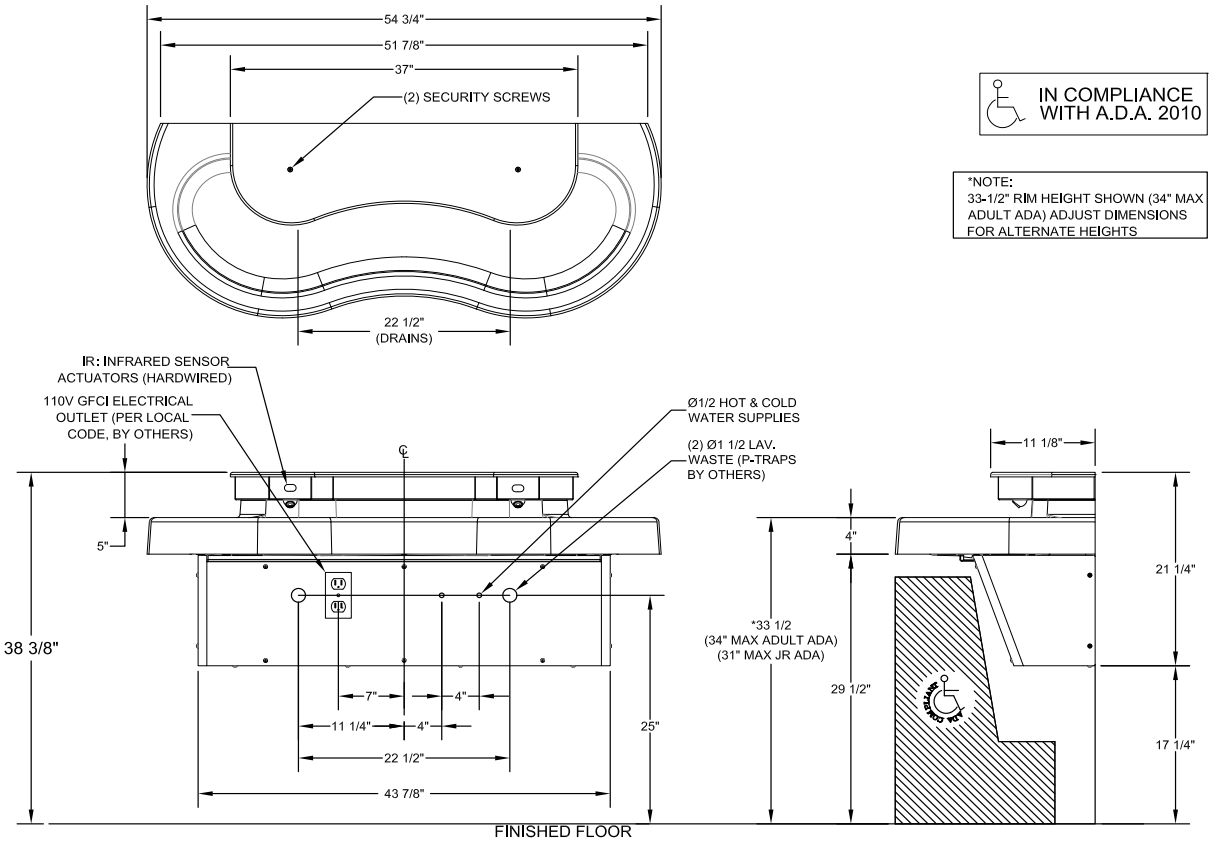
5.) Solid Surface Colors:
❑ BN Bone
❑ GW Glacier White
❑ GG Grey Granite
❑ SS Sandstone
❑ WG White Granite
❑ BG Black Granite
❑ NB Nocturnal Blue
❑ RC Red Coral
❑ SG Sea Green

6.) Other Options:
❑ LSD Liquid Soap Dispenser (1)
❑ TL Less In-line Thermostatic Mixing Valve
❑ KPWV Wall Mounted Stainless Steel Kick Plate
❑ LSH 1.5 gpm Laminar Flow Sprayheads
❑ Other _____
❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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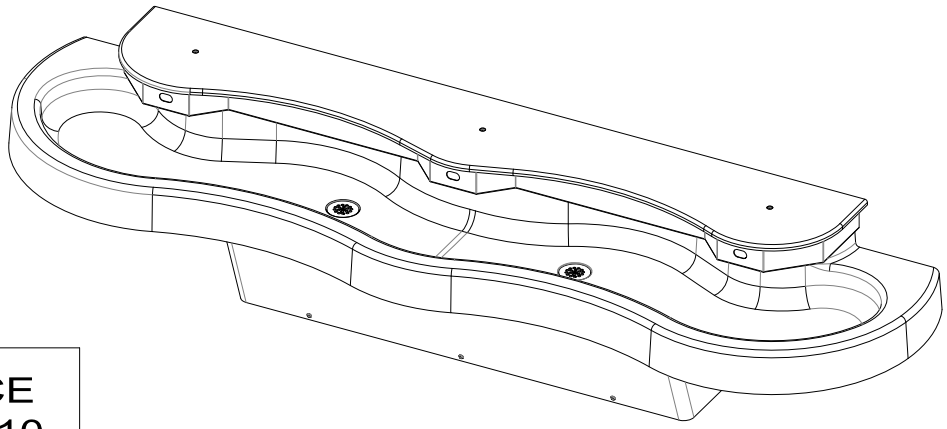
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WAW-2333 AquaWave® Three Station Solid Surface Lavatory System



IN COMPLIANCE WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a three station AquaWave® lavatory with standard wall mounting (34" rim height), battery operated infrared sensors, Grey Granite color, and liquid soap dispensers

Use the following Willoughby Model Number:
WAW-2333-WALL-BO-GG-LSD

Recommended Specifications

AquaWave® Three Station, Solid Surface Lavatory System shall be: Willoughby Model No. **WAW-2333**
(select from model number and options list on next page)

AquaWave® Lavatory System shall accommodate 1-3 users simultaneously. The lavatory system bowl, and top are constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate and mineral fillers. The pre-assembled water distribution head and low-profile pedestal base shall be constructed of heavy gauge, Type 304 stainless steel (the pedestal backplate is galvanized). Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Push buttons and water spray nozzles shall be constructed of type 303 stainless steel. The drain grates shall be constructed of heavy gauge stainless steel. The pre-assembled sprayhead module shall be equipped with independent spray nozzles controlled by push buttons or infrared sensors. Flow restrictors shall maintain flow rates at 0.5 GPM per station.

AquaWave® Lavatory Systems shall be supplied with thermostatic mixing valves, integral checkstops, drain spuds, flexible supply hoses, control valves, color coded water lines, and Class II 120/24 VAC plug-in transformers (as needed)*. Operating supply water pressure range is 25-80 PSI.

Vandal resistance:
The spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the head kit. Valves, water supplies, and waste connections are concealed within the pedestal. Removable shroud is secured with vandal-resistant security Torx screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, and ANSI Compliant:
The lavatory is designed is designed to comply with all applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines, whether mounted at standard adult rim height (34" Max AFF) or (JR) junior height (31" Max AFF).

Optional Features:
AquaWave® Lavatory Systems offer liquid soap dispensers as optional accessories. A wall mounted stainless steel kick plate (KPWF) is available for installations with floor-based plumbing rough-ins.

* *Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.*

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MODEL NUMBER AND OPTIONS:

1.) Washfountain Model:
- ❑ WAW-2333 AquaWave® 3 Station Solid Surface Lavatory System

2.) Pedestal Type:
- ❑ WALL Wall Mounted, Low-profile, All-Stainless Steel Shroud (Standard)

3.) Junior Height Option:
- ❑ JR Junior Height (31" Rim Height, JR. ADA Compliant)

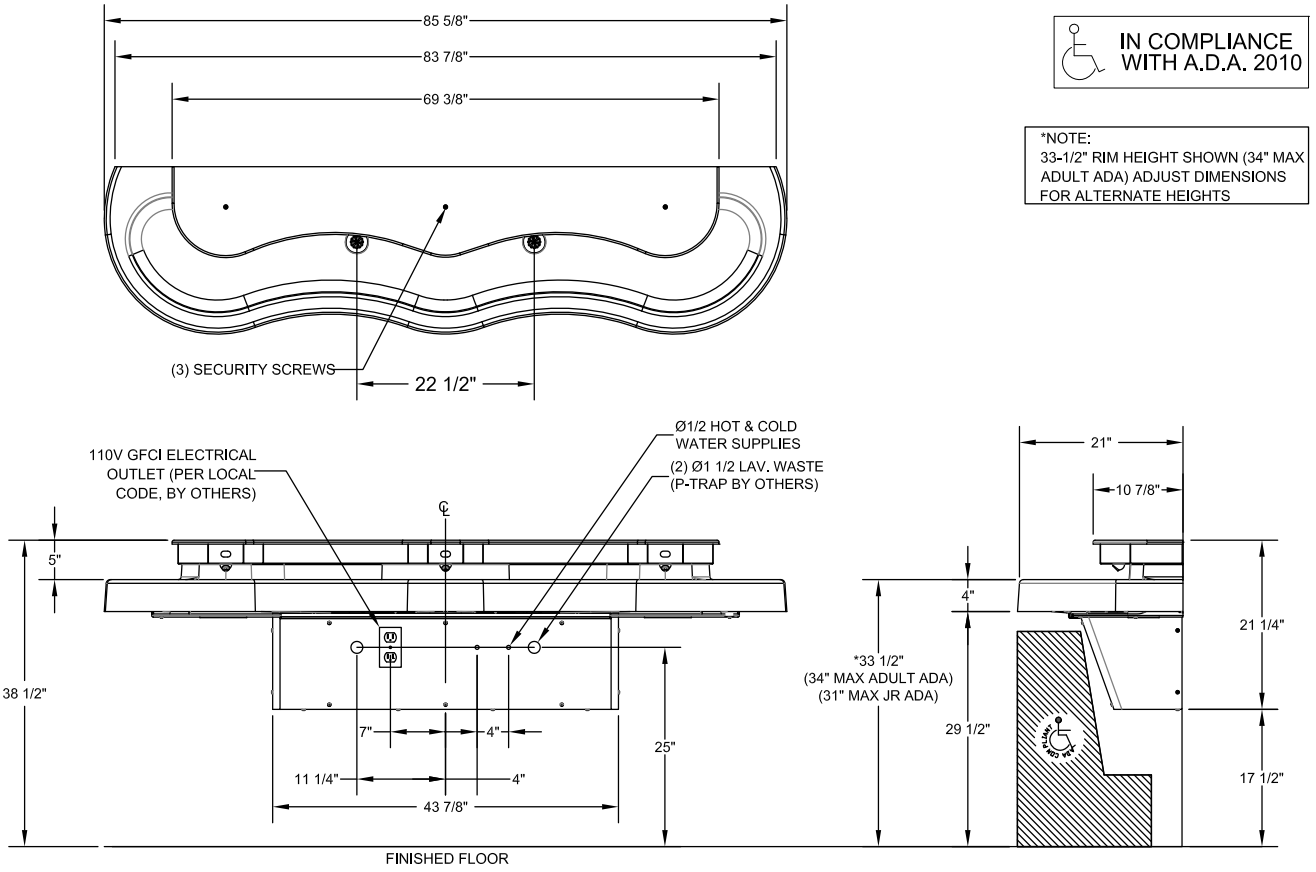
4.) Valve Actuation:
- ❑ PPB1 Standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering
- ❑ PZPB1 Ligature-resistant Piezo Electronic Push Buttons for Single Temperature Electronic (w/ Pneutronic Control)*
- ❑ IR Infrared Sensors, Hard-wired*
- ❑ BO Infrared Sensors, Battery Operated

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

5.) Solid Surface Colors:
- ❑ BN Bone
- ❑ GW Glacier White
- ❑ GG Grey Granite
- ❑ SS Sandstone
- ❑ WG White Granite
- ❑ BG Black Granite
- ❑ NB Nocturnal Blue
- ❑ RC Red Coral
- ❑ SG Sea Green

6.) Other Options:
- ❑ LSD Liquid Soap Dispensers (2)
- ❑ TL Less In-line Thermostatic Mixing Valve
- ❑ KPWV Wall Mounted Stainless Steel Kick Plate
- ❑ LSH 1.5 gpm Laminar Flow Sprayheads
- ❑ Other _____
- ❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____



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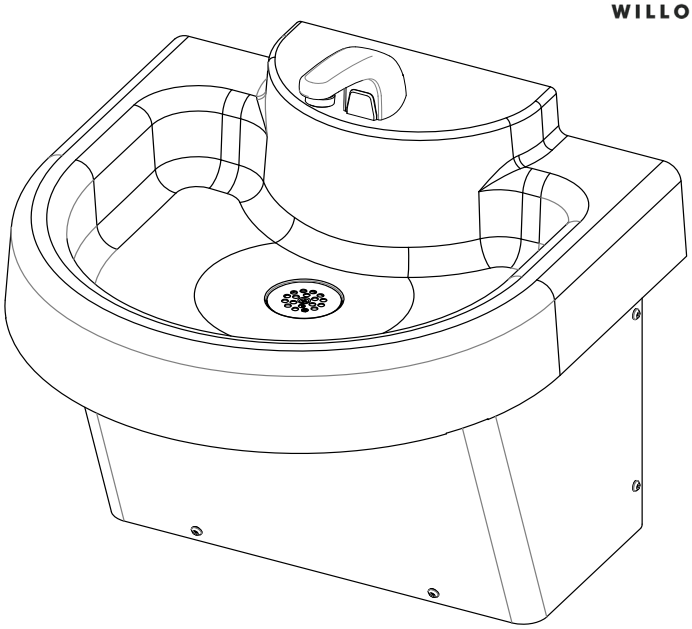
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WAW-2311-DMF AquaWave® Single Station Solid Surface Lavatory System for (DMF) Deck Mounted Faucets



IN COMPLIANCE WITH A.D.A. 2010

(FAUCETS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY; FAUCETS SUPPLIED BY OTHERS)

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a single station AquaWave® lavatory for a deck mounted faucet with standard wall mounting, 31" junior ADA rim height, 1" Center Shank faucet hole, in Sandstone color

Use the following Willoughby Model Number:
WAW-2311-DMF-WALL-JR-1CC-SS

Recommended Specifications

AquaWave® Single Station, Solid Surface Lavatory System for use with Deck Mounted Faucet shall be:
Willoughby Model No. **WAW-2311-DMF**
(select from model number and options list on next page)

AquaWave® Lavatory System shall accommodate 1 user. The lavatory system bowl is constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/ acrylic resin, UV stabilizer, aluminum trihydrate and mineral fillers. The pre-assembled low-profile pedestal base and included drain grate shall be constructed of heavy gauge, Type 304 stainless steel (the pedestal backplate is galvanized). Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Vandal resistance:
Valve (by others), water supplies, and waste connection are concealed within the pedestal. Removable shroud is secured with vandal-resistant security Torx screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, and ANSI Compliant:
The lavatory is designed is designed to comply with all applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines, whether mounted at standard adult rim height (34" Max AFF) or junior height (31" Max AFF).

Optional Features:
AquaWave® Lavatory Systems offer liquid soap dispensers as optional accessories.

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MODEL NUMBER AND OPTIONS:

1.) Washfountain Model:

❑ WAW-2311-DMF AquaWave® 1 Station Solid Surface Lavatory System for Deck Mounted Faucet

2.) Pedestal Type:

❑ WALL Wall Mounted, Low-profile, All-Stainless Steel Shroud (Standard)

3.) Faucet Drilling:

❑ NV No Valve, No Faucet Holes (Standard)
❑ 4CC Set of 4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
❑ 8CC Set of 8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
❑ 1CC Center Shank, (1) Ø1-1/4" Hole
❑ SP Special Drilling (Specify hole diameter and dimensions)
SP: _____

4.) Solid Surface Colors:

❑ BN Bone
❑ GW Glacier White
❑ GG Grey Granite
❑ SS Sandstone
❑ WG White Granite
❑ BG Black Granite
❑ NB Nocturnal Blue
❑ RC Red Coral
❑ SG Sea Green

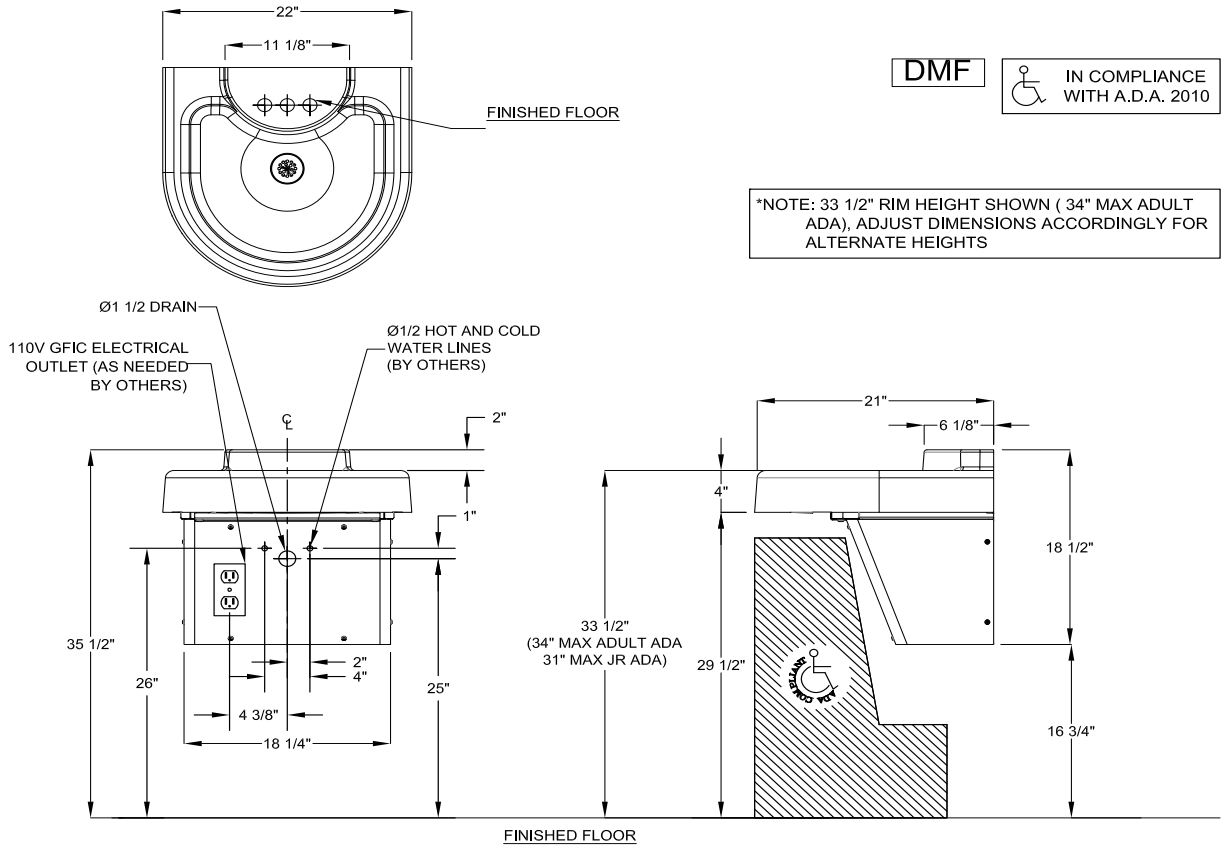
5.) Other Options:

❑ LSDM Liquid Soap Dispenser- Deck-mounted Spout and Bottle
❑ Other _____
❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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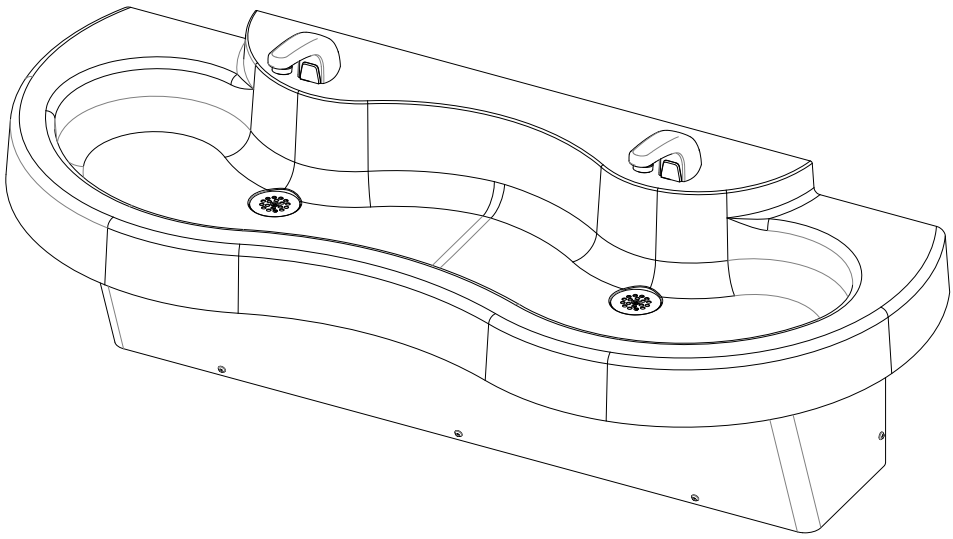
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WAW-2322-DMF AquaWave® Two Station Solid Surface Lavatory System for (DMF) Deck Mounted Faucets



IN COMPLIANCE WITH A.D.A. 2010

(FAUCETS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY; FAUCETS SUPPLIED BY OTHERS)

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a two station AquaWave® lavatory for a deck mounted faucet with standard wall mounting (34" rim height), two sets of 4" Centerset 1" faucet holes, in White Granite color

Use the following Willoughby Model Number:
WAW-2322-DMF-WALL-4CC-WG

Recommended Specifications

AquaWave® Two Station, Solid Surface Lavatory System for use with Deck Mounted Faucets shall be:
Willoughby Model No. **WAW-2322-DMF**
(select from model number and options list on next page)

AquaWave® Lavatory System shall accommodate 1 to 2 users simultaneously. The lavatory system bowl is constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate and mineral fillers. The pre-assembled low-profile pedestal base and included drain grates shall be constructed of heavy gauge, Type 304 stainless steel (the pedestal backplate is galvanized).Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Vandal resistance:
Valves (by others), water supplies, and waste connections are concealed within the pedestal. Removable shroud is secured with vandal-resistant security Torx screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, and ANSI Compliant:
The lavatory is designed is designed to comply with all applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines, whether mounted at standard adult rim height (34" Max AFF) or (JR) junior height (31" Max AFF).

Optional Features:
AquaWave® Lavatory Systems offer liquid soap dispensers as optional accessories. A wall mounted stainless steel kick plate (KPWF) is available for installations with floor-based plumbing rough-ins.

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MODEL NUMBER AND OPTIONS:

1.) Washfountain Model:
- ❑ WAW-2322-DMF AquaWave® 2 Station Solid Surface Lavatory System for Deck Mounted Faucets

2.) Pedestal Type:
- ❑ WALL Wall Mounted, Low-profile, All-Stainless Steel Shroud (Standard)

3.) Junior Height Option:
- ❑ JR Junior Height (31" Rim Height, JR. ADA Compliant)

4.) Faucet Drilling:
- ❑ NV No Valve, No Faucet Holes (Standard)
- ❑ 4CC Set of 4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
- ❑ 8CC Set of 8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
- ❑ 1CC Center Shank, (1) Ø1-1/4" Hole
- ❑ SP Special Drilling (Specify hole diameter and dimensions)
  SP: _____

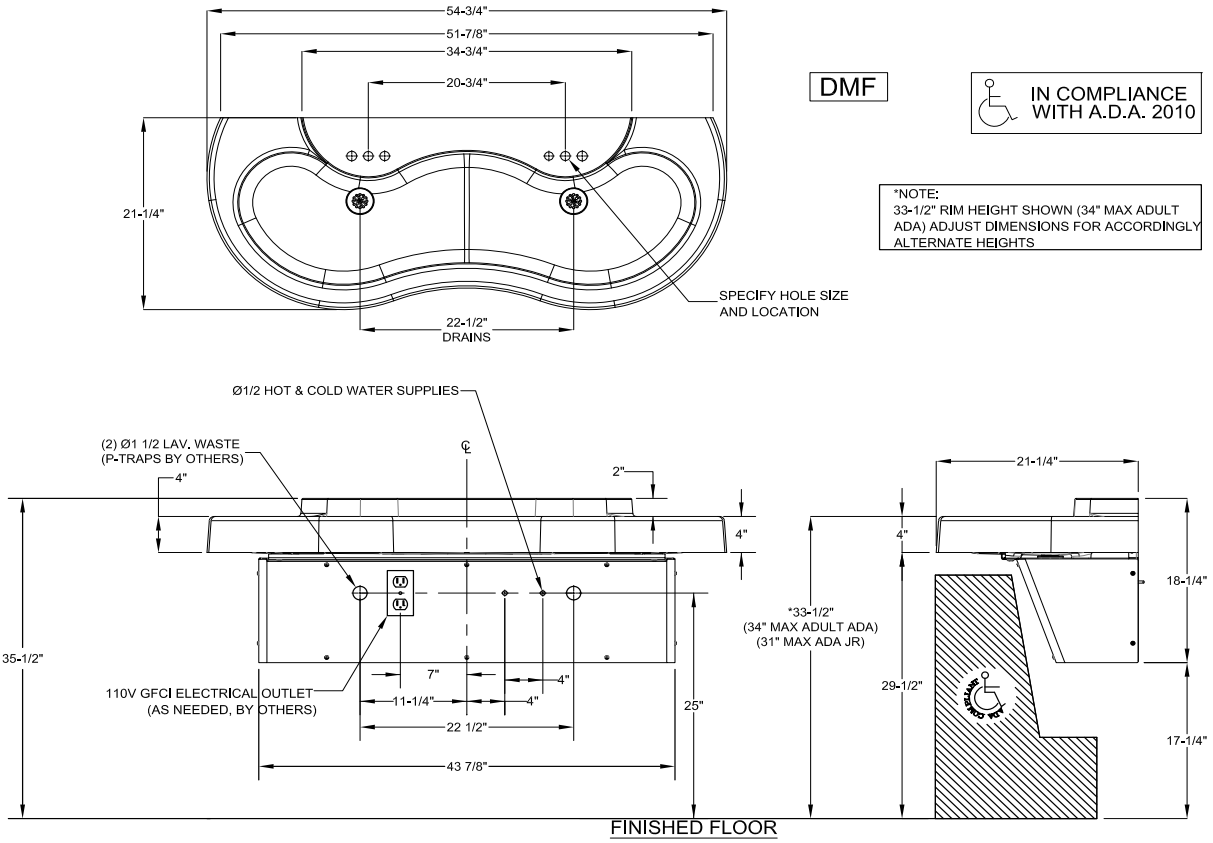
5.) Solid Surface Colors:
- ❑ BN Bone
- ❑ GW Glacier White
- ❑ GG Grey Granite
- ❑ SS Sandstone
- ❑ WG White Granite
- ❑ BG Black Granite
- ❑ NB Nocturnal Blue
- ❑ RC Red Coral
- ❑ SG Sea Green

6.) Other Options:
- ❑ LSDM Liquid Soap Dispensers- Deck-mounted Spout and Bottle
- ❑ KPWV Wall Mounted Stainless Steel Kick Plate
- ❑ Other _____
- ❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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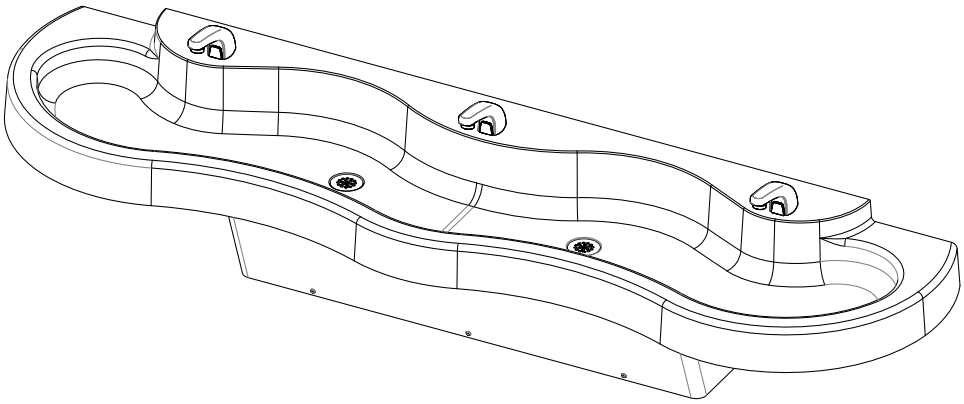
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WAW-2333-DMF AquaWave® Three Station Solid Surface Lavatory System for (DMF) Deck Mounted Faucets



IN COMPLIANCE WITH A.D.A. 2010

(FAUCETS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY; FAUCETS SUPPLIED BY OTHERS)

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a three station AquaWave® lavatory for a deck mounted faucet with standard wall mounting (34" rim height), three sets of 4" Centerset 1" faucet holes, in Black Granite color

Use the following Willoughby Model Number:
WAW-2333-DMF-WALL-4CC-BG

Recommended Specifications

AquaWave® Three Station, Solid Surface Lavatory System for use with Deck Mounted Faucets shall be:
Willoughby Model No. **WAW-2333-DMF**
(select from model number and options list on next page)

AquaWave® Lavatory System shall accommodate 1 to 3 users simultaneously. The lavatory system bowl is constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate and mineral fillers. The pre-assembled low-profile pedestal base and included drain grate shall be constructed of heavy gauge, Type 304 stainless steel (the pedestal backplate is galvanized). Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Vandal resistance:
Valves (by others), water supplies, and waste connections are concealed within the pedestal. Removable shroud is secured with vandal-resistant security Torx screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, and ANSI Compliant:
The lavatory is designed is designed to comply with all applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines, whether mounted at standard adult rim height (34" Max AFF) or (JR) junior height (31" Max AFF).

Optional Features:
AquaWave® Lavatory Systems offer liquid soap dispensers as optional accessories. A wall mounted stainless steel kick plate (KPWF) is available for installations with floor-based plumbing rough-ins.

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MODEL NUMBER AND OPTIONS:

1.) Washfountain Model:
- ❑ WAW-2333-DMF AquaWave® 3 Station Solid Surface Lavatory System for Deck Mounted Faucets

2.) Pedestal Type:
- ❑ WALL Wall Mounted, Low-profile, All-Stainless Steel Shroud (Standard)

3.) Junior Height Option:
- ❑ JR Junior Height (31" Rim Height, JR. ADA Compliant)

4.) Faucet Drilling:
- ❑ NV No Valve, No Faucet Holes (Standard)
- ❑ 4CC Set of 4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
- ❑ 8CC Set of 8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
- ❑ 1CC Center Shank, (1) Ø1-1/4" Hole
- ❑ SP Special Drilling (Specify hole diameter and dimensions)
  SP: _____

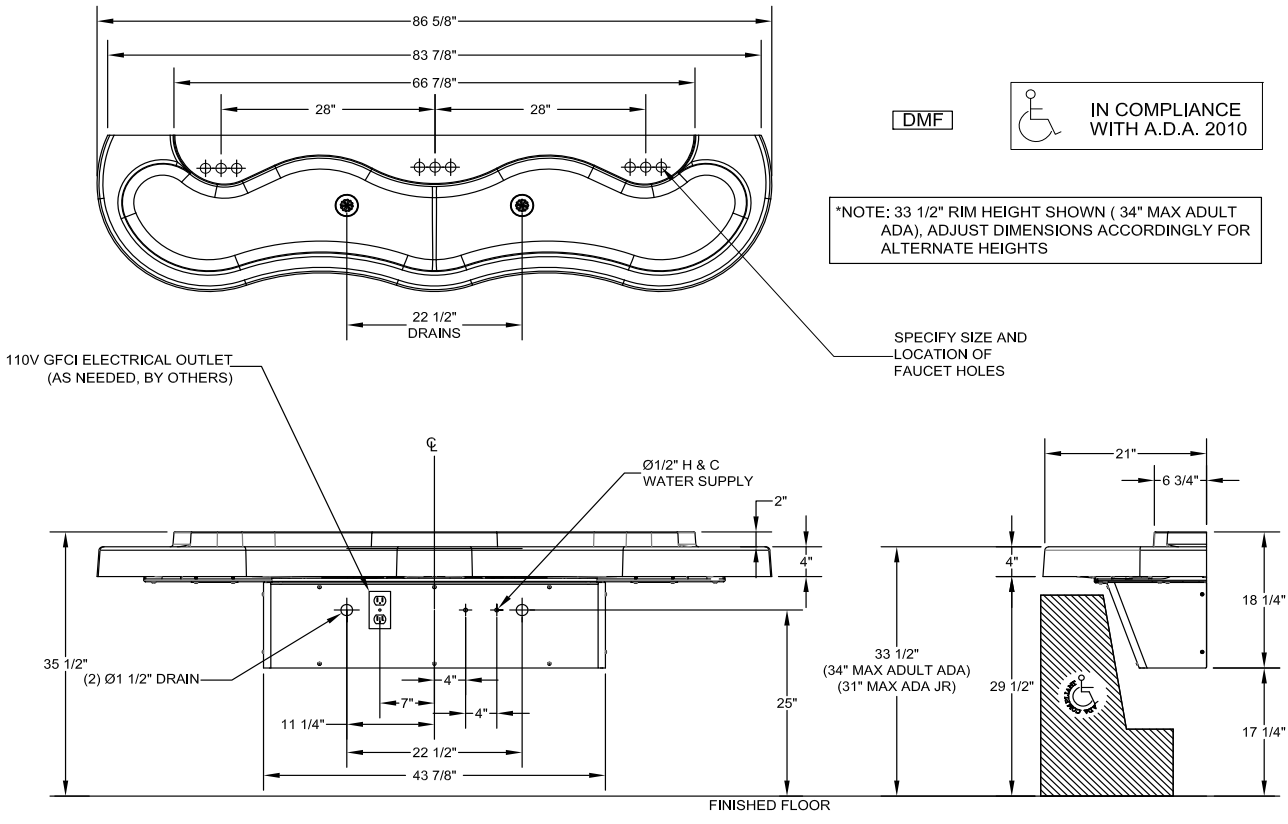
5.) Solid Surface Colors:
- ❑ BN Bone
- ❑ GW Glacier White
- ❑ GG Grey Granite
- ❑ SS Sandstone
- ❑ WG White Granite
- ❑ BG Black Granite
- ❑ NB Nocturnal Blue
- ❑ RC Red Coral
- ❑ SG Sea Green

6.) Other Options:
- ❑ LSDM Liquid Soap Dispensers- Deck-mounted Spout and Bottle
- ❑ KPWV Wall Mounted Stainless Steel Kick Plate
- ❑ Other _____
- ❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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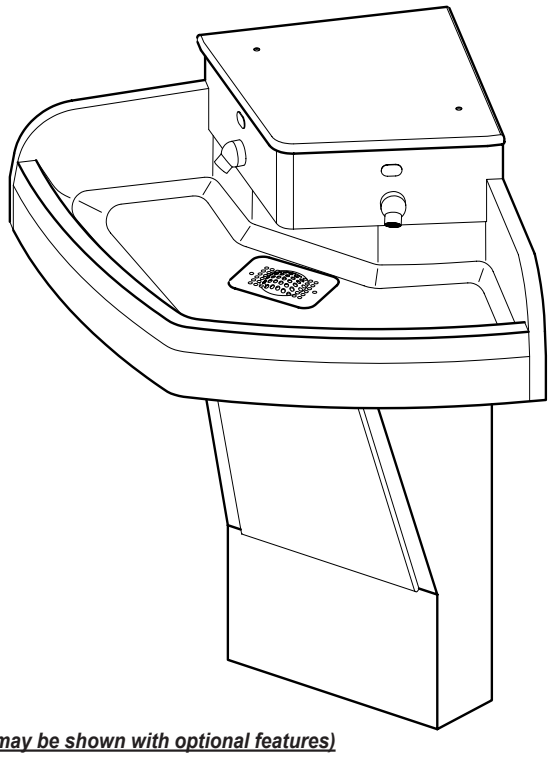
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WAF-2200/2201 AquaFount® Corner Mounted Two Station Solid Surface Washfountain



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a corner mounted two station AquaFount® floor mounted (34" rim height) washfountain with hard-wired infrared sensors, in Nocturnal Blue color

Use the following Willoughby Model Number:
WAF-2200-IR-NB

Recommended Specifications

AquaFount® Corner Mounted, Two Station, Solid Surface Washfountain shall be: Willoughby Model No. **WAF-220___** (select from model number and options list on next page)

AquaFount® washfountain shall accommodate from 1 to 2 users simultaneously. The washfountain bowl, top, and pedestal panel are constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate and mineral fillers. The pre-assembled water distribution heads and pedestal base shall be constructed of heavy gauge, type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Push buttons and water spray nozzles shall be constructed of type 303 stainless steel. The drain grate shall be constructed of heavy gauge stainless steel. The pre-assembled sprayhead module shall be equipped with independent spray nozzles controlled by separate push buttons or infrared sensors. Flow restrictors shall maintain flow rates at 0.5 GPM per station.

AquaFount® washfountains shall be supplied with thermostatic mixing valves, integral checkstops, drain spuds, flexible supply hoses, control valves, color coded water lines, and Class II 120/24 VAC plug-in transformers (as needed)*. Operating supply water pressure range is 25-80 PSI.

Vandal resistance:
The spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the head kit. Valves, water supplies, and waste connections are concealed within the pedestal. Removable access panels are secured with vandal-resistant security Torx screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

Optional Features:
AquaFount® washfountains offer liquid soap dispensers as optional accessories. AquaFount® washfountains can be ordered with 31" rim heights (WAF-2200 and WAF-2201 models only) for juvenile use (JR).

Washfountain is not ADA, TAS, or ANSI Compliant.

* *Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.*

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MODEL NUMBER AND OPTIONS:

1.) Washfountain Type:
- ❑ WAF AquaFount®

2.) Base Model Number:
- ❑ 2200 Corner Mounted 2 Station Floor Mounted Washfountain
- ❑ 2201 Corner Mounted 2 Station Wall Mounted Washfountain

3.) Junior Height Option:
- ❑ JR Junior Height (31" Rim Height)

4.) Valve Actuation:
- ❑ PPB1 Standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering
- ❑ PZPB1 Ligature-resistant Piezo Electronic Push Buttons for Single Temperature Electronic (w/ Pneutronic Control)*
- ❑ IR Infrared Sensors, Hard-wired*
- ❑ BO Infrared Sensors, Battery Operated

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

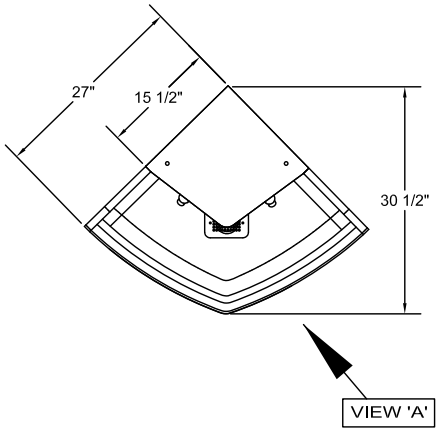
5.) Solid Surface Colors:
- ❑ BN Bone
- ❑ GW Glacier White
- ❑ GG Grey Granite
- ❑ SS Sandstone
- ❑ WG White Granite
- ❑ BG Black Granite
- ❑ NB Nocturnal Blue
- ❑ RC Red Coral
- ❑ SG Sea Green

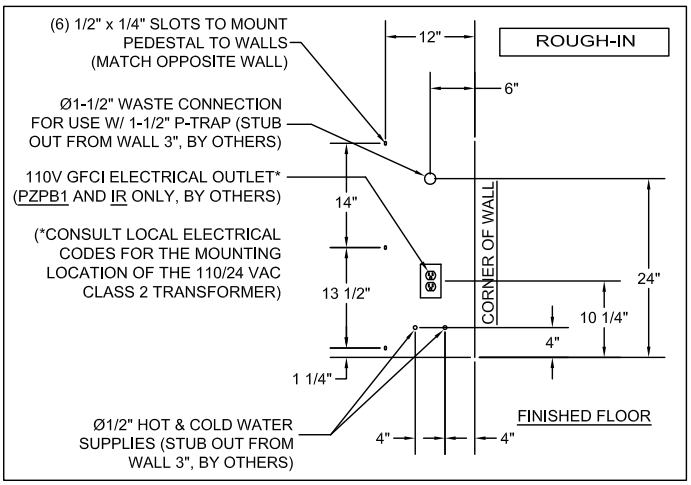
6.) Other Options:
- ❑ LSD Liquid Soap Dispenser (1)
- ❑ TL Less In-line Thermostatic Mixing Valve
- ❑ LSH 1.5 gpm Laminar Flow Sprayheads
- ❑ Other _____
- ❑ Other _____

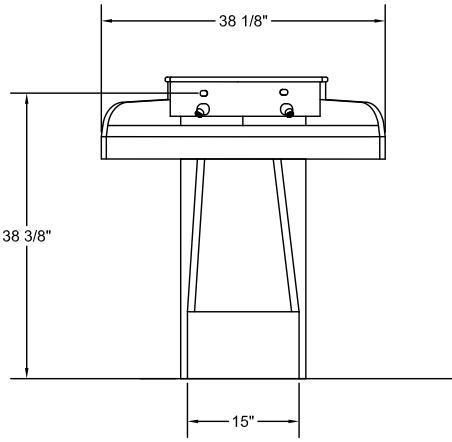
Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

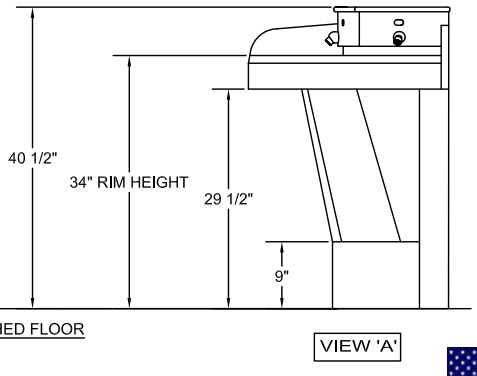
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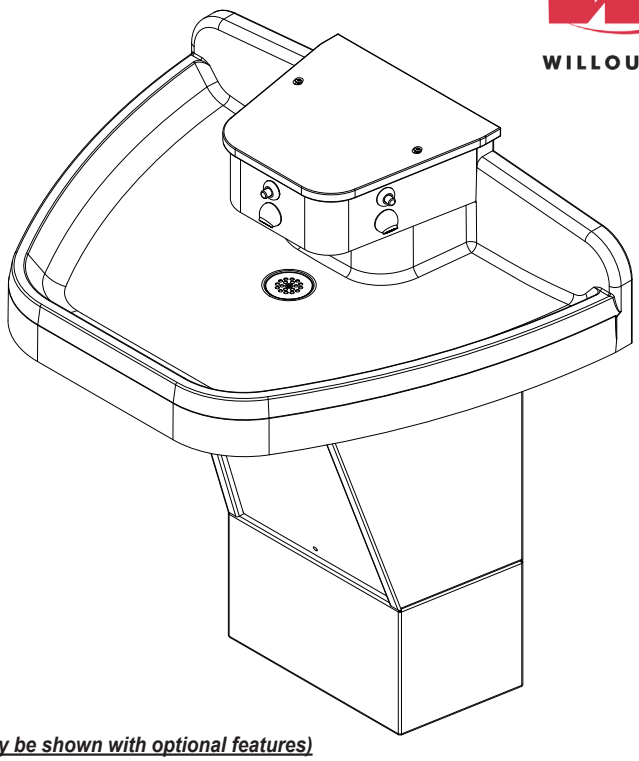
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WAF-3300/3301 AquaFount® Three Station Solid Surface Washfountain



IN COMPLIANCE WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify a three station AquaFount® floor mounted (34" rim height) washfountain with pneumatic push buttons, in Red Coral color

Use the following Willoughby Model Number:
WAF-3300-PPB1-RC

Recommended Specifications

AquaFount® Three Station, Solid Surface Washfountain shall be: Willoughby Model No. **WAF-330___**
(select from model number and options list on next page)

AquaFount® washfountain shall accommodate from 1 to 3 users simultaneously. The washfountain bowl, top, and pedestal panel are constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate and mineral fillers. The pre-assembled water distribution heads and pedestal base shall be constructed of heavy gauge, type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Push buttons and water spray nozzles shall be constructed of type 303 stainless steel. The drain grate shall be constructed of heavy gauge stainless steel. The pre-assembled sprayhead module shall be equipped with independent spray nozzles controlled by separate push buttons or infrared sensors. Flow restrictors shall maintain flow rates at 0.5 GPM per station.

AquaFount® washfountains shall be supplied with thermostatic mixing valves, integral checkstops, drain spuds, flexible supply hoses, control valves, color coded water lines, and Class II 120/24 VAC plug-in transformers (as needed)*. Operating supply water pressure range is 25-80 PSI.

Vandal resistance:
The spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the head kit. Valves, water supplies, and waste connections are concealed within the pedestal. Removable access panels are secured with vandal-resistant security Torx screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, and ANSI Compliant:
When the washfountain is mounted at the standard 34" adult rim height, it is designed to comply with all applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

Optional Features:
AquaFount® washfountains offer liquid soap dispensers as optional accessories. AquaFount® washfountains can be ordered with 31" rim heights for juvenile use (JR).

* *Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.*

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MODEL NUMBER AND OPTIONS:

1.) Washfountain Type:
- ❑ WAF AquaFount®

2.) Base Model Number:
- ❑ 3300 3 Station Floor Mounted Washfountain
- ❑ 3301 3 Station Wall Mounted Washfountain

3.) Junior Height Option:
- ❑ JR Junior Height (31" Rim Height, JR. ADA Compliant)

4.) Valve Actuation:
- ❑ PPB1 Standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering
- ❑ PZPB1 Ligature-resistant Piezo Electronic Push Buttons for Single Temperature Electronic (w/ Pneutronic Control)*
- ❑ IR Infrared Sensors, Hard-wired*
- ❑ BO Infrared Sensors, Battery Operated

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

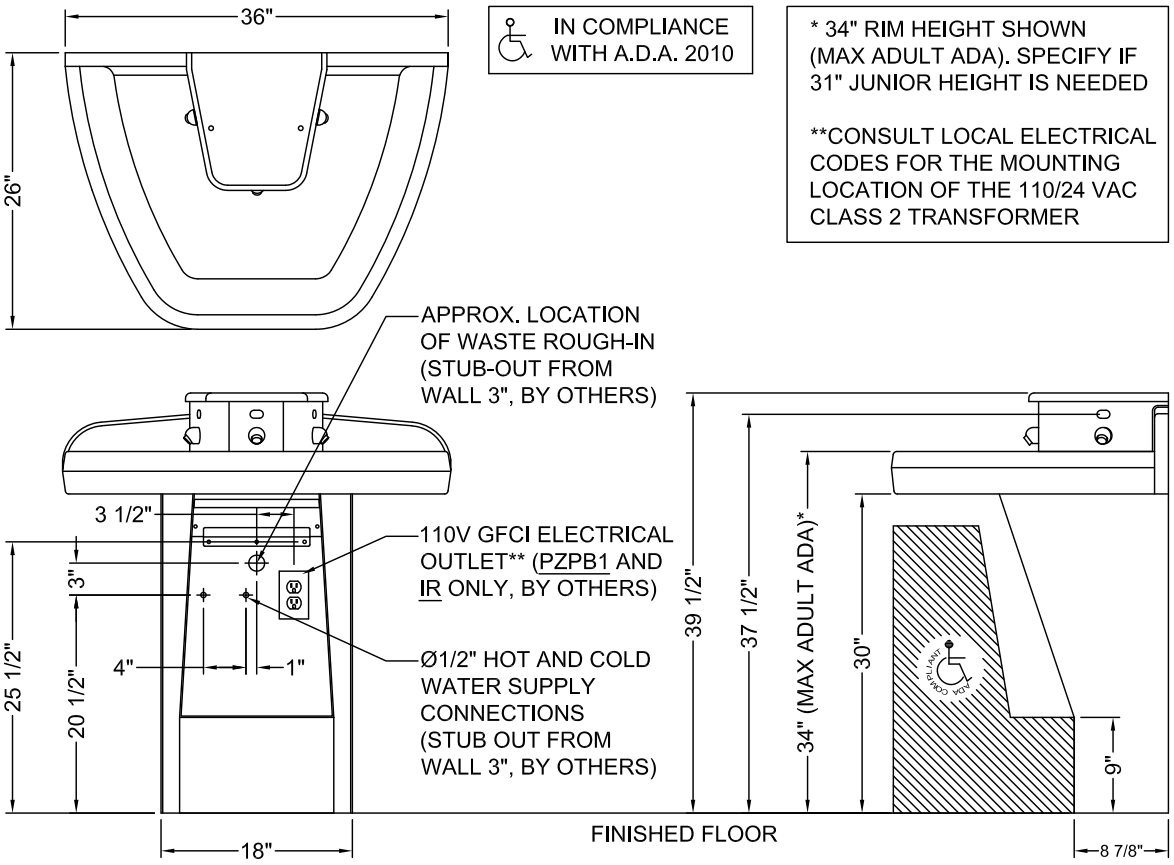
5.) Solid Surface Colors:
- ❑ BN Bone
- ❑ GW Glacier White
- ❑ GG Grey Granite
- ❑ SS Sandstone
- ❑ WG White Granite
- ❑ BG Black Granite
- ❑ NB Nocturnal Blue
- ❑ RC Red Coral
- ❑ SG Sea Green

6.) Other Options:
- ❑ LSD Liquid Soap Dispensers (2)
- ❑ TL Less In-line Thermostatic Mixing Valve
- ❑ LSH 1.5 gpm Laminar Flow Sprayheads
- ❑ Other _____
- ❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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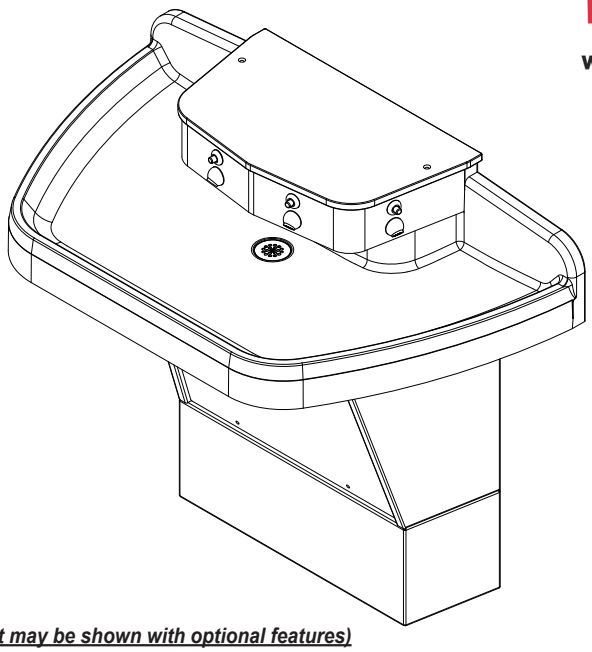
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WAF-4400/4401 AquaFount® Four Station Solid Surface Washfountain



(Unit may be shown with optional features)

IN COMPLIANCE WITH A.D.A. 2010

Recommended Specifications

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a four station AquaFount® floor mounted (34" rim height) washfountain with pneumatic push buttons, in Sea Green color

Use the following Willoughby Model Number:
WAF-4400-PPB1-SG

AquaFount® Four Station, Solid Surface Washfountain shall be: Willoughby Model No. **WAF-440___**
(select from model number and options list on next page)

AquaFount® washfountain shall accommodate from 1 to 4 users simultaneously. The washfountain bowl, top, and pedestal panel are constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate and mineral fillers. The pre-assembled water distribution heads and pedestal base shall be constructed of heavy gauge, type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Push buttons and water spray nozzles shall be constructed of type 303 stainless steel. The drain grate shall be constructed of heavy gauge stainless steel. The pre-assembled sprayhead module shall be equipped with independent spray nozzles controlled by separate push buttons or infrared sensors. Flow restrictors shall maintain flow rates at 0.5 GPM per station.

AquaFount® washfountains shall be supplied with thermostatic mixing valves, integral checkstops, drain spuds, flexible supply hoses, control valves, color coded water lines, and Class II 120/24 VAC plug-in transformers (as needed)*. Operating supply water pressure range is 25-80 PSI.

Vandal resistance:
The spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the head kit. Valves, water supplies, and waste connections are concealed within the pedestal. Removable access panels are secured with vandal-resistant security Torx screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, and ANSI Compliant:
When the washfountain is mounted at the standard 34" adult rim height, it is designed to comply with all applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

Optional Features:
AquaFount® washfountains offer liquid soap dispensers as optional accessories. AquaFount® washfountains can be ordered with 31" rim heights for juvenile use (JR).

* *Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.*

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MODEL NUMBER AND OPTIONS:

1.) Washfountain Type:
- ❑ WAF AquaFount®

2.) Base Model Number:
- ❑ 4400 4 Station Floor Mounted Washfountain
- ❑ 4401 4 Station Wall Mounted Washfountain

3.) Junior Height Option:
- ❑ JR Junior Height (31" Rim Height, JR. ADA Compliant)

4.) Valve Actuation:
- ❑ PPB1 Standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering
- ❑ PZPB1 Ligature-resistant Piezo Electronic Push Buttons for Single Temperature Electronic (w/ Pneutronic Control)*
- ❑ IR Infrared Sensors, Hard-wired*
- ❑ BO Infrared Sensors, Battery Operated

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

5.) Solid Surface Colors:
- ❑ BN Bone
- ❑ GW Glacier White
- ❑ GG Grey Granite
- ❑ SS Sandstone
- ❑ WG White Granite
- ❑ BG Black Granite
- ❑ NB Nocturnal Blue
- ❑ RC Red Coral
- ❑ SG Sea Green

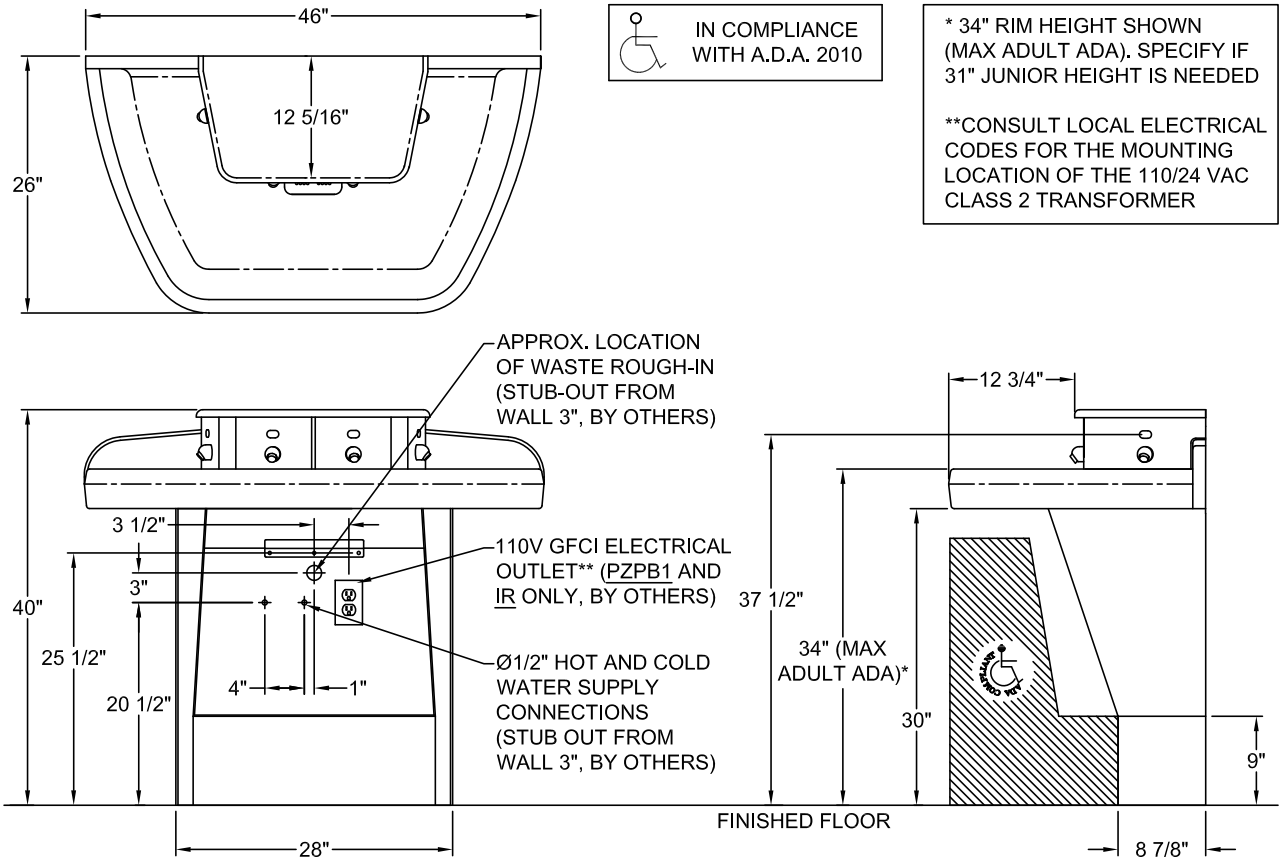
6.) Other Options:
- ❑ LSD Liquid Soap Dispensers (2)
- ❑ TL Less In-line Thermostatic Mixing Valve
- ❑ LSH 1.5 gpm Laminar Flow Sprayheads
- ❑ Other _____
- ❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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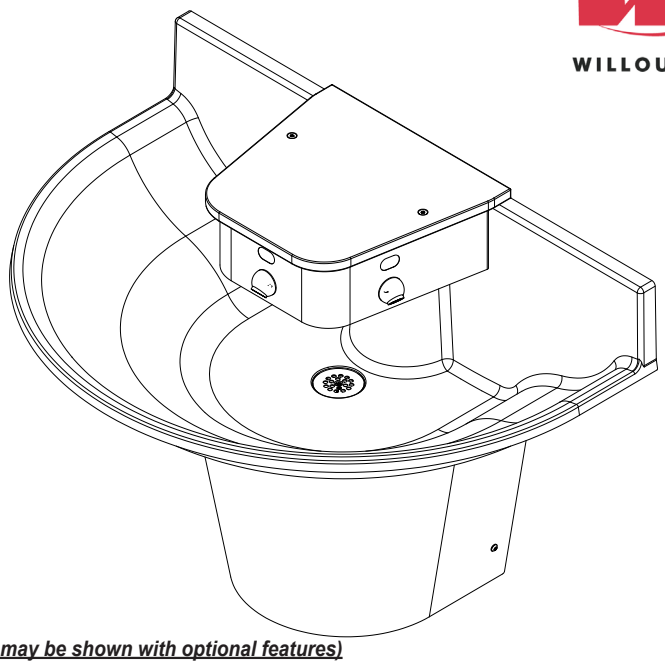
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Willoughby Industries - *Commercial Products*

WAF-3603
AquaFount®
Three Station
Half Round
36" Solid Surface
Deep Bowl Washfountain



(Unit may be shown with optional features)

IN COMPLIANCE WITH A.D.A. 2010

Recommended Specifications

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a three station half round 36" AquaFount® washfountain with standard wall mounting (34" rim height), hard-wired infrared sensors, in Bone color

Use the following Willoughby Model Number:
WAF-3603-WALL-IR-BN

AquaFount® Half Round, 36" Solid Surface Washfountain shall be: Willoughby Model No. **WAF-3603**
(select from model number and options list on next page)

AquaFount® washfountain shall accommodate from 1 to 3 users simultaneously. The washfountain bowl and cover are constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate and mineral fillers. The pre-assembled water distribution heads and pedestal base shall be constructed of heavy gauge, type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Push buttons and water spray nozzles shall be constructed of type 303 stainless steel. The drain grate shall be constructed of heavy gauge stainless steel. The pre-assembled sprayhead module shall be equipped with independent spray nozzles controlled by separate push buttons or infrared sensors. Flow restrictors shall maintain flow rates at 0.5 GPM per station.

AquaFount® washfountains shall be supplied with thermostatic mixing valves, integral checkstops, drain spuds, flexible supply hoses, control valves, color coded water lines, and Class II 120/24 VAC plug-in transformers (as needed)*. Operating supply water pressure range is 25-80 PSI.

Vandal resistance:
The spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the head kit. Valves, water supplies, and waste connections are concealed within the pedestal. Removable access panels are secured with vandal-resistant security Torx screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, and ANSI Compliant:
When the washfountain is mounted at the standard 34" adult rim height, it is designed to comply with all applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

Optional Features:
AquaFount® washfountains offer liquid soap dispensers as optional accessories. AquaFount® washfountains can be ordered with 31" rim heights for juvenile use (JR). A wall mounted stainless steel kick plate (KPWF) is available for wall-mounted pedestals with floor-based plumbing rough-ins.

** Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.*

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MODEL NUMBER AND OPTIONS:

1.) Washfountain Model:

❑ WAF-3603 AquaFount® 3 Station 36" Half Round Deep Bowl Solid Surface Washfountain

2.) Pedestal Type:

❑ WALL Wall Mounted (Standard)

3.) Junior Height Option:

❑ JR Junior Height (31" Rim Height, JR. ADA Compliant)

4.) Valve Actuation:

❑ PPB1 Standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering

❑ PZPB1 Ligature-resistant Piezo Electronic Push Buttons for Single Temperature Electronic (w/ Pneutronic Control)*

❑ IR Infrared Sensors, Hard-wired*

❑ BO Infrared Sensors, Battery Operated

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

5.) Solid Surface Colors:

❑ BN Bone

❑ GW Glacier White

❑ GG Grey Granite

❑ SS Sandstone

❑ WG White Granite

❑ BG Black Granite

❑ NB Nocturnal Blue

❑ RC Red Coral

❑ SG Sea Green

6.) Other Options:

❑ LSD Liquid Soap Dispensers (2)

❑ TL Less In-line Thermostatic Mixing Valve

❑ KPWF Wall Mounted Stainless Steel Kick Plate

❑ LSH 1.5 gpm Laminar Flow Sprayheads

❑ Other _____

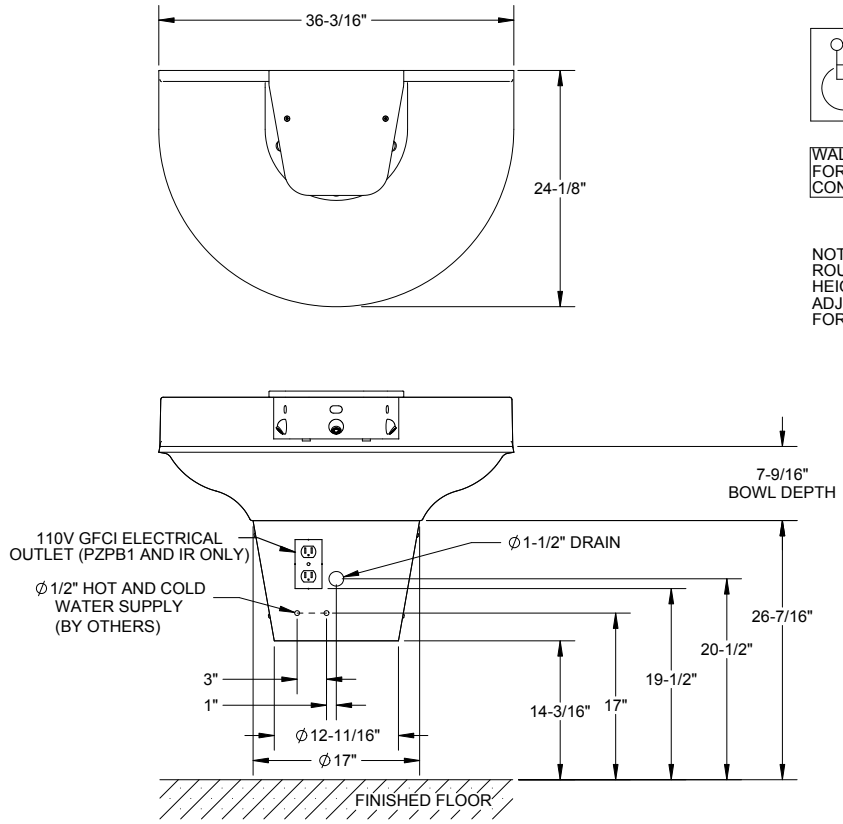
❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

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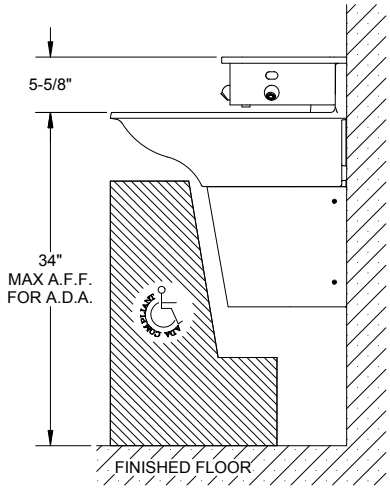
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WALL MOUNTED ROUGH-IN SHOWN.
FOR FLOOR MOUNTED ROUGH-IN, CONTACT FACTORY.

NOTE:
ROUGH-IN DIMENSIONS ARE FOR A RIM HEIGHT OF 34" AFF.
ADJUST DIMENSIONS ACCORDINGLY FOR ALTERNATE RIM HEIGHT.



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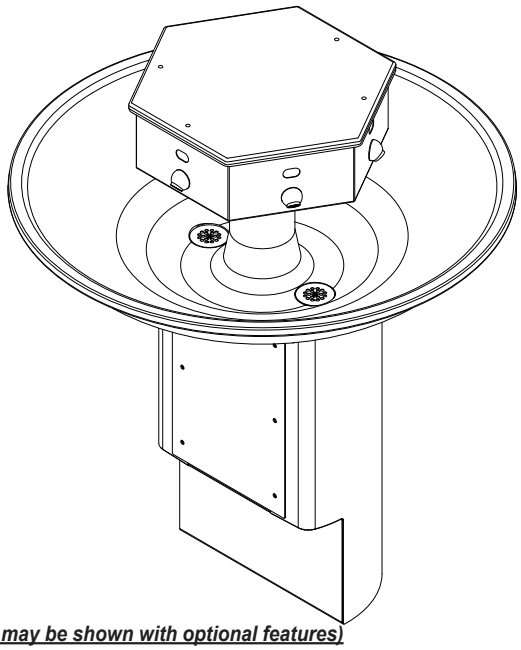
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WAF-3606
AquaFount®
Six Station
Full Round
36" Solid Surface
Deep Bowl Washfountain



(Unit may be shown with optional features)

IN COMPLIANCE WITH A.D.A. 2010

Recommended Specifications

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a six station full round 36" AquaFount® washfountain with standard floor mounting (34" rim height), hard-wired infrared sensors, standard water supply from below, in Glacier White color

Use the following Willoughby Model Number:
WAF-3606-FLR-IR-SB-GW

AquaFount® Full Round, 36" Solid Surface Washfountain shall be: Willoughby Model No. **WAF-3606**
(select from model number and options list on next page)

AquaFount® washfountain shall accommodate from 1 to 6 users simultaneously. The washfountain bowl and cover are constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate and mineral fillers. The pre-assembled water distribution heads and pedestal base shall be constructed of heavy gauge, type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Push buttons and water spray nozzles shall be constructed of type 303 stainless steel. The drain grate shall be constructed of heavy gauge stainless steel. The pre-assembled sprayhead module shall be equipped with independent spray nozzles controlled by separate push buttons or infrared sensors. Flow restrictors shall maintain flow rates at 0.5 GPM per station.

AquaFount® washfountains shall be supplied with thermostatic mixing valves, integral checkstops, drain spuds, flexible supply hoses, control valves, color coded water lines, and Class II 120/24 VAC plug-in transformers (as needed)*. Operating supply water pressure range is 25-80 PSI.

Vandal resistance:
The spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the head kit. Valves, water supplies, and waste connections are concealed within the pedestal. Removable access panels are secured with vandal-resistant security Torx screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, and ANSI Compliant:
At the standard 34" adult rim height, one (1) station is designed to comply with all applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines. The other stations will comply with most but not all accessibility guidelines. This excludes Floor Mounted Foot Operated (FO) models.

Optional Features:
AquaFount® washfountains offer liquid soap dispensers as optional accessories. AquaFount® washfountains can be ordered with 31" rim heights for juvenile use (JR).

* *Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.*

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MODEL NUMBER AND OPTIONS:

1.) Washfountain Model:
- ❑ WAF-3606 AquaFount® 6 Station 36" Full Round Deep Bowl Solid Surface Washfountain

2.) Pedestal Type:
- ❑ FLR Floor Mounted (Standard)

3.) Junior Height Option:
- ❑ JR Junior Height (31" Rim Height, JR. ADA Compliant)

4.) Valve Actuation:
- ❑ PPB1 Standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering
- ❑ PZPB1 Ligature-resistant Piezo Electronic Push Buttons for Single Temperature Electronic (w/ Pneutronic Control)*
- ❑ IR Infrared Sensors, Hard-wired*
- ❑ BO Infrared Sensors, Battery Operated
- ❑ FO Foot Operated Pneumatic Push Buttons (Not ADA Compliant)

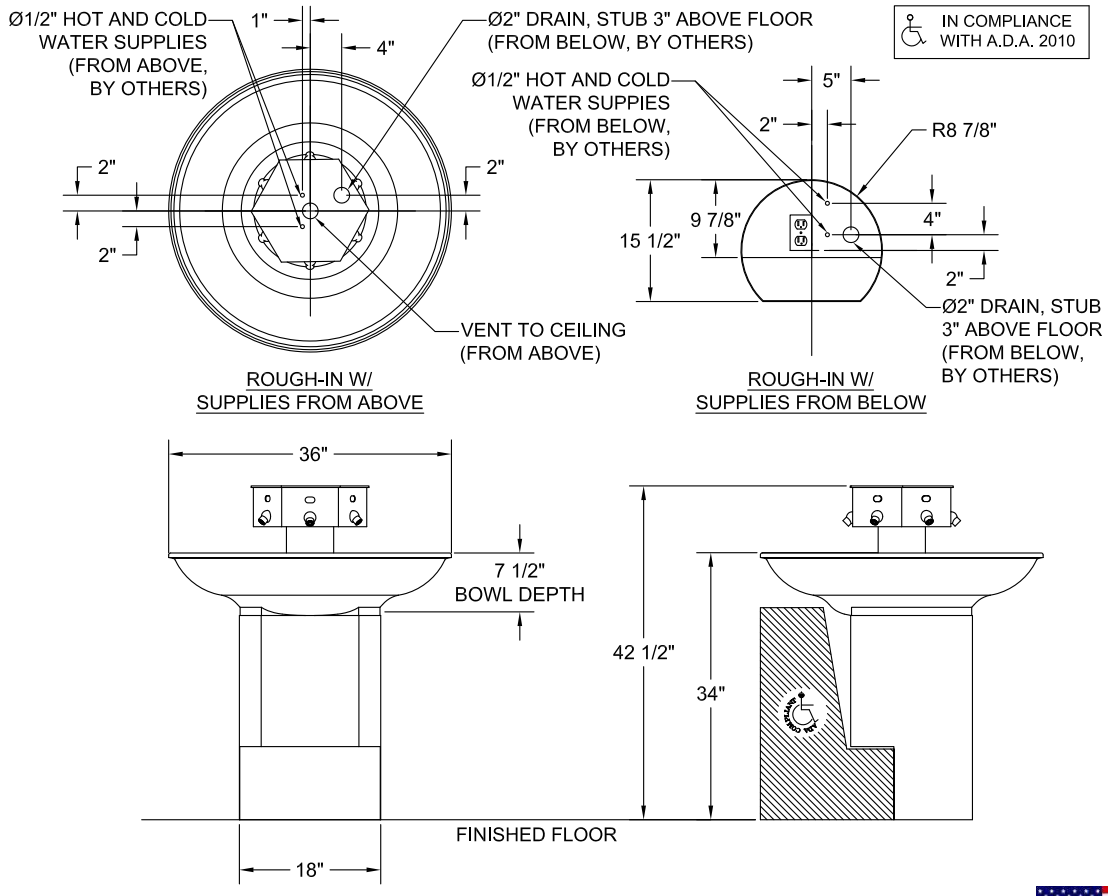
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

5.) Water Supply:
- ❑ SB Supply From Below (Standard)
- ❑ SA Supply From Above (**Option** (TSHWF) recommended)

6.) Solid Surface Colors:
- ❑ BN Bone
- ❑ GW Glacier White
- ❑ GG Grey Granite
- ❑ SS Sandstone
- ❑ WG White Granite
- ❑ BG Black Granite
- ❑ NB Nocturnal Blue
- ❑ RC Red Coral
- ❑ SG Sea Green

7.) Other Options:
- ❑ LSD Liquid Soap Dispensers (2)
- ❑ TL Less In-line Thermostatic Mixing Valve
- ❑ SSC Stainless Steel Head Cover (Top Cap)
- ❑ TSHWF Telescoping Washfountain Shroud (For use on (SA) models only)
- ❑ LSH 1.5 gpm Laminar Flow Sprayheads
- ❑ Other _____
- ❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____



VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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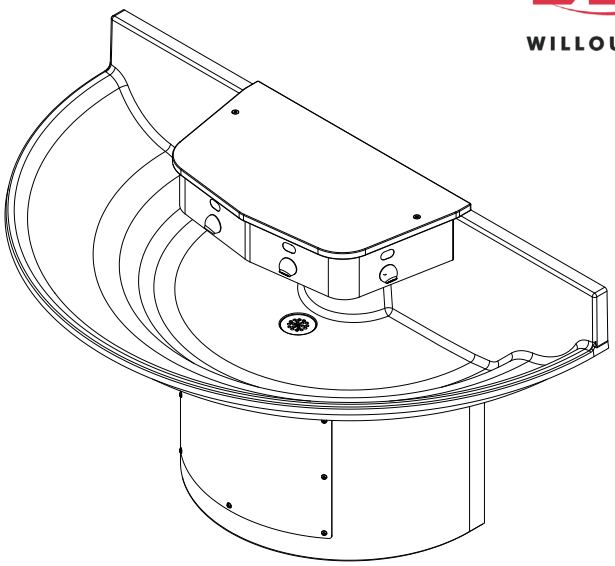
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Willoughby Industries - *Commercial Products*

WAF-5403/5404 AquaFount® Three / Four Station Half Round 54" Solid Surface Deep Bowl Washfountain



IN COMPLIANCE WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a four station half round 54" AquaFount® washfountain with standard wall mounting, 31" junior ADA rim height, battery operated infrared sensors, in Grey Granite color

Use the following Willoughby Model Number:
WAF-5404-WALL-JR-BO-GG

Recommended Specifications

AquaFount® Half Round, 54" Solid Surface Washfountain shall be: Willoughby Model No. **WAF-540___**
(select from model number and options list on next page)

AquaFount® washfountain shall accommodate from 1 to 3 users simultaneously for the 3 station and 1 to 4 users simultaneously for the 4 station. The washfountain bowl and cover are constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate and mineral fillers. The pre-assembled water distribution heads and pedestal base shall be constructed of heavy gauge, type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Push buttons and water spray nozzles shall be constructed of type 303 stainless steel. The drain grate shall be constructed of heavy gauge stainless steel. The pre-assembled sprayhead module shall be equipped with independent spray nozzles controlled by separate push buttons or infrared sensors. Flow restrictors shall maintain flow rates at 0.5 GPM per station.

AquaFount® washfountains shall be supplied with thermostatic mixing valves, integral checkstops, drain spuds, flexible supply hoses, control valves, color coded water lines, and Class II 120/24 VAC plug-in transformers (as needed)*. Operating supply water pressure range is 25-80 PSI.

Vandal resistance:
The spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the head kit. Valves, water supplies, and waste connections are concealed within the pedestal. Removable access panels are secured with vandal-resistant security Torx screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, and ANSI Compliant:
When the washfountain is mounted at the standard 34" adult rim height, it is designed to comply with all applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines. This excludes Floor Mounted Foot Operated (FO) models.

Optional Features:
AquaFount® washfountains offer liquid soap dispensers as optional accessories. AquaFount® washfountains can be ordered with 31" rim heights for juvenile use (JR). A wall mounted stainless steel kick plate (KPWF) is available for wall-mounted pedestals with floor-based plumbing rough-ins.

** Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.*

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MODEL NUMBER AND OPTIONS:

1.) Washfountain Type:

- ❑ WAF-5403 AquaFount® 3 Station 54" Half Round Deep Bowl Solid Surface Washfountain
- ❑ WAF-5404 AquaFount® 4 Station 54" Half Round Deep Bowl Solid Surface Washfountain

2.) Pedestal Type:

- ❑ WALL Wall Mounted (Standard)
- ❑ FLR Floor Mounted (Not ADA Compliant)

3.) Junior Height Option:

- ❑ JR Junior Height (31" Rim Height, JR. ADA Compliant)

4.) Valve Actuation:

- ❑ PPB1 Standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering
- ❑ PZPB1 Ligature-resistant Piezo Electronic Push Buttons for Single Temperature Electronic (w/ Pneutronic Control)*
- ❑ IR Infrared Sensors, Hard-wired*
- ❑ BO Infrared Sensors, Battery Operated
- ❑ FO Foot Operated Pneumatic Push Buttons (Not ADA Compliant)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

5.) Solid Surface Colors:

- ❑ BN Bone
- ❑ GW Glacier White
- ❑ GG Grey Granite
- ❑ SS Sandstone
- ❑ WG White Granite
- ❑ BG Black Granite
- ❑ NB Nocturnal Blue
- ❑ RC Red Coral
- ❑ SG Sea Green

6.) Other Options:

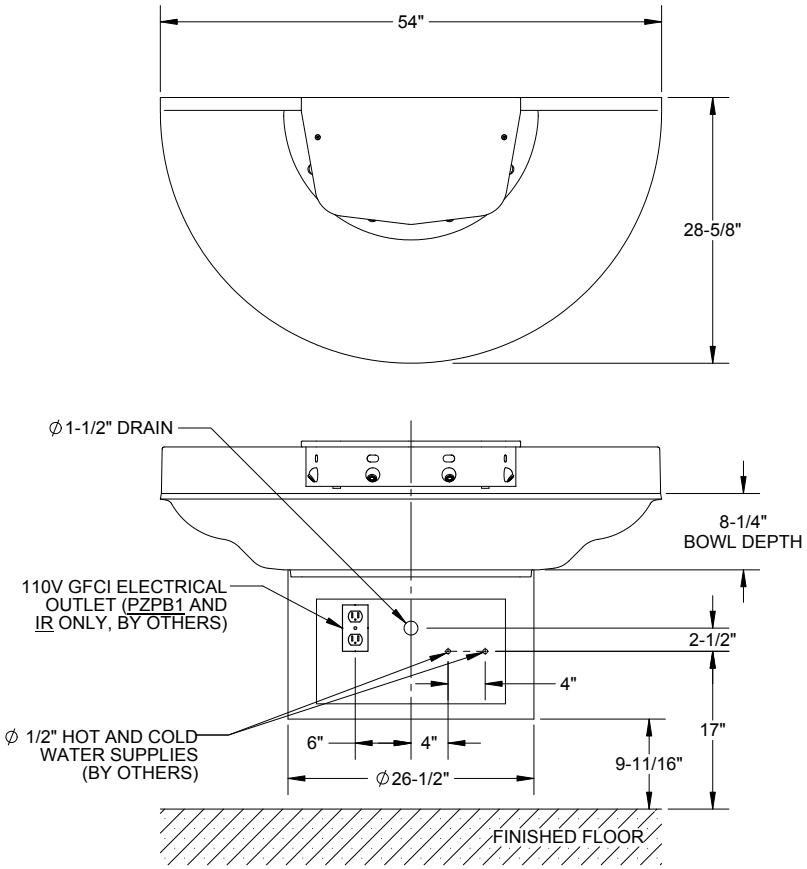
- ❑ LSD Liquid Soap Dispensers (2)
- ❑ TL Less In-line Thermostatic Mixing Valve
- ❑ KPWF Wall Mounted Stainless Steel Kick Plate (For wall-mounted pedestal only)
- ❑ LSH 1.5 gpm Laminar Flow Sprayheads
- ❑ Other _____
- ❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

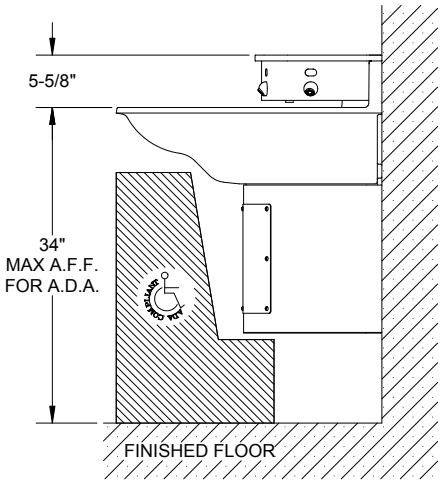
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IN COMPLIANCE WITH A.D.A. 2010

WALL MOUNTED ROUGH-IN SHOWN. FOR FLOOR MOUNTED ROUGH-IN, CONTACT FACTORY.

NOTE:
ROUGH-IN DIMENSIONS ARE FOR A RIM HEIGHT OF 34" AFF.
ADJUST DIMENSIONS ACCORDINGLY FOR ALTERNATE RIM HEIGHT.



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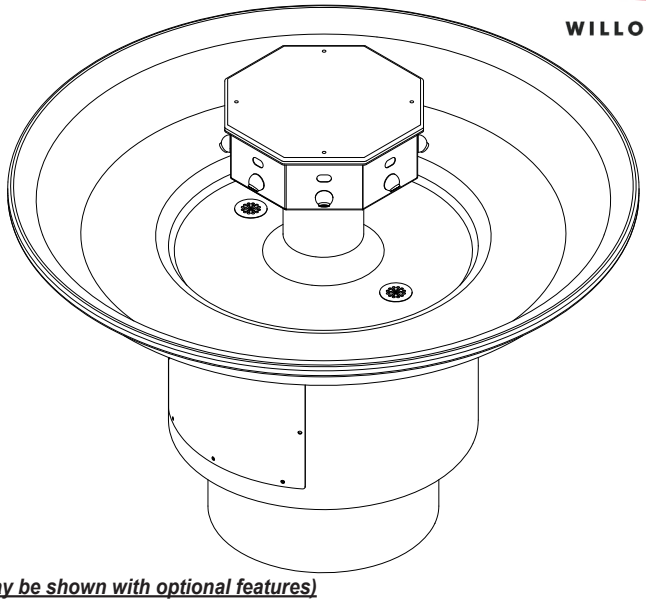
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Willoughby Industries - *Commercial Products*

WAF-5406/5408
AquaFount®
Six / Eight Station
Full Round
54" Solid Surface
Deep Bowl Washfountain



IN COMPLIANCE
WITH A.D.A. 2010

(Unit may be shown with optional features)

Recommended Specifications

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an eight station full round 36" AquaFount® washfountain with standard floor mounting (34" rim height), hard-wired infrared sensors, standard water supply from below, in Sandstone color

Use the following Willoughby Model Number:
WAF-5408-FLR-IR-SB-SS

AquaFount® Full Round, 54" Solid Surface Washfountain shall be: Willoughby Model No. **WAF-540___**
(select from model number and options list on next page)

AquaFount® washfountain shall accommodate from 1 to 6 users simultaneously for the 6 station and 1 to 8 users simultaneously for the 8 station. The washfountain bowl and cover are constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate and mineral fillers. The pre-assembled water distribution heads and pedestal base shall be constructed of heavy gauge, type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Push buttons and water spray nozzles shall be constructed of type 303 stainless steel. The drain grate shall be constructed of heavy gauge stainless steel. The pre-assembled sprayhead module shall be equipped with independent spray nozzles controlled by separate push buttons or infrared sensors. Flow restrictors shall maintain flow rates at 0.5 GPM per station.

AquaFount® washfountains shall be supplied with thermostatic mixing valves, integral checkstops, drain spuds, flexible supply hoses, control valves, color coded water lines, and Class II 120/24 VAC plug-in transformers (as needed)*. Operating supply water pressure range is 25-80 PSI.

Vandal resistance:
The spray nozzles, push buttons, infrared sensors, and escutcheons are secured to the unit from within the head kit. Valves, water supplies, and waste connections are concealed within the pedestal. Removable access panels are secured with vandal-resistant security Torx screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, and ANSI Compliant:
At the standard 34" adult rim height, all stations are designed to comply with all applicable ADA, TAS, and ANSI Z124.3 and Z124.6 accessibility guidelines. This excludes Floor Mounted Foot Operated (FO) models.

Optional Features:
AquaFount® washfountains offer liquid soap dispensers as optional accessories. AquaFount® washfountains can be ordered with 31" rim heights for juvenile use (JR).

* *<u>Note:</u> Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.*

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MODEL NUMBER AND OPTIONS:

1.) Washfountain Type:

- ❑ WAF-5406 AquaFount® 6 Station 54" Full Round Deep Bowl Solid Surface Washfountain
- ❑ WAF-5408 AquaFount® 8 Station 54" Full Round Deep Bowl Solid Surface Washfountain

2.) Pedestal Type:

- ❑ FLR Floor Mounted (Standard)

3.) Junior Height Option:

- ❑ JR Junior Height (31" Rim Height, Not JR. ADA Compliant)

4.) Valve Actuation:

- ❑ PPB1 Standard Pneumatic Push Buttons for Single Temperature Pneumatic Metering
- ❑ PZPB1 Ligature-resistant Piezo Electronic Push Buttons for Single Temperature Electronic (w/ Pneutronic Control)*
- ❑ IR Infrared Sensors, Hard-wired*
- ❑ BO Infrared Sensors, Battery Operated
- ❑ FO Foot Operated Pneumatic Push Buttons (Not ADA Compliant)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

5.) Water Supply:

- ❑ SB Supply From Below (Standard)
- ❑ SA Supply From Above (**Option** (TSHWF) recommended)

6.) Solid Surface Colors:

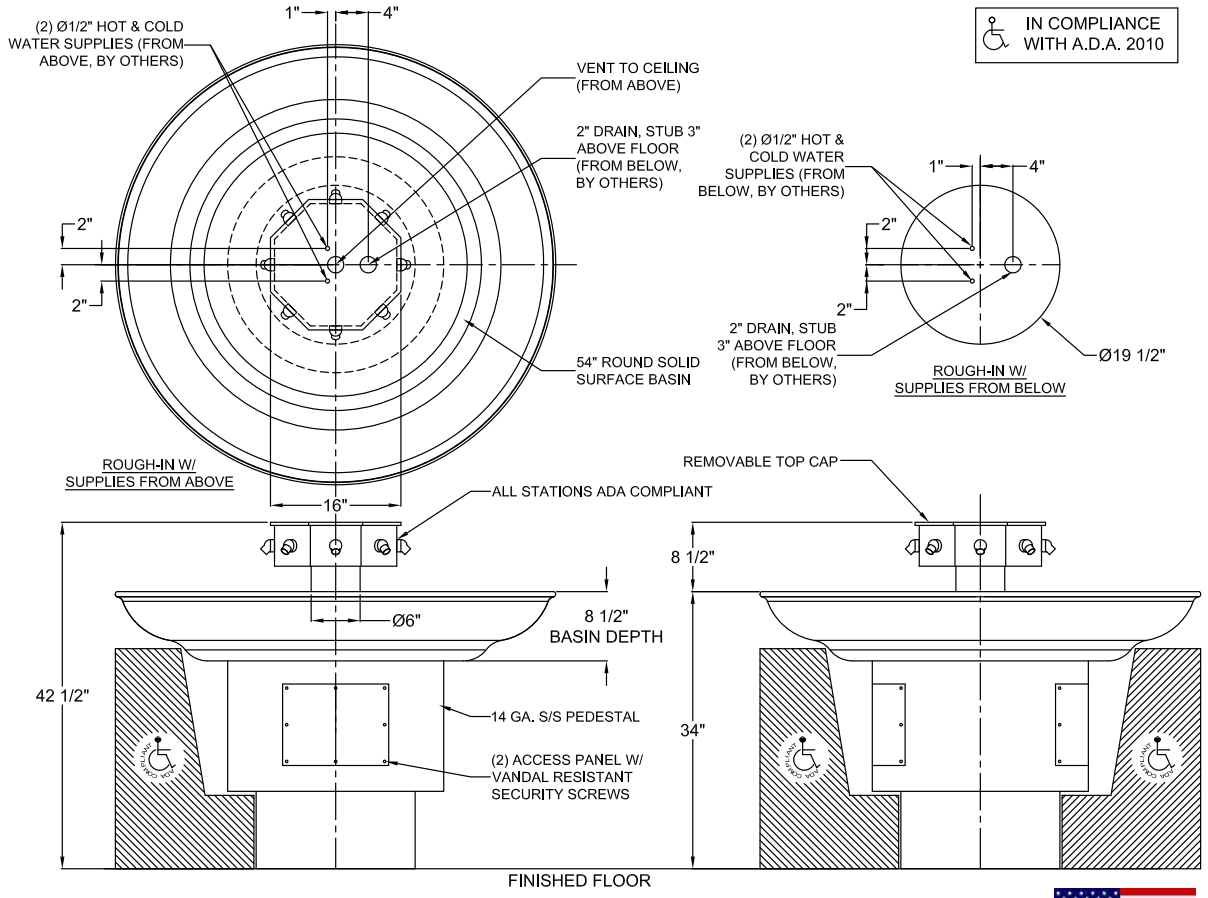
- ❑ BN Bone
- ❑ GW Glacier White
- ❑ GG Grey Granite
- ❑ SS Sandstone
- ❑ WG White Granite
- ❑ BG Black Granite
- ❑ NB Nocturnal Blue
- ❑ RC Red Coral
- ❑ SG Sea Green

7.) Other Options:

- ❑ LSD Liquid Soap Dispensers (2)
- ❑ TL Less In-line Thermostatic Mixing Valve
- ❑ SSC Stainless Steel Head Cover (Top Cap)
- ❑ TSHWF Telescoping Washfountain Shroud (For use on (SA) models only)
- ❑ LSH 1.5 gpm Laminar Flow Sprayheads
- ❑ Other _____
- ❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____



VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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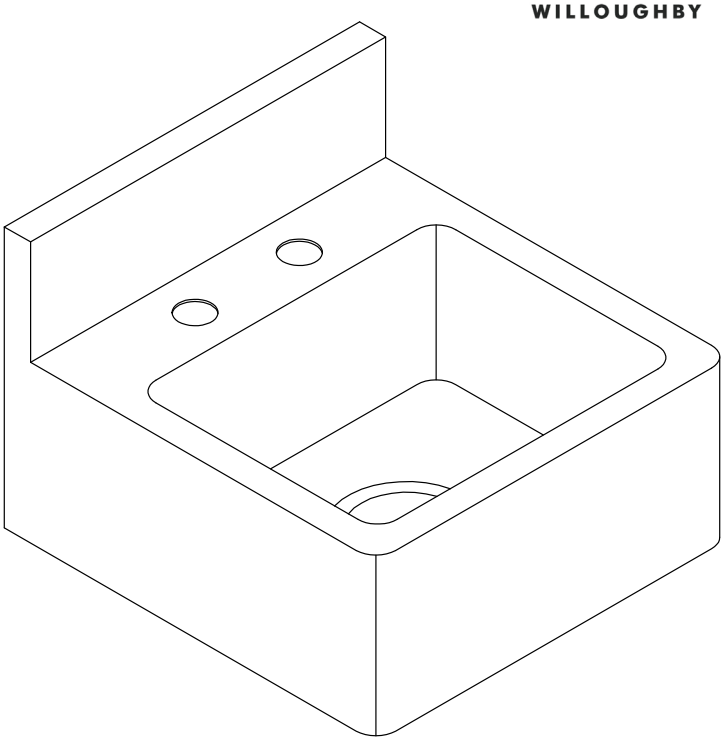
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CES-912
Commercial Hand Sink



Recommended Specifications

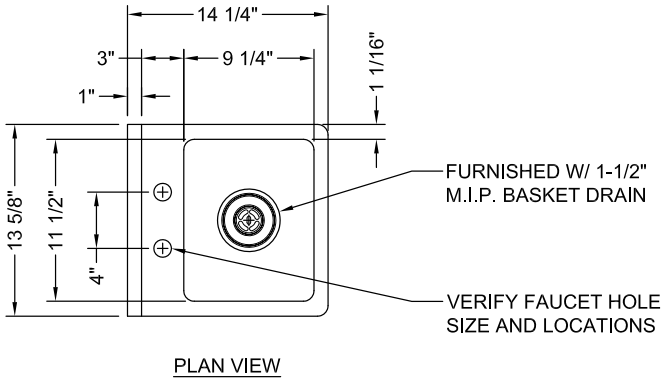
Commercial Hand Sink shall be:
Willoughby Model No. **CES-912**

Fixture shall be fabricated from 16 GA, Type 304 stainless steel. The construction shall be all-welded, with exposed stainless surfaces polished to a #4 satin finish.

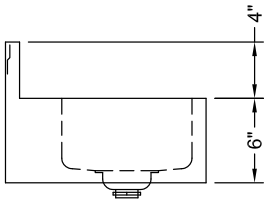
Standard lavatory shall include:
- Rectangular shaped bowl, 11-1/2" x 9-1/4" x 5" deep
- 1-1/2" M.I.P. basket drain
- 4"-on-center deck mounted faucet holes (Faucet by others)

Anchoring shall be from the front with 'Z' clips and anchoring holes, anchoring hardware by others. Unit requires no chase area for installation and maintenance.

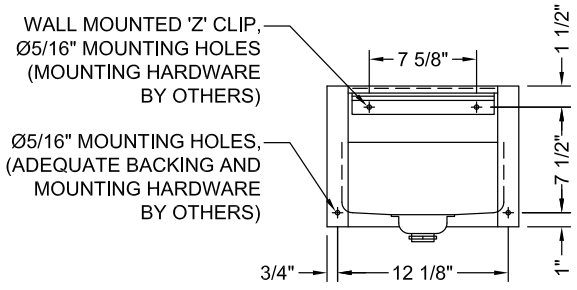
(Unit may be shown with optional features)



PLAN VIEW



SIDE VIEW



REAR VIEW

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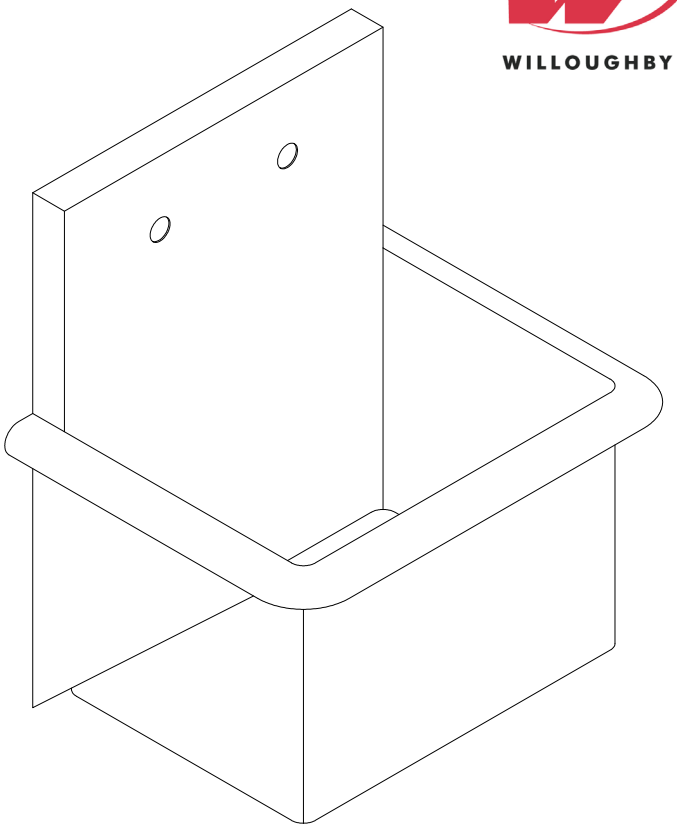
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CSS-2419
Commercial Service Sink



(Unit may be shown with optional features)

Recommended Specifications

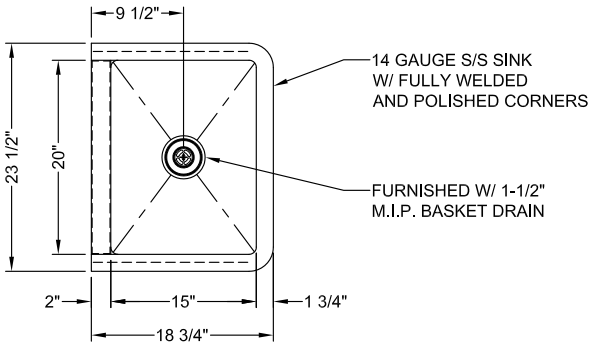
Commercial Service Sink shall be:
Willoughby Model No. **CSS-2419**

Fixture shall be fabricated from 14 GA, Type 304 stainless steel. The construction shall be all-welded, with exposed stainless surfaces polished to a #4 satin finish.

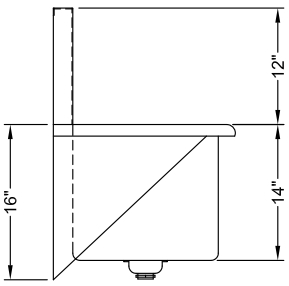
Standard equipment shall include:
- Rectangular shaped, 20" x 15" x 14" deep sink bowl
- 1-1/2" M.I.P. basket drain

Faucet by others. The service sink is manufactured to ASME A112.19.3/CSA B45.4.

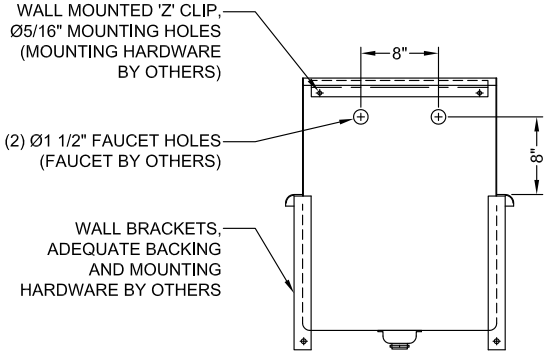
Anchoring shall be from the front with 'Z' clips and anchoring holes, anchoring hardware by others. Unit requires no chase area for installation and maintenance.



PLAN VIEW



SIDE VIEW



REAR VIEW

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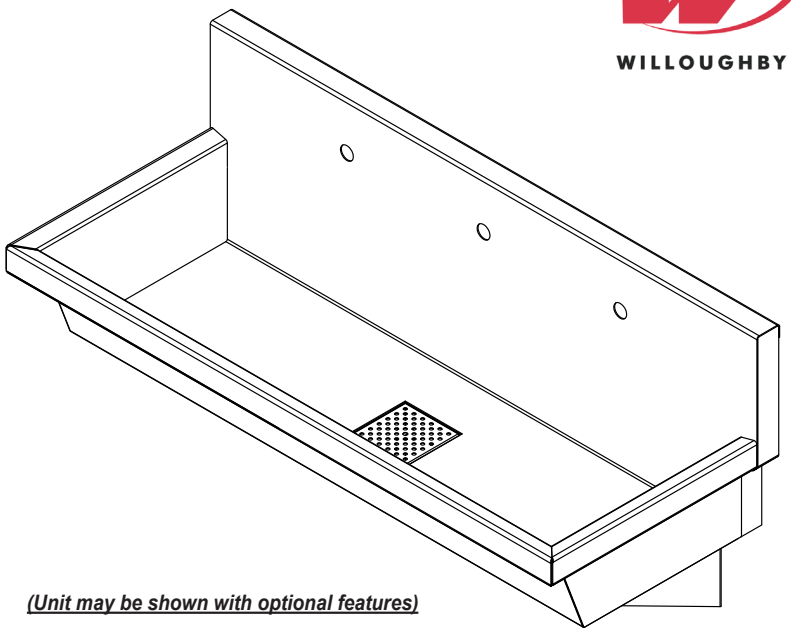
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Willoughby Industries - *Commercial Ware*

CWMES Series Multiple Station Hand Sink



(Unit may be shown with optional features)

Recommended Specifications

Multiple Station Hand Sink shall be:
Willoughby Model No. **CWMES-___**
(select model from table options)

Fixture, including bracing, shall be fabricated from 14 GA, Type 304 stainless steel. The construction shall be all-welded with exposed exterior stainless steel surfaces polished to a #4 satin finish.

Standard equipment shall include:
- 5" SQ. flat strainer drain

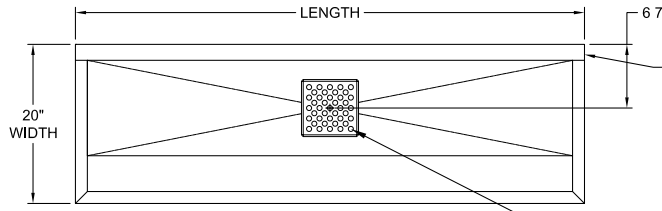
Faucets by others.

Anchoring shall be from the front with Z-clips and mounting holes. Anchoring hardware by others. Unit requires no chase area for installation and maintenance.

✓	MODEL NUMBER	LENGTH	WIDTH	DEPTH	FAUCET STATIONS
	CWMES-3620	36"	20"	8"	2
	CWMES-4820	48"	20"	8"	2
	CWMES-6020	60"	20"	8"	3
	CWMES-7220	72"	20"	8"	3
	CWMES-9620	96"	20"	8"	4

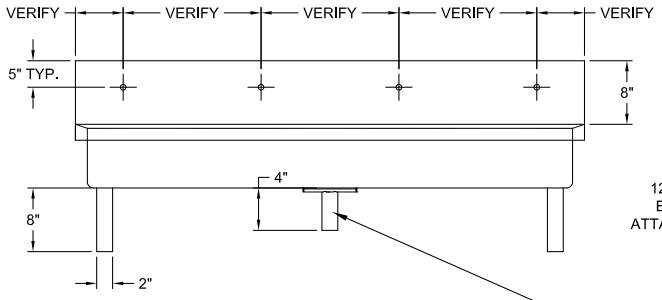
VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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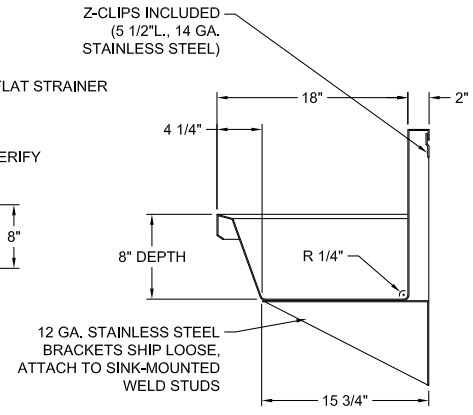


PLAN VIEW

NOTE:
VERIFY THE NUMBER OF STATIONS AND FAUCET HOLE PUNCHING CONFIGURATIONS



FRONT VIEW, 4-STATION



TYP. SECTION VIEW
(NOT TO SCALE)

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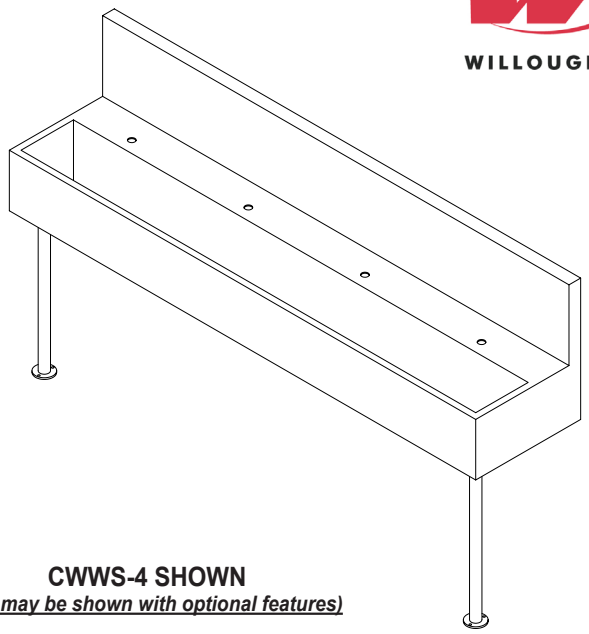
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CWWS
Commercial Wall Sink



CWWS-4 SHOWN
(Unit may be shown with optional features)

Recommended Specifications

Commercial Wall Sink shall be:
Willoughby Model No. **CWWS-___**
(select model from table)

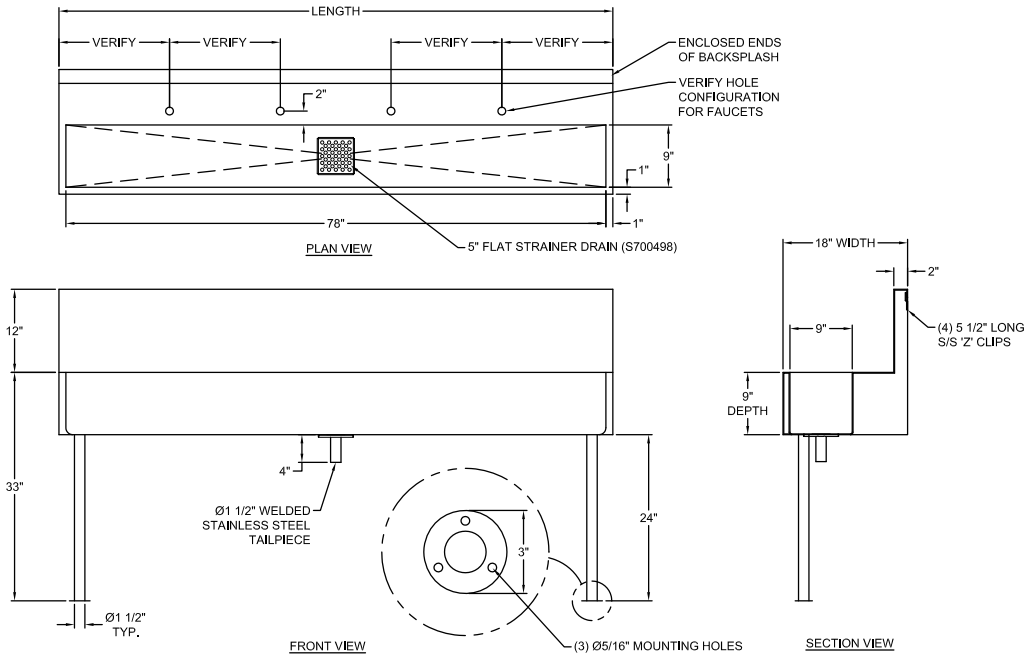
Fixture shall be fabricated from 14 GA, Type 304 stainless steel with 12 GA stainless steel under-bracing. The construction shall be all-welded with exposed exterior surfaces polished to a #4 satin finish. Bowl interior is a bead-blast finish.

Standard equipment shall include:
- Rectangular stainless steel bowl w/sound-deadened underside
- 1-1/2" O.D. stainless steel legs
- Flanged feet with (3) Ø5/16" holes for floor anchoring
- Z-clip for wall mounting
- 5" square flat strainer
- Ø1-1/2" x 4" long welded stainless steel tailpiece

Unit is field plumbed for faucet connections.
Verify faucet hole configurations when ordering.

✓	MODEL NUMBER	STATIONS	LENGTH	WIDTH
	CWWS-2	2	48"	18"
	CWWS-3	3	62"	18"
	CWWS-4	4	80"	18"
	CWWS-5	5	102"	18"

Other Options:
❑ SD Surface Mounted Soap Dishes



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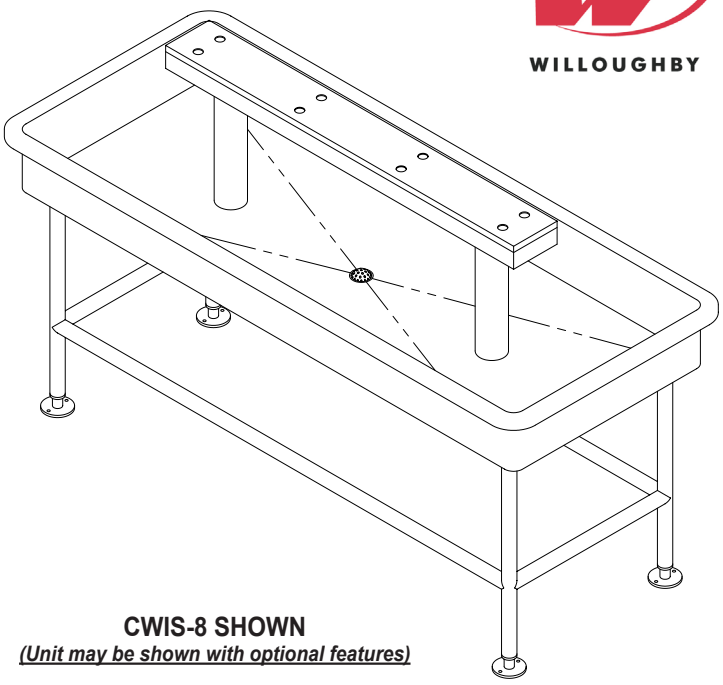
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Willoughby Industries - *Commercial Ware*

CWIS
Island Sink



CWIS-8 SHOWN
(Unit may be shown with optional features)

Recommended Specifications

Island sink shall be: Willoughby Model No. **CWIS-___**
(select model from model number and options page)

Fixture shall be fabricated from 14 GA, Type 304 stainless steel with 12 GA stainless steel under-bracing. The construction shall be all-welded with exposed exterior surfaces polished to a #4 satin finish. Bowl interior is a bead-blast finish.

Standard equipment shall include:
- Stainless steel bowl and head assembly
- Ø4" stainless support columns
- Ø1-1/2" O.D. stainless steel legs, adjustable flanged feet with (2) Ø5/16" holes for anchoring to the floor
- 2" beehive strainer with Ø2" x 4" long welded-on s/s tailpiece
- sound deadened underside of sink bowl.

Stainless steel head assembly cover is secured with vandal resistant screws. Unit is field plumbed for faucet connections. Verify faucet hole configurations when ordering.

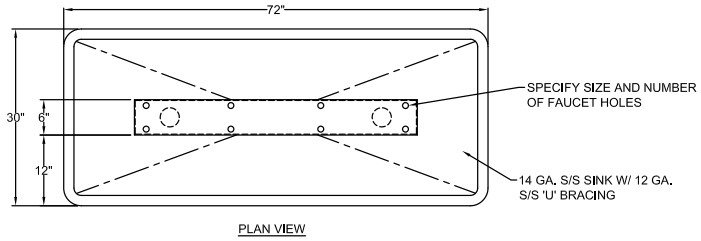
✓	MODEL NUMBER	STATIONS	LENGTH	WIDTH
	CWIS-6	6	58"	30"
	CWIS-8	8	72"	30"

Other Options:

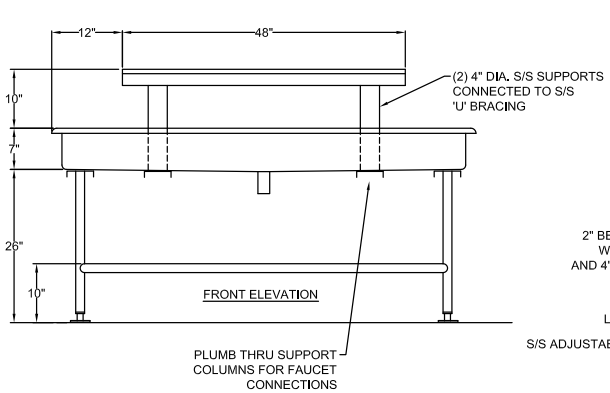
❑ SD Surface Mounted Soap Dishes
❑ ENB Enclosed Base

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

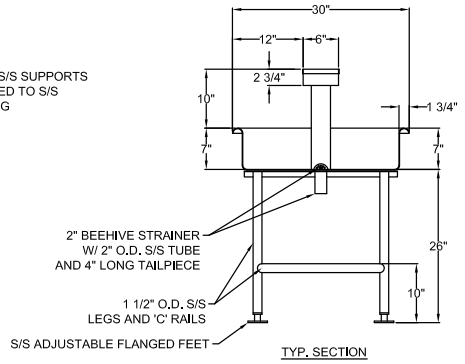
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PLAN VIEW



FRONT ELEVATION



TYP. SECTION

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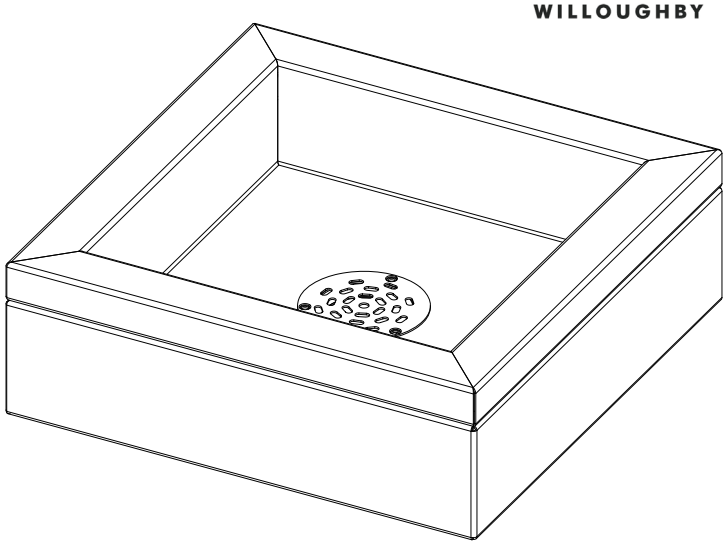
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Willoughby Industries - *Commercial Ware*

CWMS Series
Commercial Mop Sink



Recommended Specifications

Commercial Mop Sink shall be:
Willoughby Model No. **CWMS-___**
(select model from table and options list)

Entire fixture shall be fabricated from 16 GA, Type 304 stainless steel. The construction shall be all-welded, with exposed exterior stainless surfaces polished to a #4 satin finish.

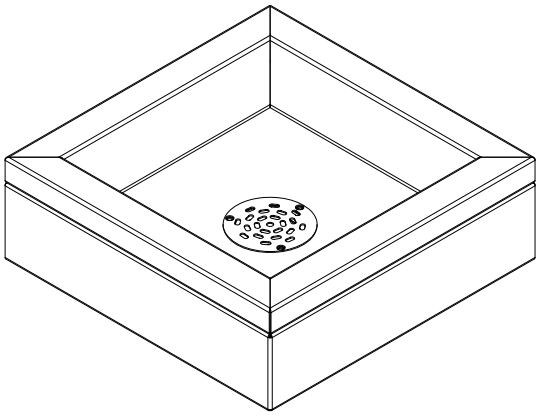
Standard equipment shall include: rectangular shaped sink (as selected from table), 3" caulk drain w/ removable strainer.

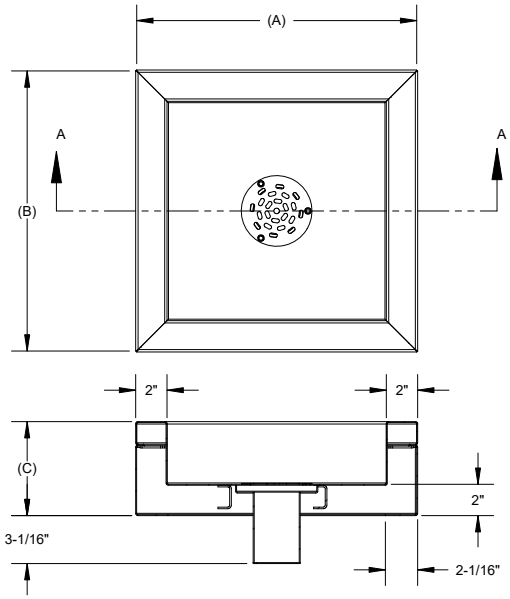
✓	MODEL NUMBER	SIZE: A x B x C
	CWMS-24246	24" x 24" x 6"
	CWMS-242412	24" x 24" x 12"
	CWMS-32326	32" x 32" x 6"
	CWMS-323212	32" x 32" x 12"
	CWMS-36366	36" x 36" x 6"
	CWMS-363612	36" x 36" x 12"

(Unit may be shown with optional features)

Other Options:

- ❑ KH60 60" Long Hose w/ Wall Hanger
- ❑ KMH 3 Mop Hanger- Stainless Steel Bracket
- ❑ KWG24 Stainless Steel Wall Guard 12" x 24", Specify Quantity:___
- ❑ KWG32 Stainless Steel Wall Guard 12" x 32", Specify Quantity:___
- ❑ KWG36 Stainless Steel Wall Guard 12" x 36", Specify Quantity:___





SECTION A-A

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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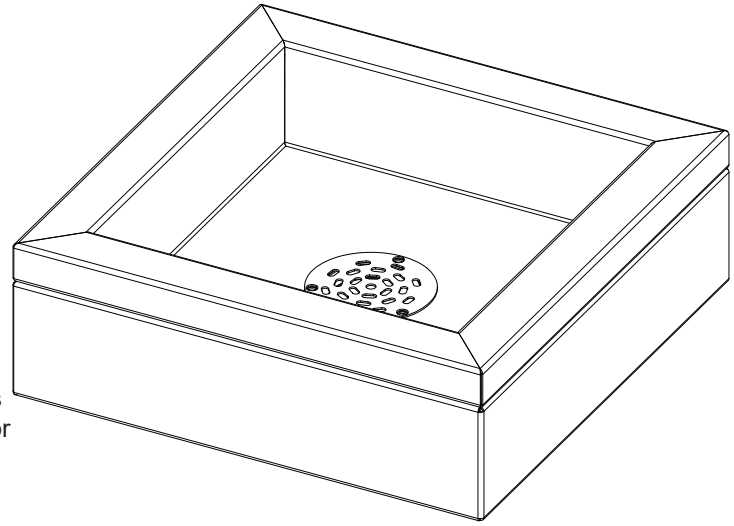
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Willoughby Industries - *Commercial Ware*

WILLOUGHBY

WMS Series
Mop Sink



Recommended Specifications

Mop Sink shall be:
Willoughby Model No. **WMS-___**
(select model from table above).

Entire fixture shall be fabricated from 14 GA, Type 304 stainless steel. The construction shall be all-welded, with exposed exterior stainless surfaces polished to a #4 satin finish.

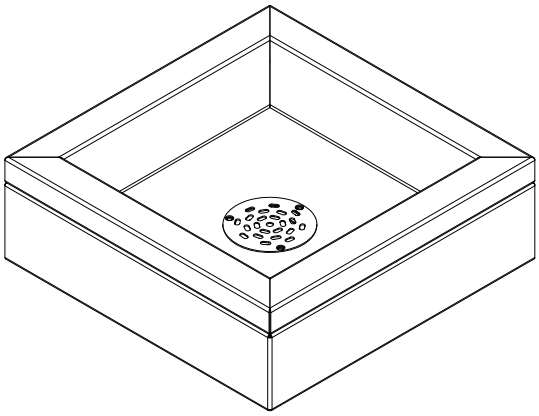
Standard equipment shall include: rectangular shaped sink (as selected from table), 3" caulk drain w/ removable strainer.

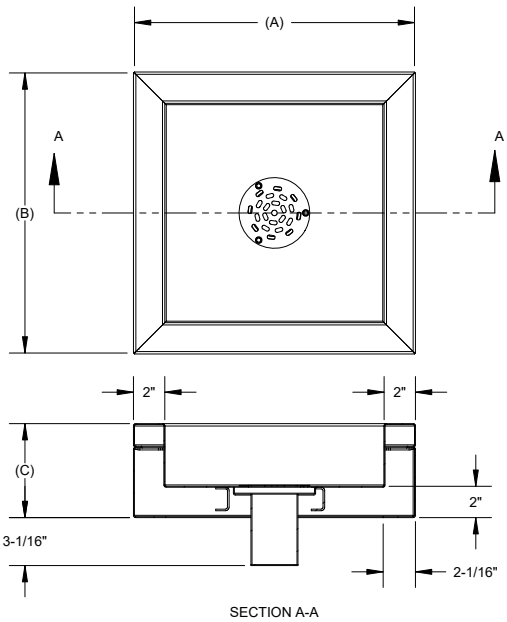
✓	MODEL NUMBER	SIZE: A x B x C
	WMS-24246	24" x 24" x 6"
	WMS-242412	24" x 24" x 12"
	WMS-32326	32" x 32" x 6"
	WMS-323212	32" x 32" x 12"
	WMS-36366	36" x 36" x 6"
	WMS-363612	36" x 36" x 12"

(Unit may be shown with optional features)

Other Options:

- ❑ KH60 60" Long Hose w/ Wall Hanger
- ❑ KMH 3 Mop Hanger- Stainless Steel Bracket
- ❑ KWG24 Stainless Steel Wall Guard 12" x 24", Specify Quantity:___
- ❑ KWG32 Stainless Steel Wall Guard 12" x 32", Specify Quantity:___
- ❑ KWG36 Stainless Steel Wall Guard 12" x 36", Specify Quantity:___





SECTION A-A

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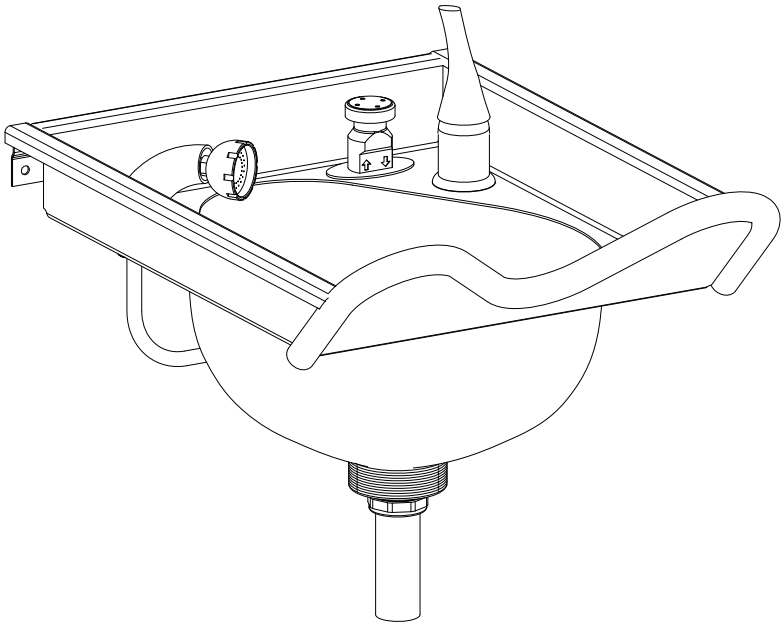
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Willoughby Industries - *Commercial Ware*

SB-1823
Stainless Steel
Shampoo Bowl



(Unit may be shown with optional features)

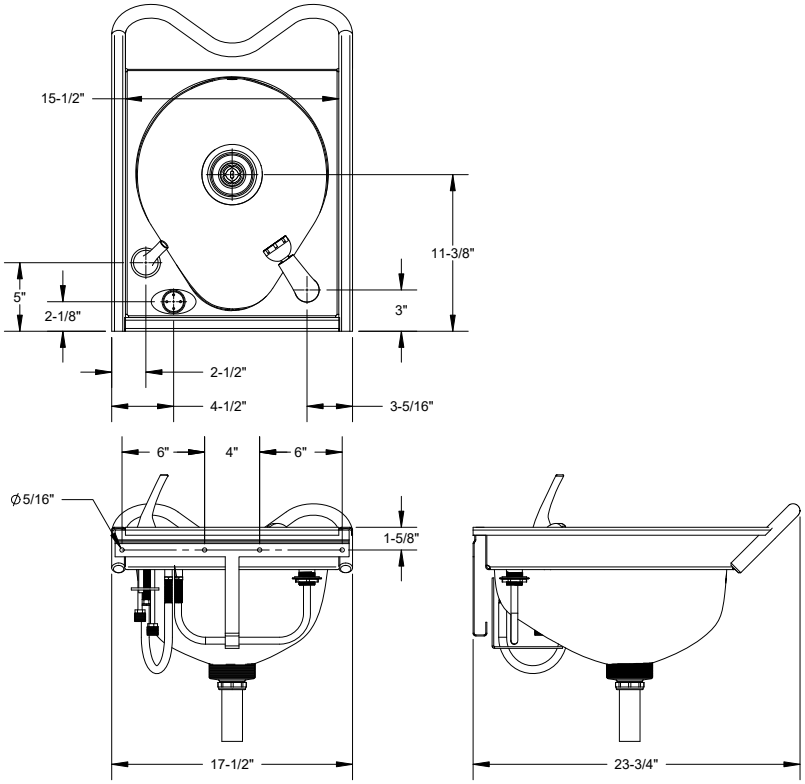
Recommended Specifications

Stainless Steel Shampoo Bowl shall be:
Willoughby Model No. **SB-1823**

The shampoo bowl shall accommodate one user at a time and have a contoured neck rest.

Standard shampoo bowl shall be fabricated from 14 GA, Type 304 stainless steel, and includes:
- Stainless steel 3-1/2" basket strainer with drain
- Wall mounting bracket (less wall mounting hardware)

An optional single handle multi-temperature faucet with removable hand-held sprayer and vacuum breaker is available (shown, P/N: WSB-KIT).



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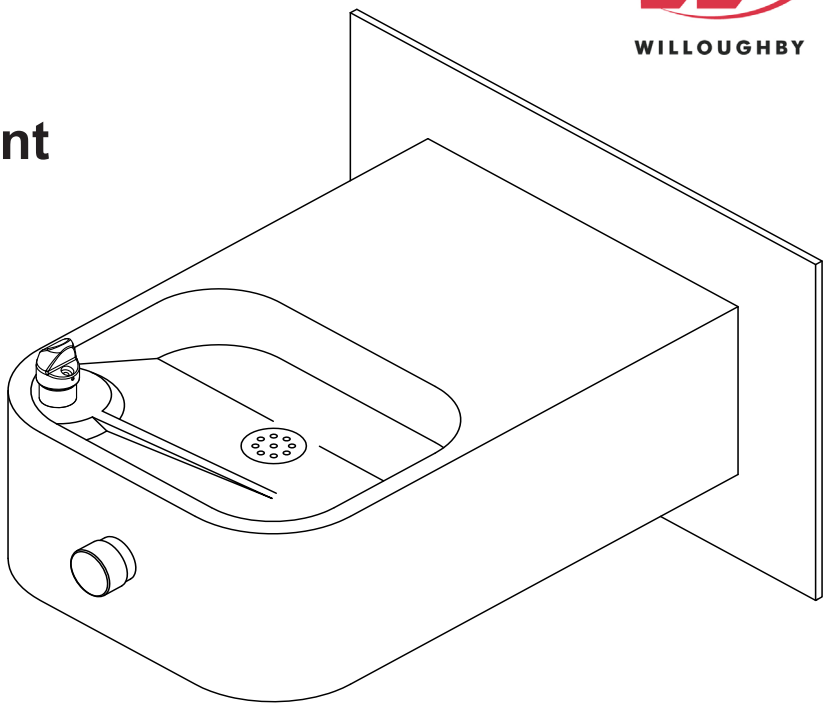
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DF-1812-FA
Small Profile
Handicap-ADA Compliant
Front Access
Drinking Fountain



(Unit may be shown with optional features)

IN COMPLIANCE
WITH A.D.A. 2010

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Small Profile, Handicap-ADA Compliant, Front Access Drinking Fountain with standard drinking fountain bubbler, standard single temp. non-metering pneumatic valve and push button, standard removable 'p'-trap, and s/s wall back-panel

Use the following Willoughby Model Number:
DF-1812-FA-CDB-PSL1-PLPB-RPT-WPB

Recommended Specifications

Small Profile, Handicap-ADA Compliant, Front Access Drinking Fountain shall be: Willoughby Model No. **DF-1812-FA** (select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all-welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Rectangular-shaped basin with rounded corners, 8-5/8" x 10-3/4" x 2" deep
- Removable stainless steel fast drain
- (CDB) stainless steel drinking fountain bubbler
- (PSL1) Single temperature, non-metering pneumatic valve w/ (PLPB) pneumatic palm push button
- (RPT) slip joint, cast brass union 'p'-trap (1-1/2")
- Removable bottom panel attached w/ vandal resistant screws

Cabinet interior shall be sound deadened with fire-resistant material.

Mounting:
Anchoring shall be from the front with mounting plate and attachment screws provided. Anchoring hardware by others.

Unit requires no chase area for installation and maintenance.

Vandal Resistance:
All push buttons and escutcheons are secured to the unit from within the fixture. Valves, water supplies and waste connections are concealed within. The bottom panel is removable and secured with vandal resistant security screws.

ADA and ANSI Compliant:
When the drinking fountain is mounted at standard 36" bubbler height, it is designed to comply with applicable ADA and ANSI Z124.3 and Z124.6 accessibility guidelines.

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MODEL NUMBER AND OPTIONS:

1.) Drinking Fountain Model:

❑ DF-1812-FA Small Profile, Handicap-ADA Compliant, Front Access Drinking Fountain

2.) Bubbler Selection:

❑ CDB Drinking Fountain Bubbler (Standard)

3.) Valve Selection:

❑ PSL1 Single Temp. Pneumatic Non-metering (Standard)

4.) Push Button Selection:

❑ PLPB Pneumatic Palm Push Button (Standard)

5.) Drinking Fountain Waste:

❑ RPT Slip Joint, Cast Brass Union 'P'-trap (Removable, 1-1/2") (Standard)

6.) Other Options:

❑ MT Wall Template

❑ WBP Stainless Steel Wall Back-Panel

❑ Other: _____

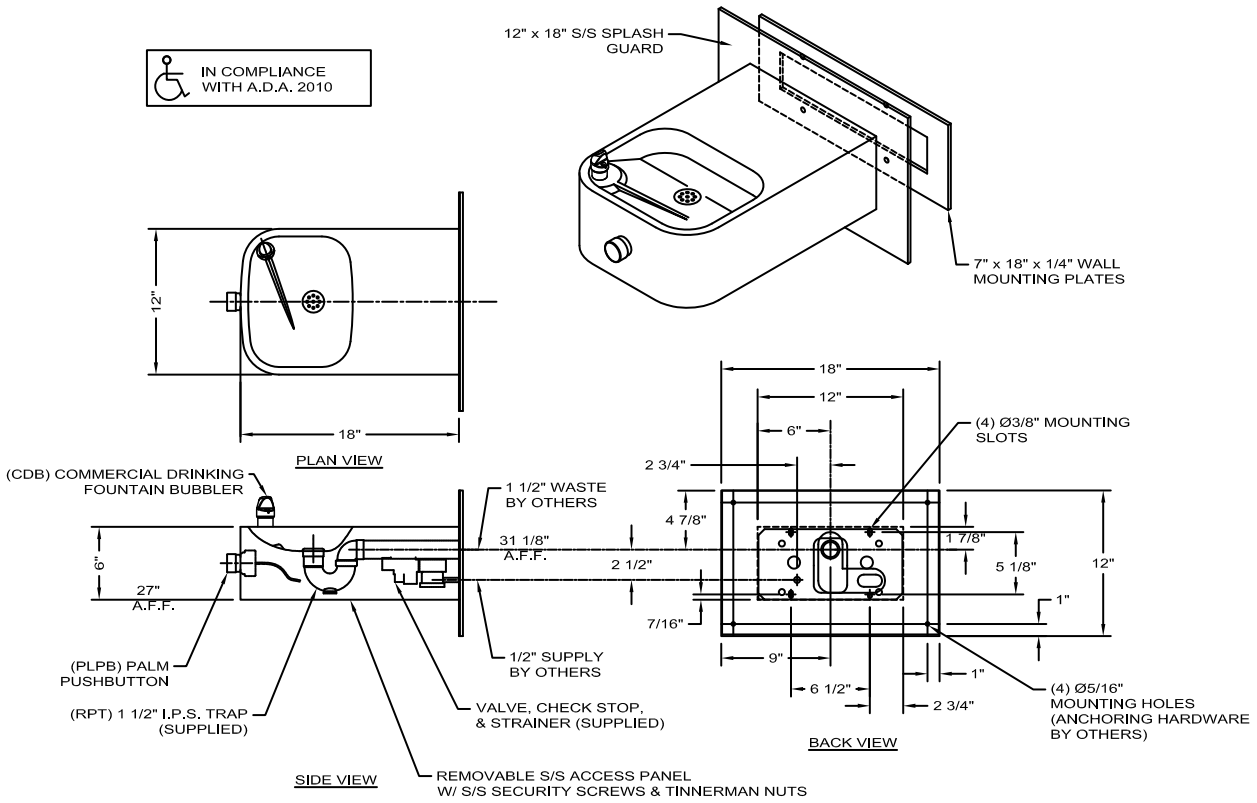
❑ Other: _____

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

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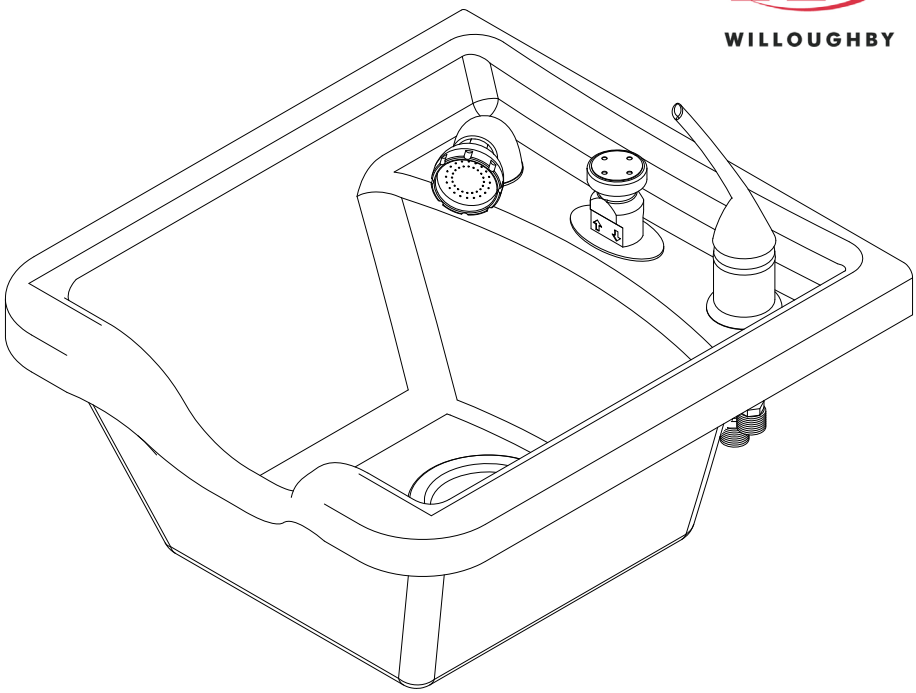
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WSB-1911 Aquasurf® Solid Surface Shampoo Bowl 18" Wide



(SOME OPTIONS MAY BE SHOWN)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an Aquasurf Solid Surface Shampoo Bowl (18" Wide) with single faucet, vacuum breaker, and hand sprayer in Red Coral

Use the following Willoughby Model Number:
WSB-1911-SHF-RC

Recommended Specifications

Aquasurf® Solid Surface Shampoo Bowl (18" Wide) shall be:
Willoughby Model No. **WSB-1911**
(Select from model number and options list on next page)

The 18" Wide Aquasurf® shampoo bowl shall accommodate one user at a time and have a contoured neck rest.

Standard WSB-1911 shampoo bowl shall be fabricated from Aquasurf® Solid Surface material, and includes:
- Stainless steel 3-1/2" basket strainer with drain
- Wall mounting bracket (less wall mounting hardware)

An optional single handle multi-temperature faucet with removable hand-held sprayer and vacuum breaker is available.

Aquasurf® WSB-1911 shall be constructed of molded cast polymer densified solid surface material composed of polyester/acrylic resin. UV stabilizer, aluminum trihydrate, mineral fillers and proprietary colorant. The Aquasurf® solid surface material is resistant to stains, impact and burns.

Surface damage can be easily repaired with everyday cleaners and/or fine grit abrasives.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ WSB-1911 Aquasurf® Solid Surface Shampoo Bowl (18" Wide)

2.) Hole Selection:

❑ NF No Faucet Included (Drilled By Others)
❑ SHF Single Handle Faucet with Vacuum Breaker and Hand Held Sprayer

3.) Solid Surface Colors:

❑ BN Bone
❑ GW Glacier White
❑ GG Grey Granite
❑ SS Sandstone
❑ WG White Granite
❑ BG Black Granite
❑ NB Nocturnal Blue
❑ RC Red Coral
❑ SG Sea Green

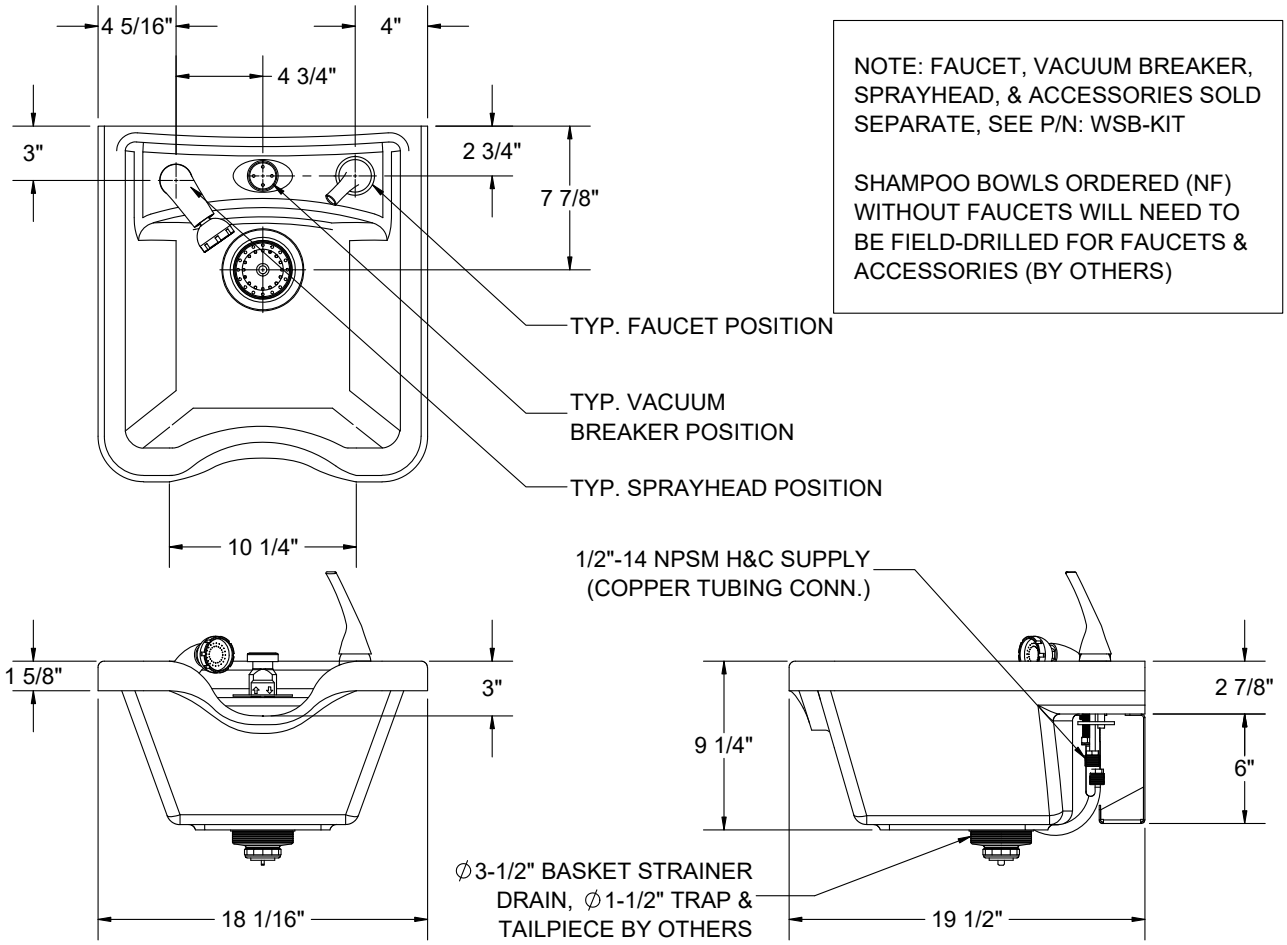
4.) Options:

❑ Other _____
❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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NOTE: FAUCET, VACUUM BREAKER, SPRAYHEAD, & ACCESSORIES SOLD SEPARATE, SEE P/N: WSB-KIT

SHAMPOO BOWLS ORDERED (NF) WITHOUT FAUCETS WILL NEED TO BE FIELD-DRILLED FOR FAUCETS & ACCESSORIES (BY OTHERS)

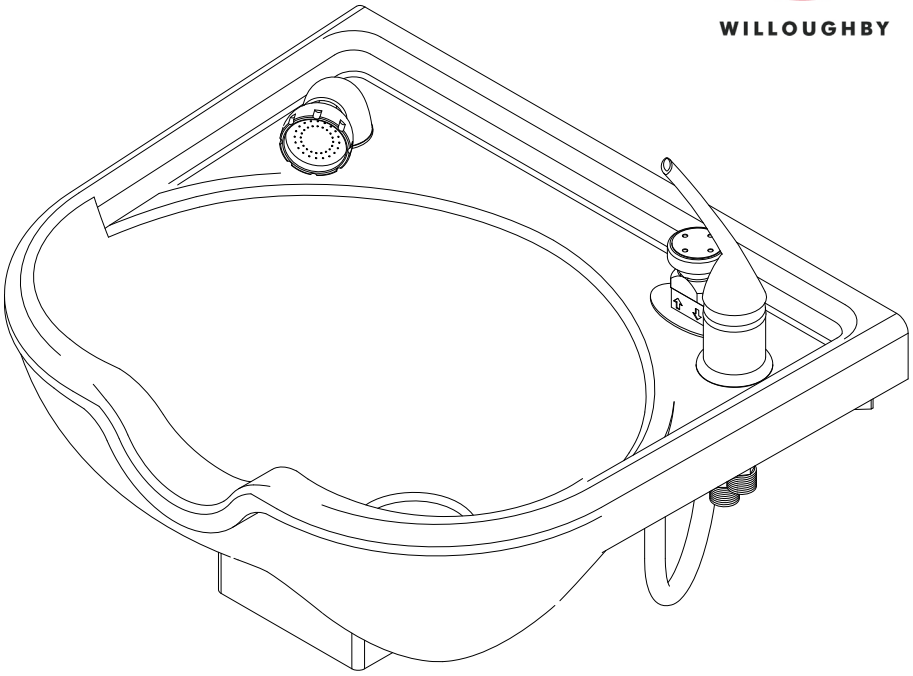
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WSB-2111 Aquasurf® Solid Surface Shampoo Bowl 22" Wide



(SOME OPTIONS MAY BE SHOWN)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an Aquasurf Solid Surface Shampoo Bowl (22" Wide) with single faucet, vacuum breaker, and hand sprayer in Red Coral

Use the following Willoughby Model Number:
WSB-2111-SHF-RC

Recommended Specifications

Aquasurf® Solid Surface Shampoo Bowl (22" Wide) shall be:
Willoughby Model No. **WSB-2111**
(Select from model number and options list on next page)

The 22" Wide Aquasurf® shampoo bowl shall accommodate one user at a time and have a contoured neck rest.

Standard WSB-2111 shampoo bowl shall be fabricated from Aquasurf® Solid Surface material, and includes:
- Stainless steel 3-1/2" basket strainer with drain
- Wall mounting bracket (less wall mounting hardware)

An optional single handle multi-temperature faucet with removable hand-held sprayer and vacuum breaker is available.

Aquasurf® WSB-2111 shall be constructed of molded cast polymer densified solid surface material composed of polyester/acrylic resin. UV stabilizer, aluminum trihydrate, mineral fillers and proprietary colorant. The Aquasurf® solid surface material is resistant to stains, impact and burns.

Surface damage can be easily repaired with everyday cleaners and/or fine grit abrasives.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ WSB-2111 Aquasurf® Solid Surface Shampoo Bowl (22" Wide)

2.) Hole Selection:

❑ NF No Faucet Included (Drilled By Others)

❑ SHF Single Handle Faucet with Vacuum Breaker and Hand Held Sprayer

3.) Solid Surface Colors:

❑ BN Bone

❑ GW Glacier White

❑ GG Grey Granite

❑ SS Sandstone

❑ WG White Granite

❑ BG Black Granite

❑ NB Nocturnal Blue

❑ RC Red Coral

❑ SG Sea Green

4.) Options:

❑ Other _____

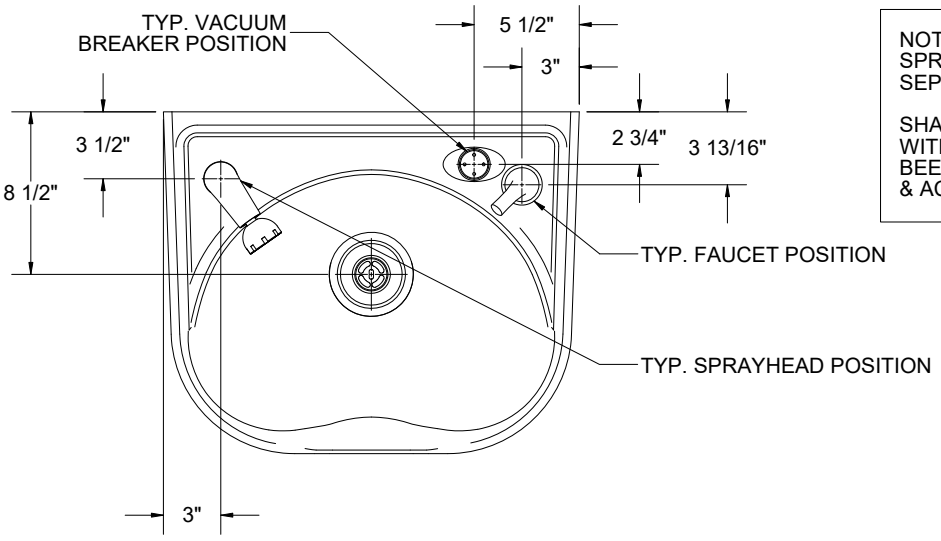
❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

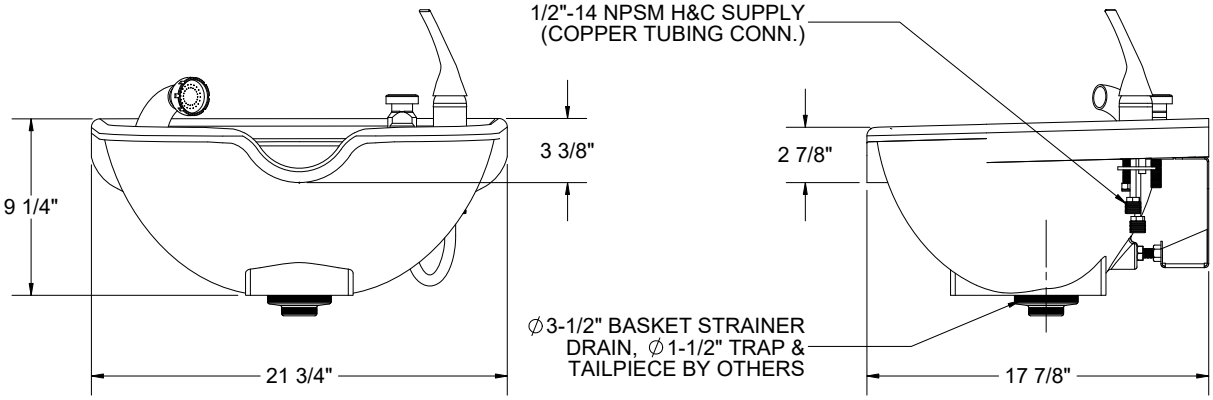
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NOTE: FAUCET, VACUUM BREAKER, SPRAYHEAD, & ACCESSORIES SOLD SEPARATE, SEE P/N: WSB-KIT

SHAMPOO BOWLS ORDERED (NF) WITHOUT FAUCETS, WILL NEED TO BEE FIELD-DRILLED FOR FAUCETS & ACCESSORIES (BY OTHERS)



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WILLOUGHBY

HB Series
Hose Box

✓	MODEL NUMBER	DESCRIPTION
	HB-8140	SINGLE TEMPERATURE HOSE BOX - WITH WALL FLANGE, LESS DOOR, LESS VACUUM BREAKER
	HB-8141	SINGLE TEMPERATURE HOSE BOX - WITH WALL FLANGE, LESS DOOR, WITH VACUUM BREAKER
	HB-8145	DUAL TEMPERATURE HOSE BOX - WITH WALL FLANGE, LESS DOOR, LESS VACUUM BREAKER
	HB-8146	DUAL TEMPERATURE HOSE BOX - WITH WALL FLANGE, LESS DOOR, WITH VACUUM BREAKER
	HB-8150	SINGLE TEMPERATURE HOSE BOX - WITH WALL FLANGE, WITH DOOR, LESS VACUUM BREAKER
	HB-8151	SINGLE TEMPERATURE HOSE BOX - WITH WALL FLANGE, WITH DOOR, WITH VACUUM BREAKER
	HB-8155	DUAL TEMPERATURE HOSE BOX - WITH WALL FLANGE, WITH DOOR, LESS VACUUM BREAKER
	HB-8156	DUAL TEMPERATURE HOSE BOX - WITH WALL FLANGE, WITH DOOR, WITH VACUUM BREAKER
	HB-8180	SINGLE TEMPERATURE HOSE BOX - WITH WASTE, WITH WALL FLANGE, LESS DOOR, LESS VACUUM BREAKER
	HB-8181	SINGLE TEMPERATURE HOSE BOX - WITH WASTE, WITH WALL FLANGE, LESS DOOR, WITH VACUUM BREAKER
	HB-8185	DUAL TEMPERATURE HOSE BOX - WITH WASTE, WITH WALL FLANGE, LESS DOOR, LESS VACUUM BREAKER
	HB-8186	DUAL TEMPERATURE HOSE BOX - WITH WASTE, WITH WALL FLANGE, LESS DOOR, WITH VACUUM BREAKER

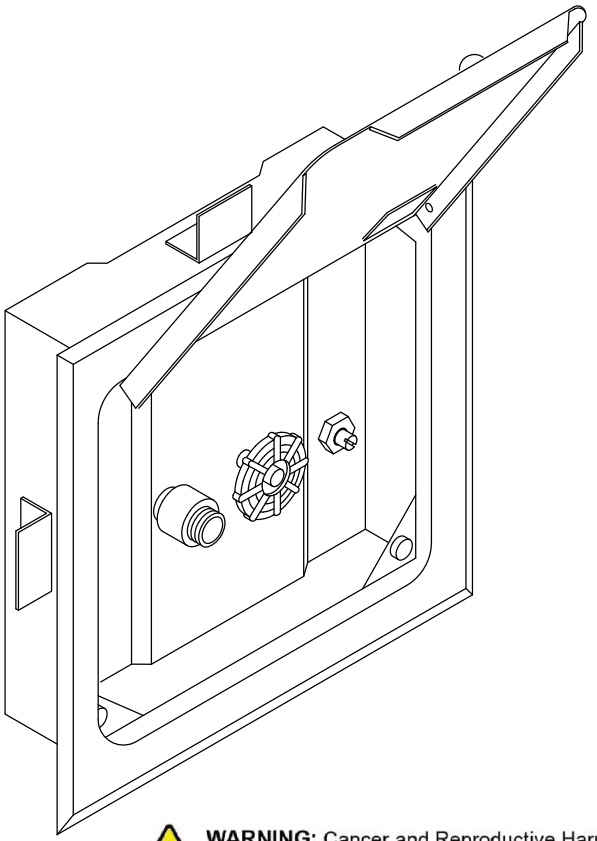
Recommended Specifications

HB Series Hose Box shall be:
Willoughby Model No. **HB-_____**
(Select from model number table shown above)

Recessed box, wall flange, waste outlet, and door (if applicable) shall be fabricated from T304 stainless steel with exposed surfaces polished to a satin finish. The wall flange shall mount flush to the supporting finished wall.

Standard equipment shall include:
- 1/2" nominal brass valves and fittings
- screwdriver stops on the inlets

Inlets shall be 1/2" F.I.P. and outlets are 3/4" M.G.H.T.

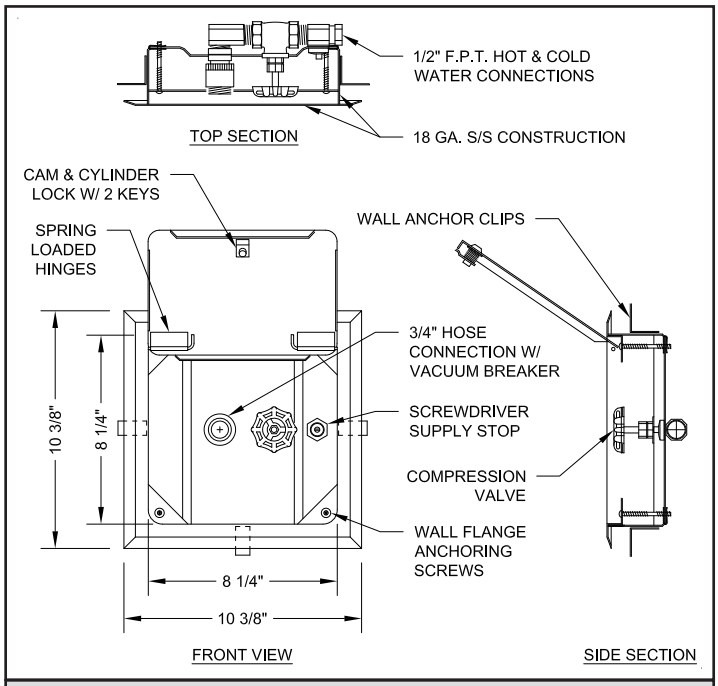


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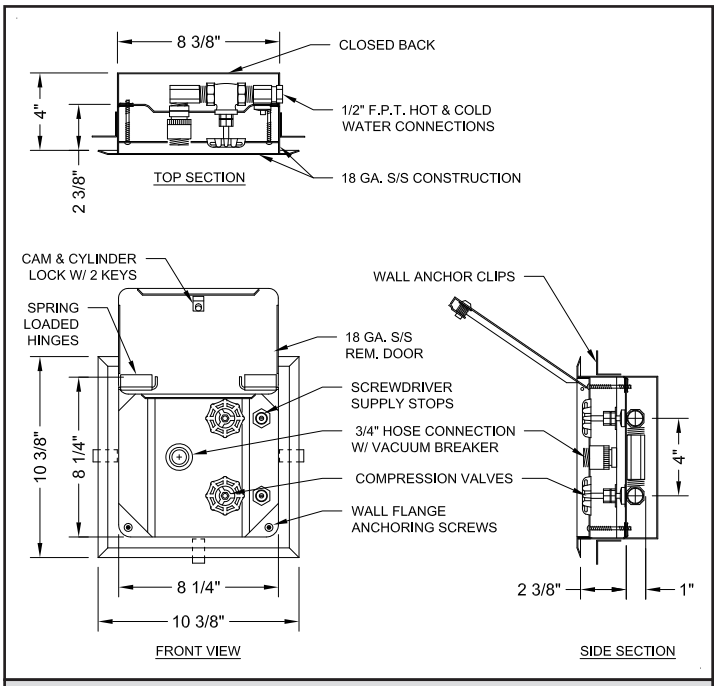
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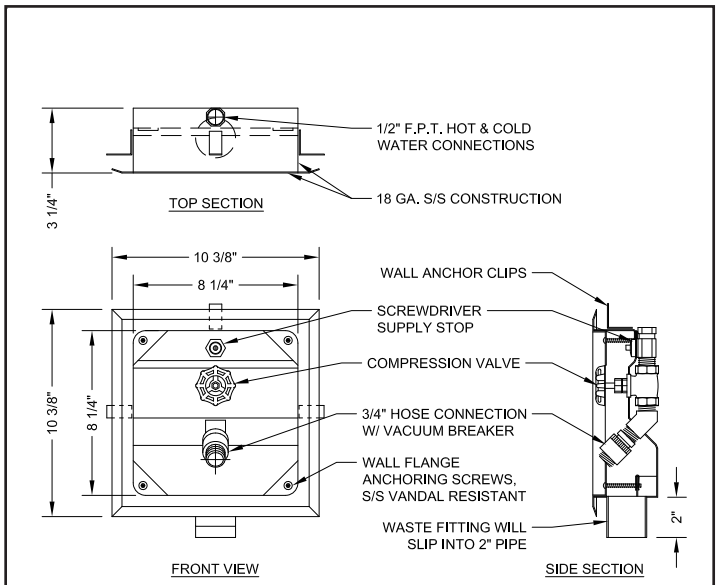
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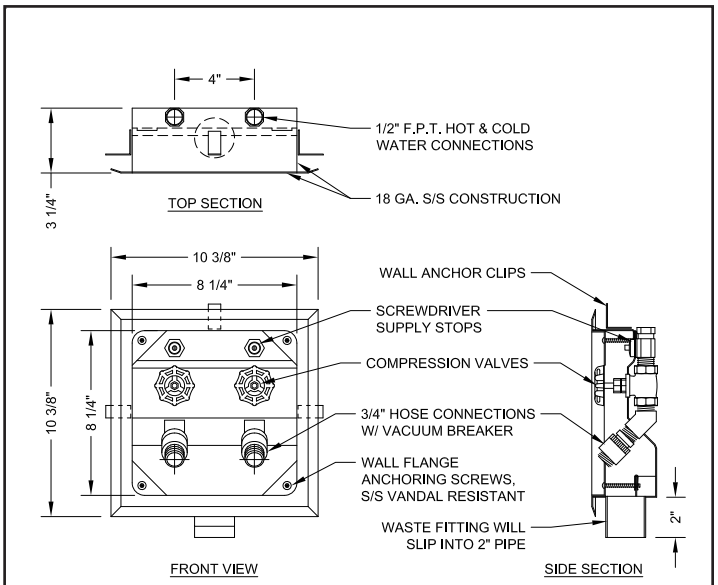
HB-8151



HB-8156



HB-8181



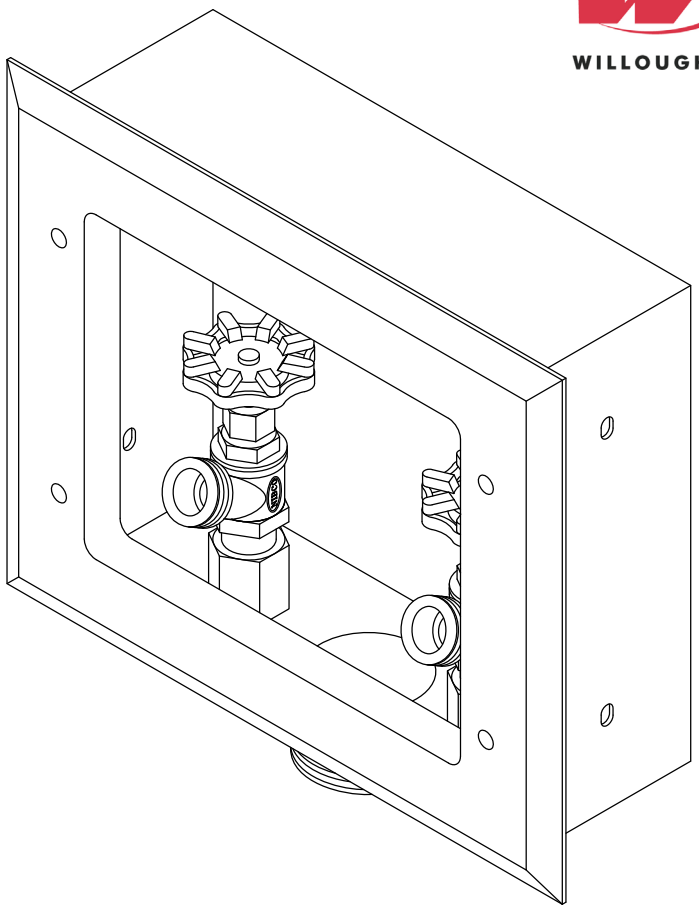
HB-8186

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HBBD Series Hose Box with Wall Flange and Boiler Drain Valve



Recommended Specifications

HBBD Series Hose Box with Wall Flange and Boiler Drain Valve shall be: Willoughby Model No. **HBBD-_____**
(Select from model number and options list on next page)

Hose box and wall flange are fabricated from T304 stainless steel with exposed surfaces polished to a satin finish. The wall flange shall mount flush to the supporting finished wall.

Standard equipment shall include:
- 1/2" brass boiler drain valve(s)
- 2" M.I.P. drain

The valve and stop feature tamper-resistant lock-shield bonnets and replaceable cartridges containing all wearing parts.

Supply inlets are 1/2" F.I.P. and outlets are 3/4" M.G.H.T.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ HBBD-8251 Single Temperature HBBD Series Hose Box with Wall Flange and Boiler Drain Valve

❑ HBBD-8252 Dual Temperature HBBD Series Hose Box with Wall Flange and Boiler Drain Valve

2.) Other Options:

❑ Other _____

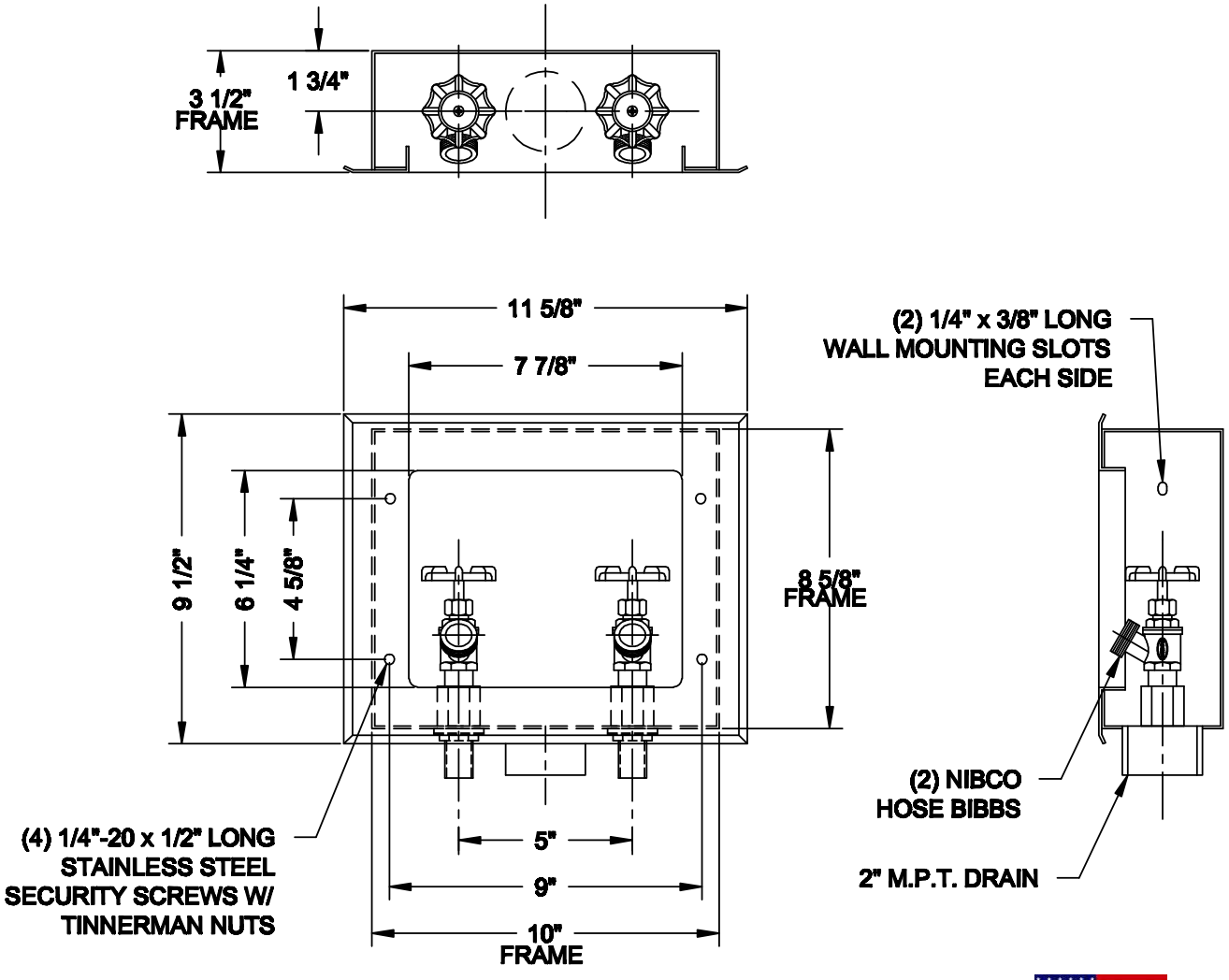
❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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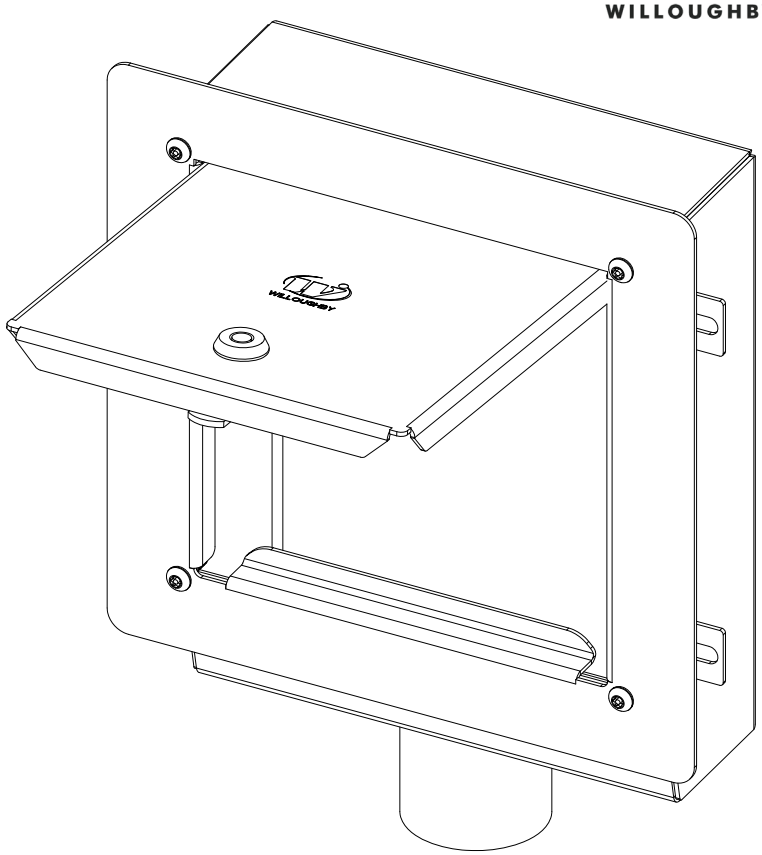
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Willoughby Industries - *Commercial Products*

WILLOUGHBY

HB-8200
Recessed Drain Box
w/ Wall Flange and Door



Recommended Specifications

Recessed Drain Box shall be:
Willoughby Model No. **HB-8200**
(Select from model number and options list on next page)

Recessed Drain Box is a Type 304 stainless steel (Type 316 optional), recessed wall box designed to be used with plumbing equipment provided by others. The wall box, wall flange, and locking door shall be fabricated from stainless steel, seam-welded water-tight, with surfaces flush to the supporting wall.

Standard features include:

Drain Box / Receptor:
- The box and receptor will have a standard glass-blast finish.
- The waste receptor/outlet is a Ø2-3/8" OD stainless steel tailpiece. The tailpiece can be connected directly to a nominal Ø2" drain line with a mechanical coupling.

Wall Flange and Door:
- Both the wall flange and door will have standard #3 satin finishes.
- Wall flange is designed to cover any space between the wall and box and is securely anchored with security screws at each corner.
- The locking door comes standard with cam cylinder lock and two keys.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ HB-8200 Recessed Drain Box w/ Wall Flange and Door

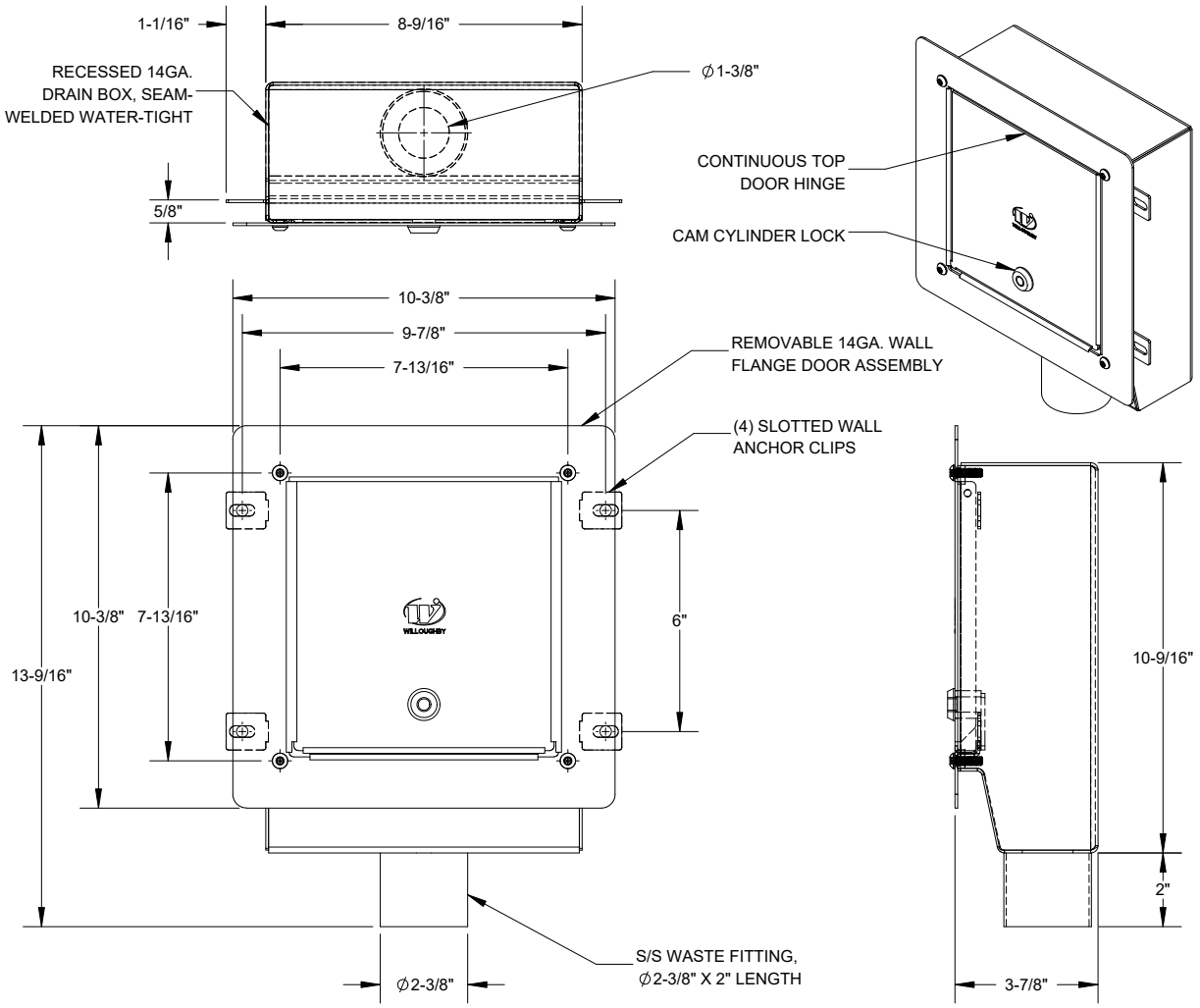
2.) Other Options:

❑ 316 T316 Stainless Steel Fixture
❑ LDR Less Wall Flange and Door
❑ Other _____
❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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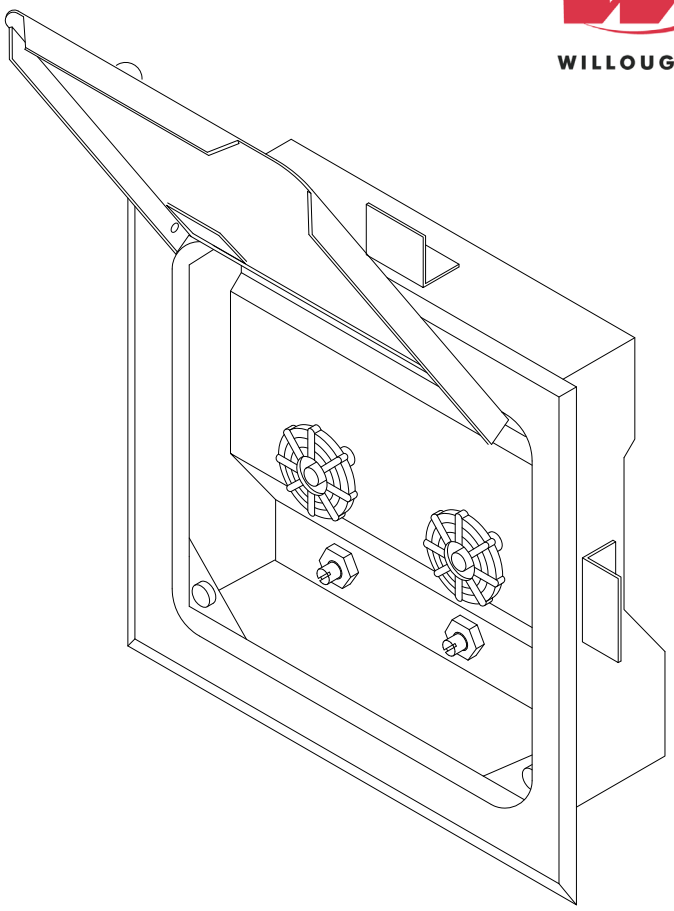


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RSB-8201
Dual Temperature
Remote Supply Box



Recommended Specifications

Dual Temperature Remote Supply Box shall be:
Willoughby Model No. **RSB-8201**
(Select from model number and options list on next page)

Remote supply wall box is 18 GA, Type 304 stainless steel with a glass blast finish interior, and exposed surfaces polished to a satin finish. The wall box exterior includes mounting clips for anchoring the box to the wall construction.

Removable stainless steel wall flange is 16 GA, Type 304 stainless steel and includes a removable locking door with cylinder lock. Door hinges are concealed type, and door is easily removed after opening by releasing the hinge pins. Exterior wall flange and door are polished to a satin finish.

Standard equipment shall include:
- 1/2" compression valves
- Atmospheric vacuum breaker
- Screwdriver stops (allow servicing the control valve without shutting down the water supply)
- Removable cylinder lock and two keys

The valve and stop feature tamper-resistant lock-shield bonnets and replaceable cartridges containing all wearing parts.

Supply inlet is 1/2" F.I.P.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ RSB-8201 Dual Temperature Remote Supply Box

2.) Other Options:

❑ Other _____

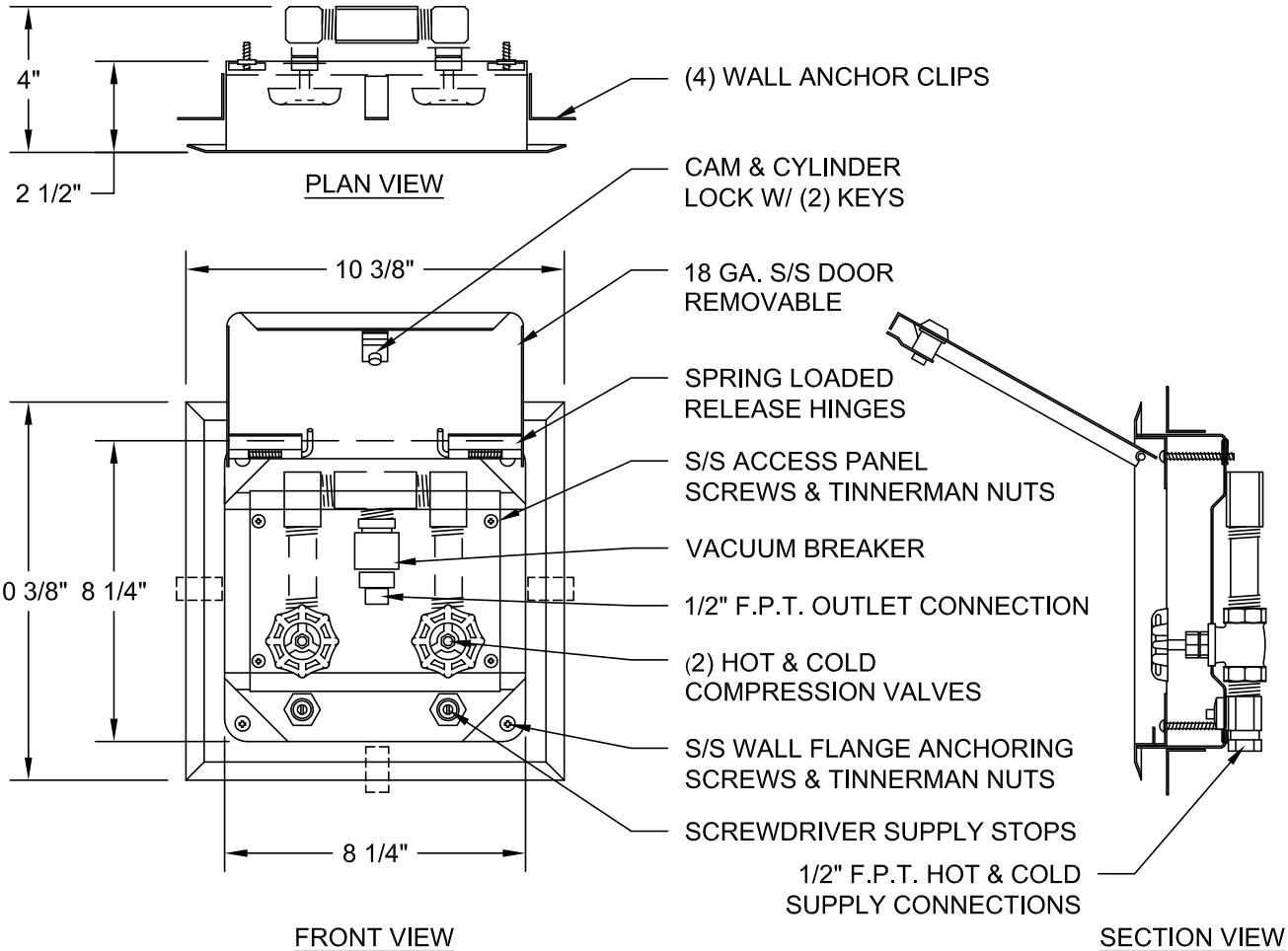
❑ Other _____

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

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HEALTHCARE PRODUCTS

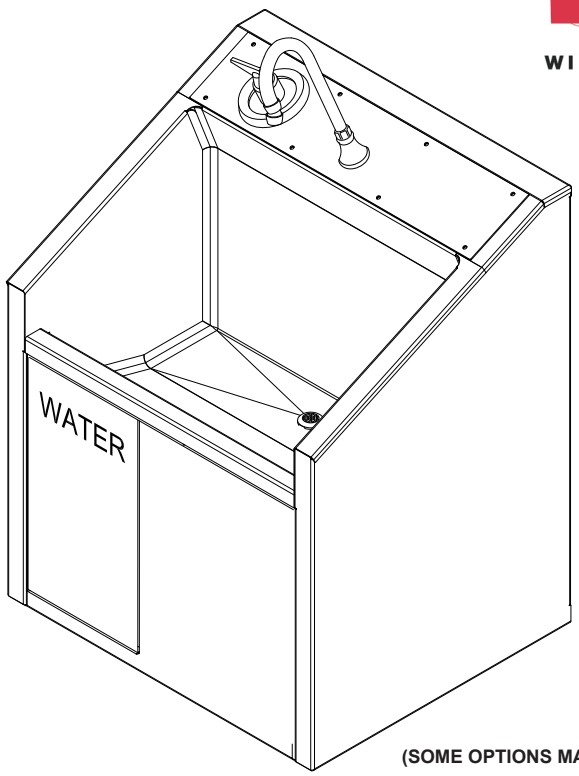
WILLOUGHBY

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Willoughby Industries - *Healthcare Products*

WILLOUGHBY

CWSSS Series
Commercial
Surgical Scrub Sink



(SOME OPTIONS MAY BE SHOWN)

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify a single station Commercial Surgical Scrub Sink with standard temp/pressure-balancing mixing valve, standard knee-activated water actuator, and in-wall mounting carrier

Use the following Willoughby Model Number:
CWSSS-1-TPV-KA-MC

Recommended Specifications

Commercial Surgical Scrub Sink shall be:
Willoughby Model No. **CWSSS**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 GA, Type 304 stainless steel. The construction shall be all-welded with exposed exterior stainless steel surfaces polished to a #4 satin finish. Bowl shall have a bead-blast finish.

Standard equipment shall include:
- Knee-activated mechanical pilot-type water valves,
  activated by one push of a knee-operated front panel
  and turned off by a second push of the panel
- Faucet panel-mounted temperature/pressure mixing valves
- Gooseneck faucets with laminar flow nozzles
- Machined stainless steel drain with tailpiece
- 1-1/2" F.I.P. slip joint, cast brass union 'P' trap

Anchoring shall be from the front with 'Z' clip and wall anchoring hardware (by others); a wall mounting carrier or mounting base is available as optional equipment. Unit requires no chase area for installation and maintenance.

Units are provided with front panels which are easily removed for access to valves and waste connections.

Optional Features:
- IR- Infrared Sensor Actuated Water Valves
- Mounting Carrier
- Mounting Base
- Liquid Soap Dispensers- Knee-activated, Hydraulic
- Storage Shelf
- Light Module- with Built-in Storage Shelf
- Digital Time Display
- Swing-down Eye Wash Stations

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MODEL NUMBER AND OPTIONS:

1.) Base Model:
❑ CWSSS Commercial Surgical Scrub Sink

2.) Number of Stations:
❑ 1 Single Station
❑ 2 Two Station (with 1 Divider Panel)
❑ 3 Three Station (with 2 Divider Panels)

3.) Temperature Controls:
❑ TPV Temperature/Pressure-balancing Mixing Valves -Above Deck (Standard)
❑ PBV Pressure-Balancing Mixing Valves- Above Deck
❑ TMV Inline Thermostatic Mixing Valves

4.) Water Actuators:
❑ KA Knee-activated Actuators (Standard)
❑ IR Infrared Sensor Actuators*

5.) Mounting Options:
❑ 'Z' Clips (Wall anchors by others) (Standard)
❑ MC Mounting Carrier (off-floor installation)
❑ MB Mounting Base (on-floor installation)

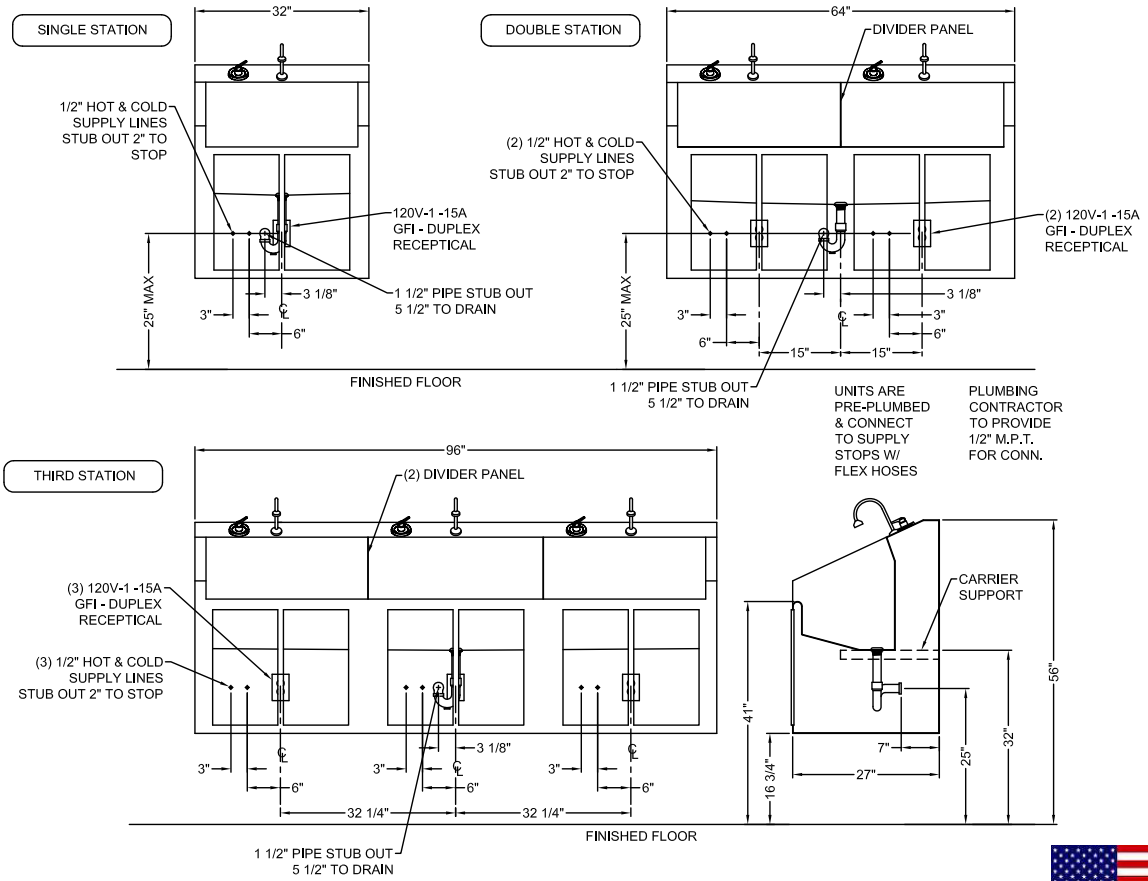
6.) Options:
❑ LSD Liquid Soap Dispensers (Knee-activated hydraulic)
❑ LM Light Module w/ Storage Shelf (Field-wired to 120V-15A wall switch, by others)
❑ SHLF Storage Shelf
❑ DTD Digital Time Display*
❑ SDEW Swing Down Eye Wash (Mixing valve by others)
❑ Other: _____
❑ Other: _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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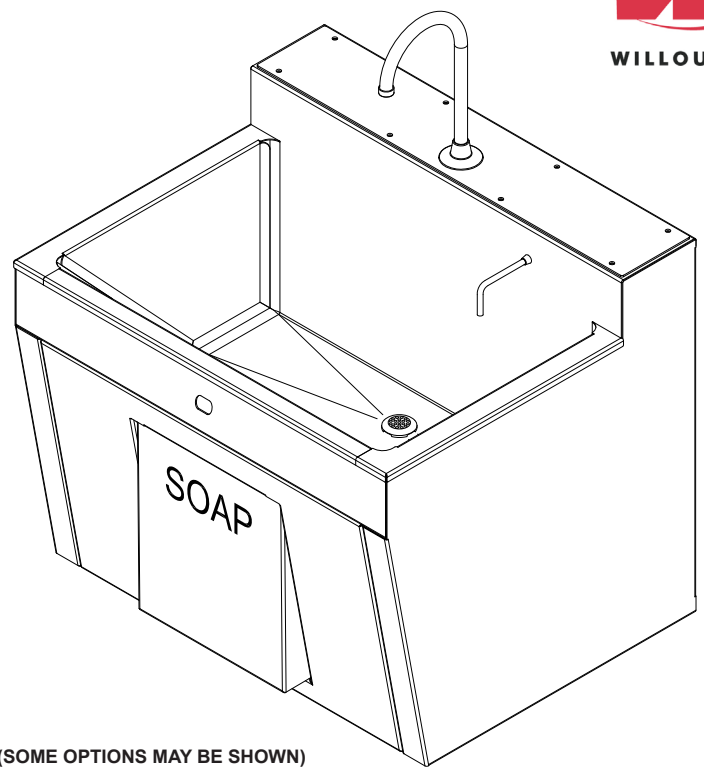
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Willoughby Industries - *Healthcare Products*

EWSSS Series
Economy
Surgical Scrub Sink



(SOME OPTIONS MAY BE SHOWN)

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify an single station Economy Surgical Scrub Sink with standard thermostatic mixing valve, infrared sensor actuation, in-wall mounting carrier, and knee-activated liquid soap dispenser

Use the following Willoughby Model Number:
EWSSS-1-TMV-IR-MC-LSD

Recommended Specifications

Economy Surgical Scrub Sink shall be:
Willoughby Model No. **EWSSS**
(Select from model number and options list on next page)

Fixture shall be fabricated from 16 GA, Type 304 stainless steel. The construction shall be all-welded with exposed exterior stainless steel surfaces polished to a #4 satin finish. Bowl shall have a bead-blast finish.

Standard equipment shall include:
- Knee-activated mechanical pilot/actuator-type water valves, activated by one push of a knee-operated front panel and turned off by a second push of the panel
- Gooseneck faucets with laminar flow nozzles
- Inline thermostatic mixing valves
- Machined stainless steel drain with tailpiece
- 1-1/2" F.I.P. slip joint, cast brass union 'P' trap.

Anchoring shall be from the front with 'Z' clip and wall anchoring hardware (by others); a wall mounting carrier or mounting base is available as optional equipment. Unit requires no chase area for installation and maintenance. Two- and Three-stations shall include divider panels.

Units are provided with front panels which are easily removed for access to valves and waste connections.

Optional Features:
- IR- Infrared Sensor Actuated Water Valves
- Temperature/Pressure-balancing Mixing Valves
- BBO- Body Bar Actuated Water Valves
- Liquid Soap Dispensers- Knee-activated, Hydraulic
- Mounting Carrier
- Mounting Base
- Swing-down Eye Wash Stations

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MODEL NUMBER AND OPTIONS:

1.) Base Model:
❑ EWSSS Economy Surgical Scrub Sink

2.) Number of Stations:
❑ 1 Single Station
❑ 2 Two Station (with 1 Divider Panel)
❑ 3 Three Station (with 2 Divider Panels)

3.) Temperature Controls:
❑ TMV Inline Thermostatic Mixing Valves - Below Deck (Standard)
❑ TPV Temperature/Pressure-balancing Mixing Valves- Above Deck
❑ PBV Pressure-Balancing Mixing Valves- Above Deck

4.) Water Actuators:
❑ KA Knee-activated Actuators (Standard)
❑ BBO Body Bar Actuators
❑ IR Infrared Sensor Actuators*
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

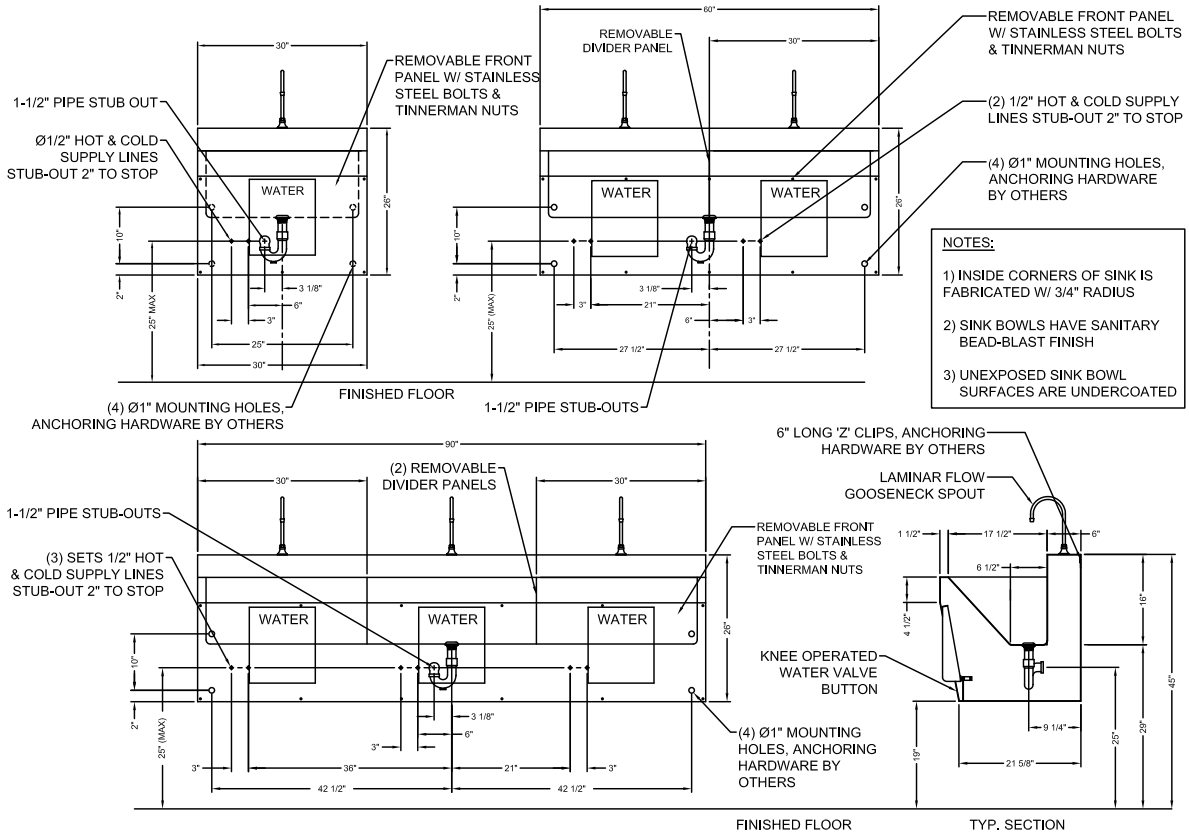
5.) Mounting Options:
❑ 'Z' Clips (Wall anchors by others) (Standard)
❑ MC Mounting Carrier (off-floor installation)
❑ MB Mounting Base (on-floor installation)

6.) Options:
❑ LSD Liquid Soap Dispensers (Knee-activated hydraulic)
❑ SDEW Swing Down Eye Wash (Mixing valve by others)
❑ Other: _____
❑ Other: _____

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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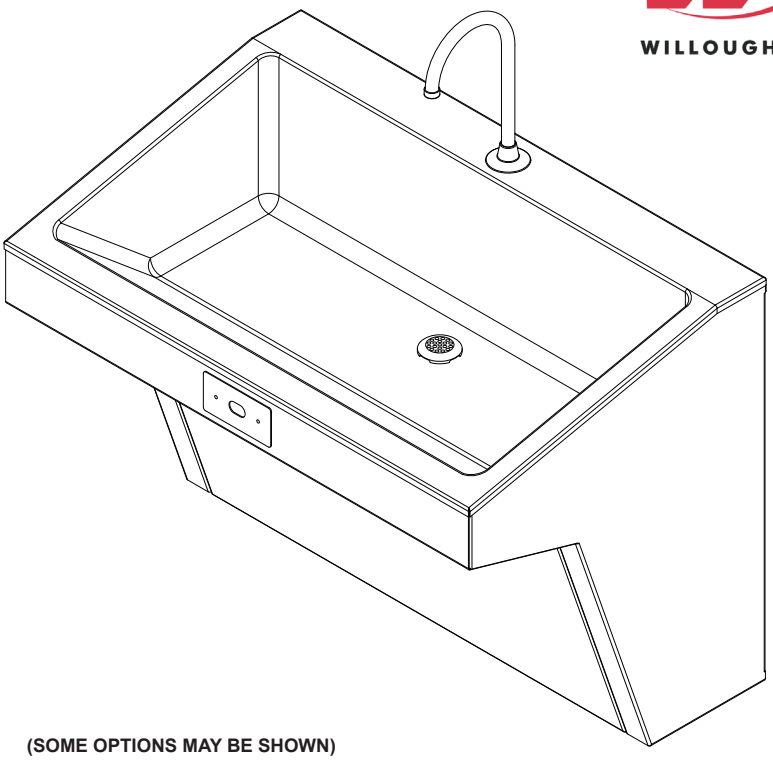
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Willoughby Industries - *Healthcare Products*

WSSS-ADA Series
ADA-Compliant
Surgical Scrub Sink



(SOME OPTIONS MAY BE SHOWN)

IN COMPLIANCE
WITH A.D.A. 2010

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify a single station ADA-Compliant Surgical Scrub Sink with standard thermostatic mixing valve, standard infrared sensor actuation, and in-wall mounting carrier

Use the following Willoughby Model Number:
WSSS-ADA-1-TMV-IR-MC

Recommended Specifications

ADA-Compliant Surgical Scrub Sink shall be:
Willoughby Model No. **WSSS-ADA**
(Select from model number and options list on next page)

Fixture shall be fabricated from 16 GA, Type 304 stainless steel. The construction shall be welded with exposed exterior stainless steel surfaces polished to a #4 satin finish. Bowl shall have a bead-blast finish.

Standard equipment shall include:
- Infrared sensor actuated water valves
- Gooseneck faucets with laminar flow nozzles
- Inline thermostatic mixing valves
- Machined stainless steel drain with tailpiece
- 1-1/2" F.I.P. slip joint, cast brass union 'P' trap

Anchoring shall be from the front with 'Z' clip and wall anchoring hardware (by others); a wall mounting carrier or mounting base is available as optional equipment. Unit requires no chase area for installation and maintenance. Two- and Three-stations shall include divider panels.

Units are provided with front panels which are easily removed for access to valves and waste connections.

Optional Features:
• Mounting Carrier

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MODEL NUMBER AND OPTIONS:

1.) Base Model:
❑ WSSS-ADA ADA-Compliant Surgical Scrub Sink

2.) Number of Stations:
❑ 1 Single Station
❑ 2 Two Station (with 1 Divider Panel)
❑ 3 Three Station (with 2 Divider Panels)

3.) Temperature Controls:
❑ TMV Inline Thermostatic Mixing Valves (Standard)

4.) Water Actuators:
❑ IR Infrared Sensor Actuators (Standard)*
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

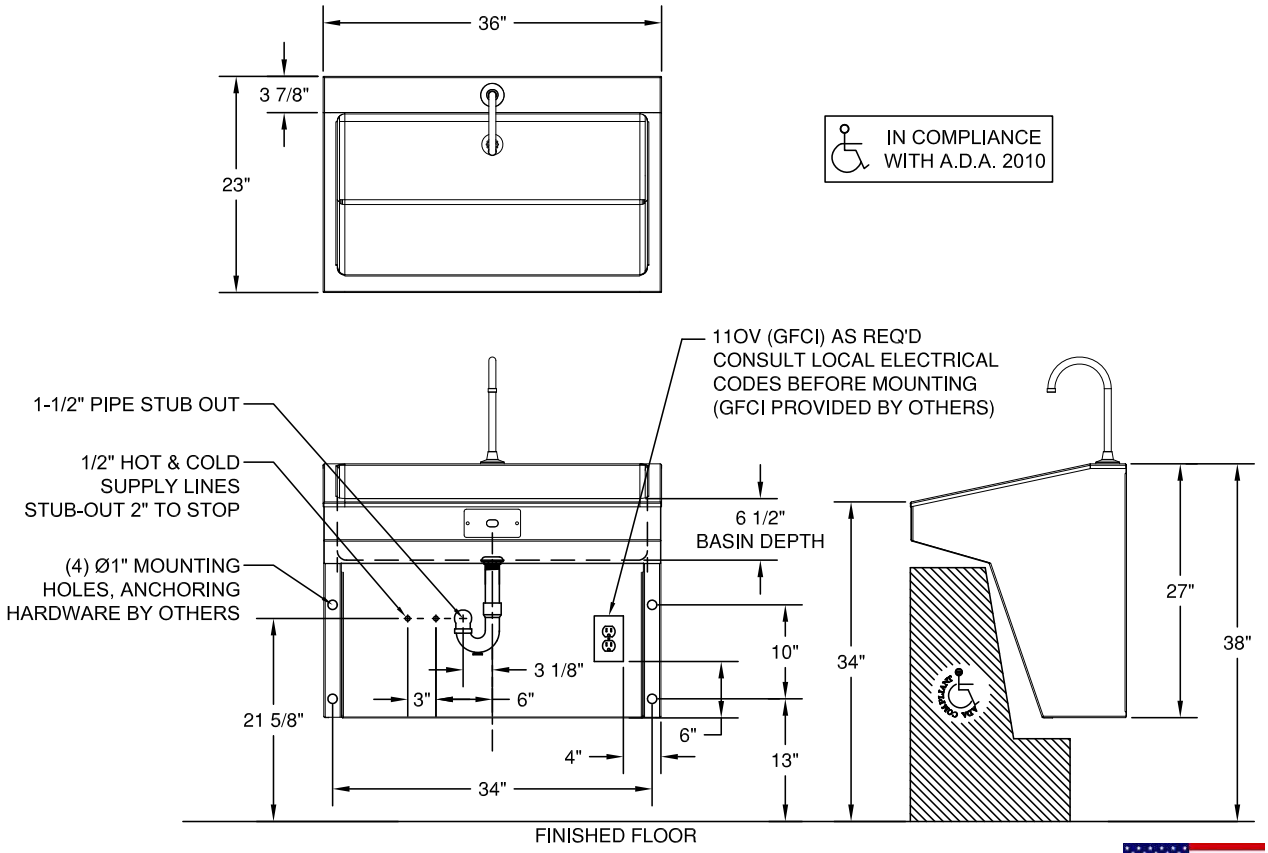
5.) Mounting Options:
❑ 'Z' Clips (Wall anchors by others) (Standard)
❑ MC Mounting Carrier (off-floor installation)

6.) Options:
❑ Other: _____
❑ Other: _____

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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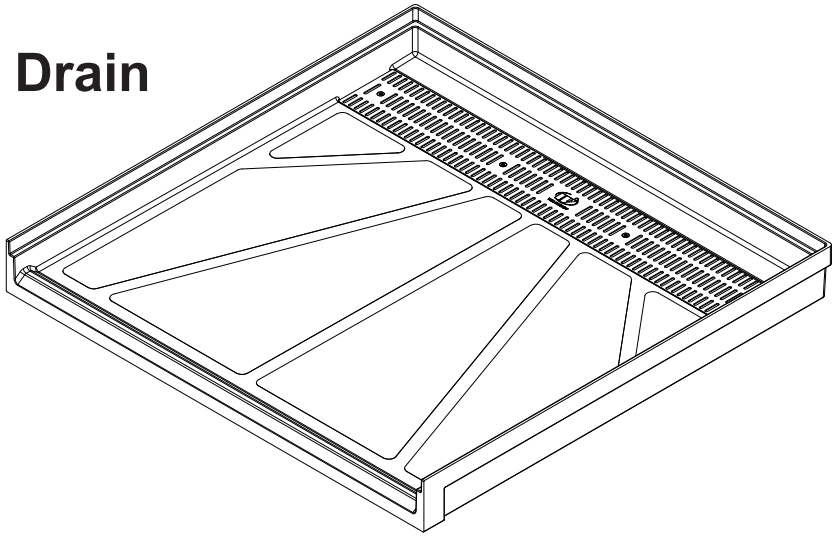
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Willoughby Industries - *Healthcare Products*

WILLOUGHBY

AS-S3636ADA
Aquasurf® Solid Surface 36x36 ADA-Compliant Transfer Shower Base w/ Integral Rear Trench Drain



IN COMPLIANCE WITH A.D.A. 2010

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify an Aquasurf® Solid Surface, 36x36, ADA-Compliant, Transfer Shower Base with Integral Rear Trench Drain with Center drain in Grey Granite

Use the following Willoughby Model Number:
AS-S3636ADA-C-GG

Recommended Specifications

Aquasurf® Solid Surface, 36x36, ADA-Compliant, Transfer Shower Base with Integral Rear Trench Drain shall be:
Willoughby Model No. **AS-S3636ADA**
(Select from model number and options list on next page)

Aquasurf® solid surface shower bases are designed for single- and multiple-applications. The shower base shall be a monolithic component cast from Aquasurf® polymer materials, composed of fully densified aluminum trihydrate mineral fillers, homogeneously blended in an engineered, UV stabilized, acrylic modified polyester resin.

ADA accessibility shall incorporate a rear drain with integrally sloped trench, allowing for unobtrusive and complete draining of the shower area. The rear drain is available in Left, Center, and Right configurations to best suit individual installations. (Consult local code requirements for ADA design integration.)

The shower base shall have integrally molded support bracing on bottom; negative sloped non-slip textured interior floor; integral perimeter flanges, threshold, and curb; and 2" no-hub drain connection.

Durability and Biological Resistance:
Aquasurf® Solid Surface Products Shower Bases offer high impact, chip, scratch and burn resistance. Topical surface damages can easily be repaired with minor abrasive applications (3M #7448 Scotch-Brite™). The viral, bacteriological, chemical, mildew, and mold resistance provides a sanitary, easily cleaned, durable, low maintenance component.

Optional Features:
Aquasurf® Solid Surface Products wall panel kit is an available option. Wall panel kits come with color-matched overlay battens, coved corners, and soap/shampoo assemblies, providing all components required for a complete shower area enclosure (refer to Model Number and Options sheet for option designation).

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MODEL NUMBER AND OPTIONS:

1.) Base Type:

❑ AS-S3636ADA Aquasurf® Solid Surface, 36x36, ADA-Compliant, Transfer Shower Base with Integral Rear Trench Drain

2.) Drain Position (See Drawing Below):

❑ L Left Drain
❑ C Center Drain
❑ R Right Drain

3.) Solid Surface Colors:

❑ BN Bone
❑ GW Glacier White
❑ GG Grey Granite
❑ SS Sandstone
❑ WG White Granite
❑ BG Black Granite
❑ NB Nocturnal Blue
❑ RC Red Coral
❑ SG Sea Green

4.) Commercial Wall Kit Option (1/4" Panels):

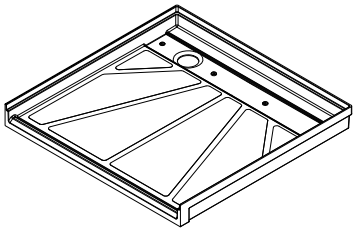
❑ ASK-S363684 (3) 36" x 84" Panels
(2) (AS-IS-CV8) Inside Corner Cove Overlay

5.) Accessories:

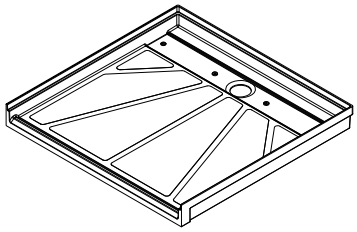
❑ AS-SSH Soap/Shampoo Holder
❑ LRD36 Ligature Resistant Trench Drain Cover**

**Note: The LRD36 option minimizes the ability of the drain to be used as a ligature point. While every effort has been made to reduce the possibility of ligature points it does not eliminate all risk.

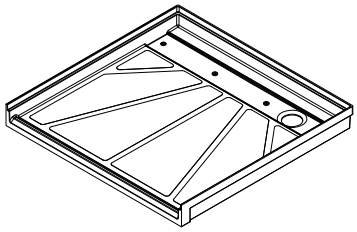
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AS-S3636ADA-L (LEFT DRAIN)



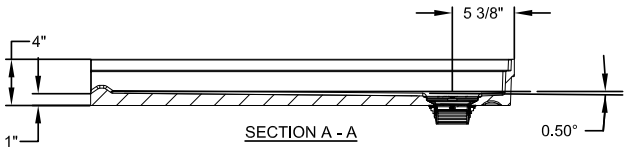
AS-S3636ADA-C (CENTER DRAIN)



AS-S3636ADA-R (RIGHT DRAIN)

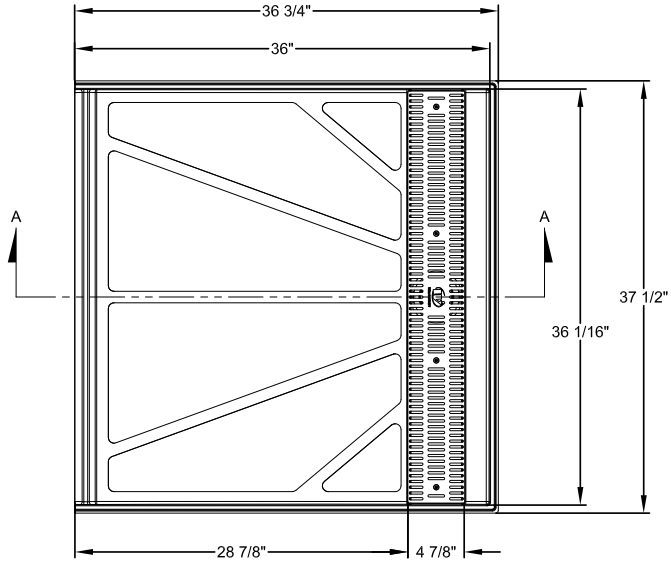
VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

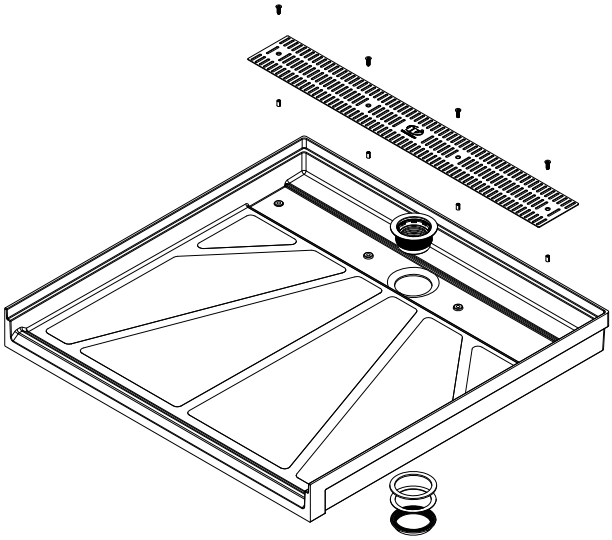
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SECTION A - A

IN COMPLIANCE WITH A.D.A. 2010





EXPLODED VIEW

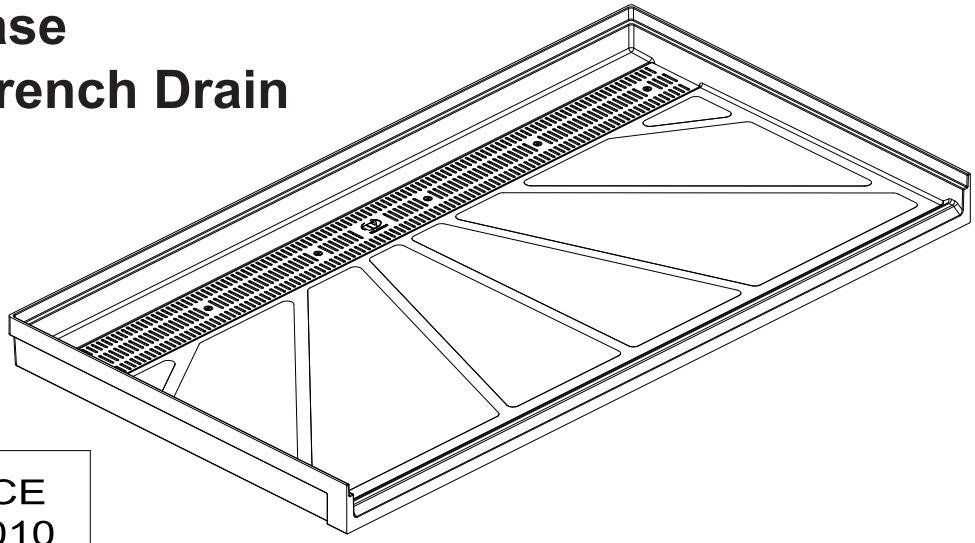
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AS-S3060ADA
Aquasurf® Solid Surface
30x60 ADA-Compliant
Roll-in Shower Base
w/ Integral Rear Trench Drain



IN COMPLIANCE
WITH A.D.A. 2010

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify an Aquasurf® Solid Surface, 30x60 ADA-Compliant, Roll-in Shower Base with Integral Rear Trench Drain with Center drain in Sea Green

Use the following Willoughby Model Number:
AS-S3060ADA-C-SG

Recommended Specifications

Aquasurf® Solid Surface, 30x60, ADA-Compliant, Roll-in Shower Base with Integral Rear Trench Drain shall be:
Willoughby Model No. **AS-S3060ADA**
(Select from model number and options list on next page)

Aquasurf® solid surface shower bases are designed for single- and multiple-applications. The shower base shall be a monolithic component cast from Aquasurf® polymer materials, composed of fully densified aluminum trihydrate mineral fillers, homogeneously blended in an engineered, UV stabilized, acrylic modified polyester resin.

ADA accessibility shall incorporate a rear drain with integrally sloped trench, allowing for unobtrusive and complete draining of the shower area. The rear drain is available in Left, Center, and Right configurations to best suit individual installations. (Consult local code requirements for ADA design integration.)

The shower base shall have integrally molded support bracing on bottom; negative sloped non-slip textured interior floor; integral perimeter flanges, threshold, and curb; and 2" no-hub drain connection. The full-width drain grate will securely cover the drain trench while allowing water to effectively drain from anywhere in the shower (drain grate secured to base w/ (6) security screws).

Durability and Biological Resistance:
Aquasurf® Solid Surface Products Shower Bases offer high impact, chip, scratch and burn resistance. Topical surface damages can easily be repaired with minor abrasive applications (3M #7448 Scotch-Brite™). The viral, bacteriological, chemical, mildew, and mold resistance provides a sanitary, easily cleaned, durable, low maintenance component.

Optional Features:
Aquasurf® Solid Surface Products wall panel kit is an available option. Wall panel kits come with color-matched overlay battens, coved corners, and soap/shampoo assemblies, providing all components required for a complete shower area enclosure (refer to Model Number and Options sheet for option designation).

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MODEL NUMBER AND OPTIONS:

1.) Base Type:

❑ AS-S3060ADA Aquasurf® Solid Surface, 30x60, ADA-Compliant, Roll-in Shower Base with Integral Rear Trench Drain

2.) Drain Position (See Drawing Below):

❑ L Left Drain
❑ C Center Drain
❑ R Right Drain

3.) Solid Surface Colors:

❑ BN Bone
❑ GW Glacier White
❑ GG Grey Granite
❑ SS Sandstone
❑ WG White Granite
❑ BG Black Granite
❑ NB Nocturnal Blue
❑ RC Red Coral
❑ SG Sea Green

4.) Commercial Wall Kit Option (1/4" Panels):

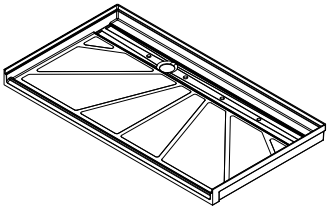
❑ ASK-S603484 (2) 33-1/2" x 84" Panels
(2) 29-1/2" x 84" Panels
(1) 3" x 84" Overlay
(2) (AS-IS-CV8) Inside Corner Cove Overlay

5.) Accessories:

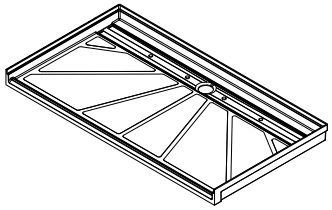
❑ AS-SSH Soap/Shampoo Holder
❑ LRD60 Ligature Resistant Trench Drain Cover

**Note: The LRD60 option minimizes the ability of the drain to be used as a ligature point. While every effort has been made to reduce the possibility of ligature points it does not eliminate all risk.

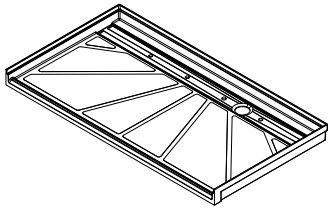
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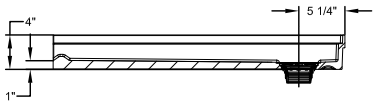
AS-S3060ADA-L (LEFT DRAIN)



AS-S3060ADA-C (CENTER DRAIN)

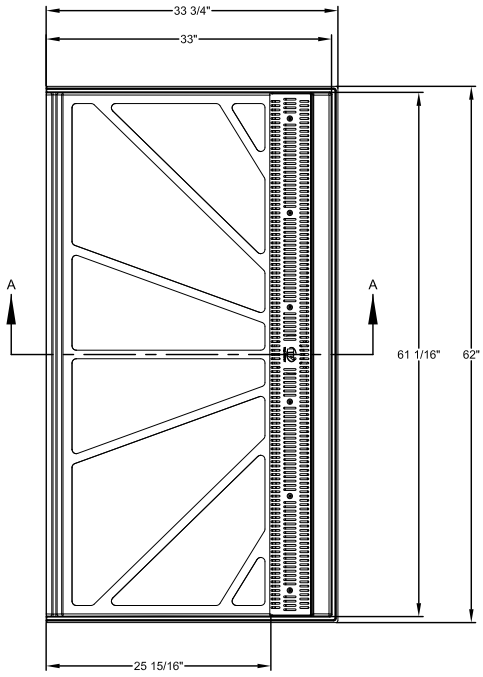


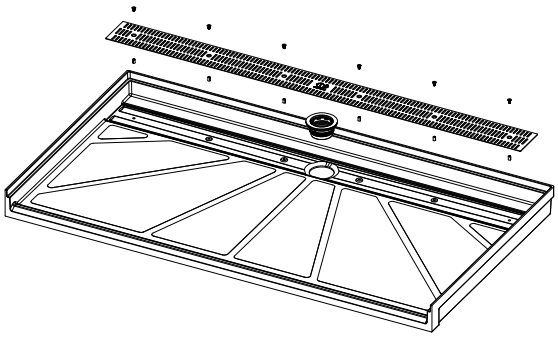
AS-S3060ADA-R (RIGHT DRAIN)



SECTION A-A

IN COMPLIANCE WITH A.D.A. 2010





EXPLODED VIEW

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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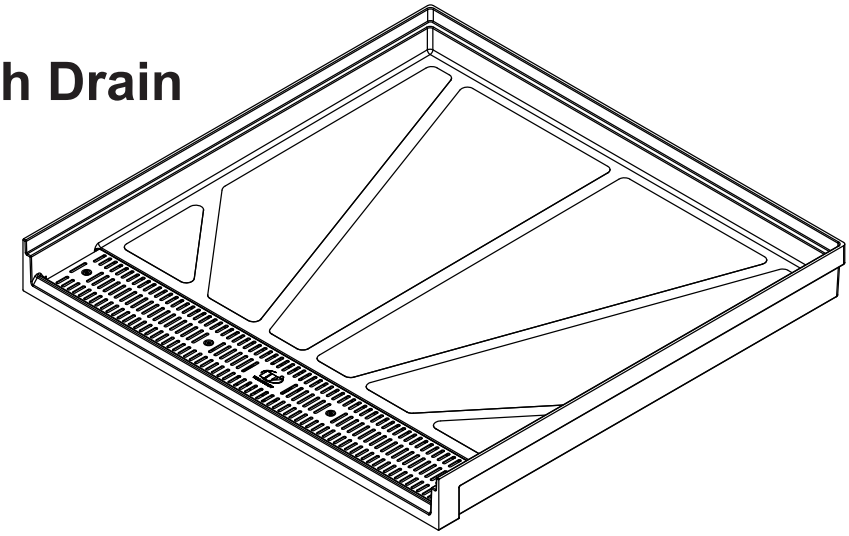
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AS-S3636ADAF
Aquasurf® Solid Surface
36x36 ADA-Compliant
Transfer Shower Base
w/ Integral Front Trench Drain



IN COMPLIANCE
WITH A.D.A. 2010

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an Aquasurf® Solid Surface, 36x36, ADA-Compliant, Transfer Shower Base with Integral Front Trench Drain with Center Drain in Glacier White

Use the following Willoughby Model Number:
AS-S3636ADAF-C-GW

Recommended Specifications

Aquasurf® Solid Surface, 36x36, ADA-Compliant, Transfer Shower Base with Integral Front Trench Drain shall be:
Willoughby Model No. **AS-S3636ADAF**
(Select from model number and options list on next page)

Aquasurf® Solid Surface Products Shower Bases are designed for single and multiple applications. The Shower Base shall be a monolithic cast component of Aquasurf® Solid Surface Products polymer materials, composed of fully densified aluminum trihydrate mineral fillers, homogeneously blended in an engineered, UV stabilized, acrylic modified polyester resin.

ADA accessibility shall incorporate a front drain with integrally sloped trench, allowing for complete draining of the shower area. The front drain is available in Left, Center, and Right configurations to best suit individual installations.
(Consult local code requirements for ADA design integration.)

The shower base shall have integrally molded support bracing on bottom; negative sloped non-slip textured interior floor; integral perimeter flanges, threshold, and curb; and 2" no-hub drain connection.

Durability and Biological Resistance:
Aquasurf® Solid Surface Products Shower Bases offer high impact, chip, scratch and burn resistance. Topical surface damages can easily be repaired with minor abrasive applications (3M #7448 Scotch-Brite™). The viral, bacteriological, chemical, mildew, and mold resistance provides a sanitary, easily cleaned, durable, low maintenance component.

Optional Features:
Aquasurf® Solid Surface Products wall panel kits with overlay battens, coved corners and soap/shampoo assemblies provide all components required to complete shower area enclosure (refer to selection sheet for unit designation).

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MODEL NUMBER AND OPTIONS:

1.) Base Type:

❑ AS-S3636ADAF — Aquasurf® Solid Surface, 36x36, ADA-Compliant, Transfer Shower Base with Integral Front Trench Drain

2.) Drain Position (See Drawing Below):

❑ L Left Drain
❑ C Center Drain
❑ R Right Drain

3.) Solid Surface Colors:

❑ BN Bone
❑ GW Glacier White
❑ GG Grey Granite
❑ SS Sandstone
❑ WG White Granite
❑ BG Black Granite
❑ NB Nocturnal Blue
❑ RC Red Coral
❑ SG Sea Green

4.) Commercial Wall Kit Option (1/4" Panels):

❑ ASK-S363684 (3) 36" x 84" Panels
(2) (AS-IS-CV8) Inside Corner Cove Overlay

5.) Accessories:

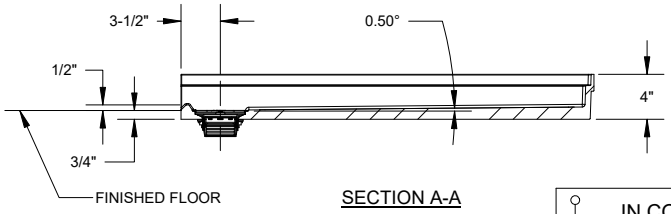
❑ AS-SSH Soap/Shampoo Holder
❑ LRD36 Ligature Resistant Trench Drain Cover

**Note: The LRD36 option minimizes the ability of the drain to be used as a ligature point. While every effort has been made to reduce the possibility of ligature points it does not eliminate all risk.

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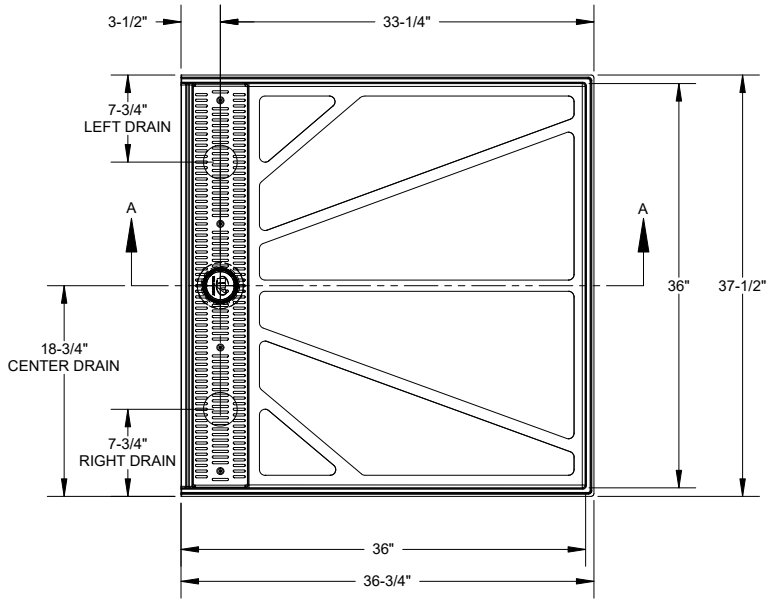
VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

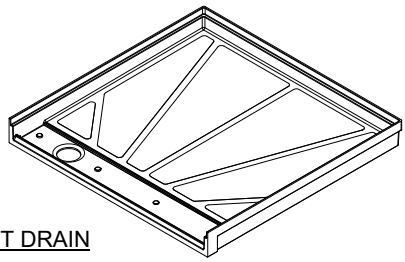
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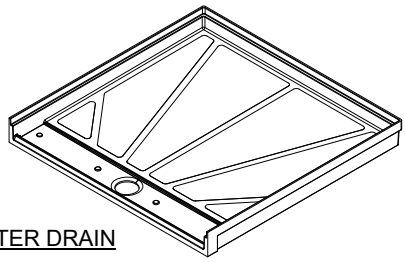
SECTION A-A

IN COMPLIANCE WITH A.D.A. 2010

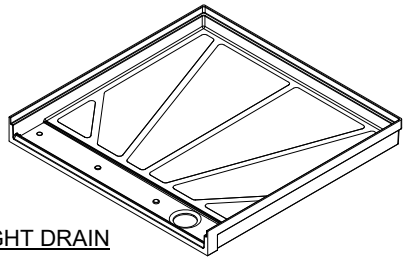




LEFT DRAIN



CENTER DRAIN



RIGHT DRAIN

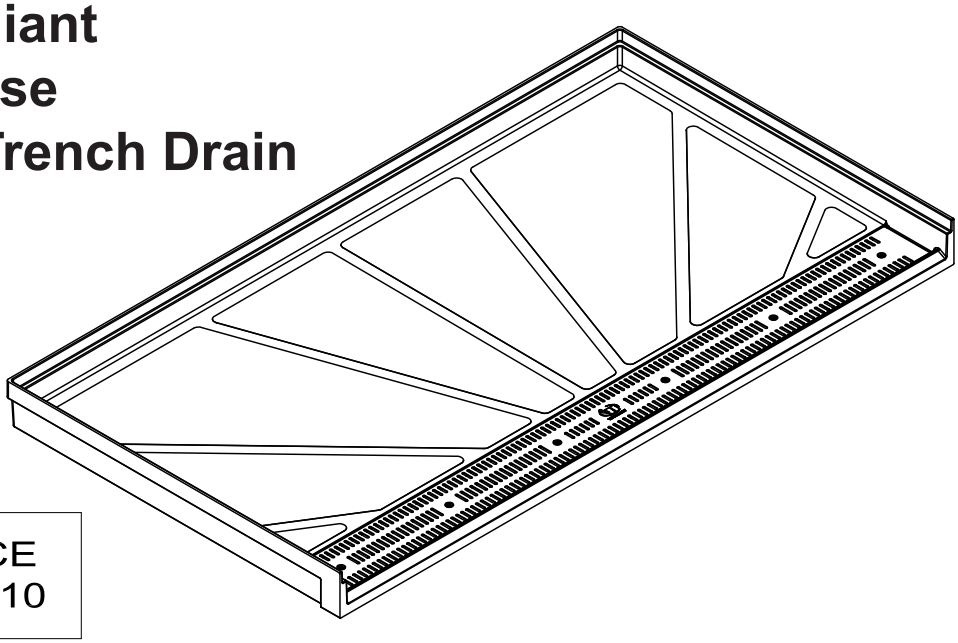
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AS-S3060ADAF
Aquasurf® Solid Surface
30x60 ADA-Compliant
Roll-in Shower Base
w/ Integral Front Trench Drain



IN COMPLIANCE
WITH A.D.A. 2010

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an Aquasurf® Solid Surface, 30x60, ADA-Compliant, Transfer Shower Base with Integral Front Trench Drain with Center Drain in Glacier White

Use the following Willoughby Model Number:
AS-S3060ADAF-C-GW

Recommended Specifications

Aquasurf® Solid Surface, 30x60, ADA-Compliant, Roll-in Shower Base with Integral Front Trench Drain shall be:
Willoughby Model No. **AS-S3060ADAF**
(Select from model number and options list on next page)

Aquasurf® Solid Surface Products Shower Bases are designed for single and multiple applications. The Shower Base shall be a monolithic cast component of Aquasurf® Solid Surface Products polymer materials, composed of fully densified aluminum trihydrate mineral fillers, homogeneously blended in an engineered, UV stabilized, acrylic modified polyester resin.

ADA accessibility shall incorporate a front drain with integrally sloped trench, allowing for complete draining of the shower area. The front drain is available in Left, Center, and Right configurations to best suit individual installations.
(Consult local code requirements for ADA design integration.)

The shower base shall have integrally molded support bracing on bottom; negative sloped non-slip textured interior floor; integral perimeter flanges, threshold, and curb; and 2" no-hub drain connection.

Durability and Biological Resistance:
Aquasurf® Solid Surface Products Shower Bases offer high impact, chip, scratch and burn resistance. Topical surface damages can easily be repaired with minor abrasive applications (3M #7448 Scotch-Brite™). The viral, bacteriological, chemical, mildew, and mold resistance provides a sanitary, easily cleaned, durable, low maintenance component.

Optional Features:
Aquasurf® Solid Surface Products wall panel kits with overlay battens, coved corners and soap/shampoo assemblies provide all components required to complete shower area enclosure (refer to selection sheet for unit designation).

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MODEL NUMBER AND OPTIONS:

1.) Base Type:

❑ AS-S3060ADAF — Aquasurf® Solid Surface, 30x60, ADA-Compliant, Roll-in Shower Base with Integral Front Trench Drain

2.) Drain Position (See Drawing Below):

❑ L Left Drain
❑ C Center Drain
❑ R Right Drain

3.) Solid Surface Colors:

❑ BN Bone
❑ GW Glacier White
❑ GG Grey Granite
❑ SS Sandstone
❑ WG White Granite
❑ BG Black Granite
❑ NB Nocturnal Blue
❑ RC Red Coral
❑ SG Sea Green

4.) Commercial Wall Kit Option (1/4" Panels):

❑ ASK-S603484 (2) 33-1/2" x 84" Panels
(2) 29-1/2" x 84" Panels
(1) 3" x 84" Overlay
(2) (AS-IS-CV8) Inside Corner Cove Overlay

5.) Accessories:

❑ AS-SSH Soap/Shampoo Holder
❑ LRD60 Ligature Resistant Trench Drain Cover

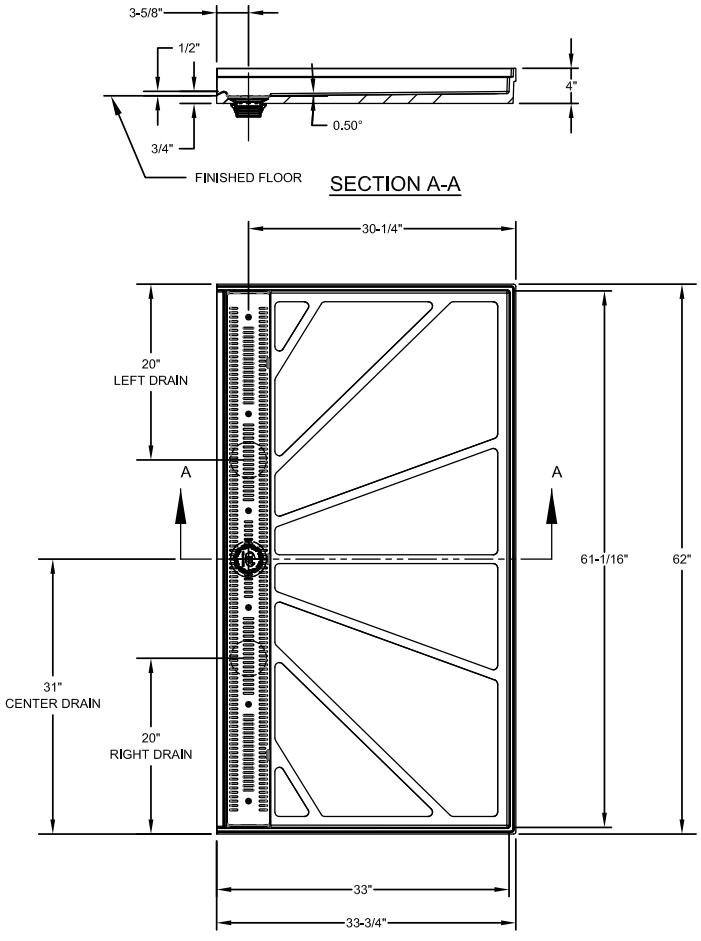
**Note: The LRD60 option minimizes the ability of the drain to be used as a ligature point. While every effort has been made to reduce the possibility of ligature points it does not eliminate all risk.

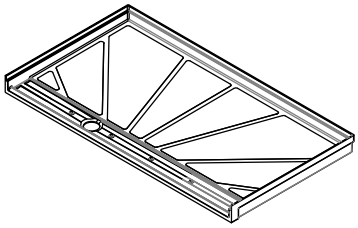
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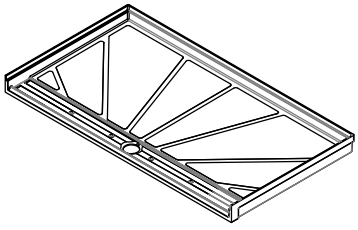
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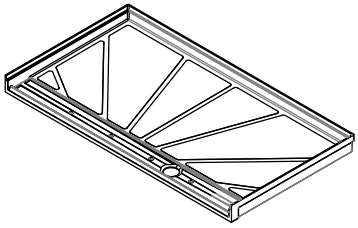




AS-S3060ADAF-L (LEFT DRAIN)



AS-S3060ADAF-C (CENTER DRAIN)



AS-S3060ADAF-R (RIGHT DRAIN)

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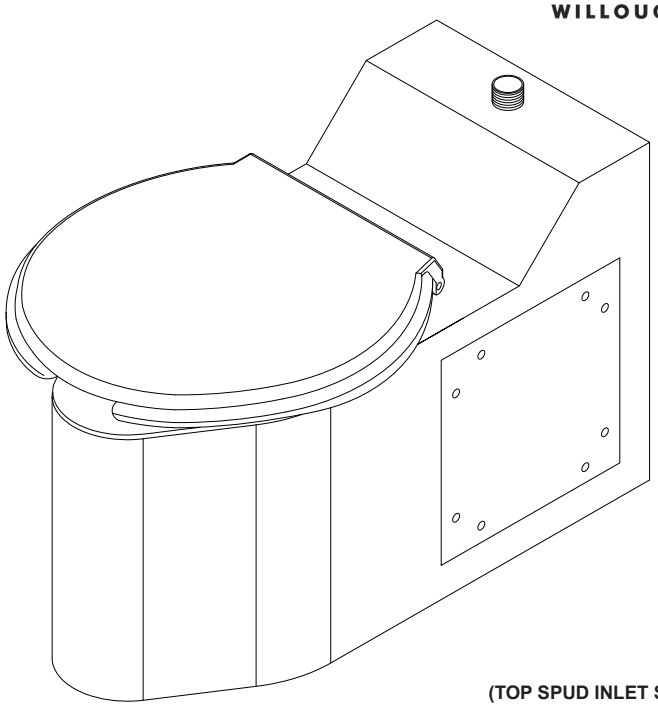
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WILLOUGHBY

BETW-1490-FM-FA
Front Access
Wall Outlet
Blowout Series
Bariatric Toilet



(TOP SPUD INLET SHOWN)

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify a Front Access, Wall Outlet, Blowout Series Bariatric Toilet with back spud, flush valve and wall mounted recessed tissue holder

Use the following Willoughby Model Number:
BETW-1490-FM-FA-BS-FV-RTH1

Recommended Specifications

Front Access, Wall Outlet, Blowout Series Bariatric Toilet shall be: Willoughby Model No. **BETW-1490-FM-FA** (Select from model number and options list on next page)

Fixture shall be fabricated from heavy gauge, Type 304 stainless steel. The construction shall be all-welded. Fixture exterior shall have an antimicrobial gloss white powder coat enamel finish*. Toilet bowl interior shall have a sanitary bead-blast stainless steel finish.

Standard toilet shall include: elongated toilet bowl with integral contoured seat, integral crevice-free self-draining flushing rim with positive afterfill and fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 3-1/2" seal. Toilet shall be siphon jet type which requires 35 psi minimum flushing pressure. Hinged toilet seat shall have open front with cover and be rated for a 1200 pound weight capacity. Toilet seat hinges are stainless steel, seat and cover shall be white in color.

The fixture (less hinged seat) shall withstand loadings up to 2000 pounds with no measurable deflection and loadings up to 5000 pounds with no permanent damage.

Anchoring shall be from the front thru (2) 12" x 12" removable access panels. The fixture is provided with three (3) 7/8" wall carrier mounting holes and one (1) floor mounted 'Z' clip mounting bracket. Wall and floor anchoring hardware is by others. The fixture is floor mounted and is designed to mate with a three (3) bolt blowout carrier.

On back to back fixture installations, do not use standard cross type waste fittings: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

**Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.*

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ BETW-1490-FM-FA Front Access, Wall Outlet, Blowout Series Bariatric Toilet

2.) Inlet Location:

❑ BS Back Spud
❑ TS Top Spud

3.) Flush Valve GPF's (Must Specify):

❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
❑ 1.6 GPF ULF (6.0 Lpf)
❑ 3.5 GPF (13.2 Lpf)

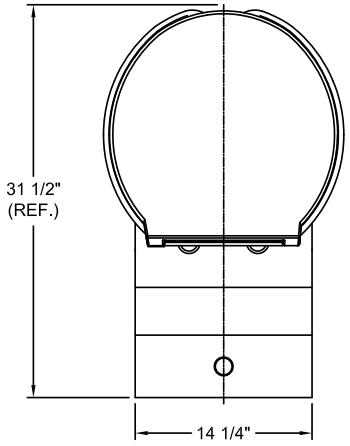
4.) Options:

❑ BL Bedpan Lugs
❑ SLL Seat Less Lid
❑ FV Flush Valve
❑ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
❑ FVT Flush Valve Connection
❑ AP Flush Valve Access Panel
❑ MT Metal Template
❑ RTH2 Front Access Wall Mounted Recessed Tissue Holder
❑ Other: _____
❑ Other: _____

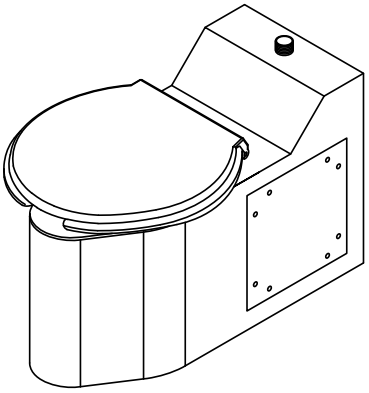
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Wall Thickness: _____ Wall Type: _____

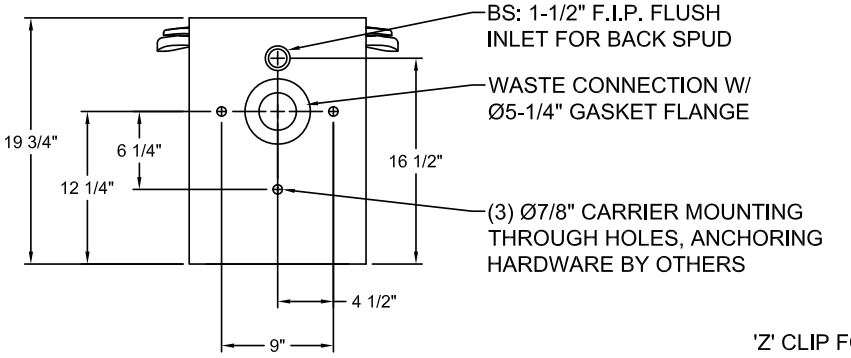
VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

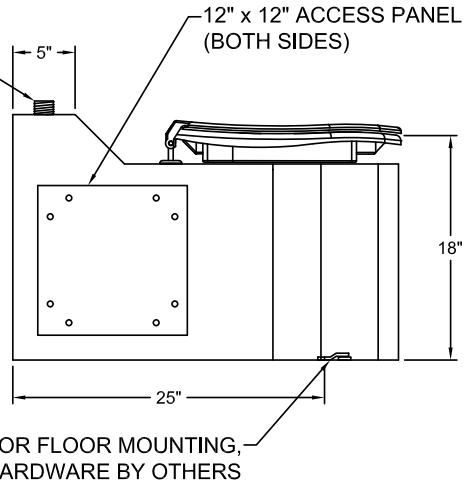
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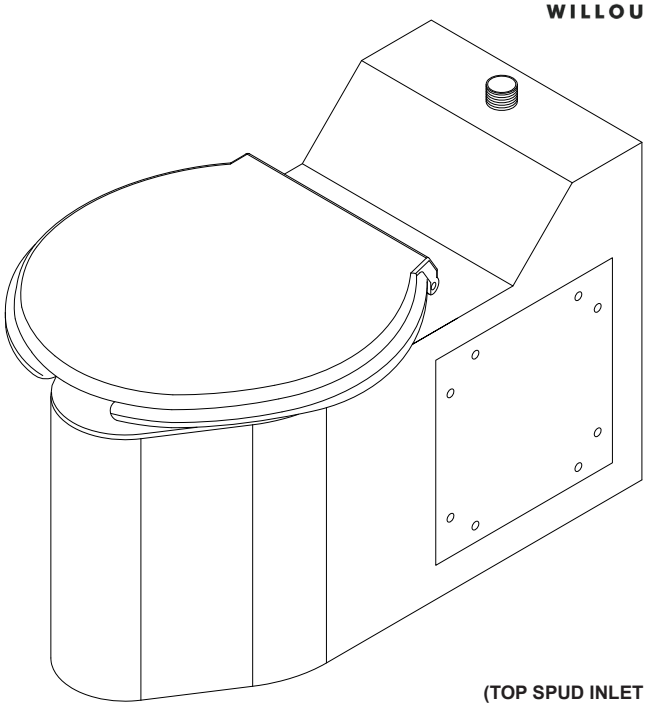
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Willoughby Industries - *Healthcare Products*

WILLOUGHBY

BETWS-1490-FM-FA
Front Access
Wall Outlet
Siphon Jet Series
Bariatric Toilet



(TOP SPUD INLET SHOWN)

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify a Front Access, Wall Outlet, Siphon Jet Series Bariatric Toilet with back spud, flush valve and wall mounted recessed tissue holder

Use the following Willoughby Model Number:
BETWS-1490-FM-FA-BS-FV-RTH1

Recommended Specifications

Front Access, Wall Outlet, Siphon Jet Series Bariatric Toilet shall be: Willoughby Model No. **BETWS-1490-FM-FA** (Select from model number and options list on next page)

Fixture shall be fabricated from heavy gauge, Type 304 stainless steel. The construction shall be all-welded. Fixture exterior shall have an antimicrobial gloss white powder coat enamel finish*. Toilet bowl interior shall have a sanitary bead-blast stainless steel finish.

Standard toilet shall include: elongated toilet bowl with integral contoured seat, integral crevice-free self-draining flushing rim with positive afterfill and fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 3-1/2" seal. Toilet shall be siphon jet type which requires 35 psi minimum flushing pressure. Hinged toilet seat shall have open front with cover and be rated for a 1200 pound weight capacity. Toilet seat hinges are stainless steel, seat and cover shall be white in color.

The fixture (less hinged seat) shall withstand loadings up to 2000 pounds with no measurable deflection and loadings up to 5000 pounds with no permanent damage.

Anchoring shall be from the front thru (2) 12" x 12" removable access panels. The fixture is provided with four (4) 7/8" wall carrier mounting holes and one (1) floor mounted 'Z' clip mounting bracket. Wall and floor anchoring hardware is by others. The fixture is floor mounted and is designed to mate with a four (4) bolt siphon-jet carrier.

On back to back fixture installations, do not use standard cross type waste fittings: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

**Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.*

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ BETWS-1490-FM-FA Front Access, Wall Outlet, Siphon Jet Series Bariatric Toilet

2.) Inlet Location:

❑ BS Back Spud
❑ TS Top Spud

3.) Flush Valve GPF's (Must Specify):

❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
❑ 1.6 GPF ULF (6.0 Lpf)
❑ 3.5 GPF (13.2 Lpf)

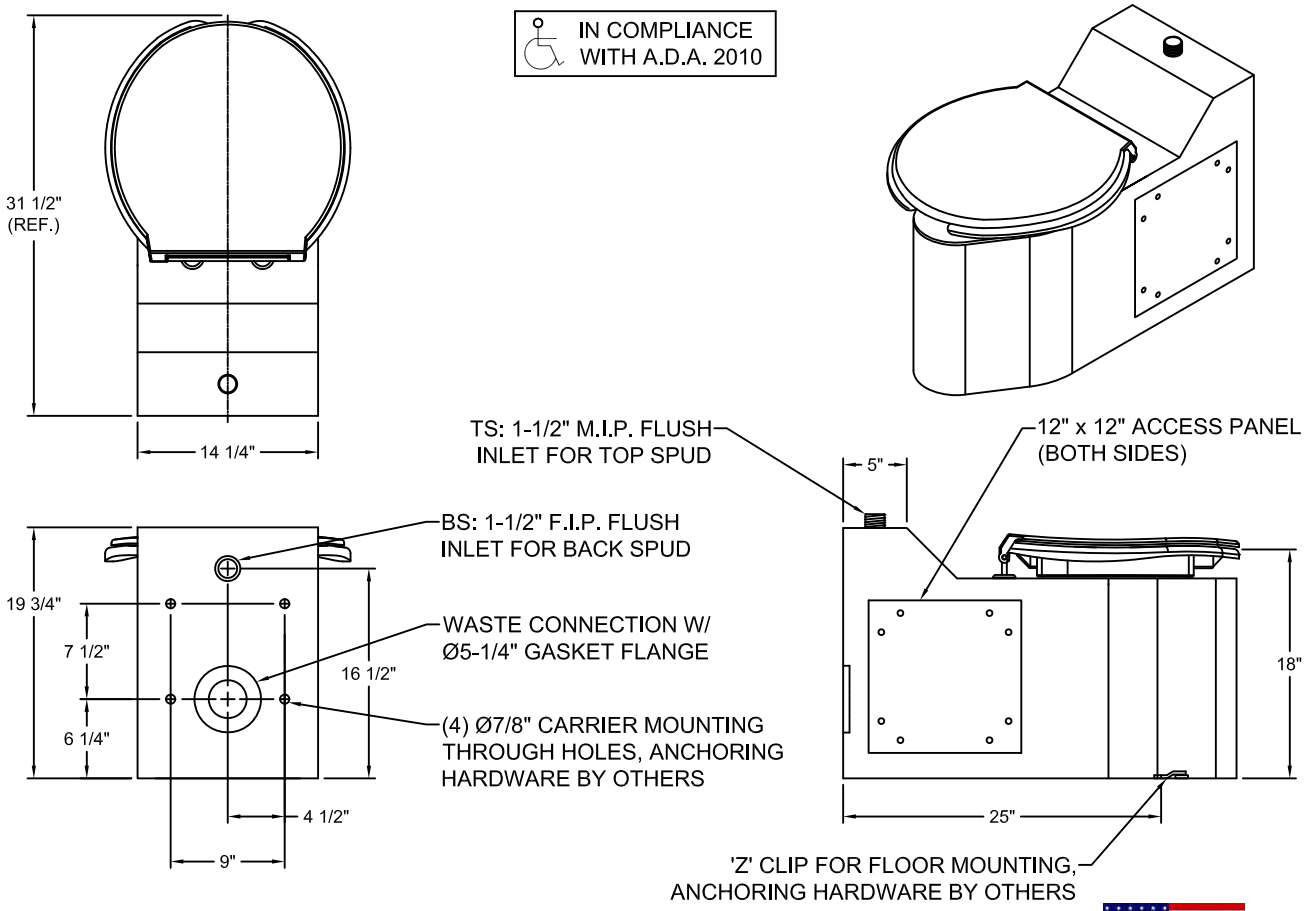
4.) Options:

❑ BL Bedpan Lugs
❑ SLL Seat Less Lid
❑ FV Flush Valve
❑ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
❑ FVT Flush Valve Connection
❑ AP Flush Valve Access Panel
❑ MT Metal Template
❑ RTH2 Front Access Wall Mounted Recessed Tissue Holder
❑ Other: _____
❑ Other: _____

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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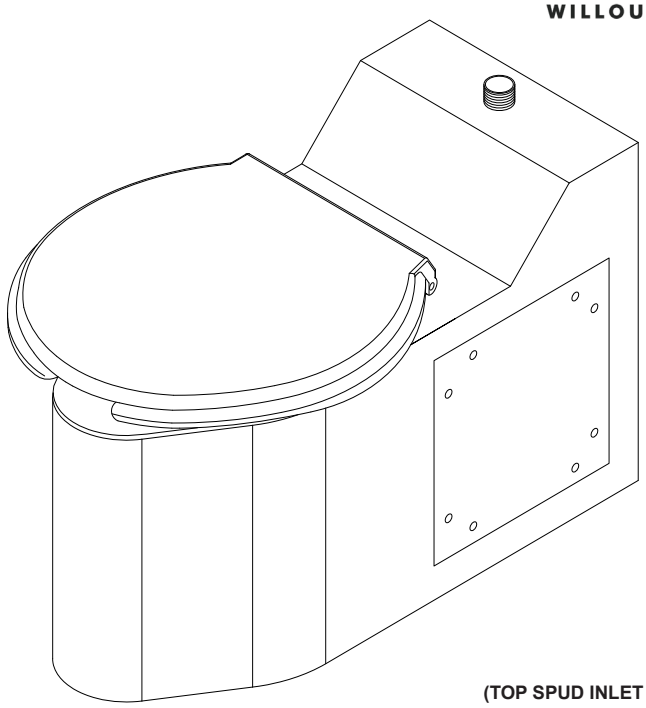
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WILLOUGHBY

BETF-1490-FM-FA
Front Access
Floor Outlet
Siphon Jet Series
Bariatric Toilet



(TOP SPUD INLET SHOWN)

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify a Front Access, Floor Outlet, Siphon Jet Series Bariatric Toilet with back spud, flush valve and wall mounted recessed tissue holder

Use the following Willoughby Model Number:
BETF-1490-FM-FA-BS-FV-RTH1

Recommended Specifications

Front Access, Floor Outlet, Siphon Jet Series Bariatric Toilet shall be: Willoughby Model No. **BETF-1490-FM-FA**
(Select from model number and options list on next page)

Fixture shall be fabricated from heavy gauge, Type 304 stainless steel. The construction shall be all-welded. Fixture exterior shall have an antimicrobial gloss white powder coat enamel finish*. Toilet bowl interior shall have a sanitary bead-blast stainless steel finish.

Standard toilet shall include: elongated toilet bowl with integral contoured seat, integral crevice-free self-draining flushing rim with positive afterfill and fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 3-1/2" seal. Toilet shall be siphon jet type which requires 35 psi minimum flushing pressure. Hinged toilet seat shall have open front with cover and be rated for a 1200 pound weight capacity. Toilet seat hinges are stainless steel, seat and cover shall be white in color.

The fixture (less hinged seat) shall withstand loadings up to 2000 pounds with no measurable deflection and loadings up to 5000 pounds with no permanent damage.

Anchoring shall be from the front thru (2) 12" x 12" removable access panels. The fixture is provided with four (4) 3/4" wall carrier mounting holes and one (1) floor mounted 'Z' clip mounting bracket. Wall and floor anchoring hardware is by others.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ BETF-1490-FM-FA Front Access, Floor Outlet, Siphon Jet Series Bariatric Toilet

2.) Inlet Location:

❑ BS Back Spud
❑ TS Top Spud

3.) Flush Valve GPF's (Must Specify):

❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
❑ 1.6 GPF ULF (6.0 Lpf)
❑ 3.5 GPF (13.2 Lpf)

4.) Options:

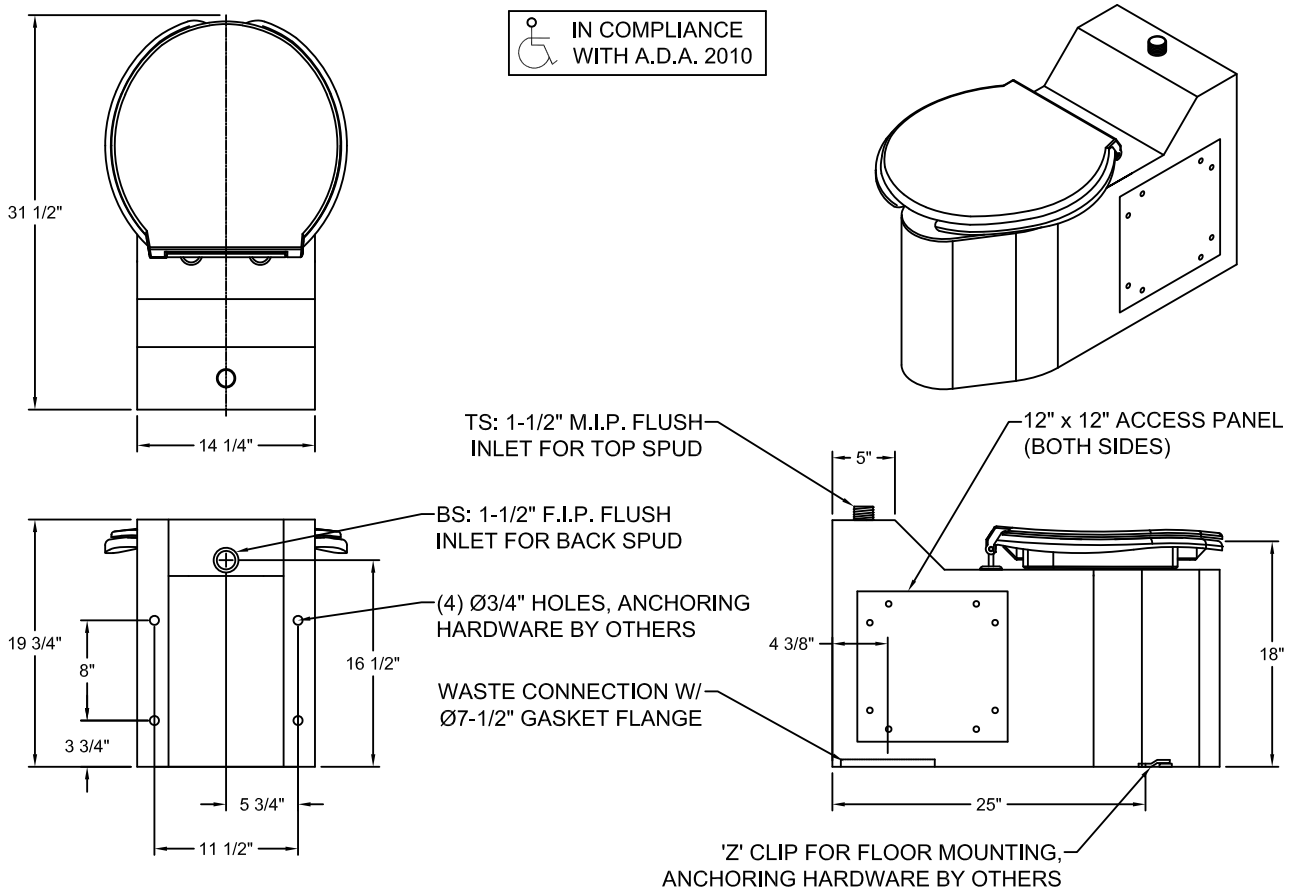
❑ BL Bedpan Lugs
❑ SLL Seat Less Lid
❑ FV Flush Valve
❑ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
❑ FVT Flush Valve Connection
❑ AP Flush Valve Access Panel
❑ MT Metal Template
❑ RTH2 Front Access Wall Mounted Recessed Tissue Holder
❑ Other: _____
❑ Other: _____

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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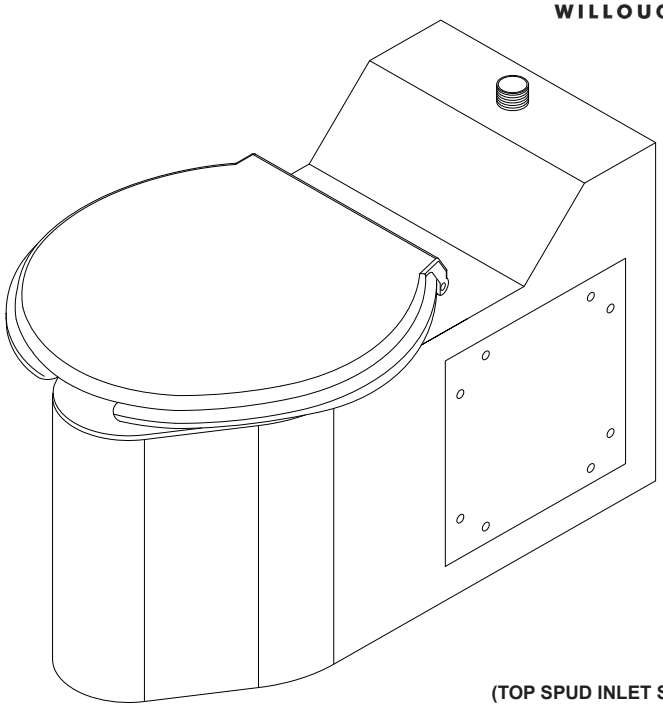
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WILLOUGHBY

BETF-1490-FM-FA-10"
10" Rough-In
Front Access
Floor Outlet
Siphon Jet Series
Bariatric Toilet

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010



(TOP SPUD INLET SHOWN)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a 10" Rough-In, Front Access, Floor Outlet, Siphon Jet Series Bariatric Toilet with back spud, flush valve and wall mounted recessed tissue holder

Use the following Willoughby Model Number:
BETF-1490-FM-FA-10-BS-FV-RTH1

Recommended Specifications

10" Rough-In, Front Access, Floor Outlet, Siphon Jet Series Bariatric Toilet shall be:
Willoughby Model No. **BETF-1490-FM-FA-10"**
(Select from model number and options list on next page)

Fixture shall be fabricated from heavy gauge, Type 304 stainless steel. The construction shall be all-welded. Fixture exterior shall have an antimicrobial gloss white powder coat enamel finish*. Toilet bowl interior shall have a sanitary bead-blast stainless steel finish.

Standard toilet shall include: elongated toilet bowl with integral contoured seat, integral crevice-free self-draining flushing rim with positive afterfill and fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 3-1/2" seal. Toilet shall be siphon jet type which requires 35 psi minimum flushing pressure. Hinged toilet seat shall have open front with cover and be rated for a 1200 pound weight capacity. Toilet seat hinges are stainless steel, seat and cover shall be white in color.

The fixture (less hinged seat) shall withstand loadings up to 2000 pounds with no measurable deflection and loadings up to 5000 pounds with no permanent damage.

Anchoring shall be from the front thru (2) 12" x 12" removable access panels. The fixture is provided with four (4) 3/4" wall carrier mounting holes and one (1) floor mounted 'Z' clip mounting bracket. Wall and floor anchoring hardware is by others.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ BETF-1490-FM-FA-10" 10" Rough-In, Front Access, Wall Outlet, Siphon Jet Series Bariatric Toilet

2.) Inlet Location:

❑ BS Back Spud
❑ TS Top Spud

3.) Flush Valve GPF's (Must Specify):

❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
❑ 1.6 GPF ULF (6.0 Lpf)
❑ 3.5 GPF (13.2 Lpf)

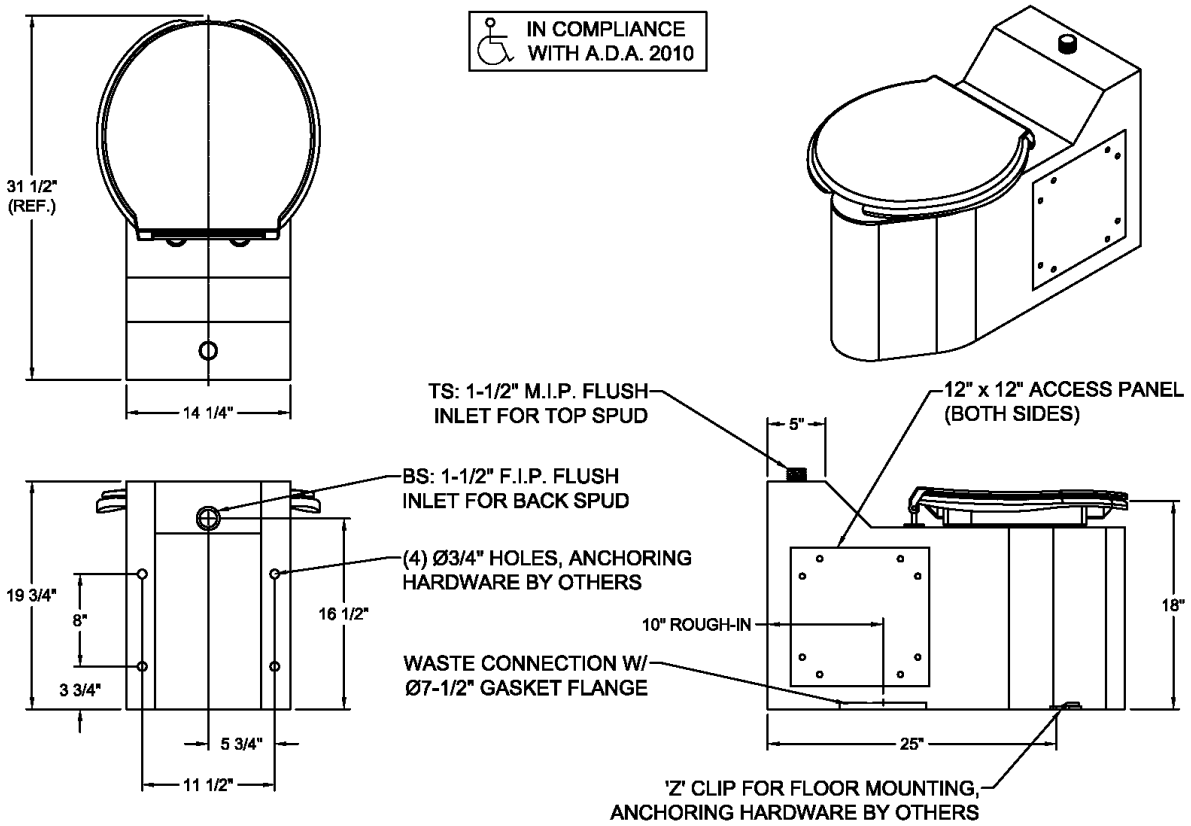
4.) Options:

❑ BL Bedpan Lugs
❑ SLL Seat Less Lid
❑ FV Flush Valve
❑ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
❑ FVT Flush Valve Connection
❑ AP Flush Valve Access Panel
❑ MT Metal Template
❑ RTH2 Front Access Wall Mounted Recessed Tissue Holder
❑ Other: _____
❑ Other: _____

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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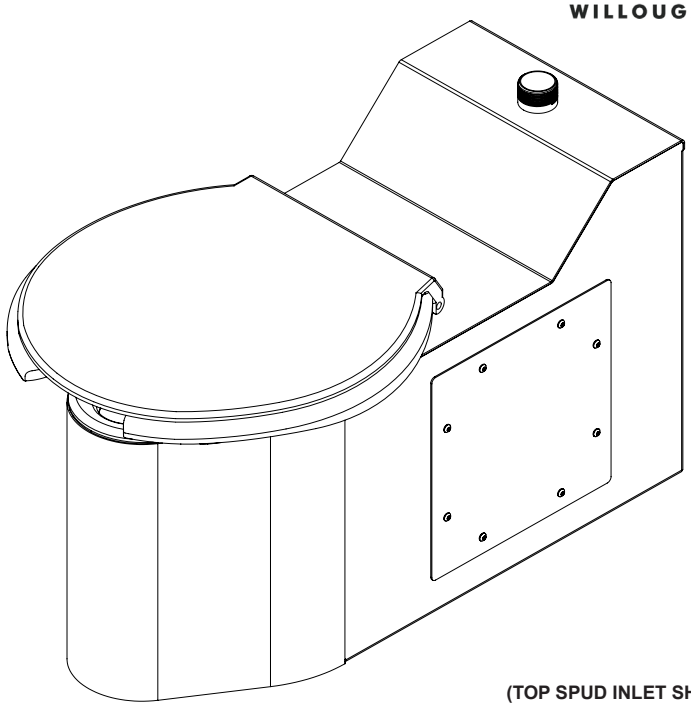
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WILLOUGHBY

BETF-1490-FM-FA-12"
12" Rough-In
Front Access
Floor Outlet
Siphon Jet Series
Bariatric Toilet

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010



(TOP SPUD INLET SHOWN)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a 12" Rough-In, Front Access, Floor Outlet, Siphon Jet Series Bariatric Toilet with top spud, 1.6 GFP, flush valve, and wall mounted recessed tissue holder

Use the following Willoughby Model Number:
BETF-1490-FM-FA-12"-TS-1.6-FV-RTH1

Recommended Specifications

12" Rough-In, Front Access, Floor Outlet, Siphon Jet Series Bariatric Toilet shall be:
Willoughby Model No. **BETF-1490-FM-FA-12"**
(Select from model number and options list on next page)

Fixture shall be fabricated from heavy gauge, Type 304 stainless steel. The construction shall be all-welded. Fixture exterior shall have an antimicrobial gloss white powder coat enamel finish*. Toilet bowl interior shall have a sanitary bead-blast stainless steel finish.

Standard toilet shall include: elongated toilet bowl with integral contoured seat, integral crevice-free self-draining flushing rim with positive afterfill and fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 3-1/2" seal. Toilet shall be siphon jet type which requires 35 psi minimum flushing pressure. Hinged toilet seat shall have open front with cover and be rated for a 1200 pound weight capacity. Toilet seat hinges are stainless steel, seat and cover shall be white in color.

The fixture (less hinged seat) shall withstand loadings up to 2000 pounds with no measurable deflection and loadings up to 5000 pounds with no permanent damage.

Anchoring shall be from the front thru (2) 12" x 12" removable access panels. The fixture is provided with four (4) 3/4" wall carrier mounting holes and one (1) floor mounted 'Z' clip mounting bracket. Wall and floor anchoring hardware is by others.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ BETF-1490-FM-FA-12" 12" Rough-In, Front Access, Wall Outlet, Siphon Jet Series Bariatric Toilet

2.) Inlet Location:

❑ BS Back Spud
❑ TS Top Spud

3.) Flush Valve GPF's (Must Specify):

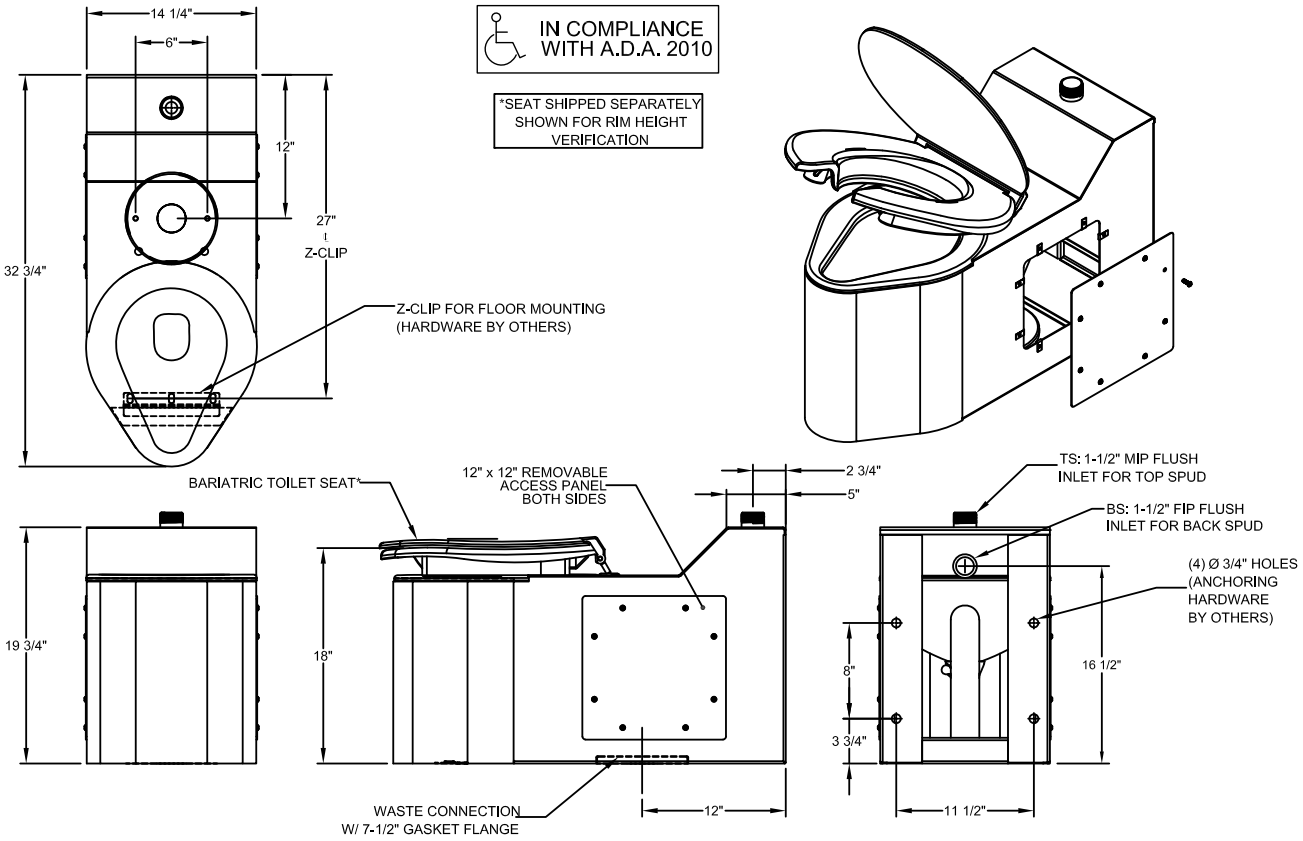
❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
❑ 1.6 GPF ULF (6.0 Lpf)
❑ 3.5 GPF (13.2 Lpf)

4.) Options:

❑ BL Bedpan Lugs
❑ SLL Seat Less Lid
❑ FV Flush Valve
❑ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
❑ FVT Flush Valve Connection
❑ AP Flush Valve Access Panel
❑ MT Metal Template
❑ RTH2 Front Access Wall Mounted Recessed Tissue Holder
❑ Other: _____
❑ Other: _____

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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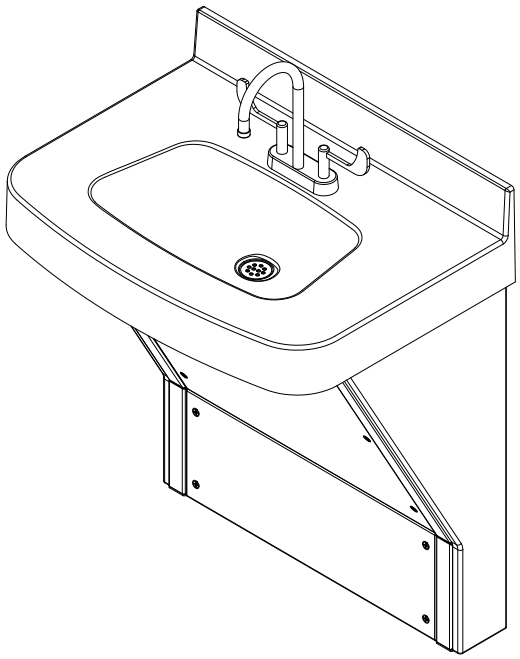
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Willoughby Industries - *Healthcare Products*

BHS-3123
ADA-Compliant
Solid Surface
Bariatric Lavatory



IN COMPLIANCE
WITH A.D.A. 2010

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an ADA-Compliant, Solid Surface Bariatric Lavatory with a stainless steel pedestal, 4" CC, rigid 8" gooseneck, wristblade faucet, Sandstone color with Amati Walnut panels, and thermostatic mixing valve

Use the following Willoughby Model Number:
BHS-3123-WB1-SS-WL-TMV

Recommended Specifications

ADA-Compliant, Solid Surface Bariatric Lavatory shall be:
Willoughby Model No: **BHS-3123**
(Select from model number and options list on next page)

Floor mounted bariatric lavatory shall accommodate bariatric patient and be able to withstand a static downward force of 1,000 lbs at front edge of lavatory with no permanent physical damage.

Lavatory deck shall be constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate and mineral fillers. Lavatory deck shall have an integral "D-shaped" bowl with an integrally cast 4" cove backsplash and 4" apron included.

Lavatory pedestal shall be welded stainless steel; exterior panels shall be solid polymer. Optional wood grain exterior panels available.

Unit shall require no chase for installation and maintenance.

BHS-3123 Bariatric Lavatory shall be supplied with a 4"CC, rigid 8" gooseneck wristblade faucet; and an antimicrobial drain and offset tail piece* (an optional antimicrobial trap is available). Optional infrared faucet models and thermostatic mixing valves are available.

ADA, TAS, UFAS, and ANSI Compliant:
Unit shall comply with IAPMO Z124 / CSA B45.5 requirements. It shall also comply with all applicable ADA, TAS, UFAS, and ANSI accessibility guidelines.

Mounting:
The lavatory shall be floor mounted with additional anchoring to back wall. Lavatory is designed to accommodate use of third party carrier should one be desired. (Carrier supplied by others). Proper backing and anchoring hardware for mounting of lavatory provided by others.

**Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.*

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MODEL NUMBER AND OPTIONS:

1.) Lavatory Model:

❑ BHS-3123 ADA-Compliant, Solid Surface Bariatric Lavatory

2.) Faucet:**

❑ WB1 1.5 gpm, 4CC, Rigid 8" Gooseneck, Wristblade Faucet (Standard)

❑ SSF Gooseneck Sensor Spout, Center Shank IR Operated, Laminar Flow (12v transformer is required)

❑ SSFB Gooseneck Sensor Spout, Center Shank IR (Battery Operated), Laminar Flow

❑ NV No Valve, No Faucet/Spout- Faucet by Others (Select Hole Punching if needed)

3.) Hole Drilling Selection (Faucet by Others):

NOTE: If hole drilling is required, please submit faucet for approval

❑ 4CC 4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)

❑ 8CC 8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)

❑ 1CC Center Shank, (1) Ø1-1/4" Hole

❑ SP Special Punching/Drilling (Specify hole punching dim.)

SP: _____

4.) Lavatory Deck Colors:

❑ BN Bone

❑ GW Glacier White

❑ GG Grey Granite

❑ SS Sandstone

❑ WG White Granite

❑ BG Black Granite

❑ NB Nocturnal Blue

❑ RC Red Coral

❑ SG Sea Green

5.) Side Panels:

Polymer Colors (Standard)

❑ AW Arctic White

❑ SM Sea Foam

❑ SN Sanshade (Almond)

❑ WW White White

Wood Grain Premium Colors (Optional- at additional cost)

❑ KM Kasei Maple

❑ MW Majestic Walnut

❑ WL Amati Walnut

6.) Other:

❑ MT Wall Template

❑ TMV Inline Thermostatic Mixing Valve

❑ TF12PI 12v Plug-in Transformer (SSF faucet only)

❑ TF12HW 12v Hard-wire Transformer (SSF faucet only)

❑ AMT Antimicrobial Trap*

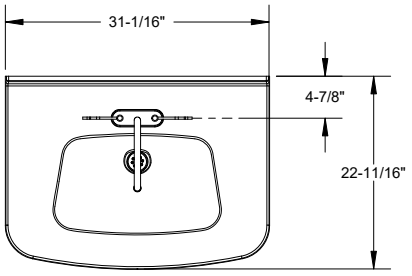
***Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.**

Approved For Manufacturing By: _____ Date: _____ Company: _____

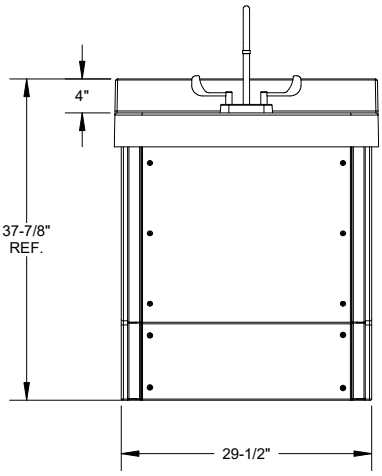
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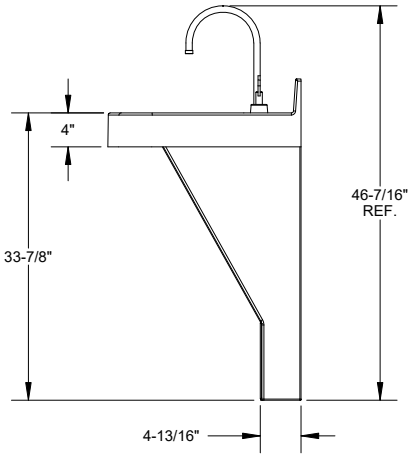
VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

WILLOUGHBY RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT FORMAL NOTICE AND WITHOUT INCURRING OBLIGATION.



**** NOTICE: Faucet options for the BHS-3123 Bariatric Lavatory have been selected to specifically minimize splashing and aerosolization when used with the BHS-3123. Willoughby Industries will not be held liable for any unintended splashing resulting from use of a faucet not supplied by Willoughby Industries or without prior approval by Willoughby Industries.**





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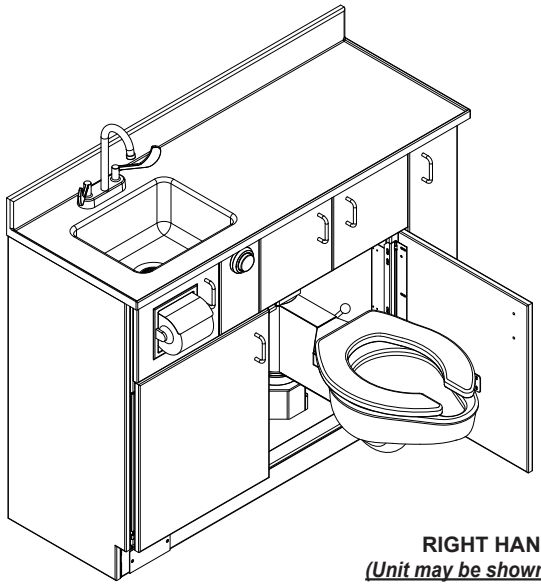
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Willoughby Industries - *Healthcare Products*

WH-1700 Series Swivel Toilet Patient Care Unit



RIGHT HAND UNIT SHOWN
(Unit may be shown with optional features)

WaterSense certified only for use with a certified high-efficiency flushometer

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a WH-1700 swivel toilet Patient Care Unit with right hand swivel toilet, 1.6 GPF, wall outlet toilet waste, 3" PVC toilet waste coupling, Arctic White cabinet, Red Coral color countertop w/matching Red Coral color lavatory bowl, standard back wall backsplash, standard gooseneck wrist-blade faucet, standard bedpan washer with elevated atm. vacuum breaker, and integral cabinet single valve dialysis box

Use the following Willoughby Model Number:
WH-1700-R-1.6-SWO-TWC3P-AW-RC-BCM-1-WB-BWSEV-SDB

Recommended Specifications

Modular Patient Care Unit in decorator cabinet shall be:
Willoughby Model No. **WH-1700**
(Select from model number and options list on next page)
Unit shall be free standing and shall include the following standard equipment and features:

Cabinet:
Modular Type 304 stainless steel welded cabinet shall include:
- Solid polymer exterior cabinet panels and doors
  (Doors have rounded edges to enhance patient safety and Toilet Doors will support a 250 pound static load via the frame-mounted piano hinges)
- Solid surface countertop and integral lavatory bowl
- Toilet tissue holder conveniently located on the cabinet face
- Standard side-mounted bedpan washer concealed behind a separate cabinet door

(Other bedpan washer configurations/dialysis boxes are options.)

Toilet:
Standard siphon jet type swivel toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim w/ positive afterfill
- Fully enclosed 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" ball
- Bead blast finish bowl interior (optional antimicrobial white ext.*)

Toilet shall require 35 psi min. flushing pressure and shall meet the requirements of ASME A112.19.3/CSA B45.4.

Lavatory:
Solid surface lavatory shall include:
- Rectangular bowl, 13-1/2" x 10-1/2" x 7" deep, w/ grid drain
- Rigid gooseneck spout faucet w/ laminar flow nozzle

Optional Features:
- Lavatory waste traps and stops are available options
- Integral solid surface lav. bowl can be ordered in one of two contrasting colors to visually separate bowl from countertop
- Available code variance-specific equipment

Mounting:
Anchoring shall be through the front and through the floor (anchoring hardware provided by others). Unit requires no chase area for installation and maintenance. Standard siphon jet type swivel toilet shall have a minimum 17" high rim height (less seat) and support a 2500 lb. vertical static load.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blow-out jet action. Use sanitary or offset type waste fittings.

Note: For HET 1.28 GPF, unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Patient Care Unit Model Number:
- ❑ WH-1700-R (Right hand toilet, Left sink)
- ❑ WH-1700-L (Left hand toilet, Right sink)

2.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf) (Standard)
- ❑ 3.5 GPF (13.2 Lpf) (3" waste tube required)

3.) Toilet Fixture (Stainless Steel):
- ❑ SWO Swivel Toilet/Wall Outlet
- ❑ SFO Swivel Toilet/Floor Outlet

4.) Toilet Waste
- ❑ TWC__ Toilet Waste Coupling, for (SWO) only (Must Specify Connection):
  - ❑ 3P Connecting to 3" PVC
  - ❑ 3C Connecting to 3" Cast Iron
  - ❑ 4P Connecting to 4" PVC
  - ❑ 4C Connecting to 4" Cast Iron
- ❑ TWG Toilet Waste Gasket, for (SFO) only

5.) Exterior Polymer Panel Color (Must Specify):
- ❑ AW Arctic White
- ❑ WW White/White
- ❑ LG Light Grey
- ❑ SN Sanshade (Almond)
- ❑ SM Seafoam
- ❑ DG Dolphin Grey

6.) Countertop Color (AQCT) (Must Specify):
- ❑ BN Bone
- ❑ GW Glacier White
- ❑ GG Grey Granite
- ❑ SS Sandstone
- ❑ WG White Granite
- ❑ BG Black Granite
- ❑ NB Nocturnal Blue
- ❑ RC Red Coral
- ❑ SG Sea Green

7.) Countertop Sink Bowl Color:
- ❑ BCM Countertop-matching (Standard)
- ❑ BBN Bone
- ❑ BGW Glacier White

8.) Backsplash Orientation:
- ❑ 1 Back Wall Only (1 Wall) (Standard)
- ❑ 2 Right Hand Corner (2 Wall)
- ❑ 3 Left Hand Corner (2 Wall)
- ❑ 4 Alcove (3 Wall)

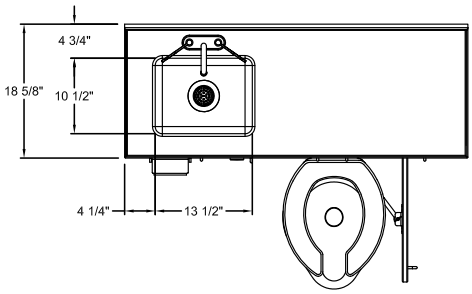
9.) Faucet:
- ❑ WB Gooseneck Spout, Laminar Flow, Wristblade Handles, 4CC
- ❑ FPF Gooseneck Spout, Laminar Flow, Foot Pedal Valve
- ❑ SSF Gooseneck Sensor Spout, Center Shank IR Operated, Laminar Flow (12v transformer is required)
- ❑ SSFB Gooseneck Sensor Spout, Center Shank IR (Battery Operated), Laminar Flow

10.) Other Options:
- ❑ BWSEV Bedpan Washer & Elevated Atmospheric Vacuum Breaker
- ❑ BWSEV-VC Bedpan Washer, Elevated Atmospheric Vacuum Breaker & Volume Control
- ❑ BWSCV Bedpan Washer & Continuous Pressure Vacuum Breaker
- ❑ BWSCV-VC Bedpan Washer, Continuous Pressure Vacuum Breaker & Volume Control
- ❑ SDB Integral Cabinet Single Valve Dialysis Box
- ❑ DDB Integral Cabinet Dual Valve Dialysis Box
- ❑ DC Antimicrobial White Exterior Toilet Finish*
- ❑ BL Bedpan Lugs
- ❑ TFL Toilet Flush Lock
- ❑ PAD Paddle Latch Toilet Release

11.) Code Variances:
- ❑ TMV Inline Thermostatic Mixing Valve
- ❑ DBDRN Dialysis Box Drain /Trap
- ❑ PTC 'P' Trap w/Clean-out Plug
- ❑ LSS 1/2" x 3/8" Lavatory Supply Stops
- ❑ TF12PI 12v Plug-in Transformer (SSF faucet only)
- ❑ TF12HW 12v Hard-wire Transformer (SSF faucet only)
- ❑ Other _____
- ❑ Other _____

***Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.**

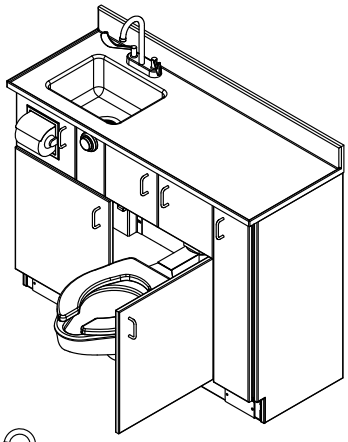
Approved For Manufacturing By:_____ Date:_____ Company:_____
Wall Thickness: _____ Wall Type:_____

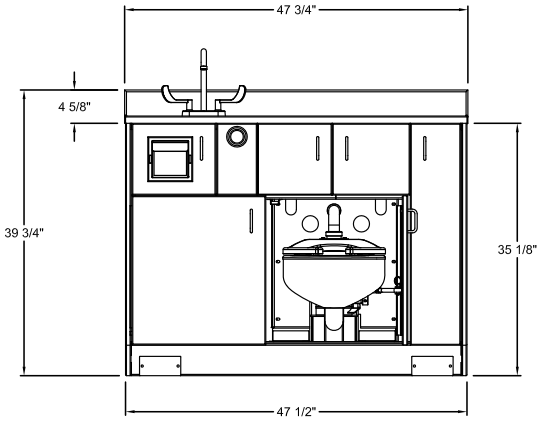


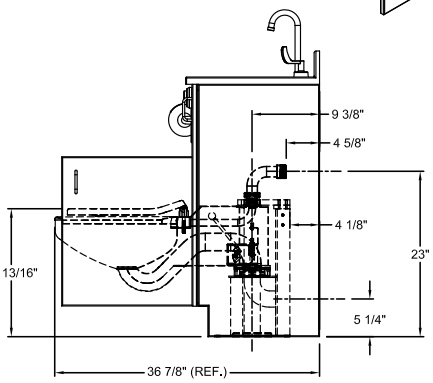
REFERENCE: S900641

NOTE: RIGHT HAND MODEL SHOWN, LEFT HAND IS SYMMETRICALLY OPPOSITE

NOTE: REFERENCE ROUGH-IN TEMPLATES:
WALL: S901913
FLOOR: S900608







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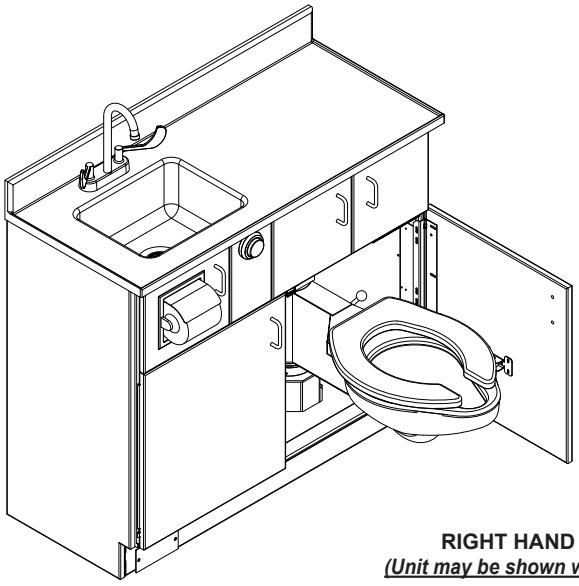
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WH-1750 Series Swivel Toilet Patient Care Unit



RIGHT HAND UNIT SHOWN
(Unit may be shown with optional features)

WaterSense certified only for use with a certified high-efficiency flushometer

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a WH-1750 swivel toilet Patient Care Unit with right hand swivel toilet, 1.6 GPF, wall outlet toilet waste, 3" PVC toilet waste coupling, Arctic White cabinet, Red Coral color countertop w/matching Red Coral color lavatory bowl, standard back wall backsplash, standard gooseneck wrist-blade faucet, bedpan washer with elevated atm. vacuum breaker, and integral cabinet single valve dialysis box

Use the following Willoughby Model Number:
WH-1750-R-1.6-SWO-TWC3P-AW-RC-BCM-1-WB-BWSEV-SDB

Recommended Specifications

Modular Patient Care Unit in decorator cabinet shall be:
Willoughby Model No. **WH-1750**
(Select from model number and options list on next page)
Unit shall be free standing and shall include the following standard equipment and features:

Cabinet:
Modular Type 304 stainless steel welded cabinet shall include:
- Solid polymer exterior cabinet panels and doors (Doors have rounded edges to enhance patient safety and Toilet Doors will support a 250 pound static load via the frame-mounted piano hinges)
- Solid surface countertop and integral lavatory bowl
- Toilet tissue holder conveniently located on the cabinet face (Integral bedpan washer and dialysis box are available options.)

Toilet:
Standard siphon jet type swivel toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim w/ positive afterfill
- Fully enclosed 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" ball
- Bead blast finish bowl interior (optional antimicrobial white ext.*)

Toilet shall require 35 psi min. flushing pressure and shall meet the requirements of ASME A112.19.3/CSA B45.4.

Lavatory:
Solid surface lavatory shall include:
- Rectangular bowl, 13-1/2" x 10-1/2" x 7" deep, w/ grid drain
- Rigid gooseneck spout faucet w/ laminar flow nozzle

Optional Features:
- Lavatory waste traps and stops are available options
- Integral solid surface lav. bowl can be ordered in one of two contrasting colors to visually separate bowl from countertop
- Available code variance-specific equipment

Mounting:
Anchoring shall be through the front and through the floor (anchoring hardware provided by others). Unit requires no chase area for installation and maintenance. Standard siphon jet type swivel toilet shall have a minimum 17" high rim height (less seat) and support a 2500 lb. vertical static load.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blow-out jet action. Use sanitary or offset type waste fittings.

Note: For HET 1.28 GPF, unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Patient Care Unit Model Number:
- ❑ WH-1750-R (Right hand toilet, Left sink)
- ❑ WH-1750-L (Left hand toilet, Right sink)

2.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf) (Standard)
- ❑ 3.5 GPF (13.2 Lpf) (3" waste tube required)

3.) Toilet Fixture (Stainless Steel):
- ❑ SWO Swivel Toilet/Wall Outlet
- ❑ SFO Swivel Toilet/Floor Outlet

4.) Toilet Waste
- ❑ TWC__ Toilet Waste Coupling, for (SWO) only (Must Specify Connection):
  - ❑ 3P Connecting to 3" PVC
  - ❑ 3C Connecting to 3" Cast Iron
  - ❑ 4P Connecting to 4" PVC
  - ❑ 4C Connecting to 4" Cast Iron
- ❑ TWG Toilet Waste Gasket, for (SFO) only

5.) Exterior Polymer Panel Color (Must Specify):
- ❑ AW Arctic White
- ❑ WW White/White
- ❑ LG Light Grey
- ❑ SN Sanshade (Almond)
- ❑ SM Seafoam
- ❑ DG Dolphin Grey

6.) Countertop Color (AQCT) (Must Specify):
- ❑ BN Bone
- ❑ GW Glacier White
- ❑ GG Grey Granite
- ❑ SS Sandstone
- ❑ WG White Granite
- ❑ BG Black Granite
- ❑ NB Nocturnal Blue
- ❑ RC Red Coral
- ❑ SG Sea Green

7.) Countertop Sink Bowl Color:
- ❑ BCM Countertop-matching (Standard)
- ❑ BBN Bone
- ❑ BGW Glacier White

8.) Backsplash Orientation:
- ❑ 1 Back Wall Only (1 Wall) (Standard)
- ❑ 2 Right Hand Corner (2 Wall)
- ❑ 3 Left Hand Corner (2 Wall)
- ❑ 4 Alcove (3 Wall)

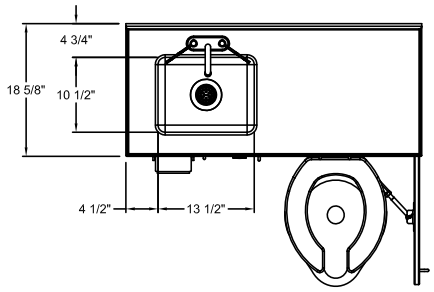
9.) Faucet:
- ❑ WB Gooseneck Spout, Laminar Flow, Wristblade Handles, 4CC
- ❑ FPF Gooseneck Spout, Laminar Flow, Foot Pedal Valve
- ❑ SSF Gooseneck Sensor Spout, Center Shank IR Operated, Laminar Flow (12v transformer is required)
- ❑ SSFB Gooseneck Sensor Spout, Center Shank IR (Battery Operated), Laminar Flow

10.) Other Options:
- ❑ BWSEV Bedpan Washer & Elevated Atmospheric Vacuum Breaker
- ❑ BWSEV-VC Bedpan Washer, Elevated Atmospheric Vacuum Breaker & Volume Control
- ❑ BWSCV Bedpan Washer & Continuous Pressure Vacuum Breaker
- ❑ BWSCV-VC Bedpan Washer, Continuous Pressure Vacuum Breaker & Volume Control
- ❑ SDB Integral Cabinet Single Valve Dialysis Box
- ❑ DDB Integral Cabinet Dual Valve Dialysis Box
- ❑ DC Antimicrobial White Exterior Toilet Finish*
- ❑ BL Bedpan Lugs
- ❑ TFL Toilet Flush Lock
- ❑ PAD Paddle Latch Toilet Release

11.) Code Variances:
- ❑ TMV Inline Thermostatic Mixing Valve
- ❑ DBDRN Dialysis Box Drain /Trap
- ❑ PTC 'P' Trap w/Clean-out Plug
- ❑ LSS 1/2" x 3/8" Lavatory Supply Stops
- ❑ TF12PI 12v Plug-in Transformer (SSF faucet only)
- ❑ TF12HW 12v Hard-wire Transformer (SSF faucet only)
- ❑ Other _____
- ❑ Other _____

***Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.**

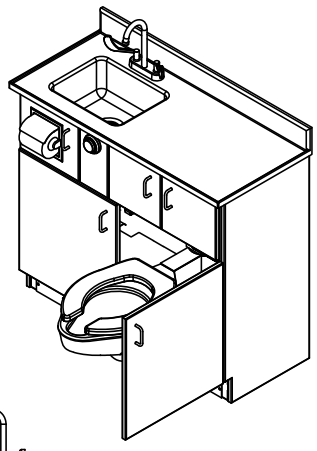
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Wall Thickness: _____ Wall Type:_____

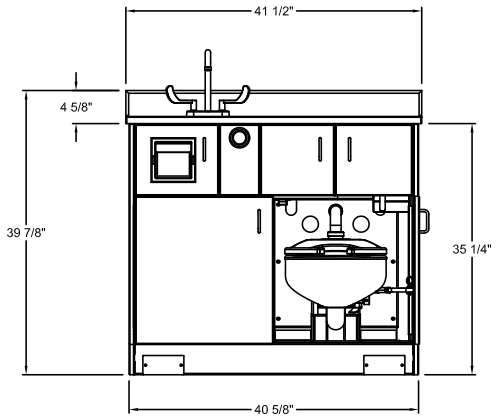


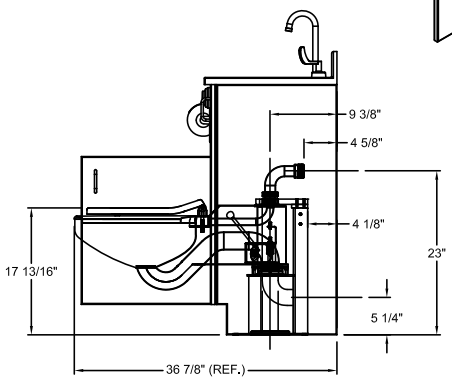
REFERENCE: S900586

NOTE: RIGHT HAND MODEL SHOWN, LEFT HAND IS SYMMETRICALLY OPPOSITE

NOTE: REFERENCE ROUGH-IN TEMPLATES:
WALL: S900603
FLOOR: S900594







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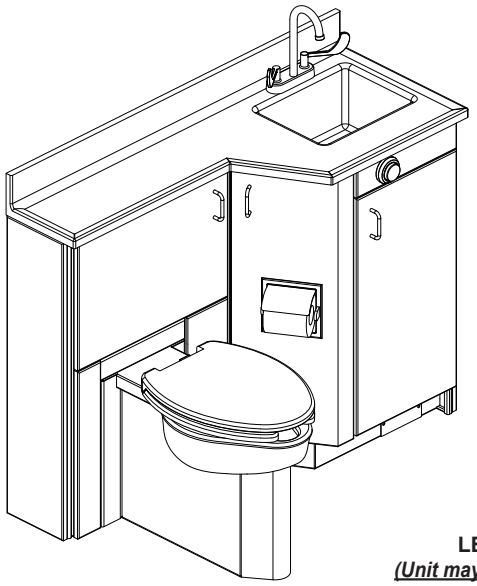
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WILLOUGHBY

WH-1900 Series
Patient Care Unit



LEFT HAND UNIT SHOWN
(Unit may be shown with optional features)

WaterSense certified only for use with a certified high-efficiency flushometer

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a WH-1900 Patient Care Unit with left hand toilet, 1.6 GPF, wall outlet toilet waste, 3" PVC toilet waste coupling, Dolphin Grey cabinet, Nocturnal Blue color countertop w/contrasting Bone color lavatory bowl, standard back wall backsplash, standard gooseneck wrist-blade faucet, standard bed-pan washer with elevated atm. vacuum breaker, and standard antimicrobial white ext. toilet finish*

Use the following Willoughby Model Number:
WH-1900-L-1.6-WO-TWC3P-DG-NB-BBN-1-WB-BWSEV-DC

Recommended Specifications

Modular Patient Care Unit in decorator cabinet shall be:
Willoughby Model No. **WH-1900**
(Select from model number and options list on next page)
Unit shall be free standing and shall include the following standard equipment and features:

Cabinet:
Modular Type 304 stainless steel welded cabinet shall include:
- Solid polymer exterior cabinet panels and doors (Doors have rounded edges to enhance patient safety)
- Solid surface countertop and integral lavatory bowl
- Toilet tissue holder conveniently located on the cabinet face
- Standard side-mounted bedpan washer concealed behind a separate cabinet door (Elevated atmospheric vacuum breaker included, integral dialysis box is optional.)

Toilet:
Standard siphon jet type toilet shall include:
- Elongated toilet bowl with contoured seat and lid
- Integral crevice-free self-draining flushing rim w/ positive afterfill
- Fully enclosed 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" ball
- Bead blast finish bowl interior; exterior finished in an antimicrobial gloss white powder coat enamel finish*

Toilet shall require 35 psi min. flushing pressure and shall meet the requirements of ASME A112.19.3/CSA B45.4.

Lavatory:
Solid surface lavatory shall include:
- Rectangular bowl, 13-1/2" x 10-1/2" x 7" deep, w/ grid drain
- Rigid gooseneck spout faucet w/ laminar flow nozzle

Optional Features:
- Lavatory waste traps and stops are available options
- Integral solid surface lav. bowl can be ordered in one of two contrasting colors to visually separate bowl from countertop
- Available code variance-specific equipment

Mounting:
Anchoring shall be through the front and through the floor (anchoring hardware provided by others). Unit requires no chase area for installation and maintenance. Standard siphon jet toilet shall have a minimum 17" rim height (less seat) and withstand loading up to 2000 lbs. with no measurable deflection and loading up to 5000 lbs. with no permanent damage.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blow-out jet action. Use sanitary or offset type waste fittings.

Note: For HET 1.28 GPF, unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Patient Care Unit Model Number:
- ❑ WH-1900-R (Right hand toilet, Left sink)
- ❑ WH-1900-L (Left hand toilet, Right sink)

2.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf) (Standard)
- ❑ 3.5 GPF (13.2 Lpf) (3" waste tube required)

3.) Toilet Fixture (Stainless Steel):
- ❑ WO Floor Mounted Toilet/Wall Outlet
- ❑ FO Floor Mounted Toilet/Floor Outlet

4.) Toilet Waste
- ❑ TWC__ Toilet Waste Coupling, for (WO) only (Must Specify Connection):
  - ❑ 3P Connecting to 3" PVC
  - ❑ 3C Connecting to 3" Cast Iron
  - ❑ 4P Connecting to 4" PVC
  - ❑ 4C Connecting to 4" Cast Iron
- ❑ TWG Toilet Waste Gasket, for (FO) only

5.) Exterior Polymer Panel Color (Must Specify):
- ❑ AW Arctic White
- ❑ WW White/White
- ❑ LG Light Grey
- ❑ SN Sanshade (Almond)
- ❑ SM Seafoam
- ❑ DG Dolphin Grey

6.) Countertop Color (AQCT) (Must Specify):
- ❑ BN Bone
- ❑ GW Glacier White
- ❑ GG Grey Granite
- ❑ SS Sandstone
- ❑ WG White Granite
- ❑ BG Black Granite
- ❑ NB Nocturnal Blue
- ❑ RC Red Coral
- ❑ SG Sea Green

7.) Countertop Sink Bowl Color:
- ❑ BCM Countertop-matching (Standard)
- ❑ BBN Bone
- ❑ BGW Glacier White

8.) Backsplash Orientation:
- ❑ 1 Back Wall Only (1 Wall)
- ❑ 2 Right Hand Corner (2 Wall)
- ❑ 3 Left Hand Corner (2 Wall)
- ❑ 4 Alcove (3 Wall)

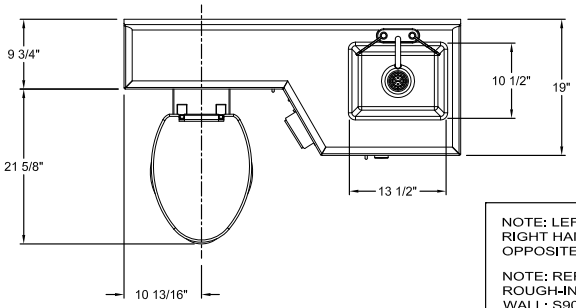
9.) Faucet:
- ❑ WB Gooseneck Spout, Laminar Flow, Wristblade Handles, 4CC
- ❑ FPF Gooseneck Spout, Laminar Flow, Foot Pedal Valve
- ❑ SSF Gooseneck Sensor Spout, Center Shank IR Operated, Laminar Flow (12v transformer is required)
- ❑ SSFB Gooseneck Sensor Spout, Center Shank IR (Battery Operated), Laminar Flow

10.) Other Options:
- ❑ BWSEV Bedpan Washer & Elevated Atmospheric Vacuum Breaker
- ❑ BWSEV-VC Bedpan Washer, Elevated Atmospheric Vacuum Breaker & Volume Control
- ❑ BWSCV Bedpan Washer & Continuous Pressure Vacuum Breaker
- ❑ BWSCV-VC Bedpan Washer, Continuous Pressure Vacuum Breaker & Volume Control
- ❑ SDB Integral Cabinet Single Valve Dialysis Box
- ❑ DDB Integral Cabinet Dual Valve Dialysis Box
- ❑ DC Antimicrobial White Exterior Toilet Finish*(Standard)
- ❑ BL Bedpan Lugs
- ❑ RCC Roll Away Closet Cover (Exam Seat)

11.) Code Variances:
- ❑ TMV Inline Thermostatic Mixing Valve
- ❑ DBDRN Dialysis Box Drain /Trap
- ❑ PTC 'P' Trap w/Clean-out Plug
- ❑ LSS 1/2" x 3/8" Lavatory Supply Stops
- ❑ TF12PI 12v Plug-in Transformer (SSF faucet only)
- ❑ TF12HW 12v Hard-wire Transformer (SSF faucet only)
- ❑ Other _____
- ❑ Other _____

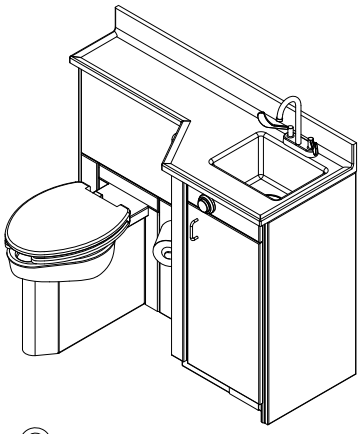
***Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.**

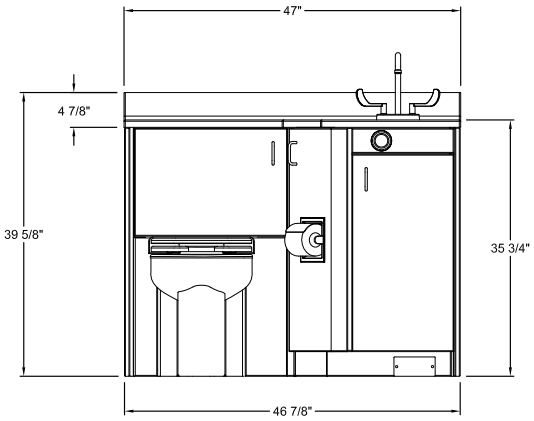
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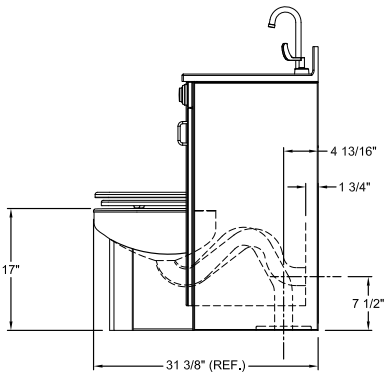


NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE

NOTE: REFERENCE ROUGH-IN TEMPLATES:
WALL: S900439
FLOOR: S900440







VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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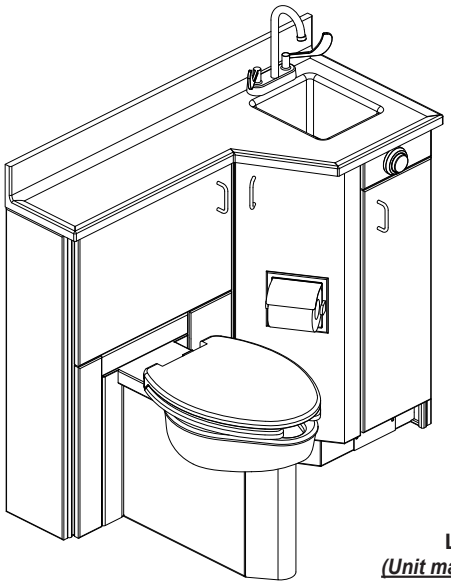
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Willoughby Industries - *Healthcare Products*

WH-1950 Series
Patient Care Unit



LEFT HAND UNIT SHOWN
(Unit may be shown with optional features)

WaterSense certified only for use with a certified high-efficiency flushometer

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a WH-1950 Patient Care Unit with left hand toilet, 1.6 GPF, wall outlet toilet waste, 3" PVC toilet waste coupling, Dolphin Grey cabinet, Nocturnal Blue color countertop w/contrasting Bone color lavatory bowl, standard back wall backsplash, standard gooseneck wrist-blade faucet, standard bed-pan washer with elevated atm. vacuum breaker, and standard antimicrobial white ext. toilet finish*

Use the following Willoughby Model Number:
WH-1950-L-1.6-WO-TWC3P-DG-NB-BBN-1-WB-BWSEV-DC

Recommended Specifications

Modular Patient Care Unit in decorator cabinet shall be:
Willoughby Model No. **WH-1950**
(Select from model number and options list on next page)
Unit shall be free standing and shall include the following standard equipment and features:

Cabinet:
Modular Type 304 stainless steel welded cabinet shall include:
- Solid polymer exterior cabinet panels and doors (Doors have rounded edges to enhance patient safety)
- Solid surface countertop and integral lavatory bowl
- Toilet tissue holder conveniently located on the cabinet face (Integral bedpan washer and dialysis box are available options.)

Toilet:
Standard siphon jet type toilet shall include:
- Elongated toilet bowl with contoured seat and lid
- Integral crevice-free self-draining flushing rim w/ positive afterfill
- Fully enclosed 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" ball
- Bead blast finish bowl interior; exterior finished in an antimicrobial gloss white powder coat enamel finish*

Toilet shall require 35 psi min. flushing pressure and shall meet the requirements of ASME A112.19.3/CSA B45.4.

Lavatory:
Solid surface lavatory shall include:
- Rectangular bowl, 13-1/2" x 10-1/2" x 7" deep, w/ grid drain
- Rigid gooseneck spout faucet w/ laminar flow nozzle

Optional Features:
- Lavatory waste traps and stops are available options
- Integral solid surface lav. bowl can be ordered in one of two contrasting colors to visually separate bowl from countertop
- Available code variance-specific equipment

Mounting:
Anchoring shall be through the front and through the floor (anchoring hardware provided by others). Unit requires no chase area for installation and maintenance. Standard siphon jet toilet shall have a minimum 17" rim height (less seat) and withstand loading up to 2000 lbs. with no measurable deflection and loading up to 5000 lbs. with no permanent damage.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blow-out jet action. Use sanitary or offset type waste fittings.

Note: For HET 1.28 GPF, unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

WARNING: Cancer and Reproductive Harm
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MODEL NUMBER AND OPTIONS:

1.) Patient Care Unit Model Number:
- ❑ WH-1950-R (Right hand toilet, Left sink)
- ❑ WH-1950-L (Left hand toilet, Right sink)

2.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf) (Standard)
- ❑ 3.5 GPF (13.2 Lpf) (3" waste tube required)

3.) Toilet Fixture (Stainless Steel):
- ❑ WO Floor Mounted Toilet/Wall Outlet
- ❑ FO Floor Mounted Toilet/Floor Outlet

4.) Toilet Waste
- ❑ TWC__ Toilet Waste Coupling, for (WO) only (Must Specify Connection):
  - ❑ 3P Connecting to 3" PVC
  - ❑ 3C Connecting to 3" Cast Iron
  - ❑ 4P Connecting to 4" PVC
  - ❑ 4C Connecting to 4" Cast Iron
- ❑ TWG Toilet Waste Gasket, for (FO) only

5.) Exterior Polymer Panel Color (Must Specify):
- ❑ AW Arctic White
- ❑ WW White/White
- ❑ LG Light Grey
- ❑ SN Sanshade (Almond)
- ❑ SM Seafoam
- ❑ DG Dolphin Grey

6.) Countertop Color (AQCT) (Must Specify):
- ❑ BN Bone
- ❑ GW Glacier White
- ❑ GG Grey Granite
- ❑ SS Sandstone
- ❑ WG White Granite
- ❑ BG Black Granite
- ❑ NB Nocturnal Blue
- ❑ RC Red Coral
- ❑ SG Sea Green

7.) Countertop Sink Bowl Color:
- ❑ BCM Countertop-matching (Standard)
- ❑ BBN Bone
- ❑ BGW Glacier White

8.) Backsplash Orientation:
- ❑ 1 Back Wall Only (1 Wall)
- ❑ 2 Right Hand Corner (2 Wall)
- ❑ 3 Left Hand Corner (2 Wall)
- ❑ 4 Alcove (3 Wall)

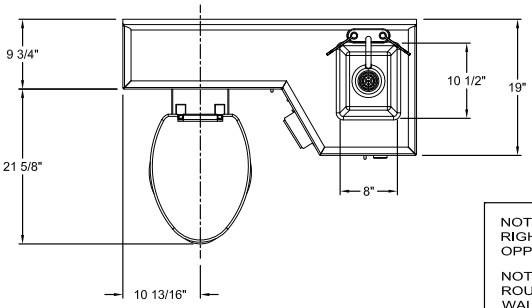
9.) Faucet:
- ❑ WB Gooseneck Spout, Laminar Flow, Wristblade Handles, 4CC
- ❑ FPF Gooseneck Spout, Laminar Flow, Foot Pedal Valve
- ❑ SSF Gooseneck Sensor Spout, Center Shank IR Operated, Laminar Flow (12v transformer is required)
- ❑ SSFB Gooseneck Sensor Spout, Center Shank IR (Battery Operated), Laminar Flow

10.) Other Options:
- ❑ BWSEV Bedpan Washer & Elevated Atmospheric Vacuum Breaker
- ❑ BWSEV-VC Bedpan Washer, Elevated Atmospheric Vacuum Breaker & Volume Control
- ❑ BWSCV Bedpan Washer & Continuous Pressure Vacuum Breaker
- ❑ BWSCV-VC Bedpan Washer, Continuous Pressure Vacuum Breaker & Volume Control
- ❑ SDB Integral Cabinet Single Valve Dialysis Box
- ❑ DDB Integral Cabinet Dual Valve Dialysis Box
- ❑ DC Antimicrobial White Exterior Toilet Finish*(Standard)
- ❑ BL Bedpan Lugs
- ❑ RCC Roll Away Closet Cover (Exam Seat)

11.) Code Variances:
- ❑ TMV Inline Thermostatic Mixing Valve
- ❑ DBDRN Dialysis Box Drain /Trap
- ❑ PTC 'P' Trap w/Clean-out Plug
- ❑ LSS 1/2" x 3/8" Lavatory Supply Stops
- ❑ TF12PI 12v Plug-in Transformer (SSF faucet only)
- ❑ TF12HW 12v Hard-wire Transformer (SSF faucet only)
- ❑ Other _____
- ❑ Other _____

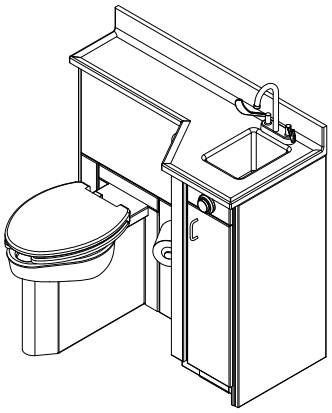
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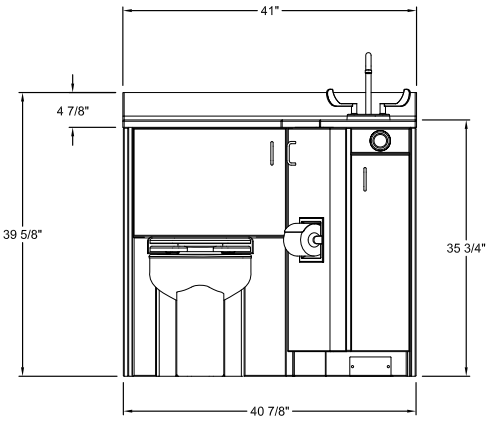
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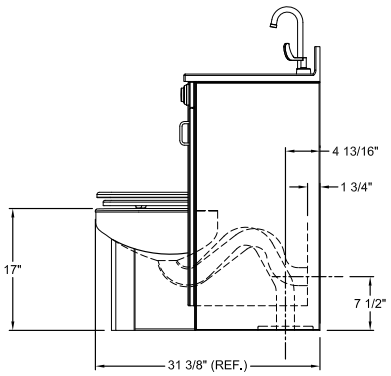


NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE

NOTE: REFERENCE ROUGH-IN TEMPLATES:
WALL: S900792
FLOOR: S900440







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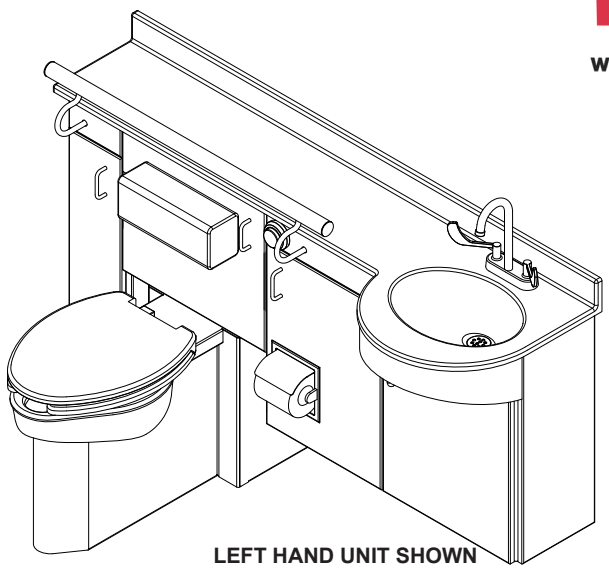
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Willoughby Industries - *Healthcare Products*

WILLOUGHBY

WH-2100 Series
Patient Care Unit



LEFT HAND UNIT SHOWN
(Unit may be shown with optional features)

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Patient Care Unit with left hand toilet, wall outlet with light grey cabinet, bone colored countertop, bone colored bowl, wristblade faucet, bedpan washer with elevated vacuum breaker, and antimicrobial white exterior toilet finish*

Use the following Willoughby Model Number:
WH-2100-L-1.6-WO-LG-AQCT-BN-BBN-1-WB-BWSEV-DC

Recommended Specifications

Modular Patient Care Unit with decorator cabinet shall be:
Willoughby Model No. **WH-2100**
(Select from model number and options list on next page)
Unit shall be wall mounted or free standing and shall include the following standard equipment and features:

Cabinet:
Modular Type 304 stainless steel welded cabinet shall include:
- Solid polymer exterior cabinet panels and doors (Doors have rounded edges to enhance patient safety)
- Solid surface countertop and integral lavatory bowl
- Toilet tissue holder conveniently located on the cabinet face
- Integral ADA grab bar
- Standard side-mounted bedpan washer concealed behind a separate cabinet door (Elevated atmospheric vacuum breaker included, integral dialysis box is optional.)

Toilet:
Standard siphon jet type toilet shall include:
- Elongated toilet bowl with contoured seat and lid
- Integral crevice-free self-draining flushing rim w/ positive afterfill
- Fully enclosed 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" ball
- Bead blast finish bowl interior; exterior finished in an antimicrobial gloss white powder coat enamel finish*

Toilet shall require 35 psi min. flushing pressure and shall meet the requirements of ASME A112.19.3/CSA B45.4.

Lavatory:
Solid surface lavatory shall include:
- Oval-shaped bowl, 15" x 11-1/2", w/ grid drain
- Rigid gooseneck spout faucet w/ laminar flow nozzle

Optional Features:
- Lavatory waste traps and stops are available options
- Integral solid surface lav. bowl can be ordered in one of two contrasting colors to visually separate bowl from countertop
- Available code variance-specific equipment

Mounting:
Anchoring shall be through the front and through the floor (anchoring hardware provided by others). Unit requires no chase area for installation and maintenance. Standard siphon jet toilet shall have a minimum 17" rim height (less seat) and withstand loading up to 2000 lbs. with no measurable deflection and loading up to 5000 lbs. with no permanent damage.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blow-out jet action. Use sanitary or offset type waste fittings.

Note: For HET 1.28 GPF, unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Patient Care Unit Model Number:

- ❑ WH-2100-R (Right hand toilet, Left sink)
- ❑ WH-2100-L (Left hand toilet, Right sink)

2.) Flush Valve GPF (Must Specify):

- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf) (Standard)
- ❑ 3.5 GPF (13.2 Lpf) (3" waste tube required)

3.) Toilet Fixture (Stainless Steel):

- ❑ WO Floor Mounted Toilet/Wall Outlet
- ❑ FO Floor Mounted Toilet/Floor Outlet

4.) Toilet Waste

❑ TWC__ Toilet Waste Coupling, for (WO) only (Must Specify Connection):

- ❑ 3P Connecting to 3" PVC
- ❑ 3C Connecting to 3" Cast Iron
- ❑ 4P Connecting to 4" PVC
- ❑ 4C Connecting to 4" Cast Iron

❑ TWG Toilet Waste Gasket, for (FO) only

5.) Exterior Polymer Panel Color (Must Specify):

- ❑ AW Arctic White
- ❑ WW White/White
- ❑ LG Light Grey
- ❑ SN Sanshade (Almond)
- ❑ SM Seafoam
- ❑ DG Dolphin Grey

6.) Countertop Color (AQCT) (Must Specify):

- ❑ BN Bone
- ❑ GW Glacier White
- ❑ GG Grey Granite
- ❑ SS Sandstone
- ❑ WG White Granite
- ❑ BG Black Granite
- ❑ NB Nocturnal Blue
- ❑ RC Red Coral
- ❑ SG Sea Green

7.) Countertop Sink Bowl Color:

- ❑ BCM Countertop-matching (Standard)
- ❑ BBN Bone
- ❑ BGW Glacier White

8.) Backsplash Orientation:

- ❑ 1 Back Wall Only (1 Wall)
- ❑ 2 Right Hand Corner (2 Wall)
- ❑ 3 Left Hand Corner (2 Wall)
- ❑ 4 Alcove (3 Wall)

9.) Faucet:

- ❑ WB Gooseneck Spout, Laminar Flow, Wristblade Handles, 4CC
- ❑ SSF Gooseneck Sensor Spout, Center Shank IR Operated, Laminar Flow (12v transformer is required)
- ❑ SSFB Gooseneck Sensor Spout, Center Shank IR (Battery Operated), Laminar Flow

10.) Other Options:

- ❑ BWSEV Bedpan Washer & Elevated Atmospheric Vacuum Breaker
- ❑ BWSEV-VC Bedpan Washer, Elevated Atmospheric Vacuum Breaker & Volume Control
- ❑ BWSCV Bedpan Washer & Continuous Pressure Vacuum Breaker
- ❑ BWSCV-VC Bedpan Washer, Continuous Pressure Vacuum Breaker & Volume Control
- ❑ SDB Integral Cabinet Single Valve Dialysis Box
- ❑ DDB Integral Cabinet Dual Valve Dialysis Box
- ❑ DC Antimicrobial White Exterior Toilet Finish*(Standard)
- ❑ BL Bedpan Lugs

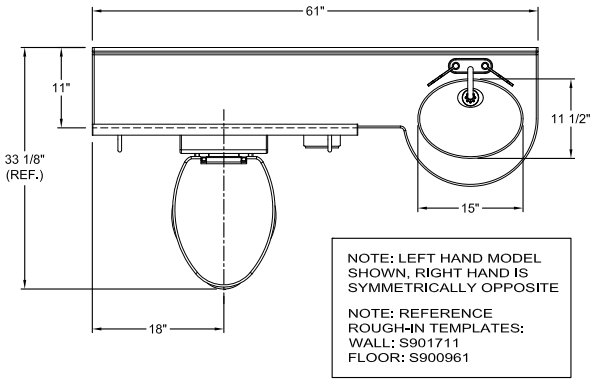
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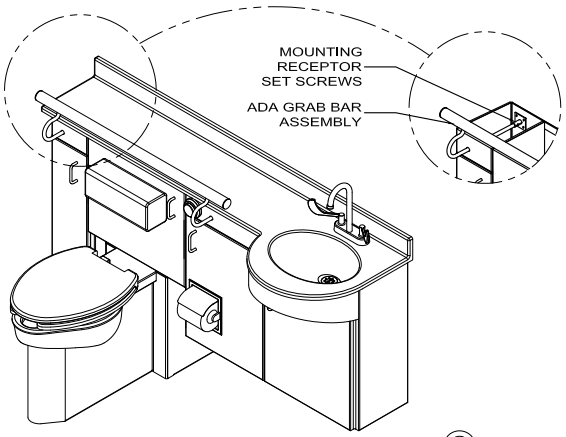
- ❑ TMV Inline Thermostatic Mixing Valve
- ❑ DBDRN Dialysis Box Drain /Trap
- ❑ PTC 'P' Trap w/Clean-out Plug
- ❑ LSS 1/2" x 3/8" Lavatory Supply Stops
- ❑ TF12PI 12v Plug-in Transformer (SSF faucet only)
- ❑ TF12HW 12v Hard-wire Transformer (SSF faucet only)
- ❑ Other _____
- ❑ Other _____

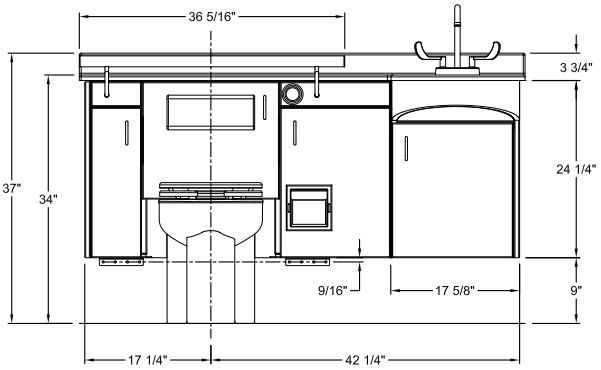
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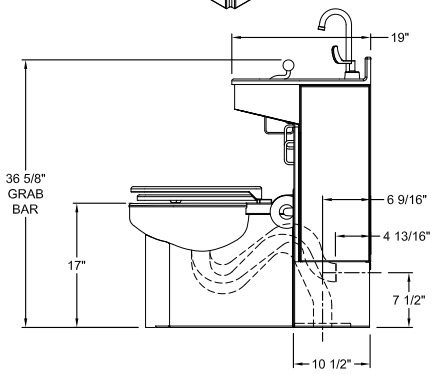
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Wall Thickness: _____ Wall Type:_____









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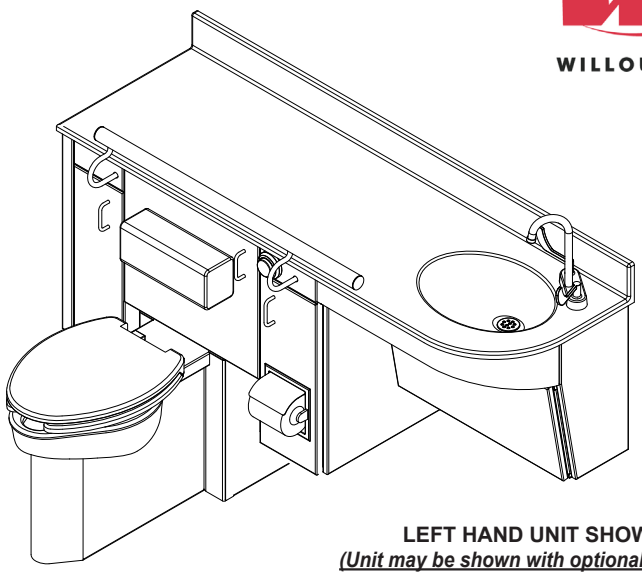
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Willoughby Industries - *Healthcare Products*

WH-2400 Series Handicap-ADA Compliant Patient Care Unit

IN COMPLIANCE WITH A.D.A. 2010

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer



LEFT HAND UNIT SHOWN
(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Patient Care Unit with left hand toilet, wall outlet with light grey cabinet, bone colored countertop, bone colored bowl, wristblade faucet, bedpan washer with elevated vacuum breaker, and antimicrobial white exterior toilet finish*

Use the following Willoughby Model Number:
WH-2400-L-1.6-WO-LG-AQCT-BN-BBN-1-WB-BWSEV-DC

Recommended Specifications

Modular Handicap-ADA Compliant* Patient Care Unit in decorator cabinet shall be: Willoughby Model No. **WH-2400**
(Select from model number and options list on next page)
Unit shall be wall mounted and shall include the following standard equipment and features:

Cabinet:
Modular Type 304 stainless steel welded cabinet shall include:
- Solid polymer exterior cabinet panels and doors (Doors have rounded edges to enhance patient safety)
- Solid surface countertop and integral lavatory bowl
- Toilet tissue holder conveniently located on the cabinet face
- Integral ADA grab bar
- Standard side-mounted bedpan washer concealed behind a separate cabinet door (Elevated atmospheric vacuum breaker included, integral dialysis box is optional.)

Toilet:
Standard siphon jet type toilet shall include:
- Elongated toilet bowl with contoured seat and lid
- Integral crevice-free self-draining flushing rim w/ positive afterfill
- Fully enclosed 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" ball
- Bead blast finish bowl interior; exterior finished in an antimicrobial gloss white powder coat enamel finish**

Toilet shall require 35 psi min. flushing pressure and shall meet the requirements of ASME A112.19.3/CSA B45.4.

Lavatory:
Solid surface lavatory shall include:
- Oval-shaped bowl, 15" x 11-1/2", w/ grid drain
- Rigid gooseneck spout faucet w/ laminar flow nozzle

Optional Features:
- Lavatory waste traps and stops are available options
- Integral solid surface lav. bowl can be ordered in one of two contrasting colors to visually separate bowl from countertop
- Available code variance-specific equipment

Mounting:
Anchoring shall be through the front and through the floor (anchoring hardware provided by others). Unit requires no chase area for installation and maintenance. Standard siphon jet toilet shall have a minimum 17" rim height (less seat) and withstand loading up to 2000 lbs. with no measurable deflection and loading up to 5000 lbs. with no permanent damage.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blow-out jet action. Use sanitary or offset type waste fittings.
Note: For HET 1.28 GPF, unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

*Certified to CSA Standard B45.4-99 and IAPMO PS 61-92, compliant to ADA, ADAAG, ANSI and CA Title 2.

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MODEL NUMBER AND OPTIONS:

1.) Patient Care Unit Model Number:
- ❑ WH-2400-R (Right hand toilet, Left sink)
- ❑ WH-2400-L (Left hand toilet, Right sink)

2.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf) (Standard)
- ❑ 3.5 GPF (13.2 Lpf) (3" waste tube required)

3.) Toilet Fixture (Stainless Steel):
- ❑ WO Floor Mounted Toilet/Wall Outlet
- ❑ FO Floor Mounted Toilet/Floor Outlet

4.) Toilet Waste
- ❑ TWC__ Toilet Waste Coupling, for (WO) only (Must Specify Connection):
  - ❑ 3P Connecting to 3" PVC
  - ❑ 3C Connecting to 3" Cast Iron
  - ❑ 4P Connecting to 4" PVC
  - ❑ 4C Connecting to 4" Cast Iron
- ❑ TWG Toilet Waste Gasket, for (FO) only

5.) Exterior Polymer Panel Color (Must Specify):
- ❑ AW Arctic White
- ❑ WW White/White
- ❑ LG Light Grey
- ❑ SN Sanshade (Almond)
- ❑ SM Seafoam
- ❑ DG Dolphin Grey

6.) Countertop Color (AQCT) (Must Specify):
- ❑ BN Bone
- ❑ GW Glacier White
- ❑ GG Grey Granite
- ❑ SS Sandstone
- ❑ WG White Granite
- ❑ BG Black Granite
- ❑ NB Nocturnal Blue
- ❑ RC Red Coral
- ❑ SG Sea Green

7.) Countertop Sink Bowl Color:
- ❑ BCM Countertop-matching (Standard)
- ❑ BBN Bone
- ❑ BGW Glacier White

8.) Backsplash Orientation:
- ❑ 1 Back Wall Only (1 Wall) (Standard)
- ❑ 2 Right Hand Corner (2 Wall)
- ❑ 3 Left Hand Corner (2 Wall)
- ❑ 4 Alcove (3 Wall)

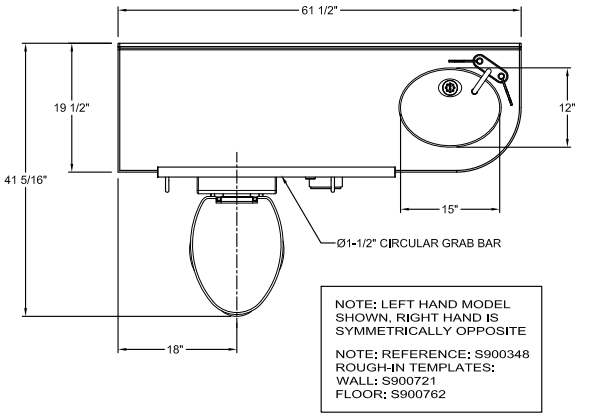
9.) Faucet:
- ❑ WB Gooseneck Spout, Laminar Flow, Wristblade Handles, 4CC
- ❑ SSF Gooseneck Sensor Spout, Center Shank IR Operated, Laminar Flow (12v transformer is required)
- ❑ SSFB Gooseneck Sensor Spout, Center Shank IR (Battery Operated), Laminar Flow

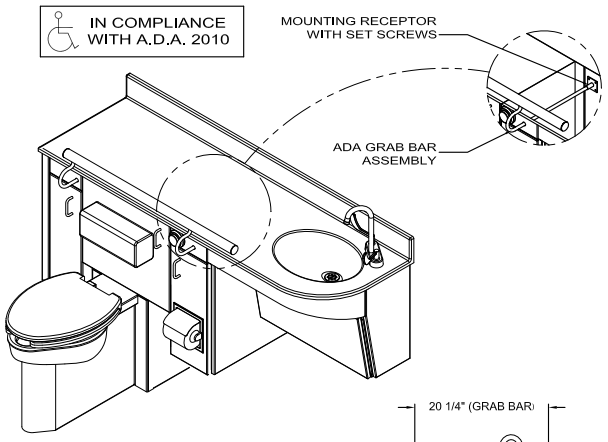
10.) Other Options:
- ❑ BWSEV Bedpan Washer & Elevated Atmospheric Vacuum Breaker
- ❑ BWSEV-VC Bedpan Washer, Elevated Atmospheric Vacuum Breaker & Volume Control
- ❑ BWSCV Bedpan Washer & Continuous Pressure Vacuum Breaker
- ❑ BWSCV-VC Bedpan Washer, Continuous Pressure Vacuum Breaker & Volume Control
- ❑ SDB Integral Cabinet Single Valve Dialysis Box
- ❑ DDB Integral Cabinet Dual Valve Dialysis Box
- ❑ DC Antimicrobial White Exterior Toilet Finish*(Standard)
- ❑ BL Bedpan Lugs

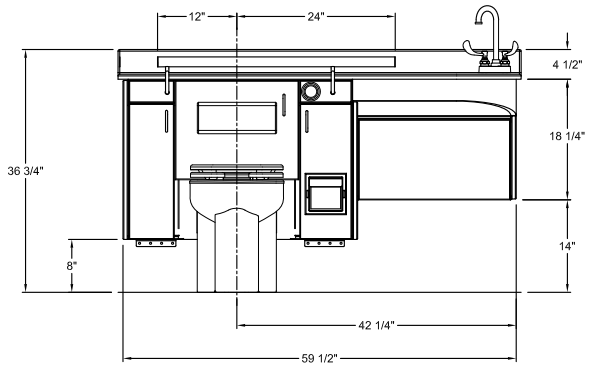
11.) Code Variances:
- ❑ TMV Inline Thermostatic Mixing Valve
- ❑ DBDRN Dialysis Box Drain /Trap
- ❑ PTC 'P' Trap w/Clean-out Plug
- ❑ LSS 1/2" x 3/8" Lavatory Supply Stops
- ❑ TF12PI 12v Plug-in Transformer (SSF faucet only)
- ❑ TF12HW 12v Hard-wire Transformer (SSF faucet only)
- ❑ Other _____
- ❑ Other _____

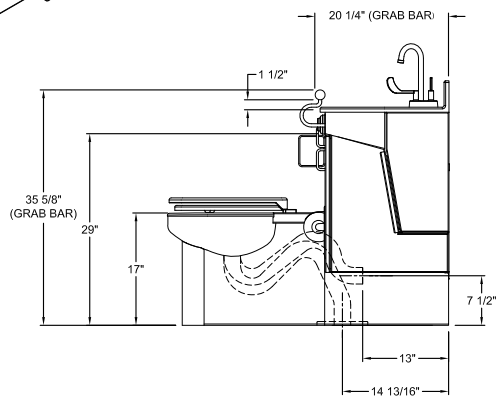
****Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.**

Approved For Manufacturing By:_____ Date:_____ Company:_____
Wall Thickness: _____ Wall Type:_____









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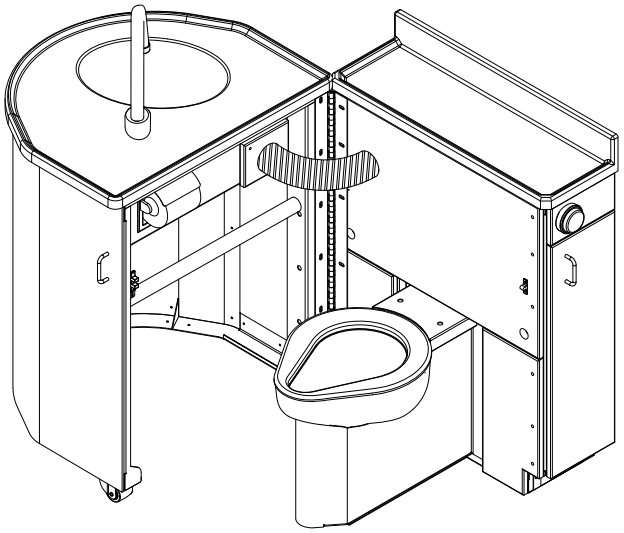
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Willoughby Industries - *Healthcare Products*

WILLOUGHBY

WH-2600
Patient Care Unit



LEFT HAND UNIT SHOWN
(Unit may be shown with optional features)

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Patient Care Unit with left hinge/left lavatory, wall outlet with light grey cabinet, bone colored countertop, bone colored bowl, wristblade faucet, and antimicrobial white exterior toilet finish*

Use the following Willoughby Model Number:
WH-2600-L-1.6-WO-LG-AQCT-BN-BBN-WB-DC

Recommended Specifications

Modular Patient Care Unit with decorator cabinet shall be:
Willoughby Model No. **WH-2600**
(Select from model number and options list on next page)
Unit shall be free standing and shall include the following standard equipment and features:

Cabinet:
Modular Type 304 stainless steel welded cabinet shall include:
- Solid polymer exterior cabinet panels and doors (Doors have rounded edges to enhance patient safety)
- Solid surface countertop and integral lavatory bowl
- Toilet tissue holder conveniently located within the cabinet (Integral bedpan washer and dialysis box are available options.)

Toilet:
Standard siphon jet type toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim w/ positive afterfill
- Fully enclosed 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" ball
- Bead blast finish bowl interior; exterior finished in an antimicrobial gloss white powder coat enamel finish*

Toilet shall require 35 psi min. flushing pressure and shall meet the requirements of ASME A112.19.3/CSA B45.4.

Lavatory:
Solid surface lavatory shall include:
- Oval-shaped bowl, 15" x 11-1/2", w/ grid drain
- Rigid gooseneck spout faucet w/ laminar flow nozzle

Optional Features:
- Lavatory waste traps and stops are available options
- Integral solid surface lav. bowl can be ordered in one of two contrasting colors to visually separate bowl from countertop
- Available code variance-specific equipment

Mounting:
Anchoring shall be through the front and through the floor (anchoring hardware provided by others). Unit requires no chase area for installation and maintenance. Standard siphon jet toilet shall have a minimum 17" rim height (less seat) and withstand loading up to 2000 lbs. with no measurable deflection and loading up to 5000 lbs. with no permanent damage.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: For HET 1.28 GPF, unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

*Antimicrobial properties are built-in to inhibit the growth of bacteria that may aff ect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.

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MODEL NUMBER AND OPTIONS:

1.) Patient Care Unit Model Number:
- ❑ WH-2600-R (Center toilet, Right hinge/sink)
- ❑ WH-2600-L (Center toilet, Left hinge/sink)

2.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf) (Standard)
- ❑ 3.5 GPF (13.2 Lpf) (3" waste tube required)

3.) Toilet Fixture (Stainless Steel):
- ❑ WO Floor Mounted Toilet/Wall Outlet
- ❑ FO Floor Mounted Toilet/Floor Outlet

4.) Toilet Waste
- ❑ TWC__ Toilet Waste Coupling, for (SWO) only (Must Specify Connection):
  - ❑ 3P Connecting to 3" PVC
  - ❑ 3C Connecting to 3" Cast Iron
  - ❑ 4P Connecting to 4" PVC
  - ❑ 4C Connecting to 4" Cast Iron
- ❑ TWG Toilet Waste Gasket, for (SFO) only

5.) Exterior Polymer Panel Color (Must Specify):
- ❑ AW Arctic White
- ❑ WW White/White
- ❑ LG Light Grey
- ❑ SN Sanshade (Almond)
- ❑ SM Seafoam
- ❑ DG Dolphin Grey

6.) Countertop Color (AQCT) (Must Specify):
- ❑ BN Bone
- ❑ GW Glacier White
- ❑ GG Grey Granite
- ❑ SS Sandstone
- ❑ WG White Granite
- ❑ BG Black Granite
- ❑ NB Nocturnal Blue
- ❑ RC Red Coral
- ❑ SG Sea Green

7.) Countertop Sink Bowl Color:
- ❑ BCM Countertop-matching (Standard)
- ❑ BBN Bone
- ❑ BGW Glacier White

8.) Backsplash Orientation:
- ❑ 1 Back Wall Only (1 Wall) (Standard)
- ❑ 2 Right Hand Corner (2 Wall)
- ❑ 3 Left Hand Corner (2 Wall)
- ❑ 4 Alcove (3 Wall)

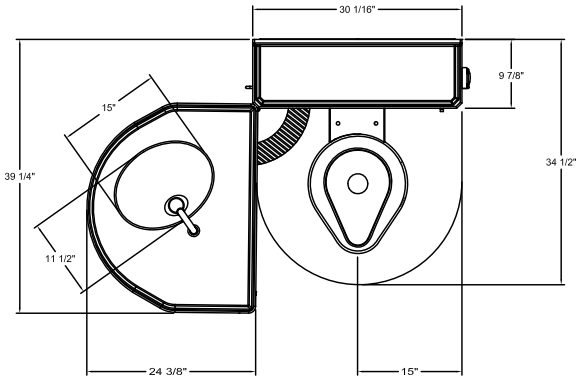
9.) Faucet:
- ❑ WB Gooseneck Spout, Laminar Flow, Wristblade Handles, 4CC
- ❑ FPF Gooseneck Spout, Laminar Flow, Foot Pedal Valve
- ❑ SSF Gooseneck Sensor Spout, Center Shank IR Operated, Laminar Flow (12v transformer is required)
- ❑ SSFB Gooseneck Sensor Spout, Center Shank IR (Battery Operated), Laminar Flow

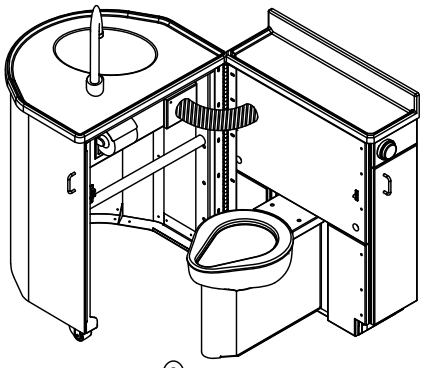
10.) Other Options:
- ❑ BWSEV Bedpan Washer & Elevated Atmospheric Vacuum Breaker
- ❑ BWSEV-VC Bedpan Washer, Elevated Atmospheric Vacuum Breaker & Volume Control
- ❑ BWSCV Bedpan Washer & Continuous Pressure Vacuum Breaker
- ❑ BWSCV-VC Bedpan Washer, Continuous Pressure Vacuum Breaker & Volume Control
- ❑ SDB Integral Cabinet Single Valve Dialysis Box
- ❑ DDB Integral Cabinet Dual Valve Dialysis Box
- ❑ DC Antimicrobial White Exterior Toilet Finish*
- ❑ BL Bedpan Lugs

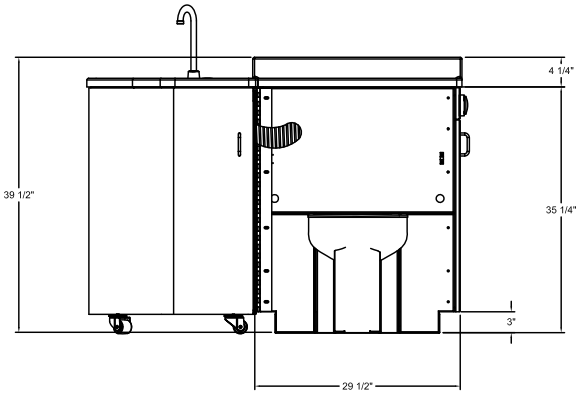
11.) Code Variances:
- ❑ TMV Inline Thermostatic Mixing Valve
- ❑ DBDRN Dialysis Box Drain /Trap
- ❑ PTC 'P' Trap w/Clean-out Plug
- ❑ LSS 1/2" x 3/8" Lavatory Supply Stops
- ❑ TF12PI 12v Plug-in Transformer (SSF faucet only)
- ❑ TF12HW 12v Hard-wire Transformer (SSF faucet only)
- ❑ Other _____
- ❑ Other _____

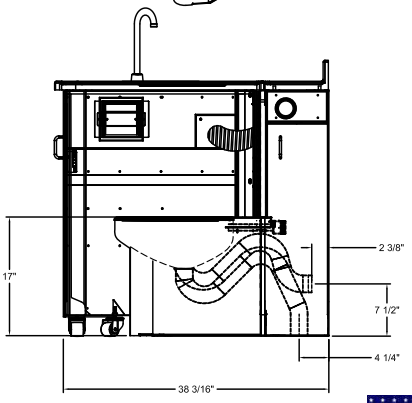
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Approved For Manufacturing By:_____ Date:_____ Company:_____
Wall Thickness: _____ Wall Type:_____









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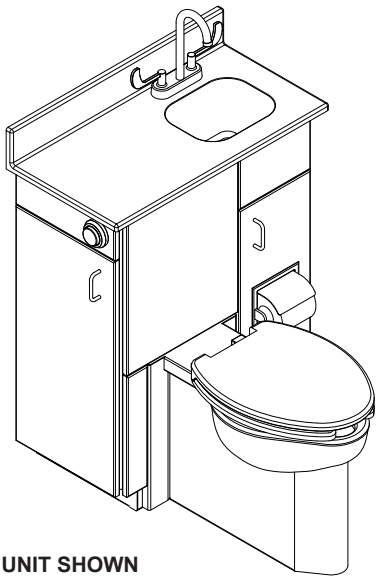
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Willoughby Industries - *Healthcare Products*

WH-2800
Patient Care Unit



LEFT HAND UNIT SHOWN
(Unit may be shown with optional features)

WaterSense certified only for use with a certified high-efficiency flushometer

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Patient Care Unit with left hand toilet, light grey cabinet, bone colored countertop, bone colored bowl, wristblade facucet, and antimicrobial white exterior toilet finish*

Use the following Willoughby Model Number:
WH-2800-L-1.6-TS-WO-LG-AQCT-BN-BBN-1-WB-DC

Recommended Specifications

Modular Patient Care Unit in decorator cabinet shall be:
Willoughby Model No. **WH-2800**
(Select from model number and options list on next page)
Unit shall be free standing and shall include the following standard equipment and features:

Cabinet:
Modular Type 304 stainless steel welded cabinet shall include:
- Solid polymer exterior cabinet panels and doors (Doors have rounded edges to enhance patient safety)
- Solid surface countertop and integral lavatory bowl
- Toilet tissue holder conveniently located on the cabinet face (Integral bedpan washer and dialysis box are available options.)

Toilet:
Standard siphon jet type toilet shall include:
- Elongated toilet bowl with contoured seat and lid
- Integral crevice-free self-draining flushing rim w/ positive afterfill
- Fully enclosed 2-1/2” O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8” ball
- Bead blast finish bowl interior; exterior finished in an antimicrobial gloss white powder coat enamel finish*

Toilet shall require 35 psi min. flushing pressure and shall meet the requirements of ASME A112.19.3/CSA B45.4.

Lavatory:
Solid surface lavatory shall include:
- Rectangular bowl, 9-3/4" x 7-3/4" x 6" deep, w/ grid drain
- Rigid gooseneck spout faucet w/ laminar flow nozzle

Optional Features:
- Lavatory waste traps and stops are available options
- Integral solid surface lav. bowl can be ordered in one of two contrasting colors to visually separate bowl from countertop
- Available code variance-specific equipment

Mounting:
Anchoring shall be through the front and through the floor (anchoring hardware provided by others). Unit requires no chase area for installation and maintenance. Standard siphon jet toilet shall have a minimum 17" rim height (less seat) and withstand loading up to 2000 lbs. with no measurable deflection and loading up to 5000 lbs. with no permanent damage.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: For HET 1.28 GPF, unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Patient Care Unit Model Number:
- ❑ WH-2800-R (Right hand toilet, Left sink)
- ❑ WH-2800-L (Left hand toilet, Right sink)

2.) Flush Valve GPF (Must Specify):
- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf) (Standard)
- ❑ 3.5 GPF (13.2 Lpf) (3" waste tube required)

3.) Toilet Fixture (Stainless Steel):
- ❑ WO Floor Mounted Toilet/Wall Outlet
- ❑ FO Floor Mounted Toilet/Floor Outlet

4.) Toilet Waste
- ❑ TWC__ Toilet Waste Coupling, for (WO) only (Must Specify Connection):
  - ❑ 3P Connecting to 3" PVC
  - ❑ 3C Connecting to 3" Cast Iron
  - ❑ 4P Connecting to 4" PVC
  - ❑ 4C Connecting to 4" Cast Iron
- ❑ TWG Toilet Waste Gasket, for (FO) only

5.) Exterior Polymer Panel Color (Must Specify):
- ❑ AW Arctic White
- ❑ WW White/White
- ❑ LG Light Grey
- ❑ SN Sanshade (Almond)
- ❑ SM Seafoam
- ❑ DG Dolphin Grey

6.) Countertop Color (AQCT) (Must Specify):
- ❑ BN Bone
- ❑ GW Glacier White
- ❑ GG Grey Granite
- ❑ SS Sandstone
- ❑ WG White Granite
- ❑ BG Black Granite
- ❑ NB Nocturnal Blue
- ❑ RC Red Coral
- ❑ SG Sea Green

7.) Countertop Sink Bowl Color:
- ❑ BCM Countertop-matching (Standard)
- ❑ BBN Bone
- ❑ BGW Glacier White

8.) Backsplash Orientation:
- ❑ 1 Back Wall Only (1 Wall) (Standard)
- ❑ 2 Right Hand Corner (2 Wall)
- ❑ 3 Left Hand Corner (2 Wall)
- ❑ 4 Alcove (3 Wall)

9.) Faucet:
- ❑ WB Gooseneck Spout, Laminar Flow, Wristblade Handles, 4CC
- ❑ FPF Gooseneck Spout, Laminar Flow, Foot Pedal Valve
- ❑ SSF Gooseneck Sensor Spout, Center Shank IR Operated, Laminar Flow (12v transformer is required)
- ❑ SSFB Gooseneck Sensor Spout, Center Shank IR (Battery Operated), Laminar Flow

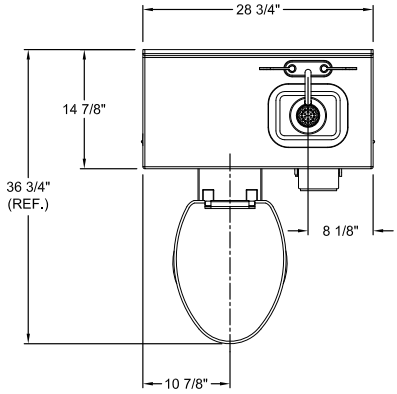
10.) Other Options:
- ❑ BWSEV Bedpan Washer & Elevated Atmospheric Vacuum Breaker
- ❑ BWSEV-VC Bedpan Washer, Elevated Atmospheric Vacuum Breaker & Volume Control
- ❑ BWSCV Bedpan Washer & Continuous Pressure Vacuum Breaker
- ❑ BWSCV-VC Bedpan Washer, Continuous Pressure Vacuum Breaker & Volume Control
- ❑ SDB Integral Cabinet Single Valve Dialysis Box
- ❑ DDB Integral Cabinet Dual Valve Dialysis Box
- ❑ DC Antimicrobial White Exterior Toilet Finish*(Standard)
- ❑ BL Bedpan Lugs
- ❑ RCC Roll Away Closet Cover (Exam Seat)

11.) Code Variances:
- ❑ TMV Inline Thermostatic Mixing Valve
- ❑ DBDRN Dialysis Box Drain /Trap
- ❑ PTC 'P' Trap w/Clean-out Plug
- ❑ LSS 1/2" x 3/8" Lavatory Supply Stops
- ❑ TF12PI 12v Plug-in Transformer (SSF faucet only)
- ❑ TF12HW 12v Hard-wire Transformer (SSF faucet only)
- ❑ Other _____
- ❑ Other _____

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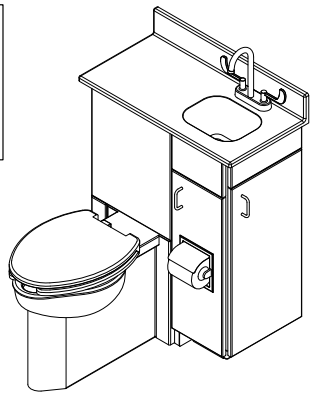
Approved For Manufacturing By:_____ Date:_____ Company:_____

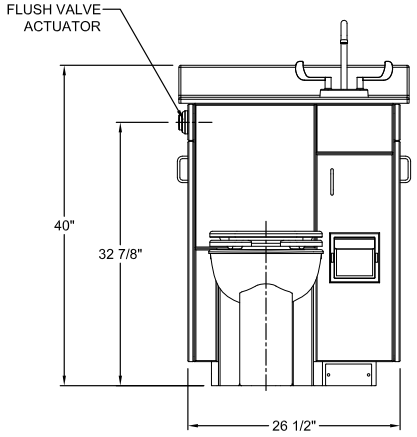
Wall Thickness: _____ Wall Type:_____

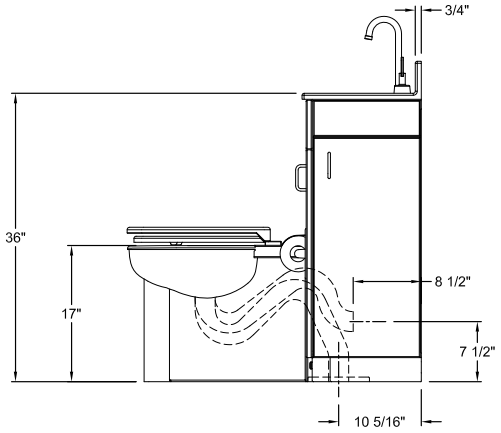


NOTE: LEFT HAND MODEL SHOWN, RIGHT HAND IS SYMMETRICALLY OPPOSITE

NOTE: REFERENCE: S900722 ROUGH-IN TEMPLATES: WALL: S900516 FLOOR: S900517







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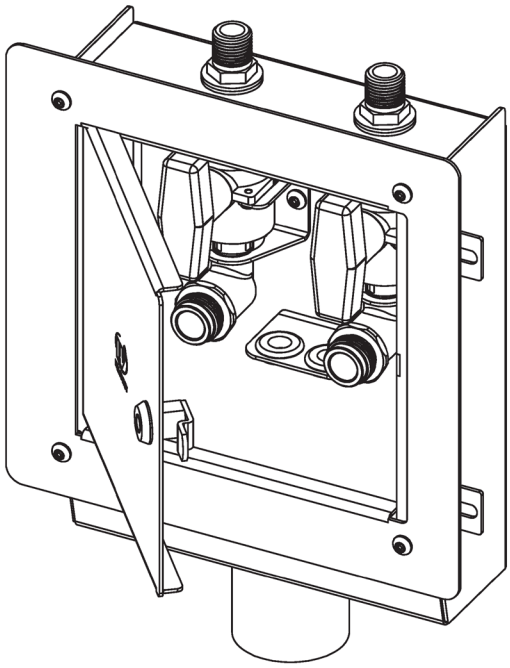
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Willoughby Industries - *Heathcare Products*

WILLOUGHBY

DB Series
Dialysis Supply and Waste Box



Recommended Specifications

Dialysis Supply and Waste Box shall be: Willoughby Model No. **DB-_____**
(Select from model number and options list on next page)

The Dialysis Box shall be fabricated from Type 316 stainless steel with continuous-welded seams. Wall flange and door shall be Type 316 stainless steel. Ball valves and fittings shall be NSF-61 PVC (polyvinyl chloride) and nylon for corrosion resistance with seals in the ball valve. Fittings shall be provided to enable flushing of the supply line.

Technical Data

Dialysis Supply:
Standard supply valves and fittings are PVC (polyvinyl chloride) and nylon (Stainless steel valves and fittings are an available option). The ball-type valves included with the box will have O-ring seals and shall be securely anchored to the box. The valves are furnished with flushing fittings for connecting to the valve outlets when the supply line is flushed into the waste receptor.

Waste Box / Receptor:
All Dialysis Box components that come into contact with waste water are fabricated using Type 316 stainless steel with continuous-welded seams. Both the interior of the box as well as exposed parts of the waste receptor will have a standard satin finish. The rigid, welded hose bracket can hold up to two discharge hoses. The waste outlet is a 2-3/8" O.D. stainless steel tail-piece and can be connected directly to a nominal 2" glass or plastic drain line with a mechanical coupling.

Wall Flange and Door:
An adjustable wall flange is provided to cover any space between the wall and box and is securely anchored with phillips head screws at each corner. A lockable door with cylinder lock and two keys is an available option. Both the wall flange and door are fabricated from Type 316 stainless steel.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

- ❑ DB-8190 Two-valve Supply Dialysis Box w/ Wall Flange, Less Door
- ❑ DB-8191 One-valve Supply Dialysis Box w/ Wall Flange, Less Door
- ❑ DB-8195 Two-valve Supply Dialysis Box w/ Wall Flange and Locking Door
- ❑ DB-8196 One-valve Supply Dialysis Box w/ Wall Flange and Locking Door

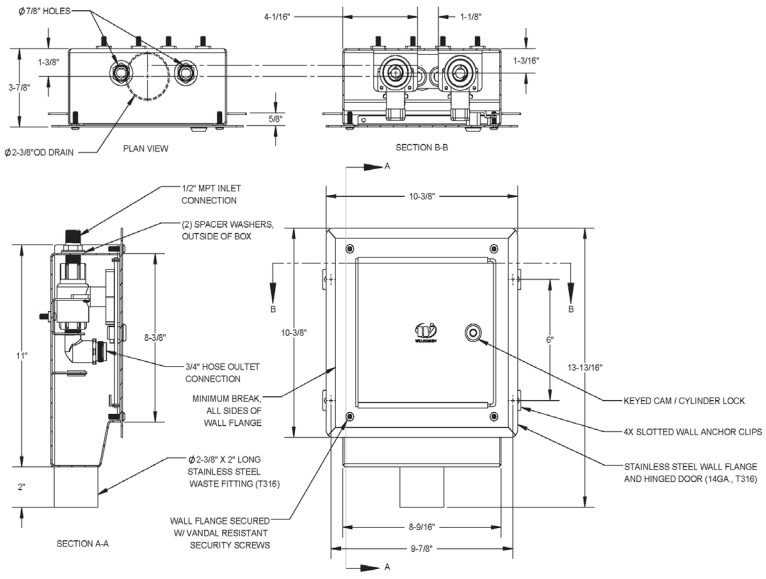
2.) Other Options:

- ❑ SSVF Stainless Steel Ball Valves and Fittings
- ❑ Other _____
- ❑ Other _____

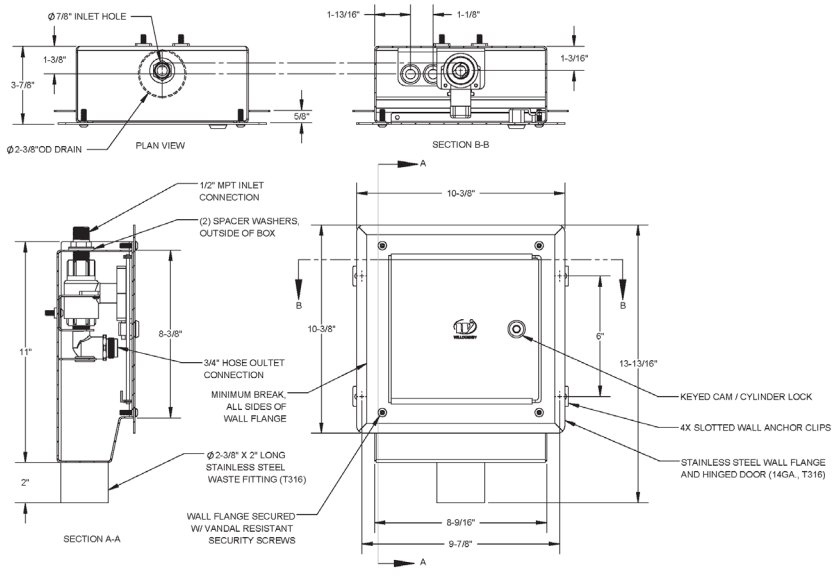
Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

DB-8195



DB-8196



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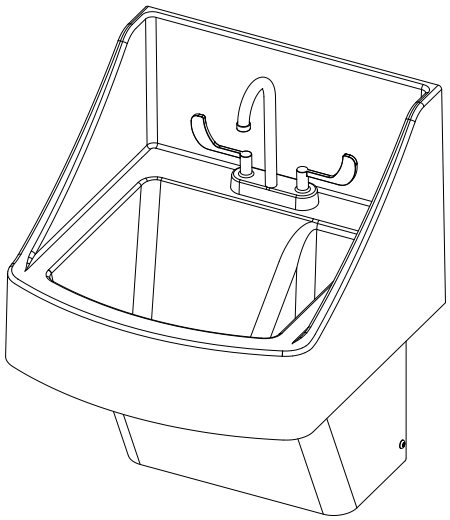
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Willoughby Industries - *Healthcare Products*

WICS-2222
Infection Control
Hand Washing Sink
A.D.A. Compliant



IN COMPLIANCE
WITH A.D.A. 2010

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify an infection control hand washing sink with a stainless steel pedestal, 1.5 gpm non-aerating laminar outlet, 4" CC, rigid 3-1/2" gooseneck, wristblade faucet, in sandstone color

Use the following Willoughby Model Number:
WICS-2222-WB2-SS

Recommended Specifications

Wall-hung Infection Control Hand Washing Sink shall accommodate one user and is designed to minimize spread of infectious disease. ADA compliant solid surface sink shall be: Willoughby Model No. **WICS-2222**

The sink bowl with integral side and rear splash-guards shall be constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate and mineral fillers. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

WICS-2222 sink shall be supplied with:

- Antimicrobial drain and tailpiece* (trap by others, an optional antimicrobial trap (AMT) is available*)
- 1.5 gpm non-aerating laminar outlet, 4" CC, rigid 3-1/2" gooseneck, wristblade faucet** (optional infrared (IR) faucet models and thermostatic mixing valve available)
- Fully welded wall hung pedestals for surface mounting (mounting hardware by others)
- One piece formed stainless steel trap cover w/ stainless steel mounting hardware

Infectious Control Features:

- Deep sink basin w/ sloped edges to minimize splashing
- Integral side and rear splash-guards to limit splash landing outside of bowl
- Offset sink drain to reduce aerosolization of trap contents
- Antimicrobial drain and tail piece to restrict growth and colonization of bacteria* (optional trap available)
- No overflow in sink basin to limit possible area for bacteria growth
- Engineered to meet or exceed requirements of CSA Z8000

ADA, TAS, UFAS, CSA Z8000 and Plumbing Standard Compliant: When the lavatory is mounted at the standard adult rim height, it is designed to provide compliance with all applicable ADA, TAS, UFAS accessibility standards. Fixture complies to CSA Z8000. Fixture is certified to CSA B45, 5-11/IAPMO Z124-2011 harmonized plumbing standard.

Mounting:
The sink may be surface-mounted as supplied or supported by in-wall carriers supplied by others. Proper backing for surface-mounted sinks provided by others.

Optional Features:
Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock.

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MODEL NUMBER AND OPTIONS:

1.) Lavatory Model:

❑ WICS-2222 Infection Control Hand Washing Sink

2.) Faucet:**

❑ WB2 1.5 gpm Laminar Flow, 4CC, Rigid 3-1/2" Gooseneck Wristblade Faucet (Standard)

❑ SSF Gooseneck Sensor Spout, Center Shank IR Operated, Laminar Flow (12v transformer is required)

❑ SSFB Gooseneck Sensor Spout, Center Shank IR (Battery Operated), Laminar Flow

❑ NV No Valve, No Faucet/Spout- Faucet by Others (Select Hole Punching if needed)

3.) Hole Drilling Selection (Faucet by Others):

NOTE: If hole drilling is required, please submit faucet for approval

❑ 4CC 4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)

❑ 8CC 8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)

❑ 1CC Center Shank, (1) Ø1-1/4" Hole

❑ SP Special Punching/Drilling (Specify hole punching dim.)
SP: _____

4.) Lavatory Deck Colors:

❑ BN Bone

❑ GW Glacier White

❑ GG Grey Granite

❑ SS Sandstone

❑ WG White Granite

❑ BG Black Granite

❑ NB Nocturnal Blue

❑ RC Red Coral

❑ SG Sea Green

5.) Options:

❑ TMV Inline Thermostatic Mixing Valve

❑ AMT Antimicrobial Trap*

❑ TF12PI 12v Plug-in Transformer (SSF faucet only)

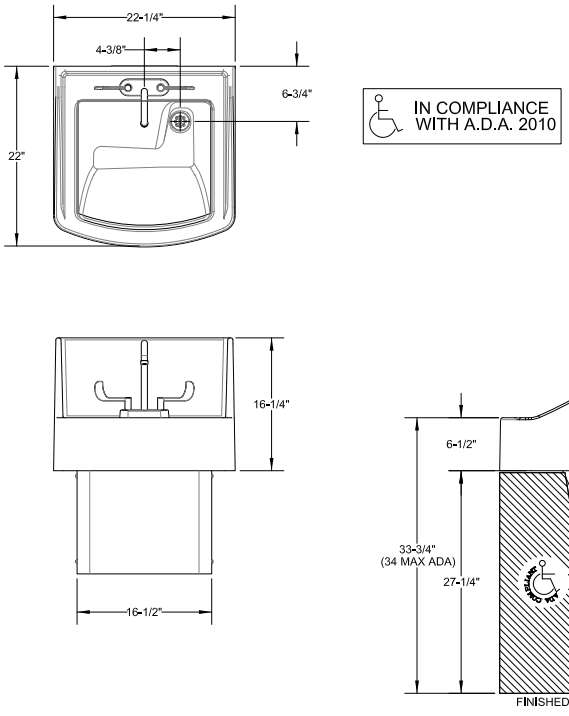
❑ TF12HW 12v Hard-wire Transformer (SSF faucet only)

***Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.**

****NOTICE: Faucet options for the WICS-2222 Infection Control Sink have been selected to specifically minimize splashing and aerosolization when used with the WICS-2222. Willoughby Industries will not be held liable for any unintended splashing resulting from use of a faucet not supplied by Willoughby Industries or without prior approval by Willoughby Industries.**

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____



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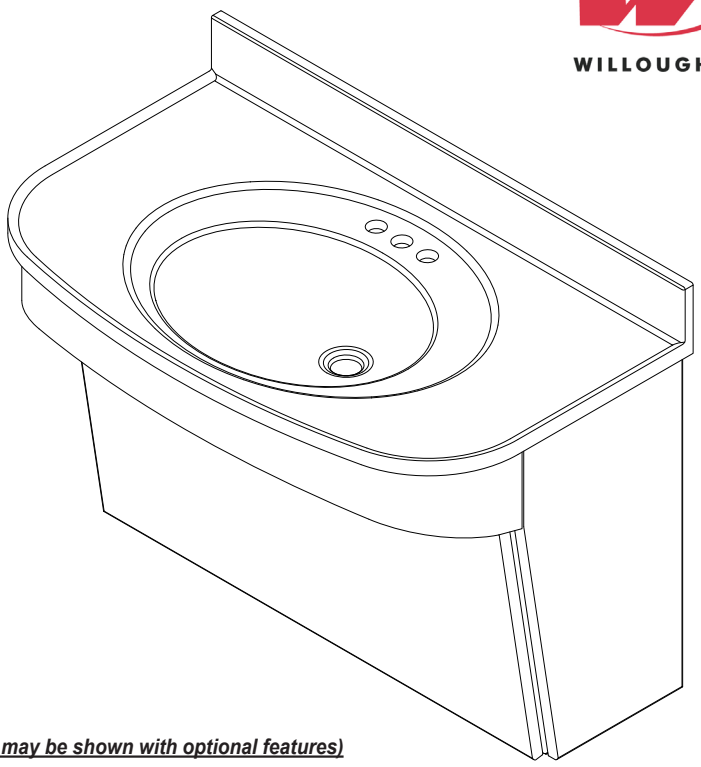
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Willoughby Industries - *Healthcare Products*

WILLOUGHBY

PWS Series
Patient Wash Station



(Unit may be shown with optional features)

IN COMPLIANCE WITH A.D.A. 2010

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Patient Wash Station with an Arctic White cabinet, Grey Granite countertop, and 4CC 10" Gooseneck, Wrist Blade Handle Faucet

Use the following Willoughby Model Number:
PWS37-AW-GG-WB

Recommended Specifications

Patient Wash Station shall be:
Willoughby Model No. **PWS-____**
(select from model number and options list on next page)

ADA compliant wash station shall be wall mounted and manufactured from Type 304 stainless steel and solid polymer panels with Willoughby Aquasurf® Solid Surface cast countertop with integral lavatory bowl.

Standard features include:
- Cabinet exterior finished in solid polymer
- Aquasurf® Solid Surface countertop and lavatory
- Lavatory integral to countertop
- Fully welded stainless steel frame

Cabinet
Cabinet framework is formed and welded Type 304 stainless steel with interior satin finish. Exterior attached fixed panels are solid polymer, which is moisture resistant and non-porous. Front access cabinet shall have a single fixed panel. The edge finishes are smooth and rounded over to enhance safety.

Anchoring of the cabinet shall be with surface mounted 'Z' clips and screw anchors through cabinet into vertical wall supports (by others).

Lavatory
Aquasurf® Solid Surface lavatory is a cast component manufactured of alumina-trihydrate and resin. The lavatory unit is comprised of a cast deck with an integral bowl.

Aquasurf® Solid Surface 22" deep countertop deck with an integral 12-1/2" x 17-1/2" lavatory sink including depressed soap ledge. Cast lavatory deck shall have an integral coved backsplash and round-over finished edge.

Deck mounted faucets are available optionally (select from model number and options list on next page).

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MODEL NUMBER AND OPTIONS:

1.) Wash Station Model Number:

❑ PWS37 Patient Wash Station, 37" Cabinet

2.) Cabinet (Exterior Polymer-Indicate Color):

❑ AW Arctic White
❑ WW White/White
❑ LG Light Grey
❑ SN Sanshade (Almond)
❑ SM Seafoam
❑ DG Dolphin Grey

3.) Solid Surface Colors:

❑ BN Bone
❑ GW Glacier White
❑ GG Grey Granite
❑ SS Sandstone
❑ WG White Granite
❑ BG Black Granite
❑ NB Nocturnal Blue
❑ RC Red Coral
❑ SG Sea Green

4.) Hole Drilling Selection (Faucet by Others):

❑ NV No Faucet Holes (Standard)
❑ 4CC 4" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
❑ 8CC 8" Centerset, Ø1-1/4" Holes (Specify 2 or 3 holes:___)
❑ 1CC Center Shank, (1) Ø1-1/4" Hole
❑ SP Special Drilling (Specify hole drilling dim.)
SP: _____

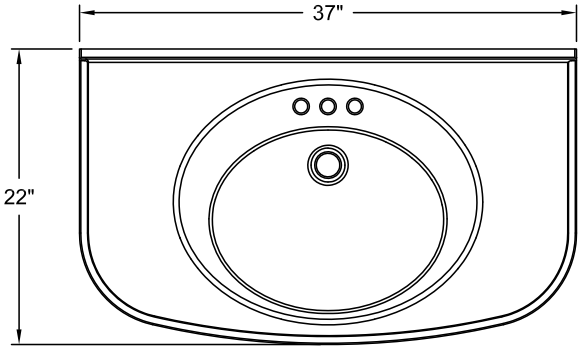
5.) Faucet:

❑ WB 4CC 10" Gooseneck, Wrist Blade Handles
❑ SSF Gooseneck Sensor Spout, Center Shank, Infrared (Hardwired), Laminar Flow (12v transformer is required)
❑ SSFB Gooseneck Sensor Spout, Center Shank, Infrared (Battery Operated), Laminar Flow

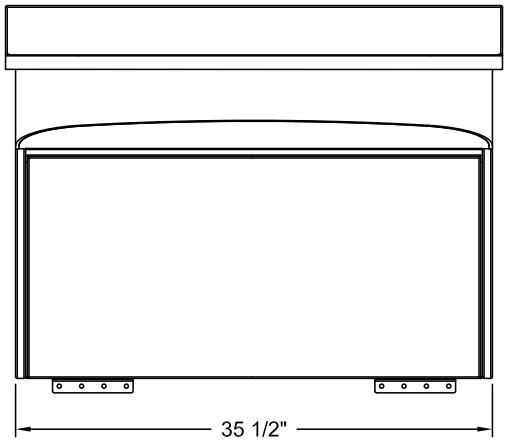
6.) Other Options:

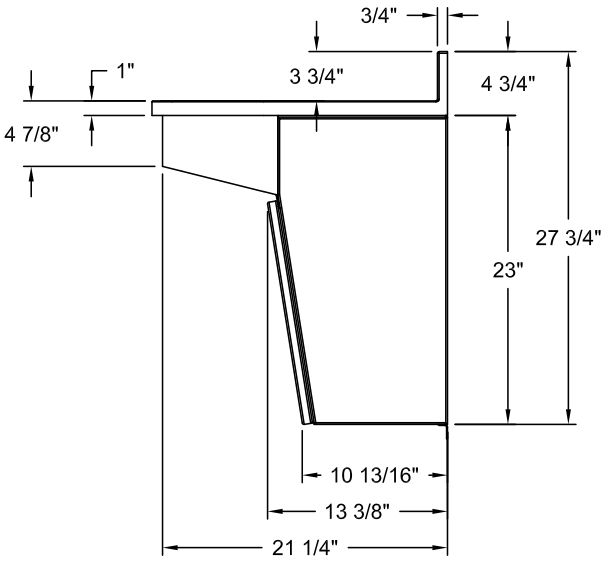
❑ PTC P-Trap w/ Clean-Out Plug
❑ TMV Thermostatic Mixing Valve
❑ LSS 1/2" x 3/8" Lavatory Supply Stops
❑ TF12PI 12v Plug-in Transformer (SSF faucet only)
❑ TF12HW 12v Hard-wire Transformer (SSF faucet only)
❑ Other _____
❑ Other _____

Approved For Manufacturing By:_____ Date:_____Company:_____
Wall Thickness:_____Wall Type:_____



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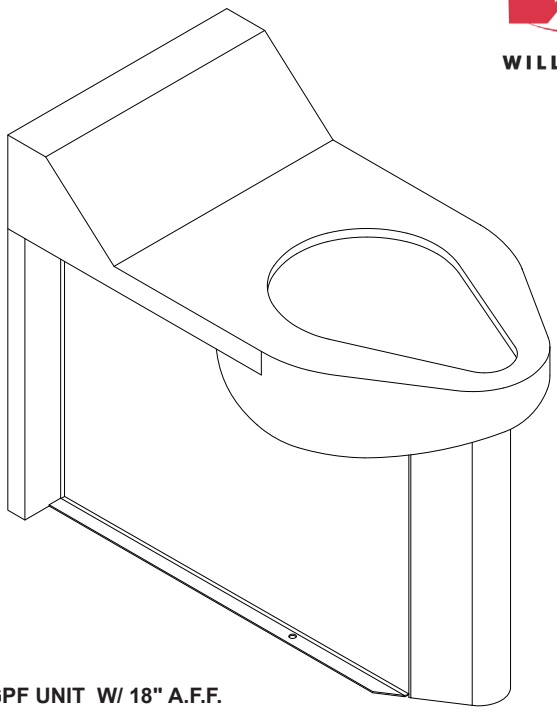
BEHAVIORAL HEALTH PRODUCTS

WILLOUGHBY

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Willoughby Industries - *Behavioral Health Products*

ASETW-1490-FM
Ligature-resistant
Wall Outlet
Floor Mounted
Blowout Series
Water Closet



(1.28 GPF UNIT W/ 18" A.F.F. SEAT HEIGHT SHOWN)**
(Unit may be shown with optional features)

Certified by CSA Group

WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010

** USE "HC" SUFFIX FOR 18" A.F.F.SEAT HEIGHT

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Ligature-resistant, Wall Outlet, Floor Mounted, Blowout Series Toilet with back spud, 18" ADA seat height, 1.28 GPF, toilet waste extension, 3" PVC waste coupling, hydraulic flush valve, flush valve connection, high polish seat, wall sleeve, and toilet shipping cover

Use the following Willoughby Model Number:
ASETW-1490-FM-BS-HC-1.28-TWE-TWC3P-FV-FVT-HPS-WS-TSC

Recommended Specifications

Ligature-resistant, Wall Outlet, Floor Mounted, Blowout Series Toilet shall be: Willoughby Model No. **ASETW-1490-FM**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Standard ligature-resistant toilet skirt shall extend to floor as close to front of toilet bowl as possible, virtually eliminating open space under the fixture.

Anchoring shall be by standard 6-point system:
(4 in the wall and 2 in the floor): threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Floor anchoring hardware by others.

Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

- ❑ ASETW-1490-FM — Ligature-resistant, Wall Outlet, Floor Mounted, Blowout Series Toilet

2.) Inlet Location:

- ❑ BS Back Spud
- ❑ TS Top Spud

3.) Toilet Seat Height:

- ❑ 15" Seat Height (Standard)
- ❑ HC 18" Seat Height, Handicap-ADA Compliant

4.) Flush Valve GPF (Must Specify):

- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

5.) Toilet Waste:

- ❑ TWE Toilet Waste Extension (Standard)
- ❑ TW3 3" Clean-out for (TWE)
- ❑ TW5 4" Clean-out for (TWE)
- ❑ GWC Gasketed Waste Connection
- ❑ PC3 Pinned Clean-out Plug PVC-3”
- ❑ PCB3 Pinned Clean-out Plug Brass-3”
- ❑ PC4 Pinned Clean-out Plug PVC-4”
- ❑ PCB4 Pinned Clean-out Plug Brass-4”
- ❑ COH4 4" Clean-out Hook, 4" PVC Plug
- ❑ COHB4 4" Clean-out Hook, 4" Brass Plug

6.) Waste Coupling for (TWE) Toilet Waste Extension:

- ❑ TWC3P Connecting to 3" PVC
- ❑ TWC3C Connecting to 3" Cast Iron
- ❑ TWC4P Connecting to 4" PVC
- ❑ TWC4C Connecting to 4" Cast Iron

7.) Other Options:

- ❑ T4 Manual Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
- ❑ T4A Auto Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
- ❑ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV), Accessible Chase, & (WUCC-3010) or (WMSII) control
- ❑ FV Hydraulic Flush Valve (Includes Actuator)
- ❑ EFVP Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)*
- ❑ TFE Toilet Flush Extension
- ❑ FVT Flush Valve Connection (Back Spud Only)
- ❑ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)
- ❑ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
- ❑ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ MT Wall Template
- ❑ WS Wall Sleeve (Requires Accessible Chase)
- ❑ TSC Toilet Shipping Cover
- ❑ ASRTH1 Ligature-resistant Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase)
- ❑ ASRTH2 Ligature-resistant Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth)
- ❑ ASRTH3 Ligature-resistant Wall Mounted Recessed Tissue Holder For 4" Stud Wall (Front Mounted, 3-1/2" Depth)
- ❑ Other _____

8.) Electronic Controls* (Must Use Electronic Flush Valve):

- ❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
- ❑ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

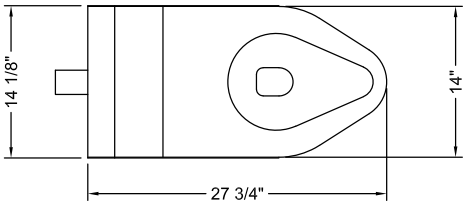
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

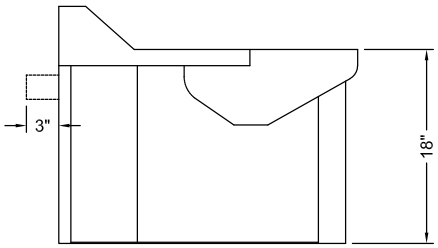
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PLAN VIEW

UNIT SHOWN IS A.D.A. COMPLIANT (HC) MODEL (18" A.F.F. SEAT HEIGHT); SEE A.D.A. NOTE FROM FRONT PAGE



SIDE VIEW

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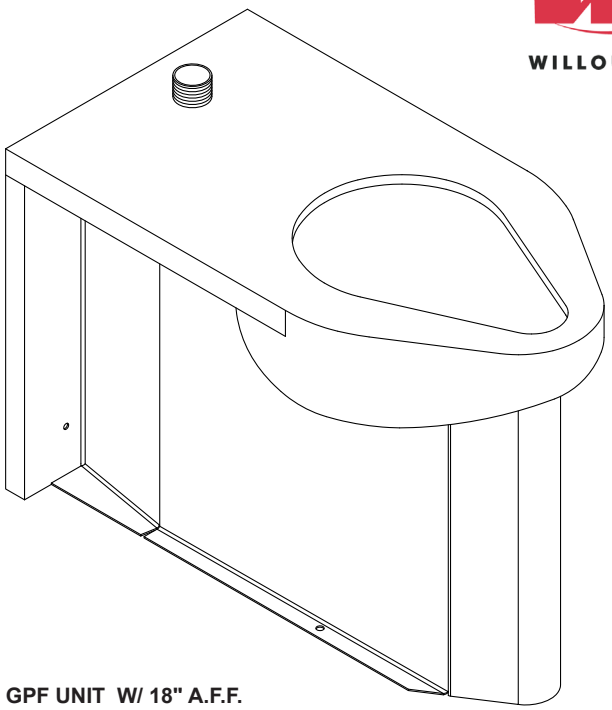
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Willoughby Industries - *Behavioral Health Products*

ASETW-1490-FM-FA
Front Access
Ligature-resistant
Wall Outlet
Floor Mounted
Blowout Series
Water Closet



(1.6 GPF UNIT W/ 18" A.F.F. SEAT HEIGHT SHOWN)**
(Unit may be shown with optional features)

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010

** USE "HC" SUFFIX FOR 18" A.F.F.SEAT HEIGHT

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Front Access, Ligature-resistant, Wall Outlet, Floor Mounted Blowout Series Toilet with top spud, 18" ADA seat height, 1.6 GPF, gasketed waste connection, hydraulic flush valve, ligature-resistant ADA compliant flush valve cover, high polish seat, and toilet shipping cover

Use the following Willoughby Model Number:
ASETW-1490-FM-FA-TS-HC-1.6-GWC-FV-ASFVC-ADA-HPS-TSC

Recommended Specifications

Front Access, Ligature-resistant, Wall Outlet, Floor Mounted Blowout Series Toilet shall be:
Willoughby Model No. **ASETW-1490-FM-FA**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be blowout type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/ CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Standard ligature-resistant toilet skirt shall extend to floor as close to front of toilet bowl as possible, virtually eliminating open space under the fixture.

Anchoring shall be through the front and through the floor (anchoring hardware provided by others).

Unit requires no chase area for installation and maintenance unless specified with any Toilet Waste Extension options or Toilet Overflow Preventer options.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

- ❑ ASETW-1490-FM-FA — Front Access, Ligature-resistant, Wall Outlet, Floor Mounted Blowout Series Toilet

2.) Inlet Location:

- ❑ BS Back Spud
- ❑ TS Top Spud

3.) Toilet Seat Height:

- ❑ 15" Seat Height (Standard)
- ❑ HC 18" Seat Height, Handicap-ADA Compliant

4.) Flush Valve GPF (Must Specify):

- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

5.) Toilet Waste:

- ❑ GWC Gasketed Waste Connection (Standard)
- ❑ PC3 Pinned Clean-out Plug PVC-3”
- ❑ PCB3 Pinned Clean-out Plug Brass-3”
- ❑ PC4 Pinned Clean-out Plug PVC-4”
- ❑ PCB4 Pinned Clean-out Plug Brass-4”

6.) Other Options:

- ❑ T4 Manual Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
- ❑ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV), Accessible Chase, & (WUCC-3010) or (WMSII) control
- ❑ FV Hydraulic Flush Valve (Includes Actuator)
- ❑ EFVP Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)*
- ❑ FVT Flush Valve Connection (Back Spud Only)
- ❑ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)
- ❑ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)

[CONTINUED IN NEXT COLUMN:]

[Other Options CONTINUED:]

- ❑ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ MT Wall Template
- ❑ TSC Toilet Shipping Cover
- ❑ ASRTH1 Ligature-resistant Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase)
- ❑ ASRTH2 Ligature-resistant Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth)
- ❑ ASRTH3 Ligature-resistant Wall Mounted Recessed Tissue Holder For 4" Stud Wall (Front Mounted, 3-1/2" Depth)
- ❑ RFVB Remote Flush Valve with Box
- ❑ REFVB Remote Electronic Flush Valve with Box*
- ❑ Other _____

7.) Electronic Controls* (Must Use Electronic Flush Valve):

- ❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
- ❑ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

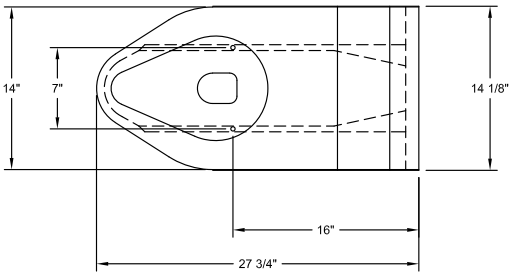
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____

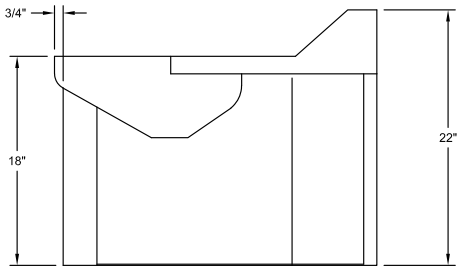
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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PLAN VIEW



SIDE VIEW

UNIT SHOWN IS ADA COMPLIANT (HC) MODEL (18" AFF RIM HEIGHT). SEE ADA NOTE ON FRONT PAGE.

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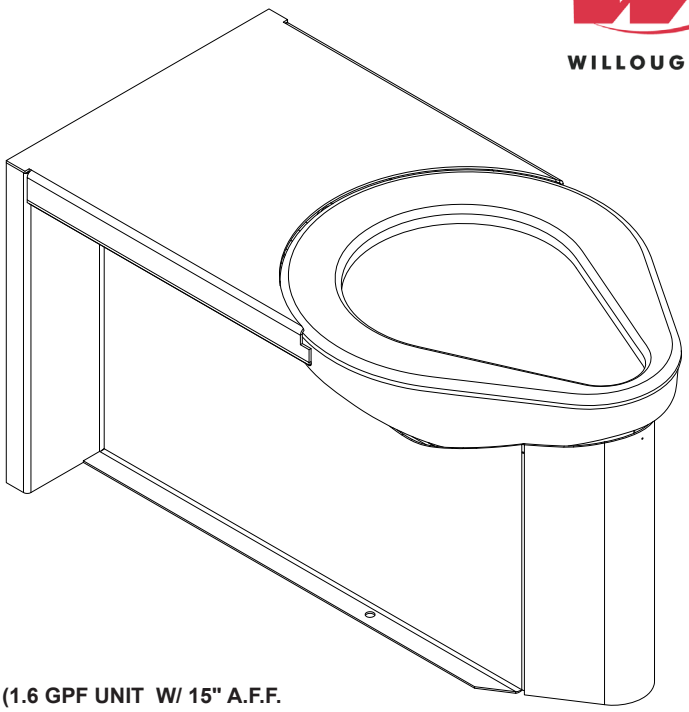
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WILLOUGHBY

ASETWS-1490-FM
Ligature-resistant
Wall Outlet
Floor Mounted
Siphon Jet Series
Water Closet



(1.6 GPF UNIT W/ 15" A.F.F. SEAT HEIGHT SHOWN)**
(Unit may be shown with optional features)

WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010

** USE "HC" SUFFIX FOR 18" A.F.F.SEAT HEIGHT

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Ligature-resistant, Wall Outlet, Floor Mounted Siphon Jet Series Toilet with back spud, standard 15" seat height, 1.6 GPF, toilet waste extension, 3" PVC waste coupling, hydraulic flush valve, flush valve connection, high polish seat, wall sleeve, and toilet shipping cover

Use the following Willoughby Model Number:
ASETWS-1490-FM-BS-1.6-TWE-TWC3P-FV-FVT-HPS-WS-TSC

Recommended Specifications

Ligature-resistant, Wall Outlet, Floor Mounted, Siphon Jet Series Toilet shall be: Willoughby Model No. **ASETWS-1490-FM**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be siphon jet type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Standard ligature-resistant toilet skirt shall extend to floor as close to front of toilet bowl as possible, virtually eliminating open space under the fixture.

Anchoring shall be by standard 6-point system:
(4 in the wall and 2 in the floor): threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Floor anchoring hardware by others.

Unit shall require chase area for installation and maintenance.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

- ❑ ASETWS-1490-FM — Ligature-resistant, Wall Outlet, Floor Mounted, Siphon Jet Series Toilet

2.) Inlet Location:

- ❑ BS Back Spud
- ❑ TS Top Spud

3.) Toilet Seat Height:

- ❑ 15" Seat Height (Standard)
- ❑ HC 18" Seat Height, Handicap-ADA Compliant

4.) Flush Valve GPF (Must Specify):

- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

5.) Toilet Waste:

- ❑ TWE Toilet Waste Extension (Standard)
- ❑ TW3 3" Clean-out for (TWE)
- ❑ TW5 4" Clean-out for (TWE)
- ❑ GWC Gasketed Waste Connection
- ❑ PC3 Pinned Clean-out Plug PVC-3”
- ❑ PCB3 Pinned Clean-out Plug Brass-3”
- ❑ PC4 Pinned Clean-out Plug PVC-4”
- ❑ PCB4 Pinned Clean-out Plug Brass-4”
- ❑ COH4 4" Clean-out Hook, 4" PVC Plug
- ❑ COHB4 4" Clean-out Hook, 4" Brass Plug

6.) Waste Coupling for (TWE) Toilet Waste Extension:

- ❑ TWC3P Connecting to 3" PVC
- ❑ TWC3C Connecting to 3" Cast Iron
- ❑ TWC4P Connecting to 4" PVC
- ❑ TWC4C Connecting to 4" Cast Iron

7.) Other Options:

- ❑ T4 Manual Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
- ❑ T4A Auto Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
- ❑ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV), Accessible Chase, & (WUCC-3010) or (WMSII) control
- ❑ FV Hydraulic Flush Valve (Includes Actuator)
- ❑ EFVP Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)*
- ❑ TFE Toilet Flush Extension
- ❑ FVT Flush Valve Connection (Back Spud Only)
- ❑ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)
- ❑ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
- ❑ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ MT Wall Template
- ❑ WS Wall Sleeve (Requires Accessible Chase)
- ❑ TSC Toilet Shipping Cover
- ❑ ASRTH1 Ligature-resistant Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase)
- ❑ ASRTH2 Ligature-resistant Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth)
- ❑ ASRTH3 Ligature-resistant Wall Mounted Recessed Tissue Holder For 4" Stud Wall (Front Mounted, 3-1/2" Depth)
- ❑ Other _____

8.) Electronic Controls* (Must Use Electronic Flush Valve):

- ❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
- ❑ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

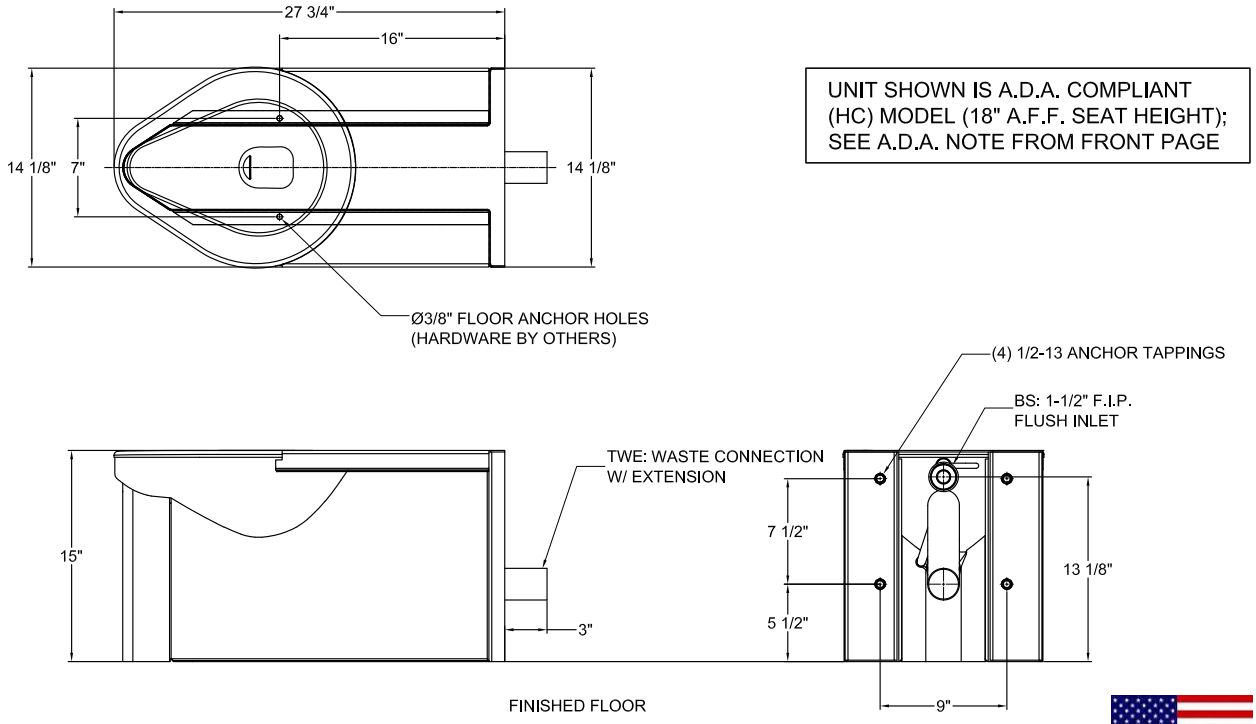
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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UNIT SHOWN IS A.D.A. COMPLIANT (HC) MODEL (18" A.F.F. SEAT HEIGHT); SEE A.D.A. NOTE FROM FRONT PAGE

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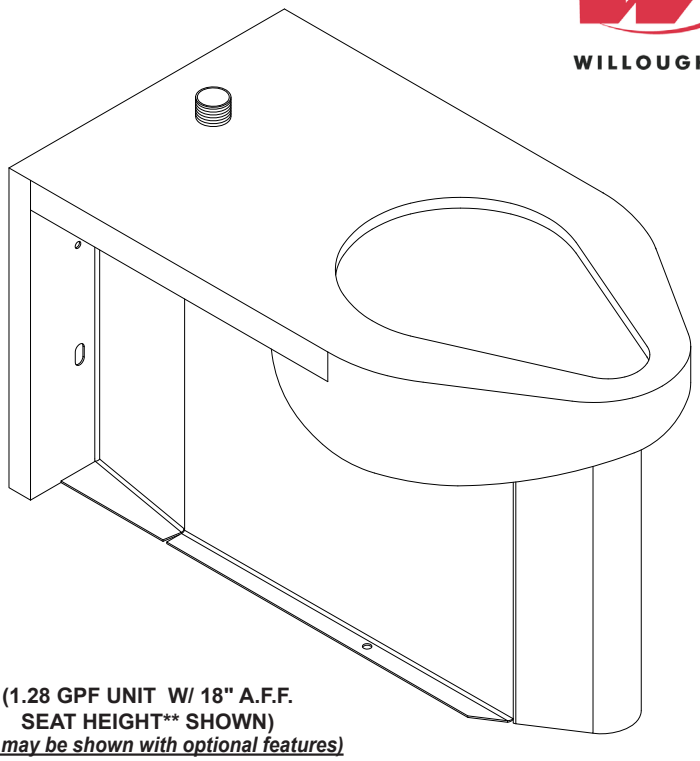
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Willoughby Industries - *Behavioral Health Products*

ASETWS-1490-FM-FA
Front Access
Ligature-resistant
Wall Outlet
Floor Mounted
Siphon Jet Series
Water Closet



(1.28 GPF UNIT W/ 18" A.F.F. SEAT HEIGHT SHOWN)**
(Unit may be shown with optional features)

Certified by CSA Group

WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010

** USE "HC" SUFFIX FOR 18" A.F.F.SEAT HEIGHT

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Front Access, Ligature-resistant, Wall Outlet, Floor Mounted Siphon Jet Series Toilet with top spud, 18" ADA seat height, 1.28 GPF, gasketed waste connection, hydraulic flush valve, ligature-resistant ADA compliant flush valve cover, high polish seat, and toilet shipping cover

Use the following Willoughby Model Number:
ASETWS-1490-FM-FA-TS-HC-1.28-GWC-FV-ASFVC-ADA-HPS-TSC

Recommended Specifications

Front Access, Ligature-resistant, Wall Outlet, Floor Mounted Siphon Jet Series Toilet shall be:
Willoughby Model No. **ASETWS-1490-FM-FA**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be siphon jet type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/ CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Standard ligature-resistant toilet skirt shall extend to floor as close to front of toilet bowl as possible, virtually eliminating open space under the fixture.

Anchoring shall be through the front and through the floor (anchoring hardware provided by others).

Unit requires no chase area for installation and maintenance unless specified with any Toilet Waste Extension options or Toilet Overflow Preventer options.

On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ ASETWS-1490-FM-FA Front Access, Ligature-resistant, Wall Outlet, Floor Mounted Siphon Jet Series Toilet

2.) Inlet Location:

❑ BS Back Spud
❑ TS Top Spud

3.) Toilet Seat Height:

❑ 15" Seat Height (Standard)
❑ HC 18" Seat Height, Handicap-ADA Compliant

4.) Flush Valve GPF (Must Specify):

❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
❑ 1.6 GPF ULF (6.0 Lpf)
❑ 3.5 GPF (13.2 Lpf)

5.) Toilet Waste:

❑ GWC Gasketed Waste Connection (Standard)
❑ PC3 Pinned Clean-out Plug PVC-3"
❑ PCB3 Pinned Clean-out Plug Brass-3"
❑ PC4 Pinned Clean-out Plug PVC-4"
❑ PCB4 Pinned Clean-out Plug Brass-4"

6.) Other Options:

❑ T4 Manual Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
❑ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV), Accessible Chase, & (WUCC-3010) or (WMSII) control
❑ FV Hydraulic Flush Valve (Includes Actuator)
❑ EFVP Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)*
❑ FVT Flush Valve Connection (Back Spud Only)
❑ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)
❑ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)

[CONTINUED IN NEXT COLUMN:]

[Other Options CONTINUED:]

❑ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
❑ DC Decorator Color (Fixture exterior only - White)
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ HPS High Polish Seat
❑ MT Wall Template
❑ TSC Toilet Shipping Cover
❑ ASRTH1 Ligature-resistant Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase)
❑ ASRTH2 Ligature-resistant Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth)
❑ ASRTH3 Ligature-resistant Wall Mounted Recessed Tissue Holder For 4" Stud Wall (Front Mounted, 3-1/2" Depth)
❑ RFVB Remote Flush Valve with Box
❑ REFVB Remote Electronic Flush Valve with Box*
❑ Other _____
❑ Other _____

7.) Electronic Controls* (Must Use Electronic Flush Valve):

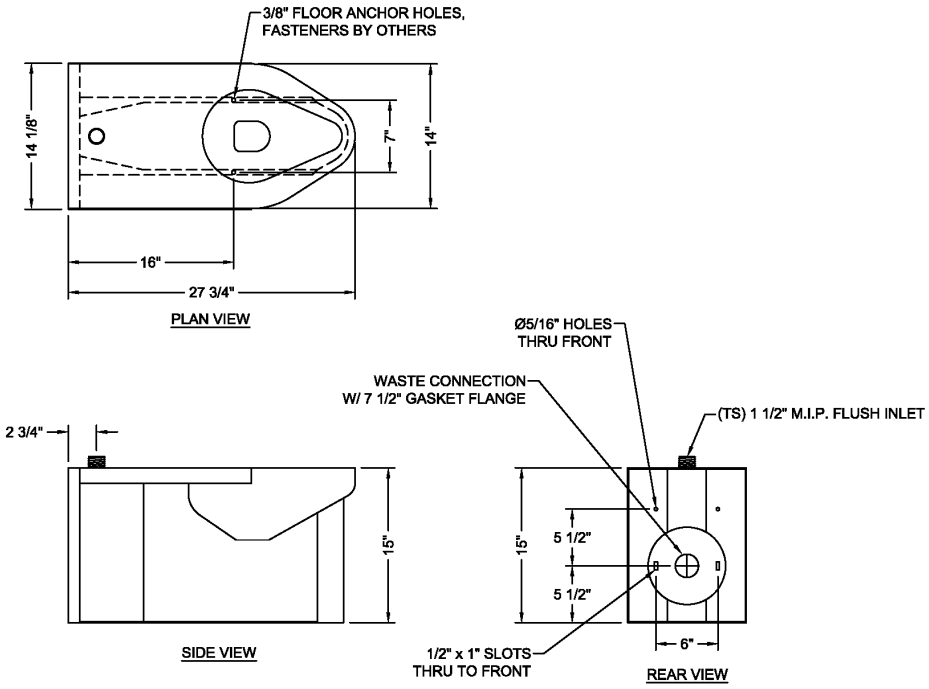
❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
❑ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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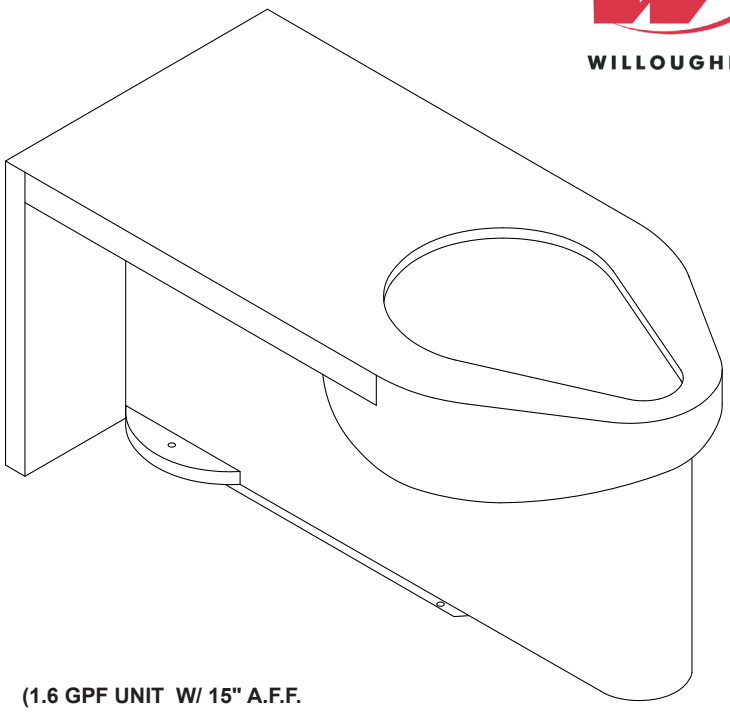
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ASETF-1490-FM
Ligature-resistant
Floor Outlet
Floor Mounted
Siphon Jet Series
Water Closet



(1.6 GPF UNIT W/ 15" A.F.F. SEAT HEIGHT SHOWN)**
(Unit may be shown with optional features)

Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010

** USE "HC" SUFFIX FOR 18" A.F.F.SEAT HEIGHT

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Ligature-resistant, Floor Outlet, Floor Mounted, Siphon Jet Series Toilet with back spud, standard 15" seat height, 1.6 GPF, standard gasketed waste connection, floor outlet waste connection, hydraulic flush valve, flush valve connection, high polish seat, wall sleeve, and toilet shipping cover

Use the following Willoughby Model Number:
ASETF-1490-FM-BS-1.6-GWC-TW4-FV-FVT-HPS-WS-TSC

Recommended Specifications

Ligature-resistant, Floor Outlet, Floor Mounted, Siphon Jet Series Toilet shall be: Willoughby Model No. **ASETF-1490-FM**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be siphon jet type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/ CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Standard ligature-resistant toilet skirt shall extend to floor as close to front of toilet bowl as possible, virtually eliminating open space under the fixture.

Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Floor anchoring hardware by others.

Unit shall require chase area for installation and maintenance.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

- ❑ ASETF-1490-FM — Ligature-resistant, Floor Outlet, Floor Mounted, Siphon Jet Series Toilet

2.) Inlet Location:

- ❑ BS Back Spud
- ❑ TS Top Spud

3.) Toilet Seat Height:

- ❑ 15" Seat Height (Standard)
- ❑ HC 18" Seat Height, Handicap-ADA Compliant

4.) Flush Valve GPF (Must Specify):

- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

5.) Toilet Waste:

- ❑ GWC Gasketed Waste Connection (Standard)
- ❑ TW4 Floor Outlet Waste Connection

6.) Other Options:

- ❑ T4 Manual Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
- ❑ T4A Auto Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
- ❑ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV), Accessible Chase, & (WUCC-3010) or (WMSII) control
- ❑ FV Hydraulic Flush Valve (Includes Actuator)
- ❑ EFVP Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)*
- ❑ FVT Flush Valve Connection (Back Spud Only)
- ❑ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)
- ❑ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
- ❑ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)

[CONTINUED IN NEXT COLUMN:]

[Other Options CONTINUED:]

- ❑ HS Hinged White Plastic Seat (No Cover, not recommended for Maximum Security/Ligature-resistant use)
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ MT Wall Template
- ❑ TSC Toilet Shipping Cover
- ❑ RTH1 Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase)
- ❑ RTH2 Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth)
- ❑ RFVB Remote Flush Valve with Box
- ❑ REFVB Remote Electronic Flush Valve with Box*
- ❑ Other _____
- ❑ Other _____

8.) Electronic Controls* (Must Use Electronic Flush Valve):

- ❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
- ❑ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

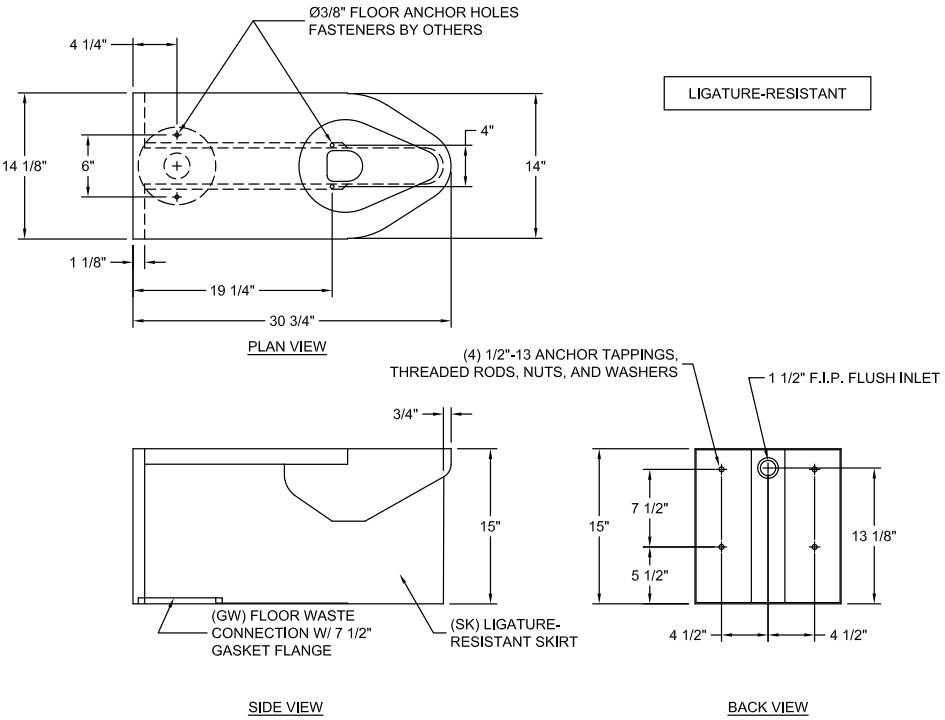
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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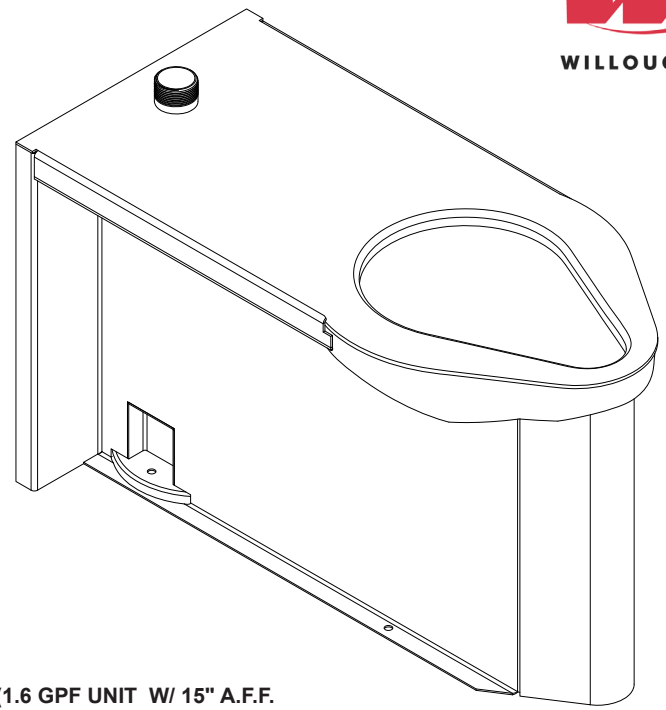
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Willoughby Industries - *Behavioral Health Products*

ASETF-1490-FM-FA
Front Access
Ligature-resistant
Floor Outlet
Floor Mounted
Siphon Jet Series
Water Closet



(1.6 GPF UNIT W/ 15" A.F.F. SEAT HEIGHT SHOWN)**
(Unit may be shown with optional features)

Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010

** USE "HC" SUFFIX FOR 18" A.F.F.SEAT HEIGHT

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Front Access, Ligature-resistant, Floor Outlet, Floor Mounted Siphon Jet Series Toilet with top spud, standard 15" seat height, 1.6 GPF, standard gasketed waste connection, floor outlet waste connection, hydraulic flush valve, ligature-resistant flush valve cover, high polish seat, and toilet shipping cover

Use the following Willoughby Model Number:
ASETF-1490-FM-FA-TS-1.6-GWC-TW4-FV-ASFVC-HPS-TSC

Recommended Specifications

Front Access, Ligature-resistant, Floor Outlet, Floor Mounted Siphon Jet Series Toilet shall be:
Willoughby Model No. **ASETF-1490-FM-FA**
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:
- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-3/8" O.D. trap which shall maintain a minimum 2" seal and pass a 2" ball
- Bead blast finish bowl interior

Toilet shall be siphon jet type, requiring 35 PSI minimum flushing pressure. Model shall meet the requirements of ASME A112.19.3/ CSA B45.4.

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Standard ligature-resistant toilet skirt shall extend to floor as close to front of toilet bowl as possible, virtually eliminating open space under the fixture.

Anchoring shall be through the front and through the floor (anchoring hardware provided by others).

Unit requires no chase area for installation and maintenance unless specified with any Toilet Waste Extension options or Toilet Overflow Preventer options.

Note: Unit will pass a 2" ball.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

- ❑ ASETF-1490-FM-FA — Front Access, Ligature-resistant, Floor Outlet, Floor Mounted Siphon Jet Series Toilet

2.) Floor Outlet Rough-In:

- ❑ 4-1/4" Fixture Rough-In (Shown, Standard)
- ❑ 10" 10" Fixture Rough-In
- ❑ 12" 12" Fixture Rough-In (Changes Overall Fixture Length to 32-3/4")

3.) Inlet Location:

- ❑ BS Back Spud
- ❑ TS Top Spud

4.) Toilet Seat Height:

- ❑ 15" Seat Height (Standard)
- ❑ HC 18" Seat Height, Handicap-ADA Compliant

5.) Flush Valve GPF (Must Specify):

- ❑ 1.28 GPF HET (4.8 Lpf) (WaterSense Labeled)
- ❑ 1.6 GPF ULF (6.0 Lpf)
- ❑ 3.5 GPF (13.2 Lpf)

6.) Toilet Waste:

- ❑ GWC Gasketed Waste Connection (Standard)
- ❑ TW4 Floor Outlet Waste Connection

7.) Other Options:

- ❑ T4 Manual Reset Toilet Overflow Preventer, Requires: (FV) Hydraulic Flush Valve and Accessible Chase
- ❑ ET4 Electronic Toilet Overflow Preventer*, Requires (EFV), Accessible Chase, & (WUCC-3010) or (WMSII) control
- ❑ FV Hydraulic Flush Valve (Includes Actuator)
- ❑ EFVP Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)*
- ❑ FVT Flush Valve Connection (Back Spud Only)

[CONTINUED IN NEXT COLUMN:]

[Other Options CONTINUED:]

- ❑ ASFVC Flush Valve Cover (Ligature-resistant, Top Spud Only)
- ❑ ASFVCADA Ligature-resistant ADA Flush Valve Cover (Top Spud Only)
- ❑ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
- ❑ HS Hinged White Plastic Seat (No Cover, not recommended for Maximum Security/Ligature-resistant use)
- ❑ DC Decorator Color (Fixture exterior only - White)
- ❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
- ❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
- ❑ HPS High Polish Seat
- ❑ MT Wall Template
- ❑ TSC Toilet Shipping Cover
- ❑ RTH1 Wall Mounted Recessed Tissue Holder (Rear Mounted, Requires Accessible Chase)
- ❑ RTH2 Wall Mounted Recessed Tissue Holder (Front Mounted, 4-1/2" Depth)
- ❑ RFVB Remote Flush Valve with Box
- ❑ REFVB Remote Electronic Flush Valve with Box*
- ❑ Other _____
- ❑ Other _____

8.) Electronic Controls* (Must Use Electronic Flush Valve):

- ❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
- ❑ WUCC-3010 (Select WUCC-3010 Control if pairing a Toilet with a Lavatory or if the Toilet is selected with an (ET4) overflow option)

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

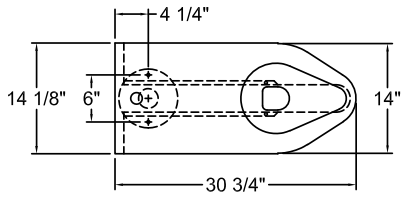
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Wall Thickness: _____ Wall Type: _____

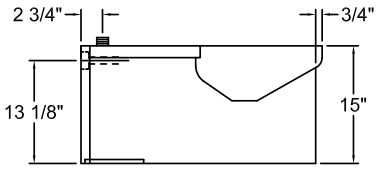
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ASETF-1490-FM-FA
(4-1/4" ROUGH-IN)

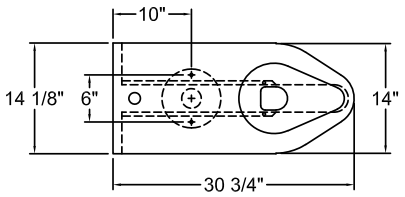


PLAN VIEW

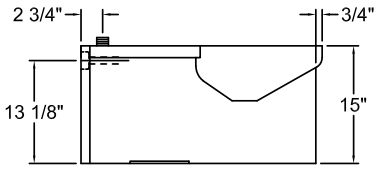


SIDE VIEW

ASETF-1490-FM-FA-10"
(10" ROUGH-IN)

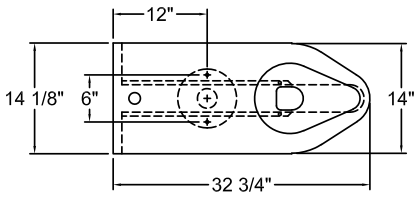


PLAN VIEW

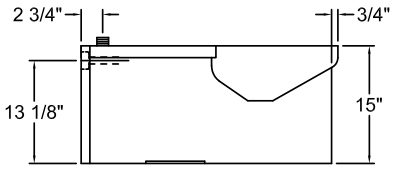


SIDE VIEW

ASETF-1490-FM-FA-12"
(12" ROUGH-IN)



PLAN VIEW



SIDE VIEW

LIGATURE-RESISTANT

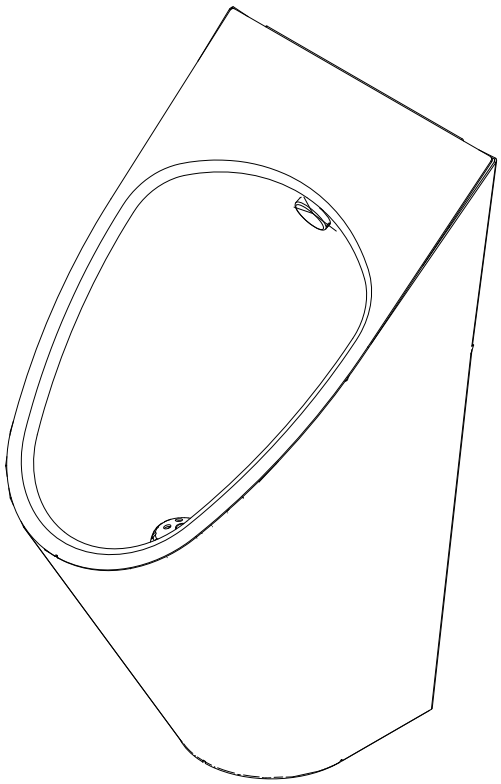
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Willoughby Industries - *Behavioral Health Products*

ASUW-1314-HEU
Single Person
Rear Mounted
Ligature-resistant
ADA-Compliant
Contoured
Washout Flush
High Efficiency Urinal



WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Single Person, Rear Mounted, Ligature-resistant, ADA-Compliant, Contoured, Wash-out Flush, High Efficiency Urinal with back spud, 1/8 GPF, wall sleeve, hydraulic flush valve, and Decorator Color- White

Use the following Willoughby Model Number:
ASUW-1314-HEU-BS-0.125-WS-FV-DC

Recommended Specifications

Single Person, Rear Mounted, Ligature-resistant, ADA-Compliant, Contoured, Washout Flush, High Efficiency Urinal shall be: Willoughby Model No. **ASUW-1314-HEU**
(Select from model number and options list on next page)

Fixture is fabricated from all 16 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless steel surfaces polished to a satin finish. Contoured interior and exterior surfaces for ease of cleaning.

Standard equipment shall include:
- Machined stainless steel flush nozzle
- Beehive strainer
- Removable P-trap with 1-1/2" F.I.P. waste connection
- 3/4" N.P.T. male inlet connection

High Efficiency Urinal shall be washout type requiring 1/8 to 1/2 GPF flush valve and 25 PSI minimum flushing pressure. Trap shall be fully enclosed and maintain a 3" seal.

Mounting hardware by others.

Unit requires chase area for installation and maintenance.

Urinals mounted at 17" rim height to comply with ANSI, ADA and UFAS accessibility requirements. Please consult local code as compliance is subject to the interpretation and requirements of the local code authority.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ ASUW-1314-HEU — Single Person, Rear Mounted, Ligature-resistant, ADA-Compliant, Contoured, Washout Flush, High Efficiency Urinal

2.) Inlet Location:

❑ BS Back Spud

3.) Flush Valve GPF (Must Specify):

❑ 0.5 GPF (1.9 Lpf) High Efficiency (HEU) (WaterSense Labeled)
❑ 0.125 GPF (0.4 Lpf) High Efficiency (HEU)

4.) Options:

❑ MT Wall Template
❑ WS Wall Sleeve (Requires Accessible Chase)
❑ FV Hydraulic Flush Valve (Includes Actuator)
❑ EFV Electronic Flush Valve (Pick Control)*
❑ EFVP Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)*
❑ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ DC Decorator Color (Fixture exterior only - White)
❑ Other _____
❑ Other _____

5.) Electronic Controls* (Must Use Electronic Flush Valve):

❑ WUFC-4000 ❑ Pneutronic ❑ WMSII

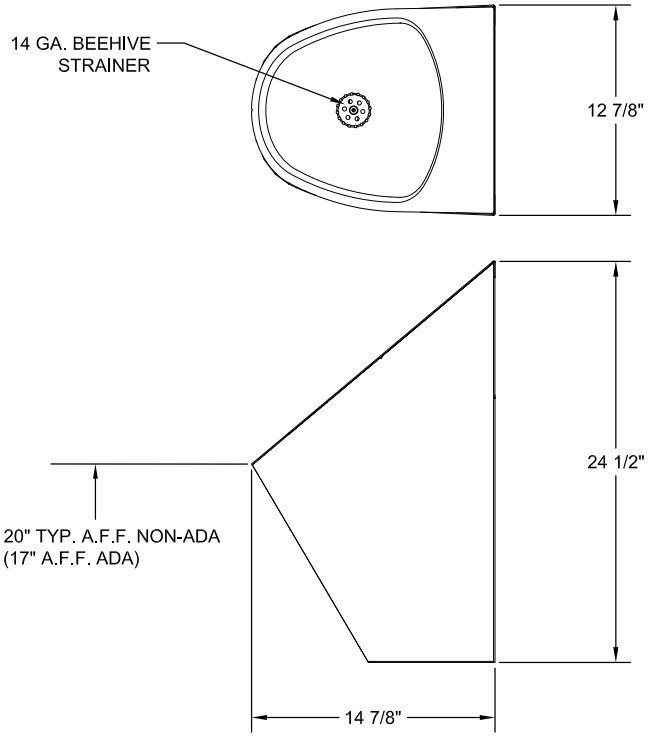
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

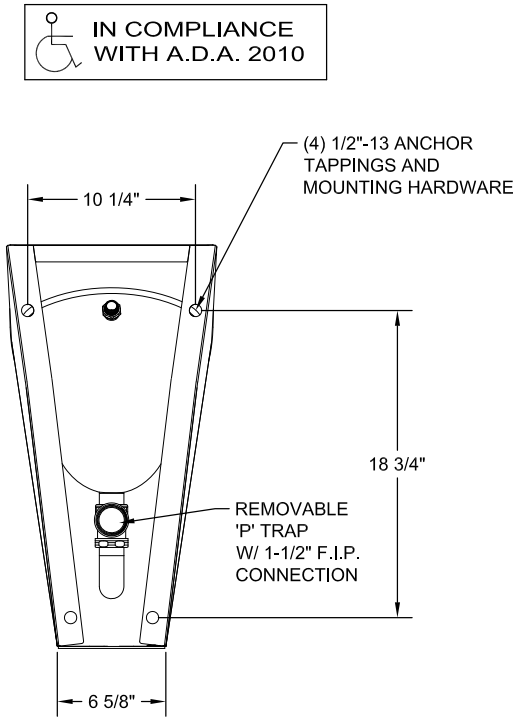
Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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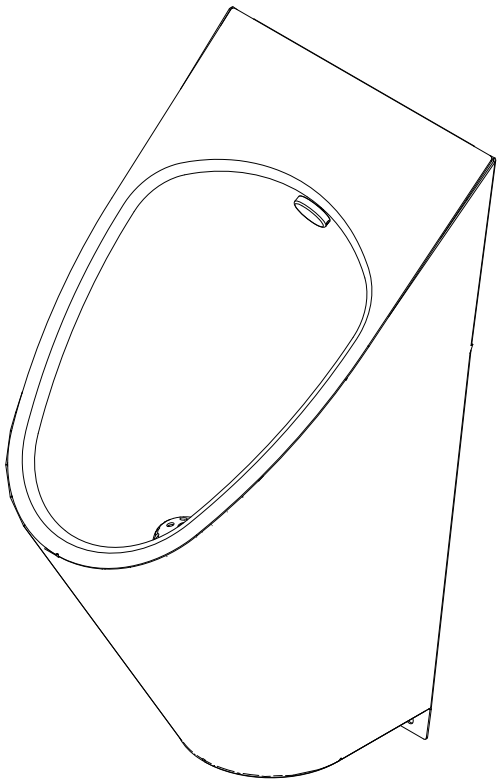
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ASUW-1314-HEU-FA
Single Person
Front Access
Ligature-resistant
ADA-Compliant
Contoured
Washout Flush
High Efficiency Urinal



WaterSense Meets EPA Criteria
Certified by CSA Group
WaterSense certified only for use with a certified high-efficiency flushometer

IN COMPLIANCE WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Single Person, Front Access, Ligature-resistant, ADA-Compliant, Contoured, Washout Flush, High Efficiency Urinal with back spud, 1/8 GPF, wall template, hydraulic flush valve, and Decorator Color- White

Use the following Willoughby Model Number:
ASUW-1314-HEU-FA-BS-0.125-MT-FV-DC

Recommended Specifications

Single Person, Front Access, Ligature-resistant, ADA-Compliant, Contoured, Washout Flush, High Efficiency Urinal shall be: Willoughby Model No. **ASUW-1314-HEU-FA**
(Select from model number and options list on next page)

Fixture is fabricated from all 16 GA., Type 304 stainless steel. The construction shall be all-welded with exposed stainless steel surfaces polished to a satin finish. Contoured interior and exterior surfaces for ease of cleaning.

Standard equipment shall include:
- Machined stainless steel flush nozzle
- Beehive strainer
- Removable P-trap with 1-1/2" F.I.P. waste connection
- 3/4" N.P.T. male inlet connection
- Removable access cover

High Efficiency Urinal shall be washout type requiring 1/8 to 1/2 GPF flush valve and 25 PSI minimum flushing pressure. Trap shall be fully enclosed and maintain a 3" seal.

Mounting hardware by others.

Unit requires no chase area for installation and maintenance unless specified with any options requiring an accessible chase.

Urinals mounted at 17" rim height to comply with ANSI, ADA and UFAS accessibility requirements. Please consult local code as compliance is subject to the interpretation and requirements of the local code authority.

Note: Fixture should only be used with a listed high-efficiency flushometer to ensure the complete system meets the requirements of WaterSense.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ ASUW-1314-HEU-FA Single Person, Front Access, Ligature-resistant, ADA-Compliant, Contoured, Washout Flush, High Efficiency Urinal

2.) Inlet Location:

❑ BS Back Spud

3.) Flush Valve GPF (Must Specify):

❑ 0.5 GPF (1.9 Lpf) High Efficiency (HEU) (WaterSense Labeled)
❑ 0.125 GPF (0.4 Lpf) High Efficiency (HEU)

4.) Options:

❑ MT Wall Template
❑ FV Hydraulic Flush Valve (Includes Actuator)
❑ EFV Electronic Flush Valve (Pick Control)*
❑ EFVP Electronic Flush Valve w/ (PZPB) Piezo Push Button (Pick Control)*
❑ AP Flush Valve Access Panel (Allows access to chase mounted flush valve from fixture side)
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ DC Decorator Color (Fixture exterior only - White)
❑ Other _____
❑ Other _____

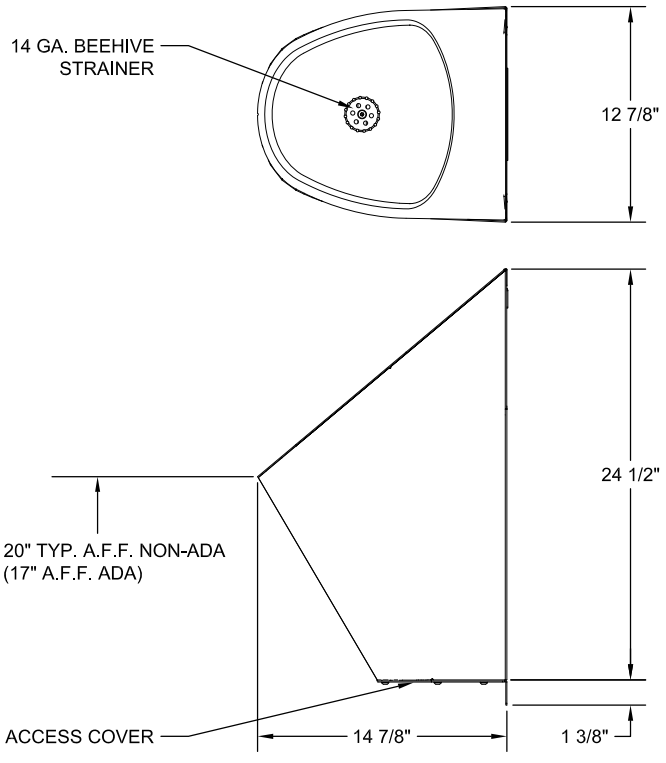
5.) Electronic Controls* (Must Use Electronic Flush Valve):

❑ WUFC-4000 ❑ Pneutronic ❑ WMSII
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

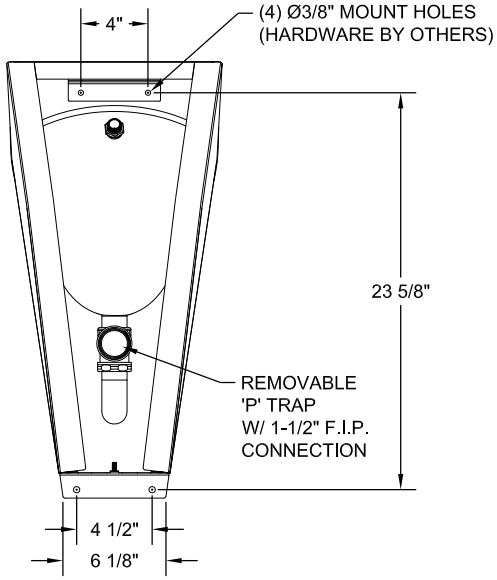
Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

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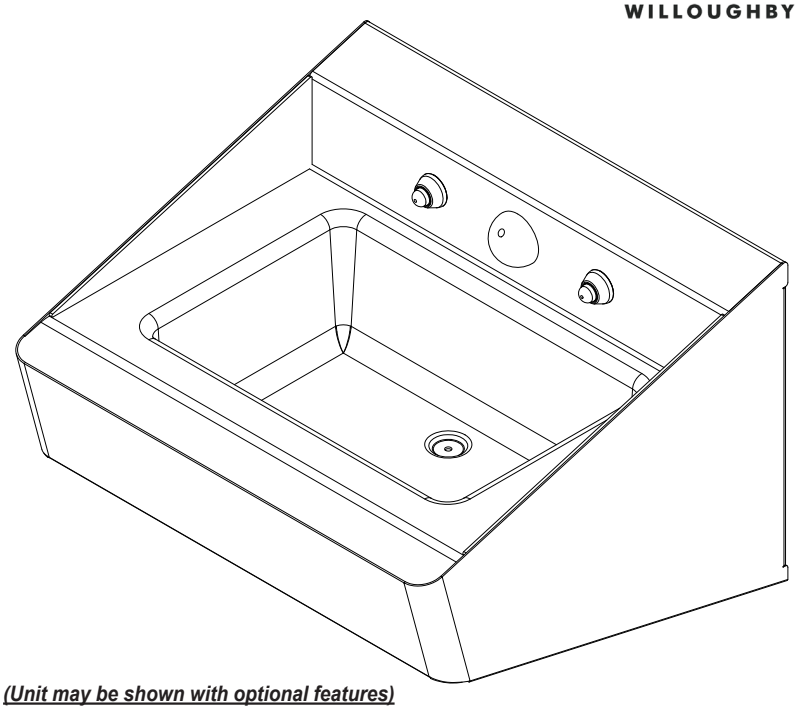
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Willoughby Industries - *Behavioral Health Products*

WBLS-2018-HC Ligature-resistant Rear Mounted Stainless Steel Behavioral Lavatory



(Unit may be shown with optional features)

IN COMPLIANCE WITH A.D.A. 2010

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Ligature-resistant Rear Mounted Stainless Steel Behavioral Lavatory with ligature-resistant bubbler/filler, dual temp. pneumatic metering valve, ligature-resistant pneumatic push buttons, and elbow waste

Use the following Willoughby Model Number:
WBLS-2018-HC-BPH-PML2-PBH-EB

Recommended Specifications

Ligature-resistant Rear Mounted Stainless Steel Behavioral Lavatory shall be: Willoughby Model No. **WBLS-2018-HC** (Select from model number and options list on next page)

Wall-hung angular profile fixture shall accommodate one user and is designed to minimize ligature points. Fixture shall be fabricated from 14GA. / 16GA. Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard lavatory shall include:
- Rectangular bowl, 14" x 9" x 5" deep
- Stainless steel ligature-resistant bubbler/filler
- Slow drain with air vent
- Elbow waste (1-1/2" Plain End)
- Angular profile with sloped top
- 0.5 GPM flow rate

Vandal Resistance/Safety Features:
The bubbler, push buttons, and slow drain are non-removable from the user-side and are designed to minimize ligature points. Supply and waste connections are concealed within the lavatory cabinet, with valves and water supplies remotely located in the mechanical chase. The lavatory is rear-access and does not have any exposed fasteners.

ADA and ANSI Compliant:
When the lavatory is mounted at the standard adult rim height it is designed to comply with all applicable ADA and ANSI (Z124.3 and Z124.6) accessibility guidelines.

Mounting:
Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance; proper backing for lavatory mounting provided by others.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ WBLS-2018-HC Ligature-resistant Rear Mounted Stainless Steel Behavioral Lavatory

2.) Bubbler Selection:

❑ BPH Ligature-resistant Bubbler/Filler (Standard)
❑ FLH Ligature-resistant Lav. Filler

3.) Lavatory Valve Selection:

❑ NV No Valve
❑ PML1 Single Temp. Pneumatic Metering
❑ PML2 Dual Temp. Pneumatic Metering
❑ E1L1 Single Temp. Electronic (pick control)*
❑ E1L2 Dual Temp. Electronic (pick control)*

Valve Manifold Options:

Pneumatic or Electronic Only:

❑ MA2 ❑ MA3 ❑ MA4

4.) Lavatory Valve Actuation:

❑ PBH Ligature-resistant Push Buttons
❑ PZPB Ligature-resistant Piezo Electronic Push Buttons*

5.) Electronic Controls* (Must Use Electronic Push Button):

❑ WUCC-3010 ❑ Pneutronic ❑ WMSII

(The WUCC-3010 Control can be used to pair a Lavatory with a Toilet)

6.) Lavatory Waste:

❑ EB Elbow Waste (Standard)
❑ LWE Lavatory Waste Extension
❑ SLOW Slow Drain (Standard)
❑ LW1 Thru-Wall Extension, 'P'-Trap
❑ LW2 Thru-Wall Extension and Clean-Out

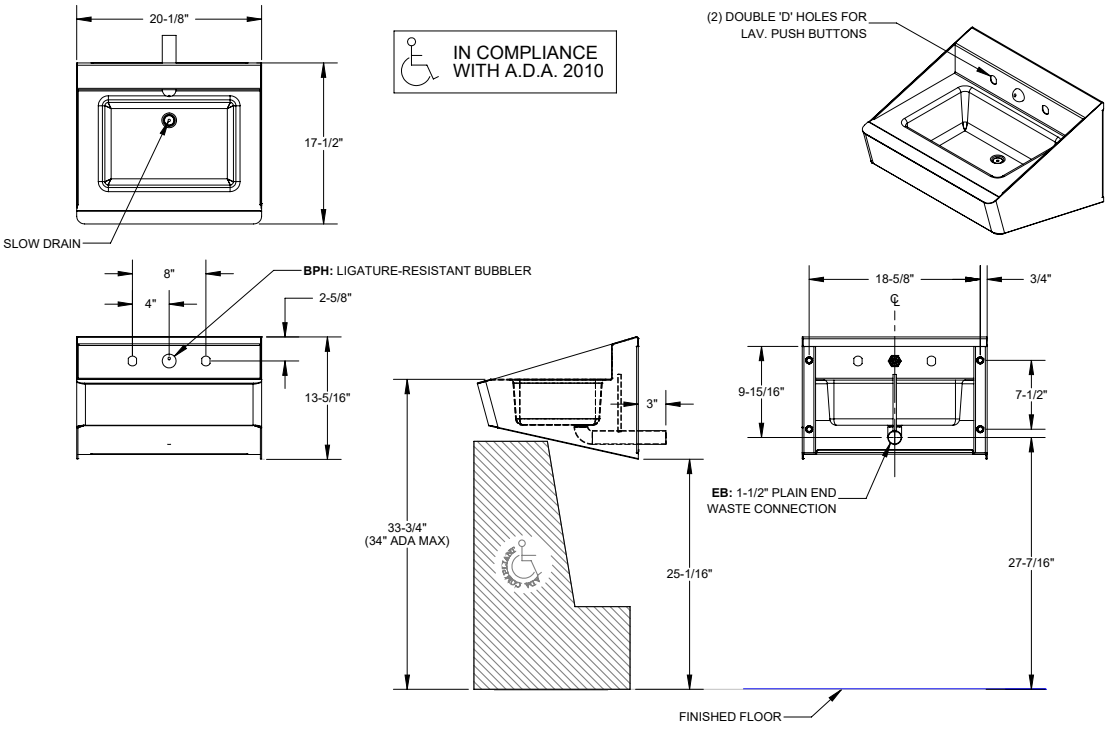
7.) Options:

❑ MT Wall Template
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ TH1 Single Towel Hook
❑ Right ❑ Left
❑ TH2 Dual Towel Hook
❑ Right ❑ Left
❑ WS Wall Sleeve (Requires Accessible Chase)
❑ DC Decorator Color (Fixture exterior only - White)
❑ TMV In-line Thermostatic Mixing Valve
❑ Other: _____
❑ Other: _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By:_____ Date:_____ Company:_____

Wall Thickness: _____ Wall Type:_____



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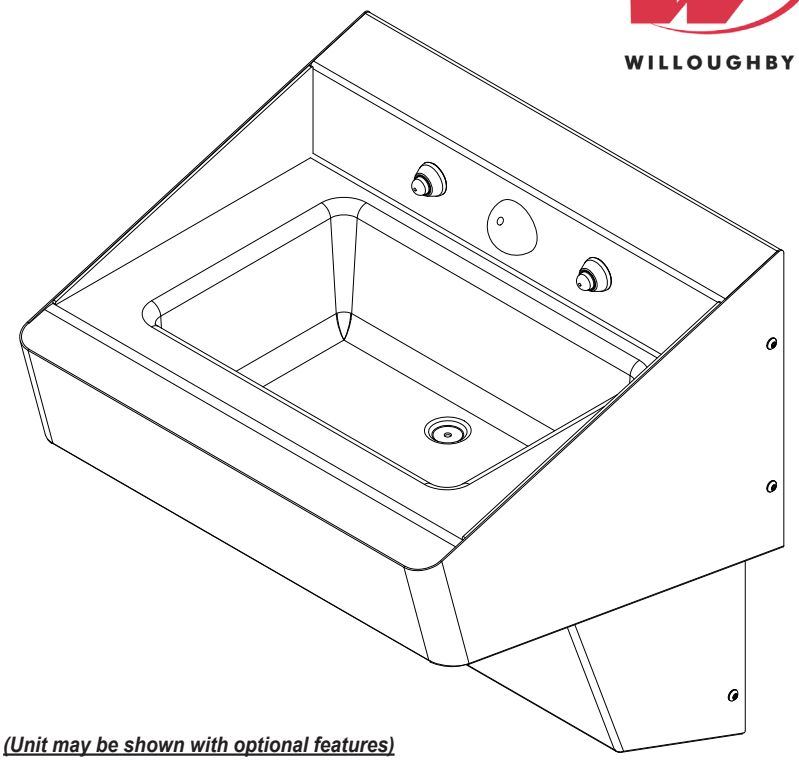
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Willoughby Industries - *Behavioral Health Products*

WBLS-2018-HC-FA Ligature-resistant Front Access Stainless Steel Behavioral Lavatory



(Unit may be shown with optional features)

IN COMPLIANCE WITH A.D.A. 2010

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Ligature-resistant Front Access Stainless Steel Behavioral Lavatory with ligature-resistant bubbler/filler, dual temp. pneumatic metering valve, ligature-resistant pneumatic push buttons, and removable P-trap

Use the following Willoughby Model Number:
WBLS-2018-HC-FA-BPH-PML2-PBH-RPT

Recommended Specifications

Ligature-resistant Front Access Stainless Steel Behavioral Lavatory shall be: Willoughby Model No. **WBLS-2018-HC-FA** (Select from model number and options list on next page)

Wall-hung angular profile fixture shall accommodate one user and is designed to minimize ligature points. Fixture shall be fabricated from 14GA. / 16GA. Type 304 stainless steel. The construction shall consist of an all-welded lavatory cabinet and all-welded trap enclosure, with exposed stainless surfaces polished to a #4 satin finish.

Standard lavatory shall include:
- Rectangular bowl, 14" x 9" x 5" deep
- Stainless steel ligature-resistant bubbler/filler
- Slow drain w/ air vent
- Removable P-trap (1-1/2" F.I.P.)
- Angular profile with sloped top
- Removable trap enclosure attached with security screws
- 0.5 GPM flow rate

Vandal Resistance/Safety Features:
The bubbler, push buttons, and slow drain are non-removable from the user-side and are designed to minimize ligature points. Valve, water supplies, and waste connection are concealed within the trap enclosure. All exposed fasteners shall be vandal-resistant security type screws.

ADA and ANSI Compliant:
When the lavatory is mounted at the standard adult rim height it is designed to comply with all applicable ADA and ANSI (Z124.3 and Z124.6) accessibility guidelines.

Mounting:
Anchoring shall be from the front with mounting plate with anchoring holes. Unit does not require chase area for installation and maintenance; proper backing and anchoring hardware for lavatory mounting provided by others.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ WBLS-2018-HC-FA Ligature-resistant Front Access Stainless Steel Behavioral Lavatory

2.) Bubbler Selection:

❑ BPH Ligature-resistant Bubbler/Filler (Standard)
❑ FLH Ligature-resistant Lav. Filler

3.) Lavatory Valve Selection:

❑ NV No Valve
❑ PML1 Single Temp. Pneumatic Metering
❑ PML2 Dual Temp. Pneumatic Metering
❑ E1L1 Single Temp. Electronic (pick control)*
❑ E1L2 Dual Temp. Electronic (pick control)*

4.) Lavatory Valve Actuation:

❑ PBH Ligature-resistant Push Buttons
❑ PZPB Ligature-resistant Piezo Electronic Push Buttons*

5.) Electronic Controls* (Must Use Electronic Push Button):

❑ WUCC-3010 ❑ Pneutronic ❑ WMSII
(The WUCC-3010 Control can be used to pair a Lavatory with a Toilet)

6.) Lavatory Waste:

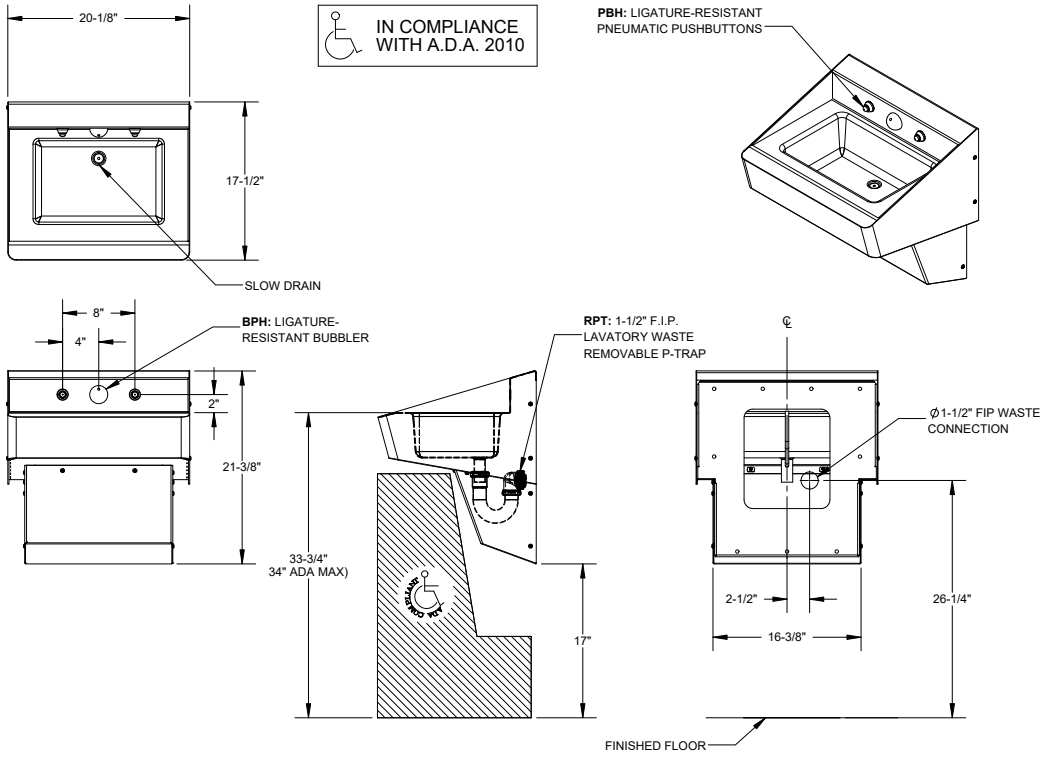
❑ RPT Removable P-trap (Standard)
❑ OV Lavatory Overflow
❑ SLOW Slow Drain (Standard)

7.) Options:

❑ MT Wall Template
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ TH1 Single Towel Hook
❑ Right ❑ Left
❑ TH2 Dual Towel Hook
❑ Right ❑ Left
❑ DC Decorator Color (Fixture exterior only - White)
❑ TMV In-line Thermostatic Mixing Valve
❑ Other: _____
❑ Other: _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By:_____ Date:_____ Company:_____
Wall Thickness: _____ Wall Type:_____



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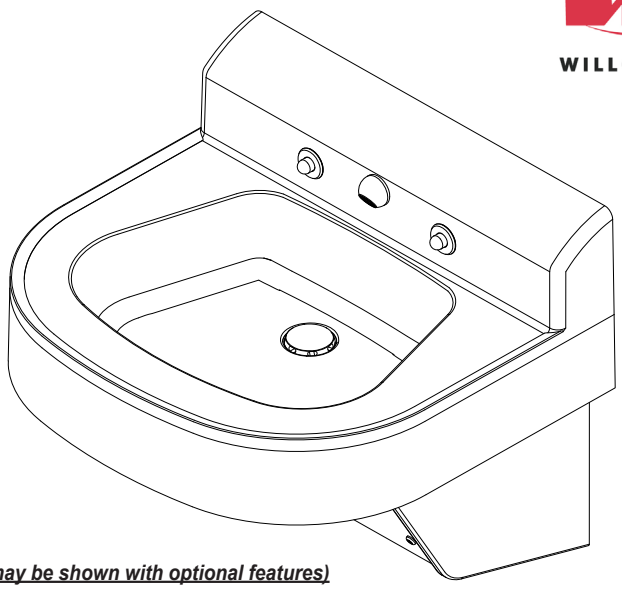
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Willoughby Industries - *Behavioral Health Products*

WBL-2320 Ligature-resistant Solid Surface Behavioral Healthcare Lavatory



(Unit may be shown with optional features)

IN COMPLIANCE WITH A.D.A. 2010

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a single station Ligature-resistant, Solid Surface, Behavioral Healthcare Lavatory with dual temp. ligature-resistant electronic push buttons, in Sandstone color with Sanshade side panels

Use the following Willoughby Model Number:
WBL-2320-EPBH2-SS-SN

Recommended Specifications

Ligature-resistant, Solid Surface, Behavioral Healthcare Lavatory shall be: Willoughby Model No. **WBL-2320**
(Select from model number and options list on next page)

Wall-hung fixture shall accommodate one user and is designed to minimize ligature points. The lavatory bowl with integral sloped backsplash is constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate and mineral fillers. Lavatory bowl shall be rounded to minimize its use as a ligature point.

The pre-assembled lavatory sprayhead shall be machined of stainless steel and shall be controlled by a push button or infrared sensor. Lavatory sprayhead shall provide non-aerated water stream. Exposed stainless steel surfaces shall be polished to a #4 satin finish and shall be fully-rounded to minimize use as a ligature point. Push button shall be machined of stainless steel and shall be fully rounded to minimize use as a ligature point. Flow restrictor shall maintain flow rates at 0.5 GPM.

WBL-2320 Lavatory shall be supplied with drain tailpiece, integral checkstops, drain spuds, flexible supply hoses, control valves, Class II 120/24 VAC plug-in transformers*. Fixtures with factory valves shall be furnished with thermostatic mixing valve. Operating supply water pressure range is 30-75 psi.

Pedestal shall be welded stainless steel with solid polymer side panels to correspond to solid surface lavatory bowl. Trap cover shall be one piece formed stainless steel and attached with stainless steel security screws.

Vandal Resistance/Safety Features:
The sprayhead, push buttons, infrared sensor, drain and escutcheon are non-removable and are designed to minimize ligature points. Valve, water supplies and waste connection are concealed within trap enclosure. All exposed fasteners shall be vandal-resistant security type screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, UFAS, and ANSI Compliant:
When the lavatory is mounted at the standard adult rim height it is designed to comply with all applicable ADA, TAS, UFAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

Mounting:
The lavatory may be surface-mounted as supplied or supported by in-wall carriers supplied by others. Surface-mounted bracket also includes a locking device and leveling screws. Proper backing for surface-mounted lavatory provided by others.

Optional Features:
* *Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock. (Not required on pneumatic valves)*

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ WBL-2320 Single Station Ligature-resistant, Solid Surface Behavioral Healthcare Lavatory

2.) Valve Actuation:

❑ PBH1 Ligature-resistant Push Button for Single Temperature Pneumatic Metering

❑ PBH2 Ligature-resistant Push Buttons for Dual Temperature Pneumatic Metering

❑ EPBH1 Ligature-resistant Electronic Push Button for Single Temperature Electronic (w/ Pneutronic Control)*

❑ EPBH2 Ligature-resistant Electronic Push Buttons for Dual Temperature Electronic (w/ Pneutronic Control)*

❑ IR Infrared Sensor, Hard-wired*

❑ BO Infrared Sensor, Battery Operated

3.) Solid Surface Lav. Deck Colors:

❑ BN Bone

❑ GW Glacier White

❑ GG Grey Granite

❑ SS Sandstone

❑ WG White Granite

❑ BG Black Granite

❑ NB Nocturnal Blue

❑ RC Red Coral

❑ SG Sea Green

4.) Solid Polymer Side Panel Colors:

❑ SN Sanshade (Almond)

❑ SM Sea Foam

❑ WW White/White

5.) Options:

❑ TL Less In-line Thermostatic Mixing Valve

❑ AMT Antimicrobial Trap***

❑ Other _____

❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

** Piezo Electronic Push Button valve actuation not available on WBL-2320

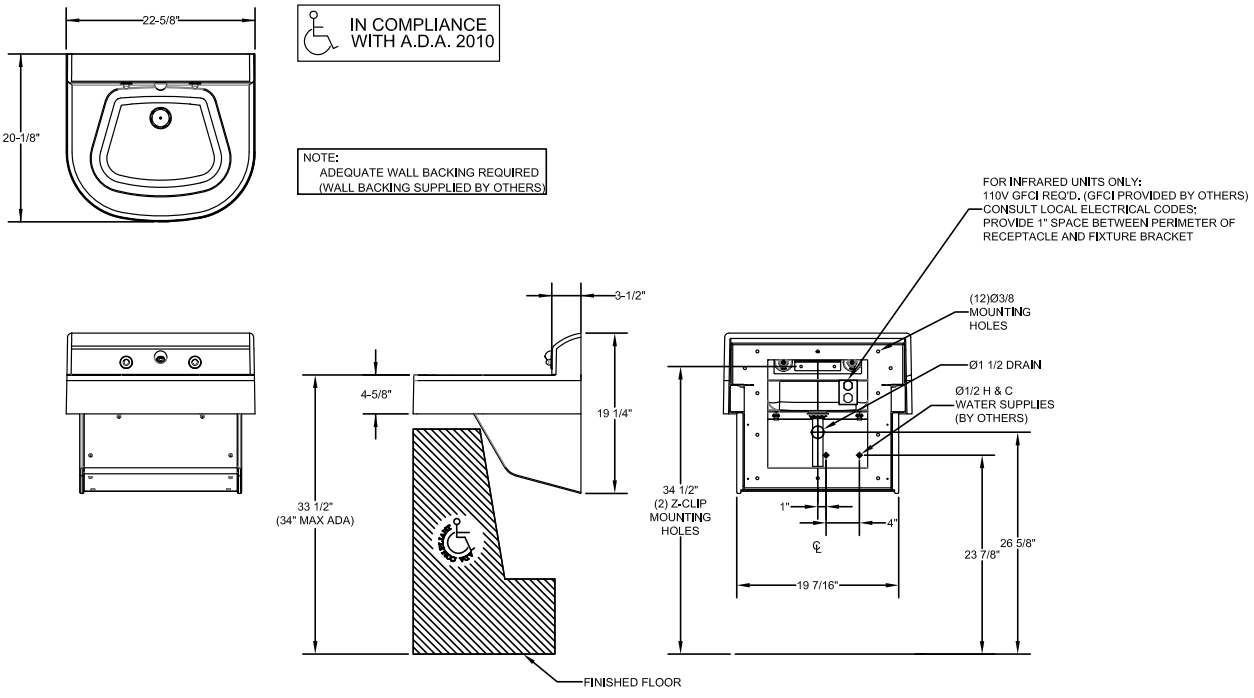
***Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.

Approved For Manufacturing By:_____ Date:_____ Company:_____

Wall Thickness: _____ Wall Type:_____

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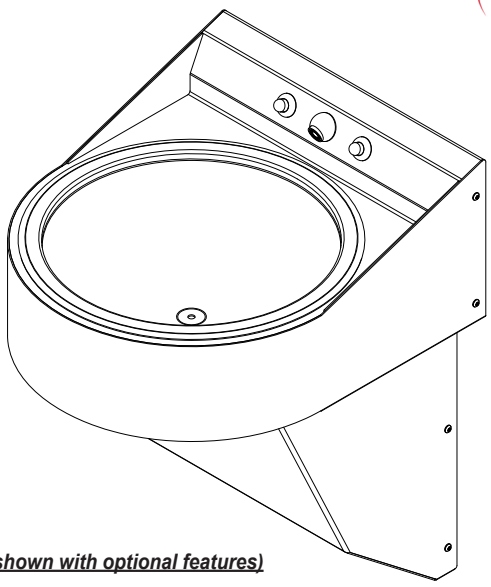
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Willoughby Industries - *Behavioral Health Products*

ASWLDR-1922 Ligature-resistant Stainless Steel Behavioral Healthcare Lavatory



(Unit may be shown with optional features)

IN COMPLIANCE WITH A.D.A. 2010

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a single station Ligature-resistant, Stainless Steel, Behavioral Healthcare Lavatory with dual temp. ligature-resistant pneumatic push buttons, and stainless steel lavatory basin

Use the following Willoughby Model Number:
ASWLDR-1922-PBH2-SSB

Recommended Specifications

Ligature-resistant, Stainless Steel, Behavioral Healthcare Lavatory shall be: Willoughby Model No. **ASWLDR-1922** (Select from model number and options list on next page)

Wall-hung fixture shall accommodate one user and is designed to minimize ligature points. The lavatory will have rounded integral sloped backsplash and rounded integral ligature-resistant side splashes. Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be welded with removable trap enclosure. Fixture exterior, including deck, basin, and trap enclosure, shall have an antimicrobial gloss white powder coat enamel finish**. A bare stainless steel lavatory basin with polished satin finish is optional.

The pre-assembled lavatory sprayhead shall be machined of stainless steel and shall be controlled by a push button or infrared sensor. Lavatory sprayhead shall provide non-aerated water stream. Push button shall be machined of stainless steel, shall require less than 5 lbs. of force to activate, and shall be fully rounded to minimize use as a ligature point. Flow restrictor shall maintain flow rates at 0.5 GPM.

ASWLDR-1922 Lavatory shall be supplied with drain tailpiece, integral checkstops, flexible supply hoses, control valves, Class II 120/24 VAC plug-in transformers*. Fixtures with factory valves shall be furnished with thermostatic mixing valve. Operating supply water pressure range is 30-75 psi.

Vandal Resistance/Safety Features:
The sprayhead, push buttons, infrared sensor, slow drain and escutcheon are non-removable and are designed to minimize ligature points. Valve, water supplies and waste connection are concealed within trap enclosure. All exposed fasteners shall be vandal-resistant security type screws.

ADA, TAS, UFAS, and ANSI Compliant:
When the lavatory is mounted at the standard adult rim height it is designed to comply with all applicable ADA, TAS, UFAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

Mounting:
The lavatory may be surface-mounted as supplied or supported by in-wall plate carriers supplied by others. Proper backing and anchoring hardware for mounting of lavatory provided by others.

Optional Features:
* *Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock. (Not required on PML valves)*

***Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.*

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ ASWLDR-1922 Single Station Ligature-resistant, Stainless Steel, Behavioral Healthcare Lavatory

2.) Valve Actuation:

❑ PBH1 Ligature-resistant Push Button for Single Temperature Pneumatic Metering

❑ PBH2 Ligature-resistant Push Buttons for Dual Temperature Pneumatic Metering

❑ PZPB1 Ligature-resistant Piezo Push Button for Single Temperature Electronic (w/ Pneutronic Control)*

❑ PZPB2 Ligature-resistant Piezo Push Buttons for Dual Temperature Electronic (w/ Pneutronic Control)*

❑ IR Infrared Sensor, Hard-wired*

❑ BO Infrared Sensor, Battery Operated

3.) Options:

❑ SSB Stainless Steel Lavatory Basin (basin not powder coated)

❑ LDC Less Powder Coat Finish

❑ TL Less In-line Thermostatic Mixing Valve

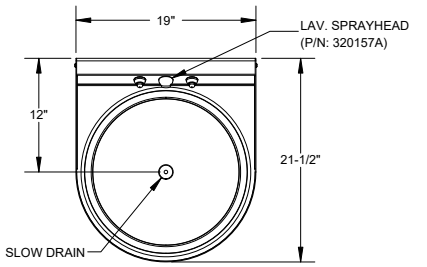
❑ Other _____

❑ Other _____

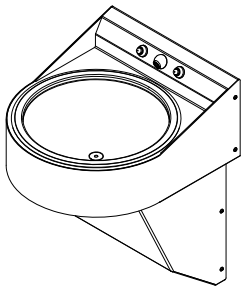
*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

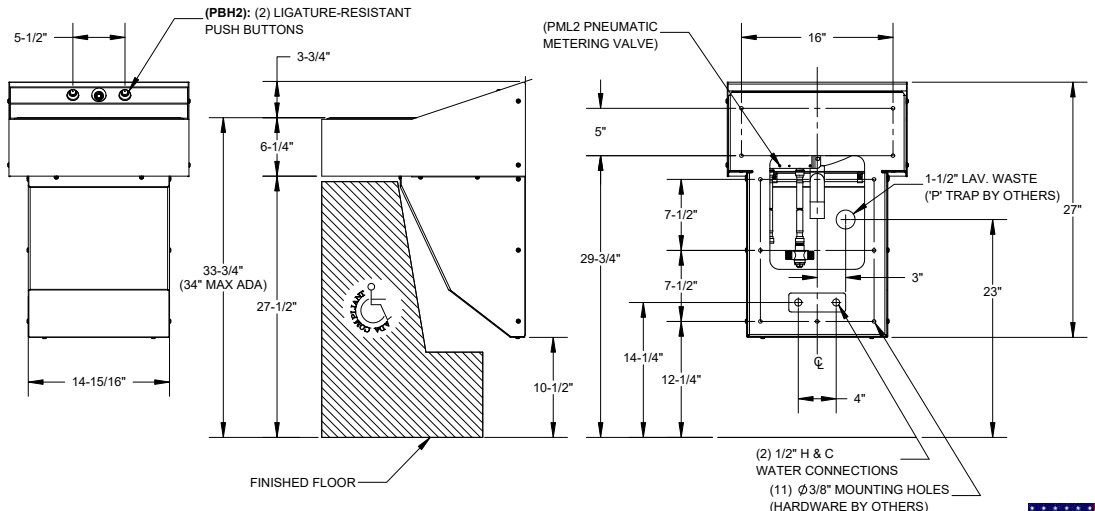
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Wall Thickness: _____ Wall Type:_____



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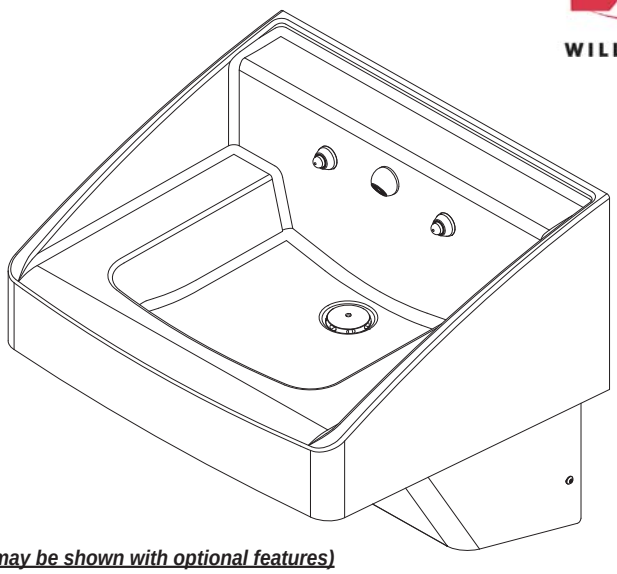
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Willoughby Industries - *Behavioral Health Products*

LRBHL-2320 Ligature-resistant Solid Surface Behavioral Healthcare Lavatory

PATENTED: D864,362

IN COMPLIANCE WITH A.D.A. 2010



(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a single station Ligature-resistant, Solid Surface, Behavioral Healthcare Lavatory with dual temp. ligature-resistant pneumatic push buttons, in Sandstone color.

Use the following Willoughby Model Number:
LRBHL-2320-PBH2-SS

Recommended Specifications

Ligature-resistant, Solid Surface, Behavioral Healthcare Lavatory shall be: Willoughby Model No. **LRBHL-2320**
(Select from model number and options list on next page)

Wall-hung fixture shall accommodate one user and is designed to minimize ligature points. The lavatory bowl with integral sloped backsplash and sides is constructed of Aquasurf® molded cast polymer densified solid surface material composed of polyester/ acrylic resin, UV stabilizer, aluminum trihydrate and mineral fillers. Lavatory bowl shall be rectangular, 13" x 12" x 4" deep.

The pre-assembled lavatory sprayhead shall be machined of stainless steel and shall be controlled by a push button or infrared sensor. Lavatory sprayhead shall provide non-aerated water stream. Exposed stainless steel surfaces shall be polished to a #4 satin finish and shall be fully-rounded to minimize use as a ligature point. Push button shall be machined of stainless steel and shall be fully rounded to minimize use as a ligature point. Flow restrictor shall maintain flow rates at 0.5 GPM.

LRBHL-2320 Lavatory shall be supplied with drain tailpiece, integral checkstops, drain spuds, flexible supply hoses, control valves, Class II 120/24 VAC plug-in transformers*. Fixtures with factory valves shall be furnished with thermostatic mixing valve. Operating supply water pressure range is 30-75 psi.

Pedestal back plate shall be welded stainless steel constructed of heavy gauge, type 304 stainless steel. Exposed stainless steel surfaces shall be polished to a #4 satin finish.

Vandal Resistance/Safety Features:
The sprayhead, push buttons, infrared sensor, drain and escutcheon are non-removable and are designed to minimize ligature points. Valve, water supplies and waste connection are concealed within trap enclosure. All exposed fasteners shall be vandal-resistant security type screws. The Aquasurf® solid surface material is resistant to stains, impact and burns. Surface damage can be easily repaired with everyday cleansers and/or fine grit abrasives.

ADA, TAS, UFAS, and ANSI Compliant:
When the lavatory is mounted at the standard adult rim height it is designed to comply with all applicable ADA, TAS, UFAS, and ANSI Z124.3 and Z124.6 accessibility guidelines.

Mounting:
The lavatory may be surface-mounted as supplied or supported by in-wall carriers supplied by others. Surface-mounted bracket also includes a locking device and leveling screws. Proper backing for surface-mounted lavatory provided by others.

Optional Features:
* *Note: Plug-in transformer must be used with a ground fault interrupter (GFCI) receptacle to prevent possible electrical shock. (Not required on pneumatic valves)*

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ LRBHL-2320 Single Station Ligature-resistant, Solid Surface Behavioral Healthcare Lavatory

2.) Valve Actuation:

❑ PBH1 Ligature-resistant Push Button for Single Temperature Pneumatic Metering

❑ PBH2 Ligature-resistant Push Buttons for Dual Temperature Pneumatic Metering

❑ EPBH1 Ligature-resistant Electronic Push Button for Single Temperature Electronic (w/ Pneutronic Control)*

❑ EPBH2 Ligature-resistant Electronic Push Buttons for Dual Temperature Electronic (w/ Pneutronic Control)*

❑ IR Infrared Sensor, Hard-wired*

❑ BO Infrared Sensor, Battery Operated

3.) Solid Surface Lav. Deck Colors:

❑ BN Bone

❑ GW Glacier White

❑ GG Grey Granite

❑ SS Sandstone

❑ WG White Granite

❑ BG Black Granite

❑ NB Nocturnal Blue

❑ RC Red Coral

❑ SG Sea Green

4.) Options:

❑ TL Less In-line Thermostatic Mixing Valve

❑ MT Wall Template

❑ AMT Antimicrobial Trap***

❑ Other _____

❑ Other _____

*(Req. 110V power through ground fault interrupter (GFCI) receptacle)

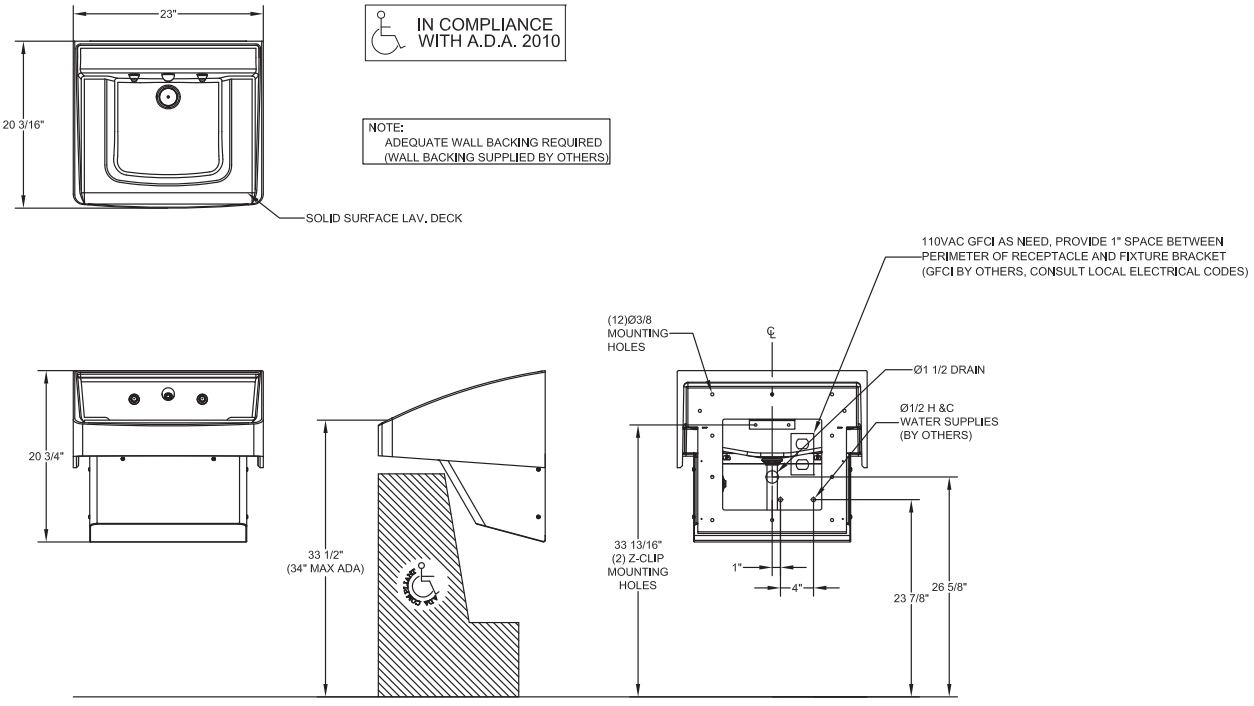
** Piezo Electronic Push Button valve actuation not available on LRBHL-2320

***Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other disease organisms. Always use good hygienic cleaning practices.

PATENTED: D864,362

Approved For Manufacturing By:_____ Date:_____ Company:_____

Wall Thickness: _____ Wall Type:_____



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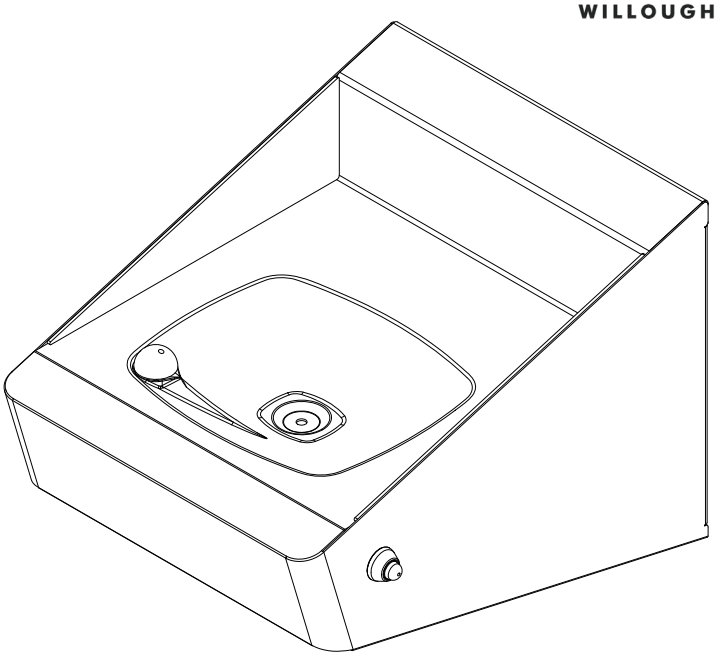
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Willoughby Industries - *Behavioral Health Products*

WBDF-1519-HC Ligature-resistant Rear Mounted Stainless Steel Behavioral Drinking Fountain



IN COMPLIANCE WITH A.D.A. 2010

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Ligature-resistant Rear Mounted Stainless Steel Behavioral Drinking Fountain with ligature-resistant bubbler, single temp. non-metering pneumatic valve, ligature-resistant pneumatic push button, and elbow waste

Use the following Willoughby Model Number:
WBDF-1519-HC-DMBH-PSL1-PBH-EB

Recommended Specifications

Ligature-resistant Rear Mounted Stainless Steel Behavioral Drinking Fountain shall be:
Willoughby Model No. **WBDF-1519-HC**
(Select from model number and options list on next page)

Wall-hung angular profile fixture shall accommodate one user and is designed to minimize ligature points. Fixture shall be fabricated from 14GA./16GA. Type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard drinking fountain shall include:
- Shallow bowl, 9" x 10-1/2"
- Stainless steel ligature-resistant bubbler
- Slow drain with air vent
- Elbow waste (1-1/2" Plain End)
- Angular profile with sloped top

Vandal Resistance/Safety Features:
The bubbler, push buttons, and slow drain are non-removable from the user-side and are designed to minimize ligature points. Supply and waste connections are concealed within the lavatory cabinet, with valves and water supplies remotely located in the mechanical chase. The drinking fountain is rear-access and does not have any exposed fasteners.

ADA, ANSI, and CBC Compliant:
When the drinking fountain is mounted at the standard adult rim height for fountains, it is designed to comply with all applicable ADA, ANSI (Z124.3 and Z124.6), and CBC (2013, Ch. 11B) accessibility guidelines.

Mounting:
Anchoring shall be by standard 4-point system: threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance; proper backing for lavatory mounting provided by others.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ WBDF-1519-HC Ligature-resistant Rear Mounted Stainless Steel Behavioral Drinking Fountain

2.) Bubbler Selection:

❑ DMBH Ligature-resistant Deck Mounted Bubbler (Standard)

3.) Valve Selection:

❑ PSL1 Single Temp. Pneumatic Non-metering (Standard)

4.) Push Button Selection:

❑ PBH Ligature-resistant Pneumatic Push Button (Standard)

5.) Drinking Fountain Waste:

❑ EB Elbow Waste (Standard)
❑ LWC1 Coupling, 1-1/2" Tube to 1-1/2" Tube
❑ LWC2 Coupling, 1-1/2" Tube to 1-1/2" PVC/Cast Iron

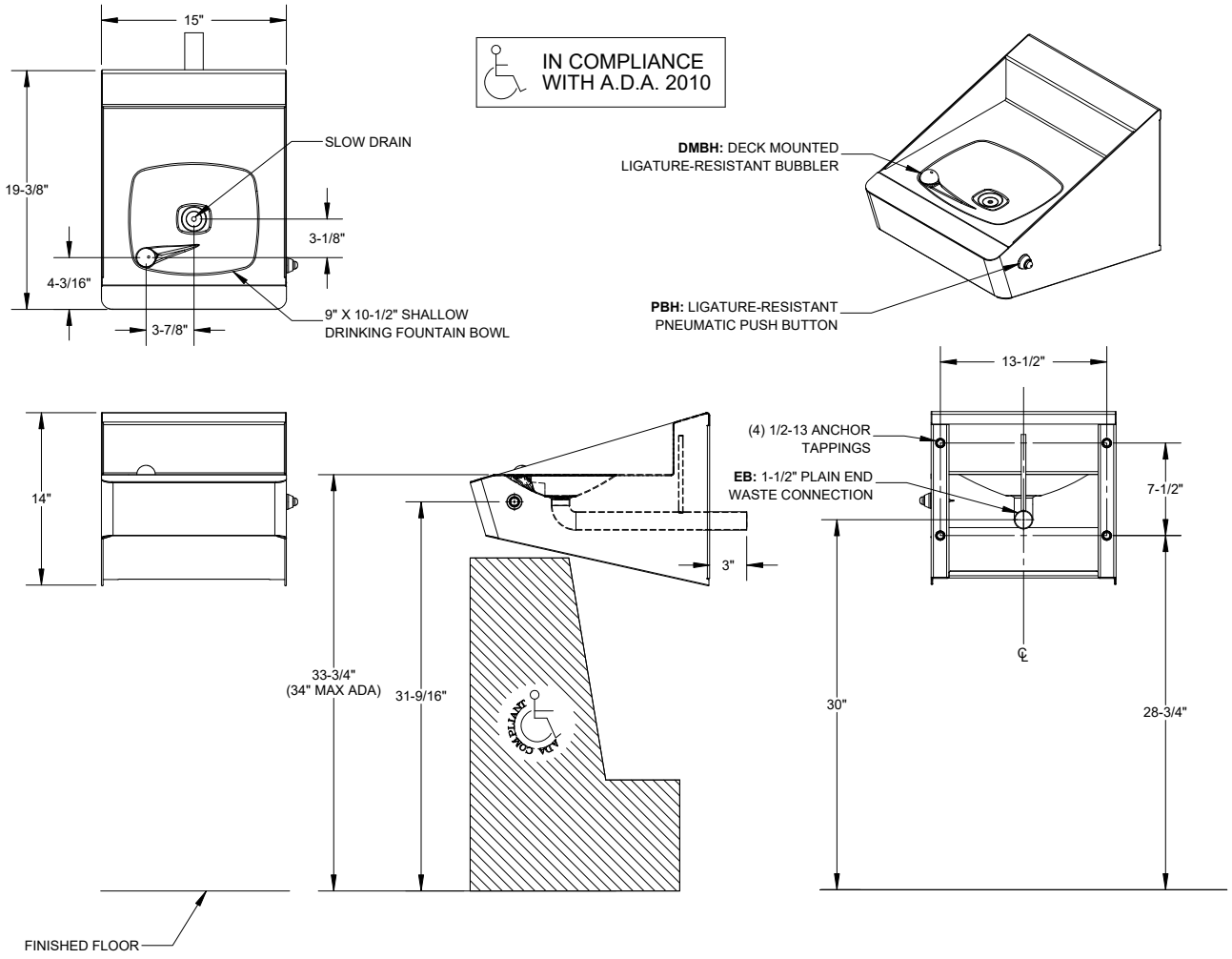
6.) Other Options:

❑ MT Wall Template
❑ WS Wall Sleeve (Requires Accessible Chase)
❑ Other: _____
❑ Other: _____

Approved For Manufacturing By: _____ Date: _____ Company: _____
Wall Thickness: _____ Wall Type: _____

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN

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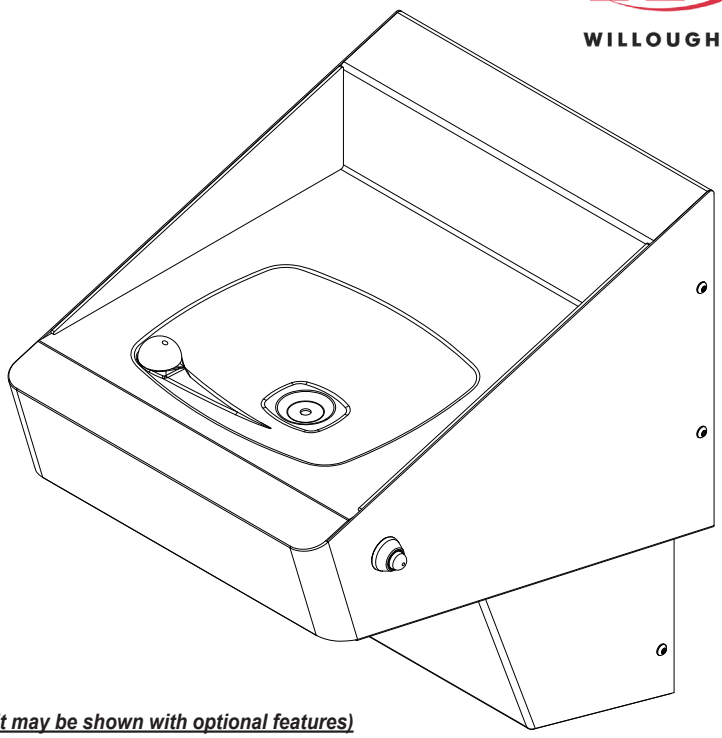
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WBDF-1519-HC-FA Ligature-resistant Front Access Stainless Steel Behavioral Drinking Fountain



(Unit may be shown with optional features)

IN COMPLIANCE WITH A.D.A. 2010

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Ligature-resistant Front Access Stainless Steel Behavioral Drinking Fountain with ligature-resistant bubbler, single temp. non-metering pneumatic valve, ligature-resistant pneumatic push button, and removable P-trap waste

Use the following Willoughby Model Number:
WBDF-1519-HC-FA-DMBH-PSL1-PBH-RPT

Recommended Specifications

Ligature-resistant Front Access Stainless Steel Behavioral Drinking Fountain shall be:
Willoughby Model No. **WBDF-1519-HC-FA**
(Select from model number and options list on next page)

Wall-hung angular profile fixture shall accommodate one user and is designed to minimize ligature points. Fixture shall be fabricated from 14GA./16GA. Type 304 stainless steel. The construction shall consist of an all-welded lavatory cabinet and all-welded trap enclosure, with exposed stainless surfaces polished to a #4 satin finish.

Standard drinking fountain shall include:
- Shallow bowl, 9" x 10-1/2"
- Stainless steel ligature-resistant bubbler
- Slow drain w/ air vent
- Removable P-trap (1-1/2" F.I.P.)
- Angular profile with sloped top
- Removable trap enclosure attached with security screws

Vandal Resistance/Safety Features:
The bubbler, push buttons, and slow drain are non-removable from the user-side and are designed to minimize ligature points. Valve, water supplies, and waste connection are concealed within the trap enclosure. All exposed fasteners shall be vandal-resistant security type screws.

ADA, ANSI, and CBC Compliant:
When the drinking fountain is mounted at the standard adult rim height for fountains, it is designed to comply with all applicable ADA, ANSI (Z124.3 and Z124.6), and CBC (2013, Ch. 11B) accessibility guidelines.

Mounting:
Anchoring shall be from the front with mounting plate with anchoring holes. Unit does not require chase area for installation and maintenance; proper backing and anchoring hardware for drinking fountain mounting provided by others.

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ WBDF-1519-HC-FA Ligature-resistant Front Access Stainless Steel Behavioral Drinking Fountain

2.) Bubbler Selection:

❑ DMBH Ligature-resistant Deck Mounted Bubbler (Standard)

3.) Valve Selection:

❑ PSL1 Single Temp. Pneumatic Non-metering (Standard)

4.) Push Button Selection:

❑ PBH Ligature-resistant Pneumatic Push Button (Standard)

5.) Drinking Fountain Waste:

❑ RPT Removable P-trap (Standard)

6.) Other Options:

❑ MT Wall Template

❑ Other: _____

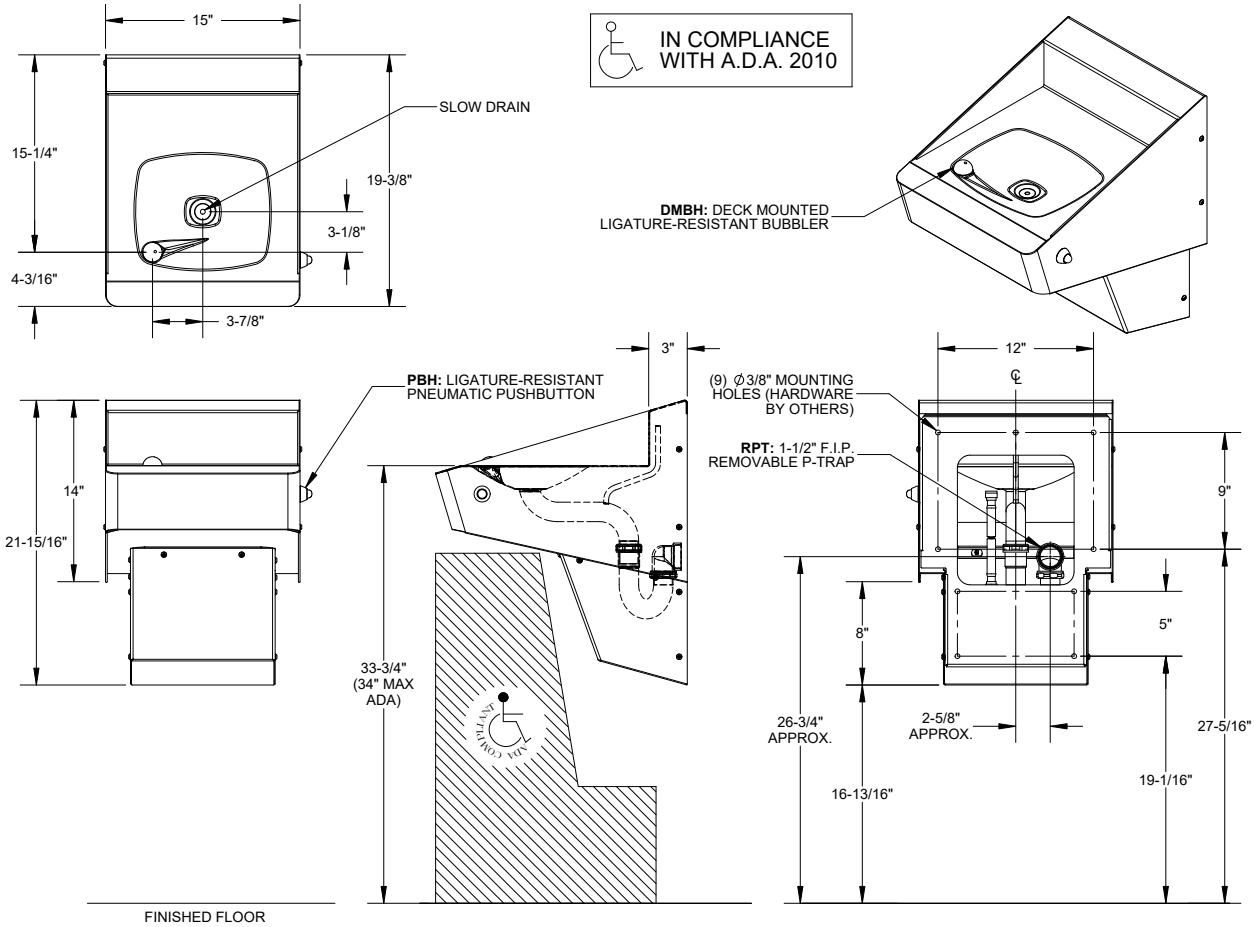
❑ Other: _____

Approved For Manufacturing By: _____ Date: _____ Company: _____

Wall Thickness: _____ Wall Type: _____

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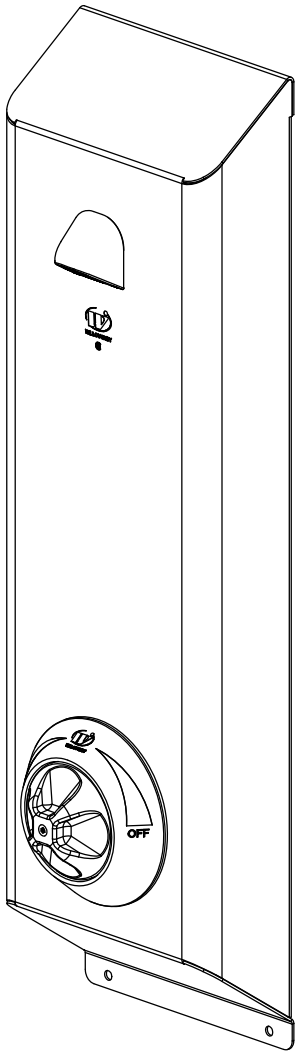
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Willoughby Industries - *Behavioral Health Products*

WILLOUGHBY

WBS Series
Ligature-resistant
Surface Mounted
Behavioral
Wall Shower



(Unit may be shown with optional features)

Recommended Specifications

Ligature-resistant Surface Mounted Behavioral Wall Shower shall be: Willoughby Model No. **WBS**
(Select from Model & Options list on next page)

Shower cabinet shall be fabricated from 16 gauge, Type 304 stainless steel, with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Shower valves and appropriate controls
  (from Valve Selection options)
- (LRSH) Ligature-resistant shower head,
  WaterSense Labeled 2.0 GPM flow rate
- Ligature-resistant cabinet with sloped top and bottom
- Z-clip mounting bracket

Anchoring shall be by Z-clip and bottom flange with anchoring hardware by others. Shower unit shall be factory assembled, tested for proper operation, and ready for installation by a contractor. Unit requires no chase area for installation and maintenance.

WaterSense Labeled for LRSH shower head fixtures.

To specify fixture and accessories, use the Model Number and Options page.
Example: To specify a Ligature-resistant Surface Mounted Behavioral Wall Shower with Ligature-resistant Temp/Pressure-Balancing Mixing Valve, and LRSH Ligature-resistant Shower Head

Use the following Willoughby Model Number:
WBS-TPLR-LRSH

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ WBS Ligature-resistant Surface Mounted Behavioral Wall Shower

2.) Valve Selection:

❑ NV No Valve
❑ PML1 Single Temp. Pneumatic Metering
❑ PML2 Dual Temp. Pneumatic Metering
❑ E1L1 Single Temp. Electronic (Pick Control)*
❑ E1L2 Dual Temp. Electronic (Pick Control)*
❑ TPLR Ligature-resistant Temp/Pressure-balancing Mixing Valve

3.) Push Button Selection:

Pneumatic or Electronic Valves Only:

❑ PBH Ligature-resistant Pneumatic Push Buttons
❑ PZPB Ligature-resistant Piezo Electronic Push Buttons*

4.) Flow Rates:

❑ 2.5 GPM (Standard) ❑ 2.0 GPM ❑ 1.5 GPM

5.) Electronic Control* (Must Use Electronic Push Button):

❑ WUSC-2200 ❑ WUSC-2400 ❑ Pneutronic ❑ WMS II

6.) Shower Head and Flow Rate Option:

❑ LRSH Ligature-resistant Shower Head, WaterSense Labeled, 2.0 GPM Flow Rate (Standard)
❑ CSH Ligature-resistant Shower Head

7.) Other Options:

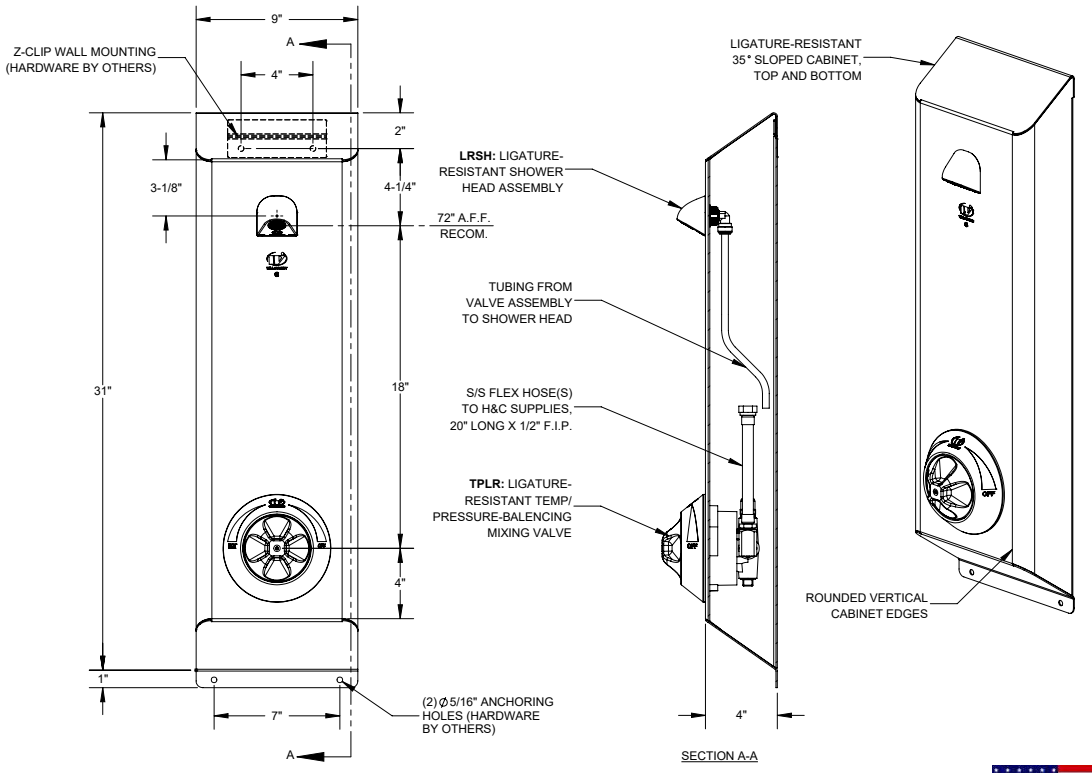
❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ TMV Inline Thermostatic Mixing Valve
❑ RD Recessed Mounted Soap Dish (Cabinet Mounted)
❑ RSD2 Recessed Soap Dish (In-Wall Mounted)
❑ PS Pipe Shroud (Wall Mounted, Specify Length): _____
❑ Other _____
❑ Other _____

*(Req. 110VAC power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By:_____ Date:_____ Company:_____
Wall Thickness: _____ Wall Type:_____

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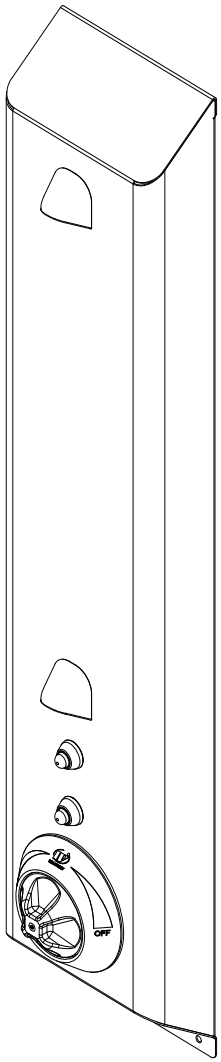
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Willoughby Industries - *Behavioral Health Products*

WBS-HCA-2HD Series Ligature-resistant Handicap Accessible Surface Mounted Behavioral Wall Shower w/(2) Fixed Shower Heads



(HCA) HANDICAP ACCESSIBLE

Recommended Specifications

Ligature-resistant Handicap Accessible Surface Mounted Behavioral Wall Shower w/(2) Fixed Shower Heads shall be: Willoughby Model No. **WBS-HCA-2HD** (Select from Model & Options list on next page)

Shower cabinet shall be fabricated from 16 gauge, Type 304 stainless steel, with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Shower valves and appropriate controls (from Valve Selection options)
- (2) (LRSH) Ligature-resistant shower heads, WaterSense Labeled 2.0 GPM flow rate
- Ligature-resistant sloped cabinet top and bottom
- Z-clip mounting bracket

Anchoring shall be by Z-clip and bottom flange with anchoring hardware by others. Shower unit shall be factory assembled, tested for proper operation, and ready for installation by a contractor. Unit requires no chase area for installation and maintenance.

WaterSense Labeled for LRSH shower head fixtures.

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Ligature-resistant Handicap Accessible Surface Mounted Behavioral Wall Shower w/(2) Fixed Shower Heads with Ligature-resistant Temp/Pressure-Balancing Mixing Valve with PML1-MA2 Manifold Diverter Valve Option and Ligature-resistant Push Buttons, and LRSH Ligature-resistant Shower Heads

Use the following Willoughby Model Number:
WBS-HCA-2HD-TPLR-PML1-MA2-PBH-LRSH

Handicap Accessible:
The WBS-HCA-2HD Behavioral Wall Shower will conform to most, but not all, ADA requirements.
(Compliance shall be subject to the requirements of the local code authority based on installation-specific details and is the responsibility of the installer.)

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ WBS-HCA-2HD Ligature-resistant Handicap Accessible Surface Mounted Behavioral Wall Shower w/(2) Fixed Shower Heads

2.) Valve Selection:

❑ NV No Valve
❑ PML1 Single Temp. Pneumatic Metering
❑ PML2 Dual Temp. Pneumatic Metering
❑ E1L1 Single Temp. Electronic (Pick Control)*
❑ E1L2 Dual Temp. Electronic (Pick Control)*
❑ TPLR Ligature-resistant Temp/Pressure-balancing Mixing Valve (TPLR) not available with (DVLR) diverter valve on WBS-HCA-2HD, See: **WBS-HCA-WH-2HD** shower instead)
❑ MA2 ***Valve Manifold Option*** *(Pneumatic or Electronic Valves Only):* ***(See the Manifold Option Page at the end of Catalog Section C14 for further information)***

3.) Diverter Valve Option:

❑ DVLR Ligature-resistant Diverter Valve (DVLR) not available with (TPLR) mixing valve on WBS-HCA-2HD, See: **WBS-HCA-WH-2HD** shower instead)
❑ PML1-MA2 Two Single Temp. Pneumatic Metering Valves (Used to divert water flow to either upper, lower, or both shower heads; for use with (TPLR) valve only)

4.) Push Button Selection: *Pneumatic or Electronic Valves Only:*

❑ PBH Ligature-resistant Pneumatic Push Buttons
❑ PZPB Ligature-resistant Piezo Electronic Push Buttons*

5.) Flow Rates:

❑ 2.5 GPM (Standard) ❑ 2.0 GPM ❑ 1.5 GPM

6.) Electronic Control* (Must Use Electronic Push Button):

❑ WUSC-2200 ❑ WUSC-2400 ❑ Pneutronic ❑ WMS II

7.) Shower Head and Flow Rate Option:

❑ LRSH Dual Fixed Ligature-resistant Shower Heads, WaterSense Labeled, 2.0 GPM Flow Rate (Standard)
❑ CSH Dual Fixed Ligature-resistant Shower Heads

8.) Other Options:

❑ TF24H Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P Plug-in Transformer, 110VAC to 24VAC*
❑ TMV Inline Thermostatic Mixing Valve
❑ RD Recessed Mounted Soap Dish**
❑ RSD2 Recessed Soap Dish (In-Wall Mounted)
❑ PS Pipe Shroud (Specify Length):_____
❑ Other _____

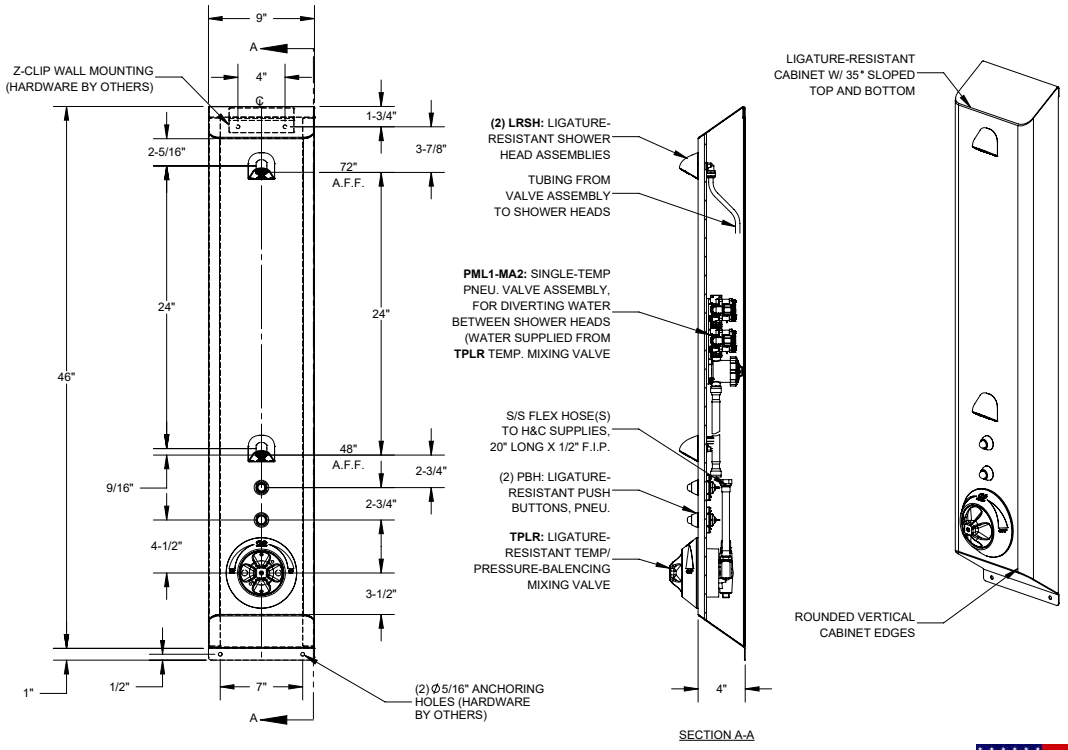
*(Req. 110VAC power through ground fault interrupter (GFCI) receptacle)

(Cabinet-mounted Recessed Soap Dish (RD) is not available with (TPLR) Mixing Valve or (DVLR) Diverter Valve. See: **WBS-HCA-WH-2HD Wall Shower. In-Wall Mounted Recessed Soap Dish (RSD2) is an available option.)

Approved For Manufacturing By:_____ Date:_____ Company:_____
Wall Thickness: _____ Wall Type:_____

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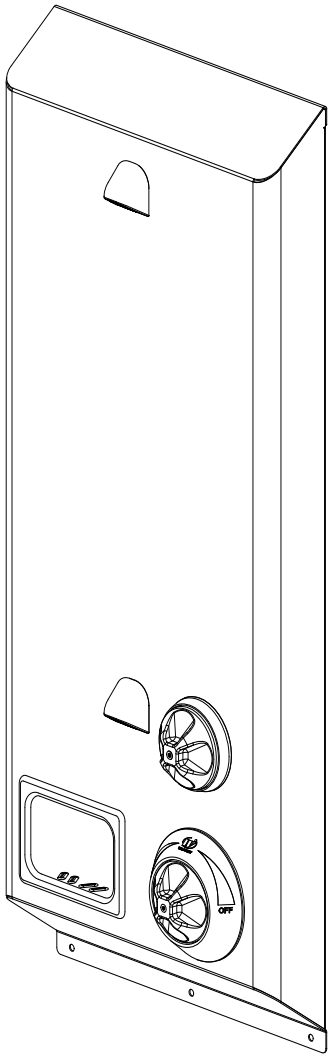
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Willoughby Industries - *Behavioral Health Products*

WBS-HCA-WH-2HD Series
Ligature-resistant
Wide Housing
Handicap Accessible
Surface Mounted
Behavioral Wall Shower
w/(2) Fixed Shower Heads



(HCA) HANDICAP ACCESSIBLE

Recommended Specifications

Ligature-resistant Wide Housing Handicap Accessible Surface Mounted Behavioral Wall Shower w/(2) Fixed Shower Heads shall be:
Willoughby Model No. **WBS-HCA-WH-2HD**
(Select from Model & Options list on next page)

Shower cabinet shall be fabricated from 16 gauge, Type 304 stainless steel, with exposed stainless surfaces polished to a #4 satin finish.

Standard equipment shall include:
- Shower valves and appropriate controls (from Valve Selection options)
- (2) (LRSH) Ligature-resistant shower heads, WaterSense Labeled 2.0 GPM flow rate
- Ligature-resistant sloped cabinet top and bottom
- Z-clip mounting bracket

Anchoring shall be by Z-clip and bottom flange with anchoring hardware by others. Shower unit shall be factory assembled, tested for proper operation, and ready for installation by a contractor. Unit requires no chase area for installation and maintenance.

WaterSense Labeled for LRSH shower head fixtures.

RIGHT HAND CONTROL FIXTURE SHOWN
(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a Ligature-resistant Wide Housing Handicap Accessible Surface Mounted Behavioral Wall Shower w/(2) Fixed Shower Heads with Right Hand Controls, Ligature-resistant Temp/Pressure-Balancing Mixing Valve, Ligature-resistant Diverter Valve, LRSH Ligature-resistant Shower Heads, and Recessed Soap Dish

Use the following Willoughby Model Number:
WBS-HCA-WH-2HD-R-TPLR-DVLR-LRSH-RD

Handicap Accessible:
The WBS-HCA-WH-2HD Behavioral Wall Shower will conform to most, but not all, ADA requirements.
(Compliance shall be subject to the requirements of the local code authority based on installation-specific details and is the responsibility of the installer.)

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MODEL NUMBER AND OPTIONS:

1.) Base Model Number:

❑ WBS-HCA-WH-2HD — Ligature-resistant Wide Housing Handicap Accessible Surface Mounted Behavioral Wall Shower w/(2) Fixed Shower Heads

2.) Panel Orientation (Must Specify):

❑ L — Left Hand Controls
❑ R — Right Hand Controls

3.) Valve Selection:

❑ NV — No Valve
❑ PML1 — Single Temp. Pneumatic Metering
❑ PML2 — Dual Temp. Pneumatic Metering
❑ E1L1 — Single Temp. Electronic (Pick Control)*
❑ E1L2 — Dual Temp. Electronic (Pick Control)*
❑ TPLR — Ligature-resistant Temperature/Pressure-Balancing Mixing Valve

4.) Diverter Valve:

❑ DVLR — Ligature-resistant Diverter Valve
❑ PML1-MA2 — Two Single Temp. Pneumatic Metering Valves in Lieu of Diverter Valve

5.) Push Button Selection: *Pneumatic or Electronic Valves Only:*

❑ PBH — Ligature-resistant Pneumatic Push Buttons
❑ PZPB — Ligature-resistant Piezo Electronic Push Buttons*

6.) Flow Rates:

❑ 2.5 GPM (Standard) ❑ 2.0 GPM ❑ 1.5 GPM

7.) Electronic Control* (Must Use Electronic Push Button):

❑ WUSC-2200 ❑ WUSC-2400 ❑ Pneutronic ❑ WMS II

8.) Shower Head and Flow Rate Option:

❑ LRSH — Dual Fixed Ligature-resistant Shower Heads, WaterSense Labeled, 2.0 GPM Flow Rate (Standard)
❑ CSH — Dual Fixed Ligature-resistant Shower Heads

9.) Other Options:

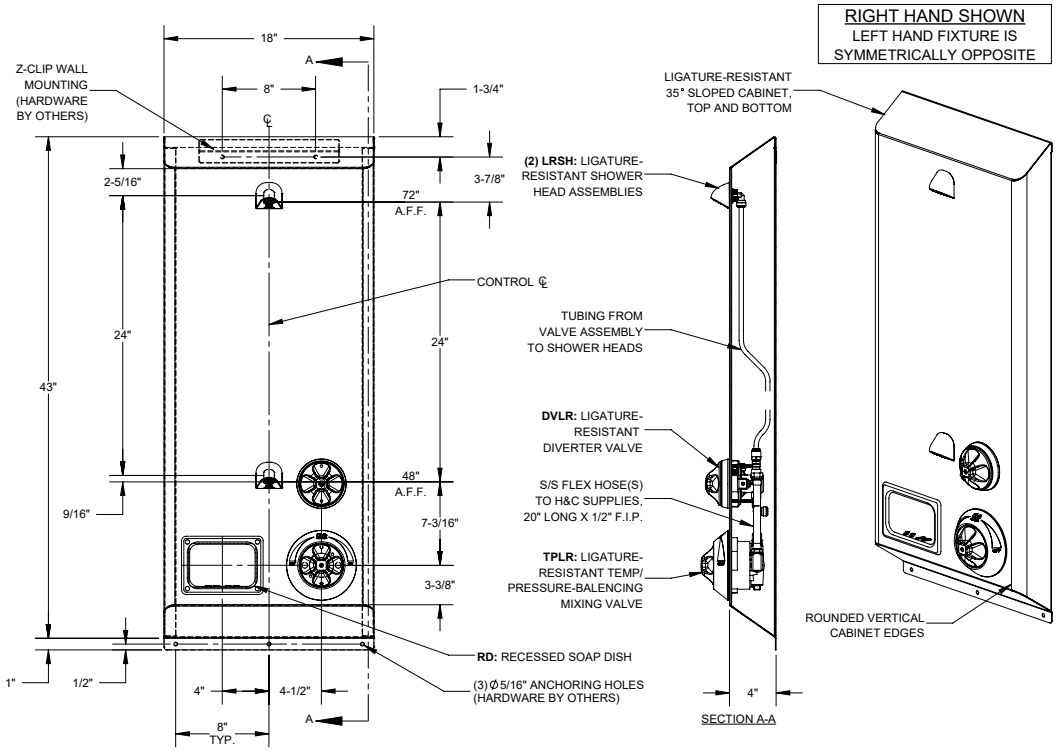
❑ TF24H — Hard-wired Transformer, 110VAC to 24VAC*
❑ TF24P — Plug-in Transformer, 110VAC to 24VAC*
❑ TMV — Inline Thermostatic Mixing Valve
❑ RD — Recessed Mounted Soap Dish (Cabinet Mounted)
❑ RSD2 — Recessed Soap Dish (In-Wall Mounted)
❑ PS — Pipe Shroud (Wall Mounted, Specify Length): _____
❑ Other _____
❑ Other _____

*(Req. 110VAC power through ground fault interrupter (GFCI) receptacle)

Approved For Manufacturing By:_____ Date:_____ Company:_____
Wall Thickness: _____ Wall Type:_____

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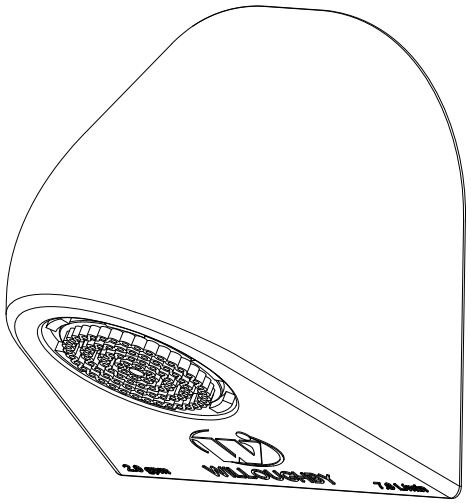
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WILLOUGHBY

LRSH
Ligature-resistant
High Efficiency
Shower Head

Certified by NSF International



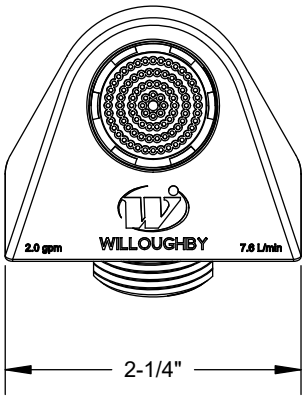
Recommended Specifications

Willoughby model LRSH Ligature-resistant, High Efficiency Shower Head shall be fixed type, with chrome-plated, die-cast construction. The vandal resistant shower head shall be rear mounted with no visible fasteners. The shower head shall have a 30° angle of spray, with 2.0 GPM maximum flow rate at 80psi and 1.5 GPM minimum flow rate at 45psi. The inlet connection shall be threaded for 3/8" F.I.P.

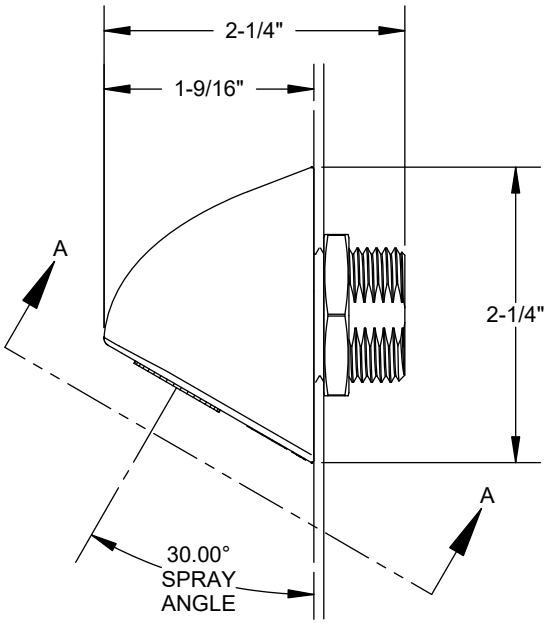
The LRSH features a concealed vandal resistant removable insert, the insert can be removed and installed with a specifically designed key tool. The insert provides a non-aerated (laminar flow) soft water stream w/ smart lime cleaning technology. The LRSH has a rounded and tapered design to minimize any potential ligature points, and shall meet the requirements of ASME A112.18.1 / CSA B125.1 and WaterSense Specification for Showerheads. Shower head shall be for use with automatic compensating valves rated at 1.5 gpm (6 L/ minute) minimum or less.

STANDARD:

❑ WaterSense Labeled, 2.0 GPM Max Flow Rate



VIEW A-A



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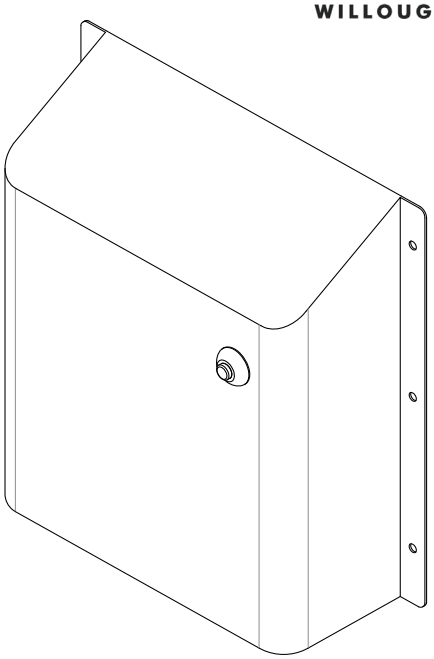
Willoughby Industries - *Behavioral Health Products*

LRFVC-ADA
Ligature-resistant
ADA Compliant
Flush Valve Cover

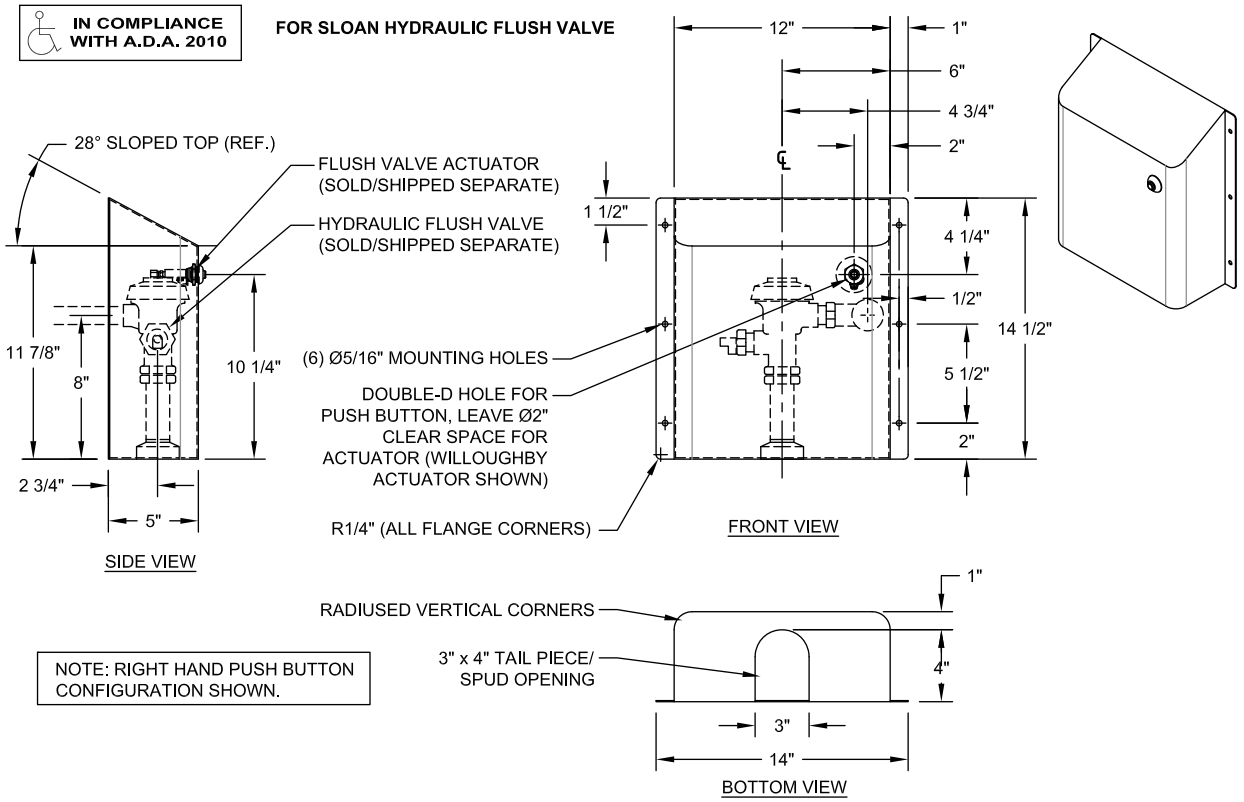
Stainless steel ligature-resistant ADA compliant flush valve cover shall be:
Willoughby Option No. **LRFVC-ADA**

Flush valve cover shall be fabricated from 14 GA, Type 304 stainless steel with exposed stainless steel surfaces polished to a #3 satin finish. Flush valve cover is supplied with Ø5/16" mounting holes, anchoring hardware is provided by others. Flush valve cover shall have a ligature-resistant sloped top, radiused vertical corners, single flush valve push button hole for right or left hand toilet.

Options:
- ❑ DC Decorator Color (Fixture exterior only- White)
- ❑ For use with Willoughby push button actuator (double 'D' hole required)
- ❑ For use with Sloan push button actuator (Ø1-1/2" hole required)
- ❑ For use with another push button actuator (specify hole size:_____)
- ❑ Left hand pushbutton location
- ❑ Right hand pushbutton location



SHOWN WITH WILLOUGHBY 600317PM PUSH BUTTON



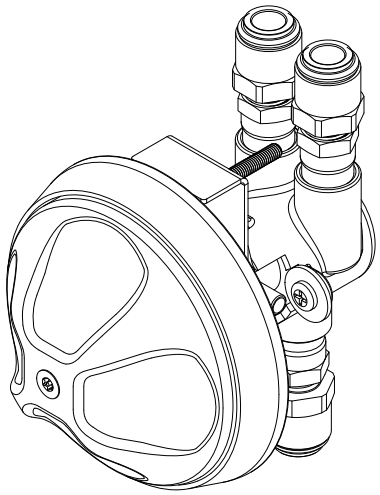
WARNING: Cancer and Reproductive Harm
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visit our website at www.willoughby-ind.com
5105 West 78th Street ● Indianapolis, IN. 46268
(317) 875-0830 ● Fax: (317) 875-0837 ● (800) 428-4065

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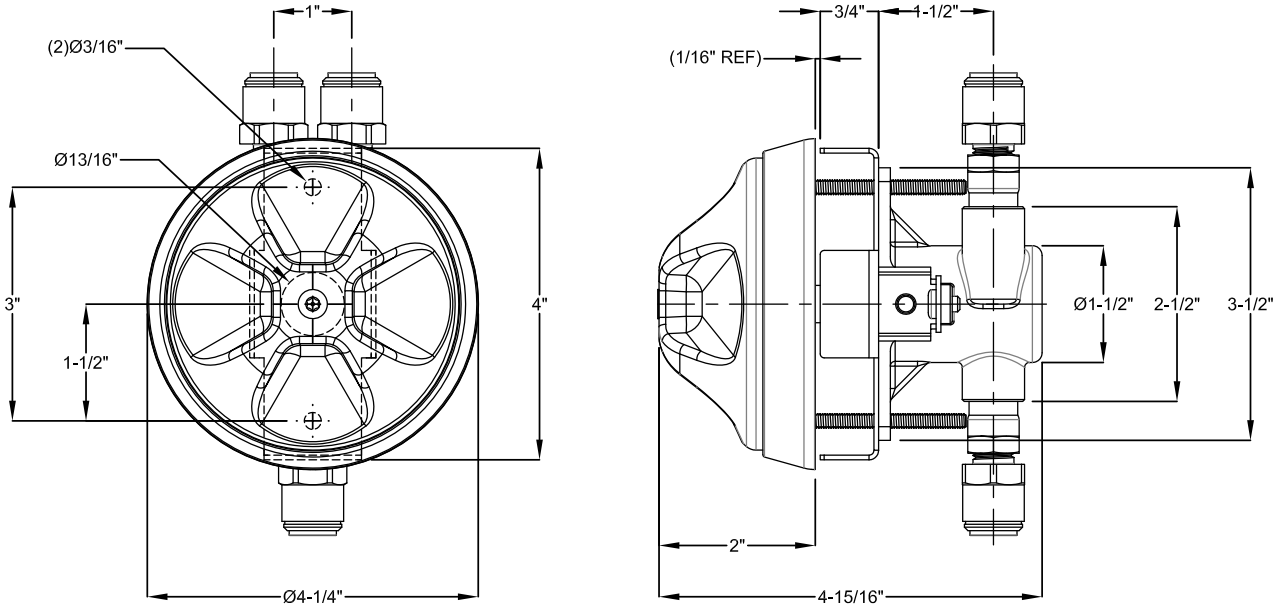
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DVLR
Ligature-resistant
Diverter Valve



Recommended Specifications

Willoughby model DVLR Ligature-resistant, Diverter Valve shall be chrome-plated, die-cast construction. The vandal resistant shower diverter valve shall be rear mounted with one safety screw fastener visible. The shower diverter valve shall have a recommended operational water pressure of 35 psi minimum and 70 psi maximum. The inlet connection shall be 3/8" P.T.C. and the outlet connections shall be 3/8" P.T.C.



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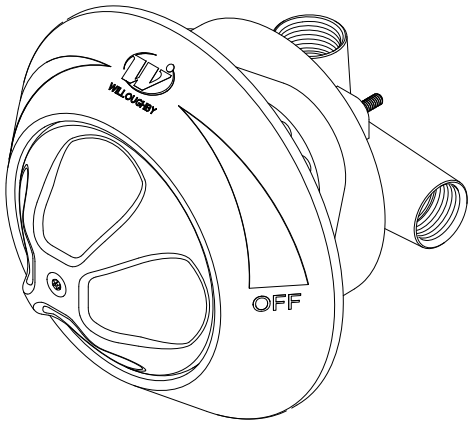
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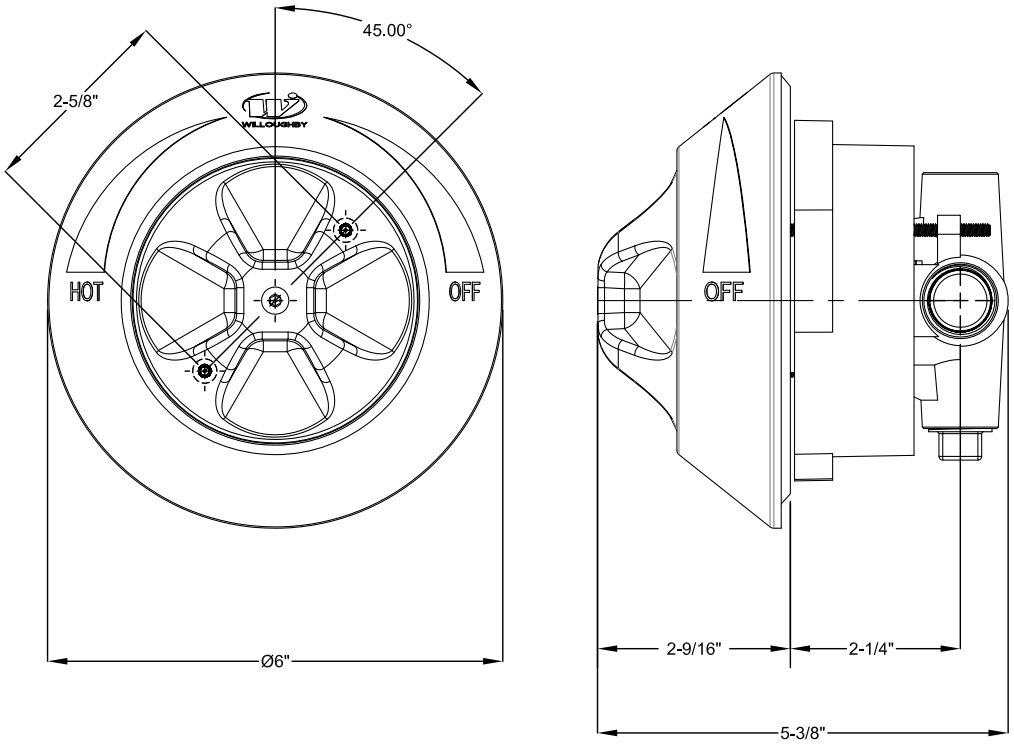
Willoughby Industries - *Behavioral Health Products*

TPLR
Ligature-resistant
Mixing Valve



Recommended Specifications

Willoughby model TPLR Ligature-resistant, Temperature and Pressure Mixing Valve shall be chrome-plated, die-cast construction. The vandal resistant shower mixing valve shall be rear mounted with one safety screw fastener visible. The shower mixing valve shall have a recommended operational water pressure of 35 psi minimum and 70 psi maximum. The inlet connections shall be 3/8" M.P.T. and the outlet connection shall be 3/8" M.P.T.



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