

Project Manual

**Bull Run Park Bath House #2
ADA Renovations
Bull Run Regional Park
Centreville, Virginia 20121**

For

**NOVA Parks
Northern Virginia Regional Park Authority
5400 OX Road
Fairfax Station, VA 22039**

**Frank V. Sturgeon, AIA
A Design Group, LLC
Art, Architecture & Engineering**

**2787 Hill Road, VA 22181
703-938-5226**

October 8, 2019

SECTION 033000 - CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes cast-in-place concrete, including formwork, reinforcement, concrete materials, mixture design, placement procedures, and finishes.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. LEED Submittals:
 - 1. Product Data for Credit MR 4: For products having recycled content, documentation indicating percentages by weight of postconsumer and preconsumer recycled content. Include statement indicating cost for each product having recycled content.
 - 2. Product Data for Credit IEQ 4.3: For curing and sealing compounds, documentation including printed statement of VOC content.
 - 3. Design Mixtures for Credit ID 1.1: For each concrete mixture containing fly ash as a replacement for portland cement or other portland cement replacements, and for equivalent concrete mixtures that do not contain portland cement replacements.
- C. Design Mixtures: For each concrete mixture.
- D. Steel Reinforcement Shop Drawings: Placing drawings that detail fabrication, bending, and placement.
- E. Formwork Shop Drawings: Prepared by or under the supervision of a qualified professional engineer detailing fabrication, assembly, and support of formwork.

1.3 INFORMATIONAL SUBMITTALS

- A. Welding certificates.
- B. Material certificates.
- C. Material test reports.
- D. Floor surface flatness and levelness measurements.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C 94/C 94M requirements for production facilities and equipment.
 - 1. Manufacturer certified according to NRMCA's "Certification of Ready Mixed Concrete Production Facilities."

Bull run Bath House #2 ADA Renovations

- B. Testing Agency Qualifications: An independent agency, acceptable to authorities having jurisdiction, qualified according to ASTM C 1077 and ASTM E 329 for testing indicated.
- C. Welding Qualifications: Qualify procedures and personnel according to AWS D1.4/D 1.4M, "Structural Welding Code - Reinforcing Steel."
- D. ACI Publications: Comply with the following unless modified by requirements in the Contract Documents:
 - 1. ACI 301, "Specifications for Structural Concrete,"
 - 2. ACI 117, "Specifications for Tolerances for Concrete Construction and Materials."
- E. Concrete Testing Service: Engage a qualified independent testing agency to perform material evaluation tests and to design concrete mixtures.
- F. Preinstallation Conference: Conduct conference at Project Site

PART 2 - PRODUCTS

2.1 FORM-FACING MATERIALS

- A. Smooth-Formed Finished Concrete: Form-facing panels that will provide continuous, true, and smooth concrete surfaces. Furnish in largest practicable sizes to minimize number of joints.
- B. Rough-Formed Finished Concrete: Plywood, lumber, metal, or another approved material. Provide lumber dressed on at least two edges and one side for tight fit.

2.2 STEEL REINFORCEMENT

- A. Recycled Content of Steel Products: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 25.
- B. Reinforcing Bars: ASTM A 615/A 615M, Grade 60, deformed.
 - 1. Galvanized Reinforcing Bars: ASTM A 767/A 767M, Class I zinc coated after fabrication and bending.
- C. Plain-Steel Welded Wire Reinforcement: ASTM A 185/A 185M, plain, fabricated from as-drawn steel wire into flat sheets.
- D. Deformed-Steel Welded Wire Reinforcement: ASTM A 497/A 497M, flat sheet.
- E. Galvanized-Steel Welded Wire Reinforcement: ASTM A 185/A 185M, plain, fabricated from galvanized-steel wire into flat sheets.
- F. Bar Supports: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars and welded wire reinforcement in place. Manufacture bar supports from steel wire, plastic, or precast concrete according to CRSI's "Manual of Standard Practice."

2.3 CONCRETE MATERIALS

Bull run Bath House #2 ADA Renovations

- A. Cementitious Material: Use the following cementitious materials, of the same type, brand, and source, throughout Project:
 - 1. Portland Cement: ASTM C 150, Type I
 - a. Fly Ash: ASTM C 618, Class F
 - b. Ground Granulated Blast-Furnace Slag: ASTM C 989, Grade 100 or 120.
 - 2. Blended Hydraulic Cement: ASTM C 595,
- B. Normal-Weight Aggregates: ASTM C 33, graded.
 - 1. Maximum Coarse-Aggregate Size: 3/4 inch nominal.
 - 2. Fine Aggregate: Free of materials with deleterious reactivity to alkali in cement.
- C. Lightweight Aggregate: ASTM C 330, 3/8-inch nominal maximum aggregate size.
- D. Water: ASTM C 94/C 94M and potable.

2.4 ADMIXTURES

- A. Air-Entraining Admixture: ASTM C 260.
- B. Chemical Admixtures: Provide admixtures certified by manufacturer to be compatible with other admixtures and that will not contribute water-soluble chloride ions exceeding those permitted in hardened concrete. Do not use calcium chloride or admixtures containing calcium chloride.
 - 1. Water-Reducing Admixture: ASTM C 494/C 494M, Type A.
 - 2. Retarding Admixture: ASTM C 494/C 494M, Type B.

2.5 VAPOR RETARDERS

2.6 RELATED MATERIALS

- A. Expansion- and Isolation-Joint-Filler Strips: ASTM D 1751, asphalt-saturated cellulosic fiber [or] ASTM D 1752, cork or self-expanding cork.

2.7 CONCRETE MIXTURES

- A. Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, according to ACI 301.
- B. Cementitious Materials: Use fly ash, pozzolan, ground granulated blast-furnace slag, and silica fume as needed to reduce the total amount of portland cement, which would otherwise be used, by not less than 40 percent.
- C. Proportion normal-weight concrete mixture as follows:
 - 1. Minimum Compressive Strength: 3000 psi at 28 days.
 - 2. Maximum Water-Cementitious Materials Ratio: 0.50
 - 3. Slump Limit: 4 inches for concrete with verified slump

Bull run Bath House #2 ADA Renovations

4. Air Content: 5.5 nominal maximum aggregate size.

2.8 FABRICATING REINFORCEMENT

- A. Fabricate steel reinforcement according to CRSI's "Manual of Standard Practice."

2.9 CONCRETE MIXING

- A. Ready-Mixed Concrete: Measure, batch, mix, and deliver concrete according to ASTM C 94/C 94M and ASTM C 1116/C 1116M, and furnish batch ticket information.
 1. When air temperature is between 85 and 90 deg F , reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above 90 deg F , reduce mixing and delivery time to 60 minutes.

PART 3 - EXECUTION

3.1 FORMWORK

- A. Design, erect, shore, brace, and maintain formwork, according to ACI 301, to support vertical, lateral, static, and dynamic loads, and construction loads that might be applied, until structure can support such loads.
- B. Construct formwork so concrete members and structures are of size, shape, alignment, elevation, and position indicated, within tolerance limits of ACI 117.
- C. Chamfer exterior corners and edges of permanently exposed concrete.

3.2 EMBEDDED ITEMS

- A. Place and secure anchorage devices and other embedded items required for adjoining work that is attached to or supported by cast-in-place concrete. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.

3.3 VAPOR RETARDERS

- A. Sheet Vapor Retarders: Place, protect, and repair sheet vapor retarder according to ASTM E 1643 and manufacturer's written instructions.
 1. Lap joints 6 inches (150 mm) and seal with manufacturer's recommended tape.

3.4 STEEL REINFORCEMENT

- A. General: Comply with CRSI's "Manual of Standard Practice" for placing reinforcement.
 1. Do not cut or puncture vapor retarder. Repair damage and reseal vapor retarder before placing concrete.

3.5 JOINTS

- A. General: Construct joints true to line with faces perpendicular to surface plane of concrete.
- B. Construction Joints: Install so strength and appearance of concrete are not impaired, at locations indicated or as approved by Architect.
- C. Contraction Joints in Slabs-on-Grade: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of concrete thickness as follows:
 - 1. Grooved Joints: Form contraction joints after initial floating by grooving and finishing each edge of joint to a radius of 1/8 inch. Repeat grooving of contraction joints after applying surface finishes. Eliminate groover tool marks on concrete surfaces.
 - 2. Sawed Joints: Form contraction joints with power saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut 1/8-inch wide joints into concrete when cutting action will not tear, abrade, or otherwise damage surface and before concrete develops random contraction cracks.
- D. Isolation Joints in Slabs-on-Grade: After removing formwork, install joint-filler strips at slab junctions with vertical surfaces, such as column pedestals, foundation walls, grade beams, and other locations, as indicated.

3.6 CONCRETE PLACEMENT

- A. Before placing concrete, verify that installation of formwork, reinforcement, and embedded items is complete and that required inspections have been performed.
- B. Deposit concrete continuously in one layer or in horizontal layers of such thickness that no new concrete will be placed on concrete that has hardened enough to cause seams or planes of weakness. If a section cannot be placed continuously, provide construction joints as indicated. Deposit concrete to avoid segregation.
 - 1. Consolidate placed concrete with mechanical vibrating equipment according to ACI 301.
- C. Cold-Weather Placement: Comply with ACI 306.1.
- D. Hot-Weather Placement: Comply with ACI 301.

3.7 FINISHING FORMED SURFACES

- A. Rough-Formed Finish: As-cast concrete texture imparted by form-facing material with tie holes and defects repaired and patched. Remove fins and other projections that exceed specified limits on formed-surface irregularities.
 - 1. Apply to concrete surfaces not exposed to public view.
- B. Smooth-Formed Finish: As-cast concrete texture imparted by form-facing material, arranged in an orderly and symmetrical manner with a minimum of seams. Repair and patch tie holes and defects. Remove fins and other projections that exceed specified limits on formed-surface irregularities.
 - 1. Apply to concrete surfaces exposed to public view, to be covered with a coating or covering material applied directly to concrete.

Bull run Bath House #2 ADA Renovations

- C. Related Unformed Surfaces: At tops of walls, horizontal offsets, and similar unformed surfaces adjacent to formed surfaces, strike off smooth and finish with a texture matching adjacent formed surfaces. Continue final surface treatment of formed surfaces uniformly across adjacent unformed surfaces unless otherwise indicated.

3.8 FINISHING FLOORS AND SLABS

- A. General: Comply with ACI 302.1R recommendations for screeding, restraightening, and finishing operations for concrete surfaces. Do not wet concrete surfaces.
- B. Scratch Finish: While still plastic, texture concrete surface that has been screeded and bull-floated or darbied. Use stiff brushes, brooms, or rakes to produce a profile amplitude of 1/4 inch in one direction.
- C. Trowel Finish: After applying float finish, apply first troweling and consolidate concrete by hand or power-driven trowel. Continue troweling passes and restraighten until surface is free of trowel marks and uniform in texture and appearance. Grind smooth any surface defects that would telegraph through applied coatings or floor coverings.
- D. Trowel and Fine-Broom Finish: Apply a first trowel finish to surfaces indicated (Side Walk) While concrete is still plastic, slightly scarify surface with a fine broom.
 - 1. Comply with flatness and levelness tolerances for trowel-finished floor surfaces.
- E. Broom Finish: Apply a broom finish to exterior concrete platforms, steps, ramps, and elsewhere as indicated.

3.9 CONCRETE PROTECTING AND CURING

- A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and ACI 301 for hot-weather protection during curing.
- B. Evaporation Retarder: Apply evaporation retarder to unformed concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete, but before float finishing.
- C. Cure concrete according to ACI 308.1, by one or a combination of the following methods:

3.10 CONCRETE SURFACE REPAIRS

- A. Defective Concrete: Repair and patch defective areas when approved by Architect. Remove and replace concrete that cannot be repaired and patched to Architect's approval.

3.11 FIELD QUALITY CONTROL

- A. Testing and Inspecting: Owner will engage a qualified testing and inspecting agency to perform field tests and inspections and prepare test reports.

END OF SECTION 033000

SECTION 102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Public-use washroom accessories.
2. Public-use shower room accessories.
3. Warm-air dryers.

B. Owner-Furnished Material and General Contractor Installed: Toilet Paper Dispensers, Liquid Soap Dispensers, Electric hand Dryers.

C. See Cut Sheets:

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product indicated.

B. Product Schedule: Indicating types, quantities, sizes, and installation locations by room of each accessory required.

1. Identify locations using room designations indicated.
2. Identify products using designations indicated.

1.3 INFORMATIONAL SUBMITTALS

A. Warranty: Sample of special warranty.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance data.

1.5 QUALITY ASSURANCE

A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

Bull Run Bath House #2 ASDA Renovations

1.6 WARRANTY

- A. Special Mirror Warranty: Manufacturer's standard form in which manufacturer agrees to replace mirrors that develop visible silver spoilage defects and that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: 5 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PUBLIC-USE WASHROOM ACCESSORIES

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following]:
- B. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:
 - 1. American Specialties, Inc.
 - 2. Bobrick Washroom Equipment, Inc.
 - 3. Bradley Corporation.
- C. Toilet Tissue (Roll) Dispenser: Furnished by Owner installed by General Contractor
- D. Toilet Tissue (Jumbo-Roll) Dispenser: Furnisher by owner installed by General Contractor
- E. Waste Receptacle By Owner
- F. Liquid-Soap Dispenser: Furnisher by Owner installed By General Contractor
- G. Grab Bar Refer to drawings
 - 1. Basis-of-Design Product: Bobrick
 - 2. Mounting: Flanges with exposed fasteners.
 - 3. Material: Stainless steel, 0.05 inch thick.
 - a. Finish: Smooth, No. 4 finish satin on ends and slip-resistant texture in grip area.
 - 4. Outside Diameter: 1-1/4 inches .
 - 5. Configuration and Length: As indicated on Drawings
- H. Sanitary-Napkin Disposal Unit Bobrick
- I. Seat-Cover Dispenser Bobrick
- J. Mirror Unit Bobrick
 - 1. Integral Shelf: 5 inches deep.

Bull Run Bath House #2 ASDA Renovations

2.2 PUBLIC-USE SHOWER ROOM ACCESSORIES

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
- B. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:
 - 1. American Specialties, Inc.
 - 2. Bobrick Washroom Equipment, Inc.
 - 3. Bradley Corporation.
- C. Shower Curtain Rod
 - 1. Basis-of-Design Product:
 - 2. Description: 1-inch OD; fabricated from nominal 0.0375-inch- thick stainless steel
Mounting Flanges: Stainless-steel flanges designed for exposed fasteners Finish: No. 4 (satin).
- D. Soap Dish
 - 1. Basis-of-Design Product: Bobrick
 - 2. Description: [Without washcloth bar.
 - 3. MountingSurface mounted.
 - 4. Material and Finish: Stainless steel, No. 4 finish (satin).
- E. Robe Hook :
 - 1. Basis-of-Design Product: Bobrick
 - 2. Description: Double-prong unit.
 - 3. Material and Finish: Stainless steel, No. 4 finish (satin).

2.3 WARM-AIR DRYERS—Owner furnished General Contractor installed.

- 1. Mounting:Surface mounted

2.4 UNDERLAVATORY GUARDS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
- B. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:
 - 1. Plumberex Specialty Products, Inc.
 - 2. Truebro by IPS Corporation.
 - 3. Or Equql
- C. Underlavatory Guard

Bull Run Bath House #2 ASDA Renovations

1. Basis-of-Design Product:
2. Description: Insulating pipe covering for supply and drain piping assemblies that prevent direct contact with and burns from piping; allow service access without removing coverings.
3. Material and Finish: Antimicrobial, molded plastic, white.

2.5 FABRICATION

- A. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of six keys to Owner's representative.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install accessories according to manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.
- B. Grab Bars: Install to withstand a downward load of at least 250 lbf, when tested according to ASTM F 446.

END OF SECTION 102800

SECTION 102113 - TOILET COMPARTMENTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Plastic-laminate-faced toilet compartments configured as toilet enclosures and urinal screens.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product indicated.

B. LEED Submittals:

1. Product Data for Credit IEQ 4.4: For particleboard, documentation indicating that product contains no urea formaldehyde.
2. Laboratory Test Reports for Credit IEQ 4: For documentation indicating that products comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."

C. Shop Drawings: For toilet compartments. Include plans, elevations, sections, details, and attachments to other work.

D. Samples for each exposed product and for each color and texture specified.

1.3 INFORMATIONAL SUBMITTALS

A. Product certificates.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance data.

1.5 QUALITY ASSURANCE

A. Surface-Burning Characteristics: As determined by testing identical products according to ASTM E 84, or another standard acceptable to authorities having jurisdiction, by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

1. Flame-Spread Index: 75 or less.
2. Smoke-Developed Index: 450 or less.

Bull Run Bath House #2 ADA Renovations

- B. Regulatory Requirements: Comply with applicable provisions in "Americans with Disabilities Act (ADA) and Architectural Barriers Act (ABA) Accessibility Guidelines for Buildings and Facilities for toilet compartments designated as accessible.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Entrance-Screen Style: Overhead braced Ceiling hung ceiling anchored—anchored on steel channel---see drawings.

2.2 PLASTIC-LAMINATE-FACED UNITS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following] [available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following]:
- B. Basis-of-Design Product: Subject to compliance with requirements, provide product name or comparable product by one of the following:
 - 1. American Sanitary Partition Corporation.
 - 2. Bobrick Washroom Equipment, Inc.
 - 3. Bradley Corporation; Mills Partitions.
- C. Toilet-Enclosure Style: Overhead braced Ceiling hung.
- D. Urinal-Screen Style: Wall hung.
- E. Door, Panel: One-piece, plastic-laminate facing sheets pressure laminated to core material without splices or joints in facings or cores; with laminate stainless-steel edge trim applied to edges before faces to seal edges and prevent laminate from being pried loose. Seal exposed core material at cutouts to protect core from moisture
 - 1. Core Material: Particleboard.
 - 2. Doors and Panels: Finished to not less than Match Existing and 1 inch)] thick.
 - 3. Pilasters: Provide construction to comply with [one of the following:
 - a. Finished to not less than 1-1/4 inches (32 mm) thick and with internal, nominal 0.134-inch- (3.42-mm-) thick, steel-sheet reinforcement.
 - b. Finished to not less than 1 inch (25 mm) thick and with internal, nominal 0.120-inch- (3.04-mm-) thick, steel-sheet reinforcement.
- F. Brackets (Fittings):
 - 1. Stirrup Type: Ear or U-brackets, chrome-plated zamac
 - 2. Full-Height (Continuous) Type: Manufacturer's standard design;
- G. Plastic-Laminate Finish: One color and pattern in each room.
 - 1. Color and Pattern: As selected by Architect from manufacturer's full range

Bull Run Bath House #2 ADA Renovations

2. Full-Height (Continuous) Type: Manufacturer's standard design
 - a. Polymer Color and Pattern: Matching panel, as indicated by manufacturer's designations, panel, as selected by Architect from manufacturer's full range

2.3 ACCESSORIES

- A. Hardware and Accessories: Manufacturer's standard design, heavy-duty operating hardware and accessories.
 1. Material: Chrome-plated zamac
 2. Hinges: Manufacturer's standard paired, self-closing type that can be adjusted to hold doors open at any angle up to 90 degrees continuous, cam type that swings to a closed or partially open position
 3. Latch and Keeper: Manufacturer's standard surface-mounted latch unit designed for emergency access and with combination rubber-faced door strike and keeper. Provide units that comply with regulatory requirements for accessibility at compartments designated as accessible.
 4. Coat Hook: Manufacturer's standard combination hook and rubber-tipped bumper, sized to prevent in-swinging door from hitting compartment-mounted accessories.
 5. Door Bumper: Manufacturer's standard rubber-tipped bumper at out-swinging doors
 6. Door Pull: Manufacturer's standard unit at out-swinging doors that complies with regulatory requirements for accessibility. Provide units on both sides of doors at compartments designated as accessible.
- B. Overhead Bracing: Manufacturer's standard continuous, extruded-aluminum head rail with antigrip profile and in manufacturer's standard finish.
- C. Anchorages and Fasteners: Manufacturer's standard exposed fasteners of stainless steel or chrome-plated steel or brass, finished to match the items they are securing, with theft-resistant-type heads. Provide sex-type bolts for through-bolt applications. For concealed anchors, use stainless steel, hot-dip galvanized steel, or other rust-resistant, protective-coated steel.

2.4 FABRICATION

- A. Overhead-Braced Units: Provide manufacturer's standard corrosion-resistant supports, leveling mechanism, and anchors at pilasters to suit floor conditions. Provide shoes at pilasters to conceal supports and leveling mechanism.
- B. Ceiling-Hung Units: Provide manufacturer's standard corrosion-resistant anchoring assemblies with leveling adjustment nuts at pilasters for connection to structural support above finished ceiling. Provide assemblies that support pilasters from structure without transmitting load to finished ceiling.
- C. Urinal-Screen Posts: Provide manufacturer's standard corrosion-resistant anchoring assemblies with leveling adjustment at tops and bottoms of posts.

Bull Run Bath House #2 ADA Renovations

- D. Door Size and Swings: Unless otherwise indicated, provide 24-inch- wide, in-swinging doors for standard toilet compartments and 36-inch- wide, out-swinging doors with a minimum 32-inch- wide, clear opening for compartments designated as accessible.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. General: Comply with manufacturer's written installation instructions. Install unit's rigid, straight, level, and plumb. Secure units in position with manufacturer's recommended anchoring devices.
- B. Clearances: Maximum 1/2 inch between pilasters and panels; 1 inch between panels and walls.

3.2 ADJUSTING

- A. Hardware Adjustment: Adjust and lubricate hardware according to hardware manufacturer's written instructions for proper operation. Set hinges on in-swinging doors to hold doors open approximately 30 degrees from closed position when unlatched. Set hinges on out-swinging doors to return doors to fully closed position.

END OF SECTION 102113

[Cleaning and Janitorial](#) > [Hand and Personal Care](#) > [Hand Care](#) > [Hand Dryer and Accessories](#) > [Hand Dryers](#) >
[Cast Iron, Fixed Nozzle, Automatic, Hand Dryer, 115](#) >

WORLD DRYER

Cast Iron, Fixed Nozzle, Automatic, Hand Dryer, 115

Item # 56EE59 Mfr. Model # XA5-974AU Catalog Page # 1493 UNSPSC # 47131707



Web Price ⓘ
\$431.25 / each

One Time Delivery

1

Add to Cart

+ Add to List |

Shipping Pickup

Expected to arrive **Fri, Sep 20**.

Ship To **22180 (Change)**

☆ ☆ ☆ ☆ ☆ Be the first to write a review

Shipping Weight **28.0 lbs.**

Country of Origin China | Country of Origin is subject to change.

Note: Product availability is real-time updated and adjusted continuously. The product will be reserved for you when you complete your order. [More](#)

How can we improve our Product Images?

Compare

Product Details

[View More](#) ▾

Chat with an Agent

Technical Specs

| | | | |
|------------------|------------------|-------------------------------|----------------------------|
| Item | Hand Dryer | Max. Air Temp. | 70 Degrees F Above Ambient |
| Nozzle | Fixed | Mounting | Wall |
| Cover Material | Cast Iron | Height | 9-1/2" |
| Dryer Activation | Automatic | Depth | 8-19/64" |
| Color | White | Width | 11-19/64" |
| Dry Time | 30 sec. | Watts | 2300 |
| Voltage | 115 | Sound Level dB | 76 |
| Amps | 20 | Standards | UL/CUL Listed, RoHS |
| ADA Compliant | No | Includes | Cover Removal Tool |
| Finish | Porcelain Enamel | Green Environmental Attribute | RoHS 2011/65/EU Compliant |
| Air Flow Rate | 200 CFM | | |



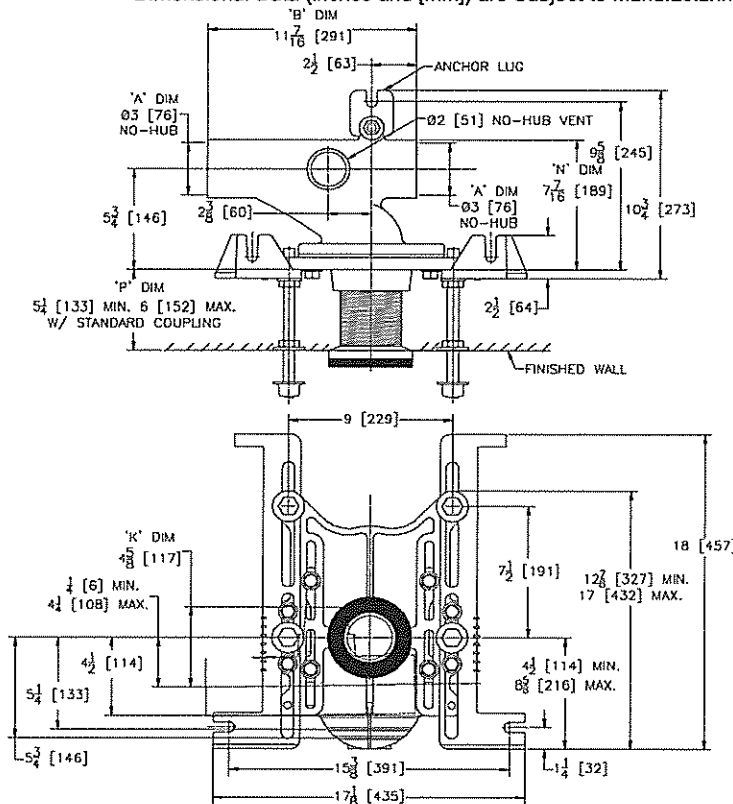
Z1201-N_3

EZCARRY® ADJUSTABLE HORIZONTAL HIGH PERFORMANCE SIPHON JET NO-HUB WATER CLOSET CARRIER SYSTEM

SPECIFICATION SHEET

TAG _____

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



| Product Number | Approx. Wt. lbs [kg] |
|----------------|----------------------|
| Z1201-NL3 | 55 [25] |
| Z1201-NR3 | |

Note:

- Z coupling, Min. 'P' Dim. Obtainable=2 [51]. ZQ coupling, Min. 'P' Dim. Obtainable=5 [127]. EZ-Set™ Coupling, Min. 'P' Dim. Obtainable=4-1/4 [108] or 2-1/16 [52] for 12 [305] NPT.
- Feet bolted to floor using min. 1/2 [13] dia. anchors.
- Rear anchor foot required for secure installation.

Z1201-NR3 Illustrated

ENGINEERING SPECIFICATION: ZURN Z1201-N_3

EZCarry® horizontal siphon jet water closet carrier system with high performance waterway and 3" [76mm] no-hub connections. System includes Dura-Coated cast iron main fitting with hydro-mechanically optimized sweep and extended 2" [51mm] vent, adjustable gasketed faceplate, floor mounted pre-fab slotted foot supports with top anchoring pre-fab support base, heavy-duty 1/2" [13mm] rear anchor tie down, fixture bolts, trim, stud protectors, bonded "Neo-Seal" gasket, and corrosion resistant, adjustable 3" [76mm] dia. X 6" [152mm] coupling with integral test cap designed to increase flow velocity and line carry. EZCarry® system complies with the requirements of ASME A112.6.1M up to a 500 lbs [227 kg] static load rating.

OPTIONS (Check/specify appropriate options)

- ___ Z1201-NL3 3 [76] No-Hub Left Hand Inlet with Flow to Right
- ___ Z1201-NR3 3 [76] No-Hub Right Hand Inlet with Flow to Left

PREFIXES

- ___ Z D.C.C.I. System with Zum ZZ Adjustable Coupling*
- ___ ZQ D.C.C.I. System with NPT Faceplate, Non-Adjustable Coupling

SUFFIXES

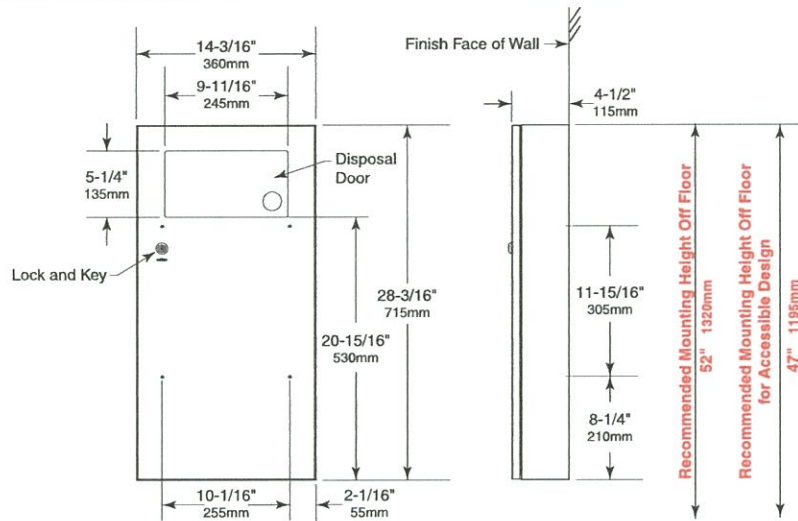
- | | |
|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| ___ -A Auxiliary Support Assembly | ___ -F Floor Mounted, Back Outlet Fixture Support |
| ___ -CC Corrosion Resistant Cast Iron Coupling (2-1/4 [57] to 12 [305]) | ___ -G Galvanized Cast Iron |
| ___ -CE EZ-Set™ Coupling (NPSM 6 [152], 12 [305] or custom) (NPT 12 [305] or custom) | ___ -M Auxiliary Foot Support (for 'P' Dim. 7 thru 18 [178 thru 457]) |
| ___ -CL Custom Length Standard Coupling with Integral Test Cap (Specify Length 4, 8, 10, 12 [102, 203, 254, 305]) | ___ -RYK17 One Piece Unistrut Pre-Fab Foot |
| ___ -CS 2-1/4 [57] Polymer Coupling with Integral Test Cap | ___ -VP Vandal-Proof Trim |
| | ___ -45 Finishing Frame for Siphon Jet System |
| | ___ -50 Flush Valve Supply Support for Water Closets |

* Regularly furnished unless otherwise specified.



TrimLineSeries™ SURFACE-MOUNTED WASTE RECEPTACLE WITH DISPOSAL DOOR

B-35639



MATERIALS:

Cabinet — 18-8, Type-304, heavy-gauge stainless steel. All-welded construction. Exposed surfaces have satin-finish.

Skirt — 18-8, Type-304, stainless steel with satin-finish.

Door — 18-8, Type-304, 18-gauge (1.2mm) stainless steel with satin-finish. Secured to cabinet with a concealed, full-length stainless steel piano-hinge. Equipped with one tumbler lock keyed like other Bobrick washroom accessories. Self-closing push door mounted on continuous stainless steel piano hinge.

Disposal Door — 18-8, Type-304, heavy-gauge stainless steel with satin finish. Secured to cabinet with spring-loaded, full length stainless steel piano hinge. Equipped with International graphic symbol identifying waste disposal.

Waste Receptacle — 18-8, Type-304, heavy-gauge stainless steel. All-welded construction. Removable for servicing. Capacity: 3-gal. (11.3-L).

OPERATION:

To service waste receptacle, unlock door with key provided and remove waste container. Cable door-swing limiter prevents damage to washroom accessories and walls.

INSTALLATION:

Mount unit on wall with four #10 x 1-1/4" (4.8 x 32mm) sheet-metal screws (not furnished) at points indicated by an S. For plaster or dry wall construction, provide concealed backing to comply with local building codes, then secure unit with sheet-metal screws. For other wall surfaces, provide fiber plugs or expansion shields for use with sheet-metal screws, or provide 3/16" (5mm) toggle bolts or expansion bolts. If unit projects above top of wainscot, provide aluminum channel or other filler to eliminate gap between cabinet and finish face of wall.

Replacement Parts:

| | |
|----------------------------------|-----------|
| Knob Latch | 314370-22 |
| Skirt Replacement Kit | 35639-53 |
| Door Replacement Kit | 35639-73 |
| Waste Receptacle Replacement Kit | 35639-83 |
| International Label | 3653-44 |
| Lock and Key | 39003-21 |

SPECIFICATION:

Surface-mounted waste receptacle with disposal door shall be Type-304 stainless steel with all-welded construction; exposed surfaces shall have satin finish. Door shall be Type-304, 18 gauge (1.2mm) secured to cabinet with a concealed, full-length stainless steel piano-hinge, cable door-swing limiter and equipped with a tumbler lock keyed like other Bobrick washroom accessories. Waste receptacle shall be Type-304, heavy-gauge stainless steel. All-welded construction with a capacity of 3-gal. (11.3-L).

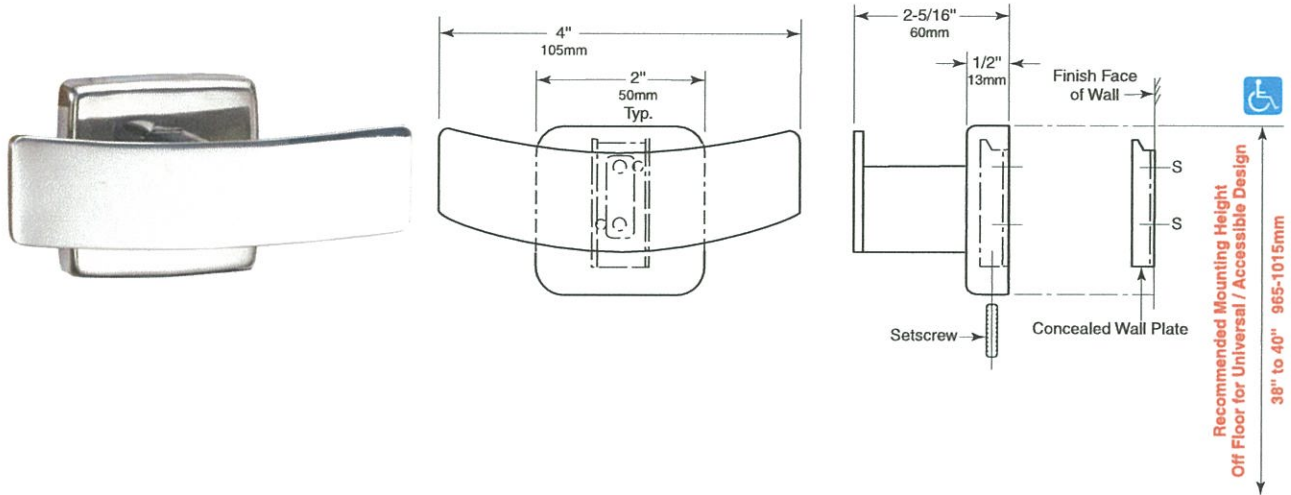
Surface-Mounted Waste Receptacle with Disposal Door shall be Model B-35639 of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.



ClassicSeries® SURFACE-MOUNTED DOUBLE ROBE HOOK

B-672 B-6727

- Specify Model Required: Model B-672 Bright polished stainless steel
 Model B-6727 Satin-finish stainless steel



MATERIALS:

Flange and Support Arm — 18-8, type-304, 22-gauge (0.8mm) stainless steel. Concealed, 16-gauge (1.6mm) stainless steel mounting bracket. All-welded construction. Secured to wall plate with a stainless steel setscrew.

Concealed Wall Plate — 18-8, type-304, 16-gauge (1.6mm) stainless steel.

Cap — 18-8, type-304, 10-gauge (3.6mm) stainless steel. Welded to the support arm.

INSTALLATION:

To remove concealed wall plate from back of flange and mounting bracket, loosen setscrew. Mount wall plate so prongs are at top; secure with two sheet-metal screws, furnished by manufacturer, at points indicated by an S. Engage mounting bracket onto prongs of wall plate, then secure into position by tightening setscrew at bottom of flange.

For partitions with particle-board or other solid core, secure with sheet-metal screws furnished, or provide through-bolts, nuts, and washers.

For hollow-core metal partitions, provide solid backing into which the furnished sheet-metal screws can be secured.

For plaster or dry wall construction, provide concealed backing to comply with local building codes, then secure unit with sheet-metal screws furnished.

For other wall surfaces, provide fiber plugs or expansion shields for use with sheet-metal screws furnished, or provide 1/8" (3mm) toggle bolts or expansion bolts.

SPECIFICATION:

Surface-mounted double robe hook shall be type-304 stainless steel with _____ (insert one: bright polished or satin) finish. Flange and support arm shall be 22 gauge (0.8mm) and equipped with a concealed, 16-gauge (1.6mm) mounting bracket that is secured to a concealed, 16-gauge (1.6mm) wall plate with a stainless steel setscrew. Cap shall be 10 gauge (3.6mm), welded to the support arm.

Surface-Mounted Double Robe Hook shall be Model _____ (insert model number) of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.

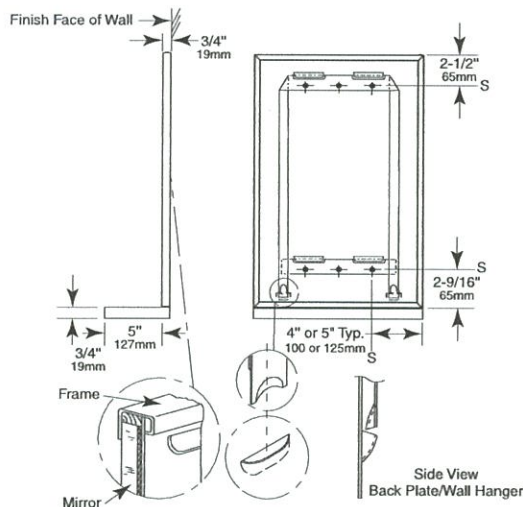


Designer's Notes:

1. Special-order sizes available on request.
2. Maximum size one-piece angle-frame mirror, 96" x 72" (244 x 183cm); minimum size, 12" x 12" (30 x 30cm).
3. All Bobrick framed mirror/shelf models are manufactured to overall width and height dimensions of mirror, not including shelf. EXAMPLE: For Lock Tab Design B-292 2436 (61 x 95cm) mirror will be furnished 24" x 37-1/4" (61 x 94cm) outside-of-frame to outside-of-frame including shelf.
4. To specify special sizes use Series Number followed by width x height in inches. EXAMPLE: B-292 2024 20" x 24" (51 x 61cm).
5. Bobrick framed mirror/shelf models are manufactured to a tolerance $\pm 1/8"$ (3.2mm).
6. For sufficient space to lift mirror onto wall hanger(s), provide 1" (25mm) minimum clearance above top of mirror frame.
7. Provide 1" (25mm) minimum clearance at bottom of mirror for unlocking mirror from wall and 1/2" (12.7mm) clearance on each side.

**Snap Locking Design
 (Rear View)**

Figure: 1

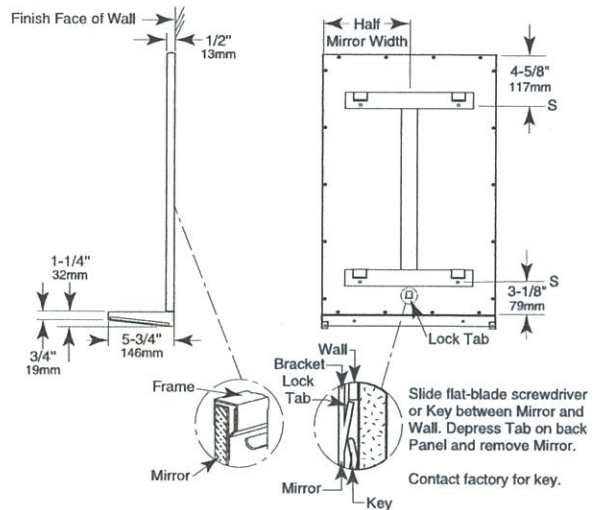


STANDARD B-292 SERIES MIRRORS

| MODEL NO. | OVERALL SIZE | |
|------------|--------------|------------|
| | W | H |
| B-292 1836 | 18" (46cm) | 36" (91cm) |

**Lock Tab Design
 (Rear View)**

Figure: 2



All Other Size Mirrors

Note: Mirrors greater than 30" in width will have multiple hanger bracket pockets with a typical 8" off each edge.

continued . . .

MATERIALS:

Frame — 18-8, Type-304, heavy-gauge stainless steel, 3/4" x 3/4" (19 x 19mm) angle with satin finish. One-piece, roll-formed construction forms continuous integral stiffener on all sides. Bevel design on front of angle holds frame tightly against mirror. Corners of mirror frame are heliarc welded, ground, and polished smooth. Galvanized steel back is fastened to frame with concealed screws and equipped with integral horizontal hanging brackets near the top for hanging the mirror and near the bottom to prevent the mirror from pulling away from the wall. Locking devices secure mirror to concealed wall hanger.

Shelf — 18-8, Type-304, 18-gauge (1.2mm) stainless steel with satin finish, 3/4" (19mm) return edge on front. Front and side return edges hemmed for additional strength and safety. Front corners of shelf are welded, ground, and polished smooth. Shelf is welded to mirror frame. No exposed rivet-heads, screws, or fasteners of any type on frame or shelf.

Mirror — No. 1 quality, 1/4" (6mm) select float glass (standard glass): selected for silvering, electrolytically copper-plated by the galvanic process, and guaranteed for 15 years against silver spoilage. All edges protected by plastic filler strips; back is protected by full-size, shock-absorbing, water-resistant, nonabrasive, 3/16" (5mm) thick polyethylene padding.

Concealed Wall Hanger — 16 gauge cold roll steel construction. Incorporates upper and lower support members, which engage backplate louvers to keep mirror against wall.

INSTALLATION:

Mount wall hanger on wall with screws (not furnished) at points indicated by an S. For plaster or dry wall construction, provide backing to comply with local building codes, then secure wall hanger with screws (not furnished). When providing a concealed backing, allow backing to cover minimum range of mounting hole locations shown on drawing. For other wall surfaces, provide fiber plugs or expansion shields for use with screws (not furnished), or provide 1/8" (3mm) toggle bolts or expansion bolts. Hang mirror on wall hanger with all four backplate louvers engaged behind horizontal wall hanger members. To do this, mirror must be centered in front of the wall hanger horizontally, pressed flat against the wall approximately 1" (25mm) above final position and then lowered into final position.

Snap Locking Design — Locking devices automatically secure mirror to concealed wall hanger when it is lowered into final position (see figure 3). Locking devices may be unlocked by inserting two flat blade screwdrivers behind each side of mirror near the bottom or under the bottom of the mirror and pulling mirror bottom forward and then up.

Lock Tab Design — Locking devices automatically secure mirror to concealed wall hanger when it is lowered into final position (see figure 4). Locking device may be unlocked by sliding a flat-blade screwdriver or Key between mirror and wall at center of mirror and depressing tab on back panel. If key is required, please contact the factory.

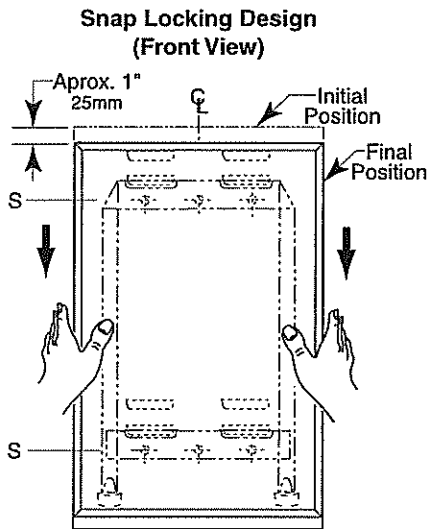


Figure 3

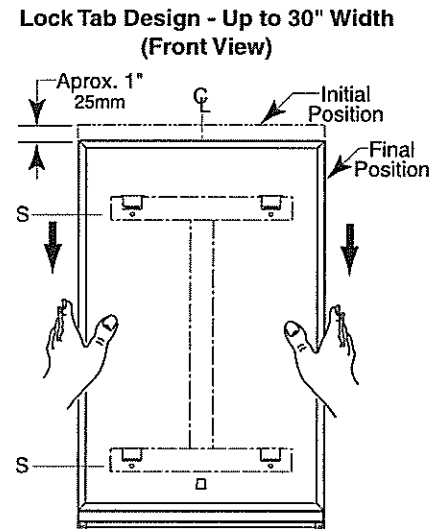
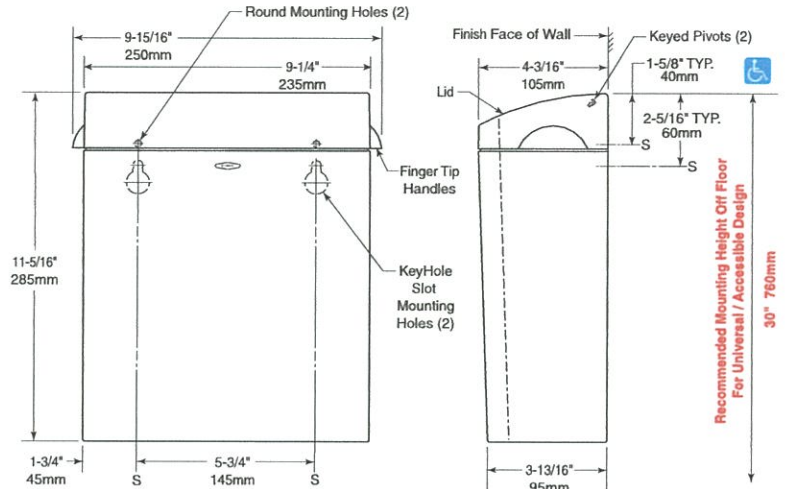


Figure 4

SPECIFICATION:

Mirror shall have a one-piece, Type-304 stainless steel angle frame, 3/4" x 3/4" (19 x 19mm) with continuous integral stiffener on all sides and beveled front to hold frame tightly against mirror; corners shall be heliarc welded, ground, and polished smooth; all exposed surfaces shall have satin finish. Shelf shall be Type-304, 18-gauge (0.8mm) stainless steel with satin finish. Shelf shall have a 3/4" (19mm) return edge on front. Front and side return edges hemmed and corners welded, ground, and polished smooth. Shelf shall be welded to mirror frame. No rivet-heads, screws, or fasteners of any type shall be exposed on frame or shelf. Select float glass mirror shall be guaranteed for 15 years against silver spoilage. All edges shall be protected by plastic filler strips and the back shall be protected by full-size, shock-absorbing, water-resistant, nonabrasive, 3/16" (5mm) thick polyethylene padding. Galvanized steel back shall have integral horizontal hanging brackets located at top and bottom for mounting on concealed wall hanger and to prevent the bottom of the mirror from pulling away from the wall. Locking devices secure mirror to concealed wall hanger. Mirror shall be removable from wall hanger for reglazing mirror.

Framed Mirror With Shelf shall be Model B-292 _____ (insert width and height) of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.



MATERIALS:

Container — Durable, high-impact grey ABS with high-gloss finish on exposed surfaces. Front of container has same degree of arc as front of lid and other Bobrick MatrixSeries washroom accessories. Radius on corners and edges of container complement corners and edges of lid and other MatrixSeries accessories. Capacity: 1.3-gal. (4.8-L).

Lid — Durable, high-impact grey ABS with high-gloss finish on exposed surfaces. Fingertip handles for opening lid. Front of lid has same degree of arc as front of container and other Bobrick MatrixSeries washroom accessories. Radius on corners, edges and top of lid complement corners and edges of container and other MatrixSeries accessories. Secured to container with keyed pivots.

OPERATION:

Lid flips up for disposal of sanitary napkins and for servicing container.

INSTALLATION:

For permanent installation, use upper round mounting holes. Mount unit with two sheet metal screws, furnished by manufacturer, at points indicated by an S.

For installation where the entire unit may be removed from wall for emptying and cleaning, use lower keyhole slot mounting holes. Using the container as a template, mark the location of the keyhole slots indicated by an S. Mount plastic bushings with screws furnished by manufacturer. Container then snaps over bushings to hold unit in place.

For plaster or dry wall construction, provide concealed backing to comply with local building codes, then secure unit with sheet-metal screws furnished by manufacturer.

For masonry walls, provide fiber plugs or expansion shields for use with sheet-metal screws furnished by manufacturer, or provide 3/16" (4.8mm) toggle bolts or expansion bolts.

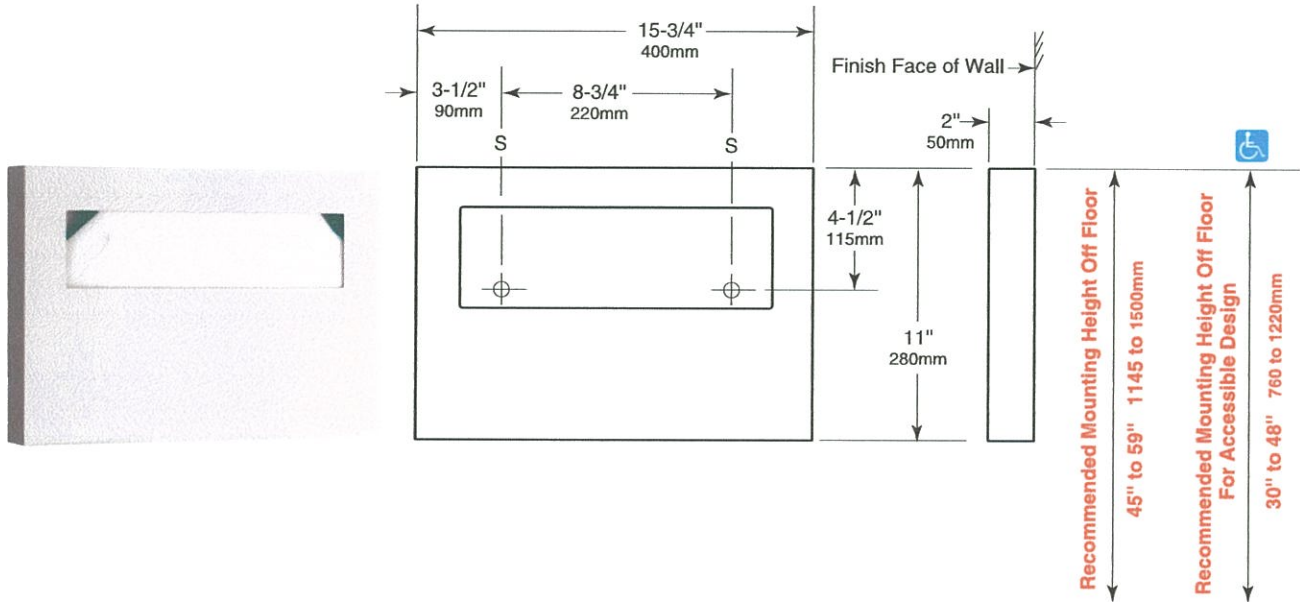
For partitions with particle board or other solid core, secure with two sheet-metal screws (not furnished), or provide through-bolts, nuts, and washers.

For hollow-core metal partitions, provide solid backing into which sheet-metal screws (not furnished) can be secured. If two units are installed back-to-back, then provide threaded sleeves and machine screws for the full thickness of partition.

SPECIFICATION:

Surface-mounted sanitary napkin disposal shall be durable, high-impact grey ABS with high-gloss finish on exposed surfaces. Front of sanitary napkin disposal shall have same degree of arc and complement other MatrixSeries accessories in the washroom. Radius on corners, edges and top of sanitary napkin disposal shall complement other Bobrick MatrixSeries washroom accessories. Container shall have a capacity of 1.3-gal. (4.8-L). Lid shall be secured to container with keyed pivots. Lid shall have fingertip handles. Replacement part numbers shall be molded into unit.

Surface-Mounted Sanitary Napkin Disposal shall be Model B-5270 of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.



MATERIALS:

18-8, type-304, 22-gauge (0.8mm) stainless steel with satin finish. All-welded construction with beveled opening.

OPERATION:

Dispenses single- or half-fold paper toilet seat covers from beveled opening. Dispenser fills from bottom through concealed opening. Capacity: 250 toilet seat covers or one box.

INSTALLATION:

Mount unit on wall or toilet partition with two flat-head screws, not furnished by manufacturer, at points indicated by an S. For plaster or dry wall construction, provide concealed backing that complies with local building codes, then secure unit with flat-head screws not furnished. For other wall surfaces, provide fiber plugs or expansion shields for use with screws, not furnished, or provide 1/8" (3mm) toggle bolts or expansion bolts.

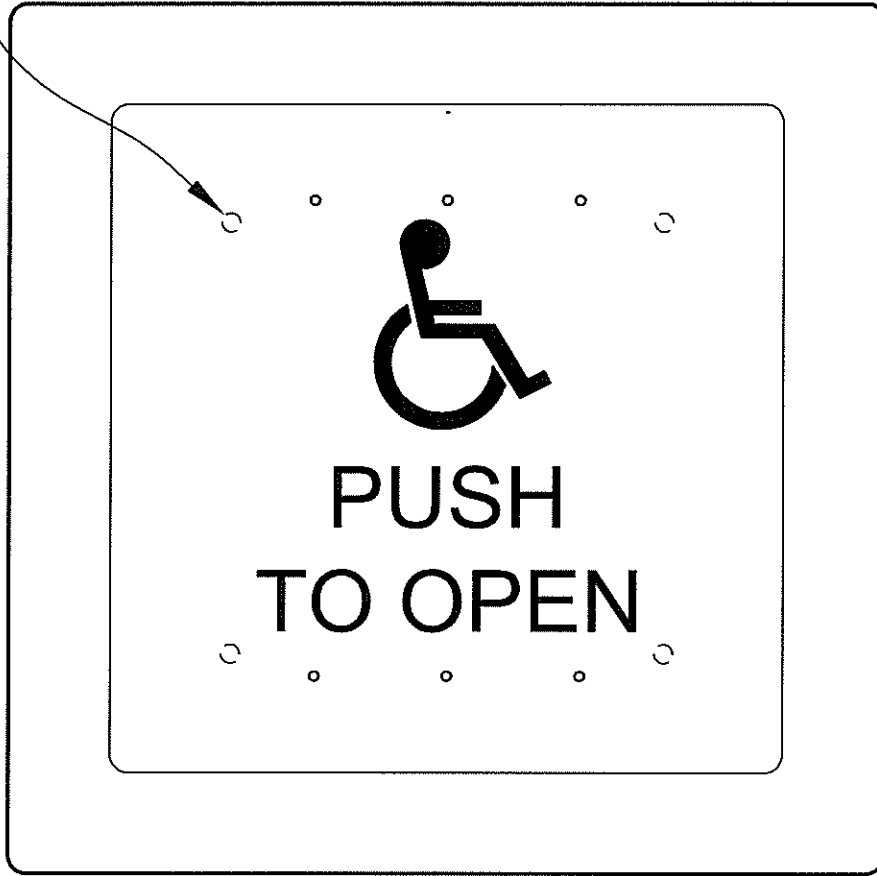
Note: Provide a 5" (125mm) minimum clearance from bottom of dispenser to top of any horizontal projection to provide room for filling dispenser from bottom.

SPECIFICATION:

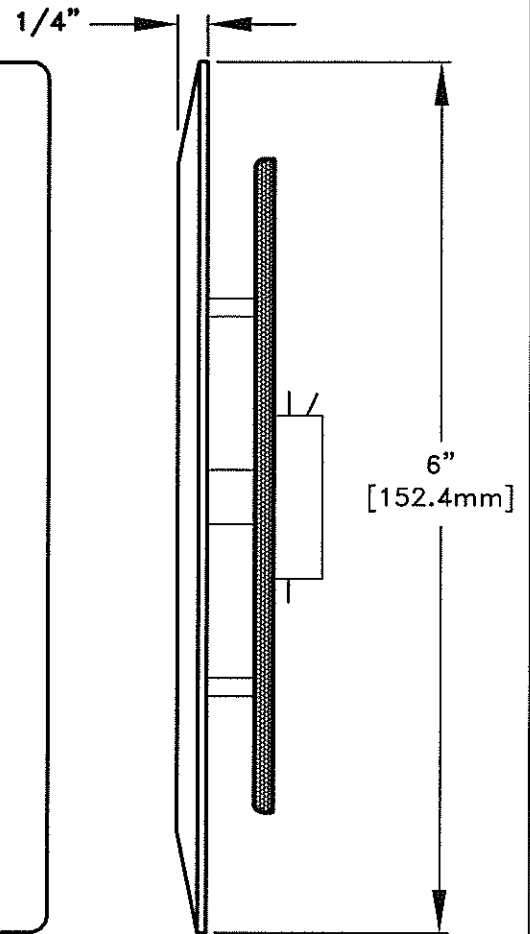
Surface-mounted toilet-seat-cover dispenser shall be type-304, 22-gauge (0.8mm) stainless steel with all-welded construction; exposed surfaces shall have satin finish. Dispenser shall have a concealed opening in bottom for filling. Capacity shall be 250 paper toilet seat covers or one box.

Surface-Mounted Seat-Cover Dispenser shall be Model B-221 of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.

OPTIONAL HOLE PATTERN FOR MOUNTING TO '4S' 4" SQUARE JUNCTION BOX.



FRONT



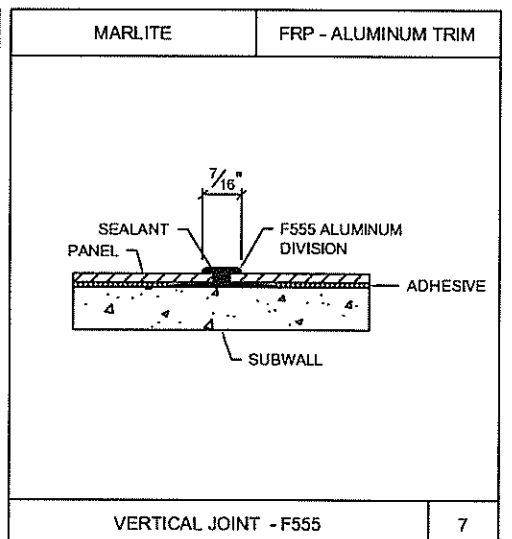
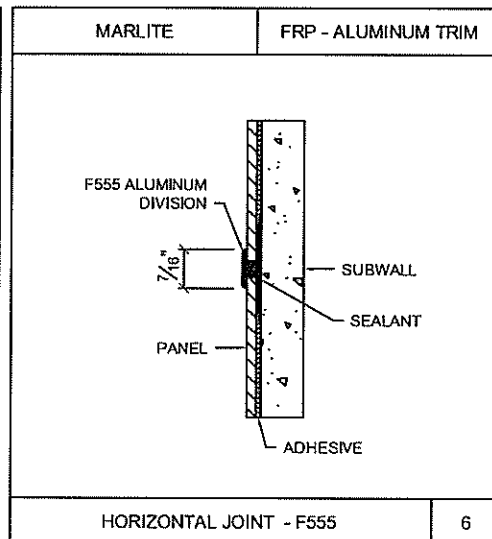
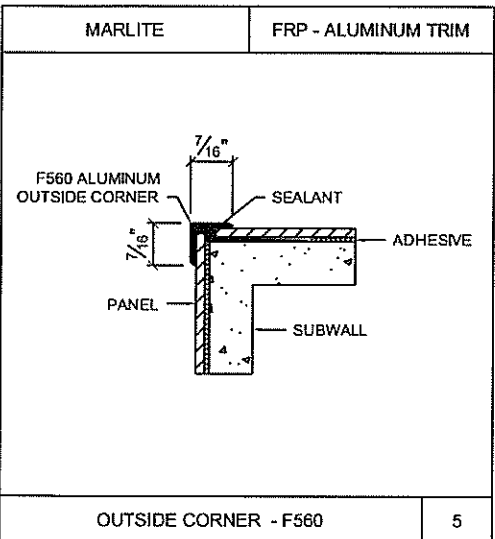
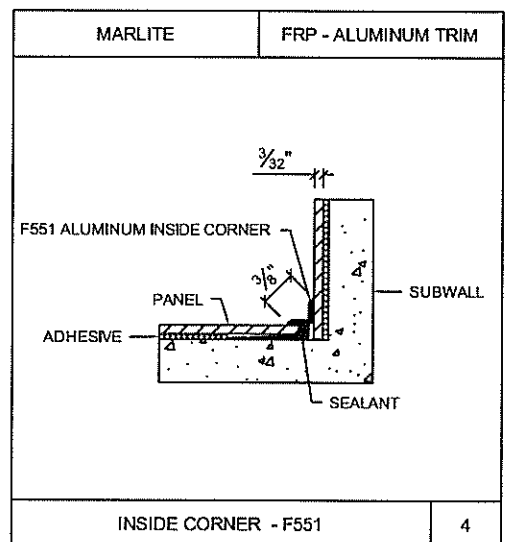
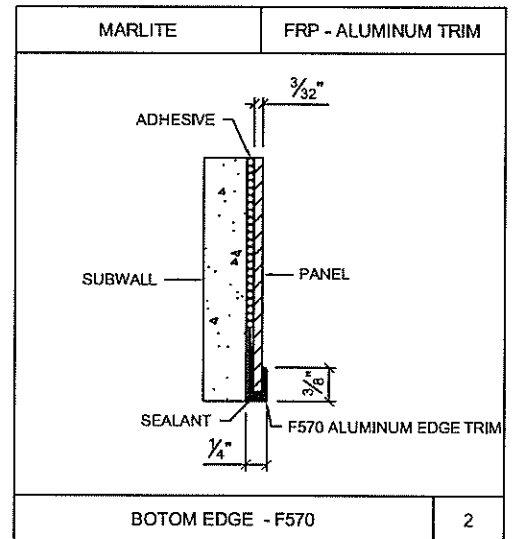
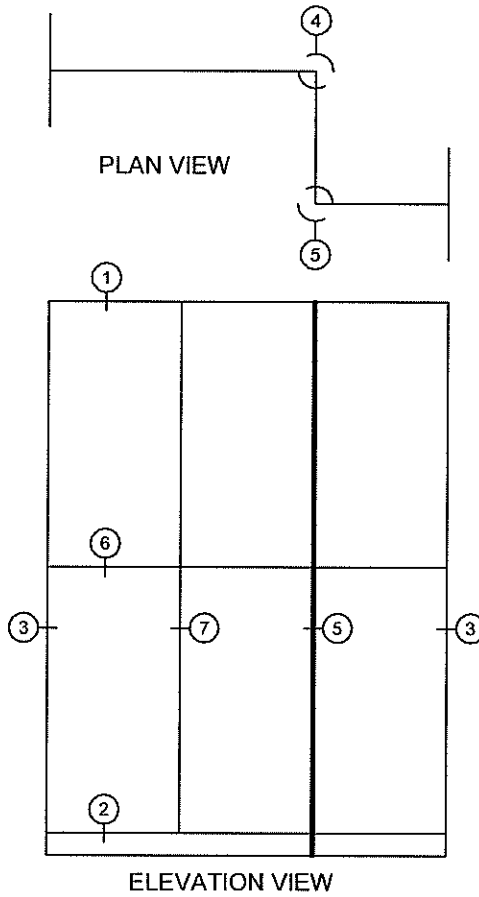
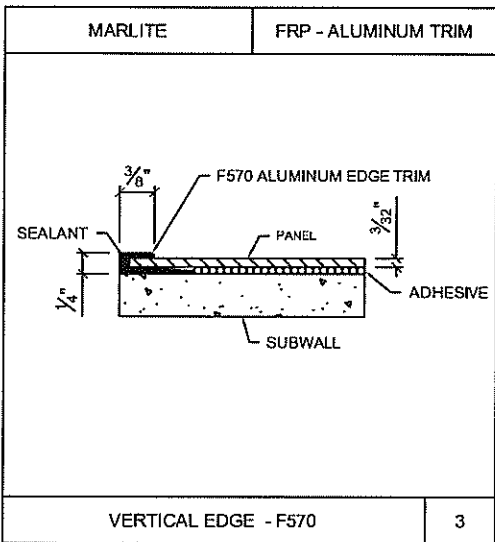
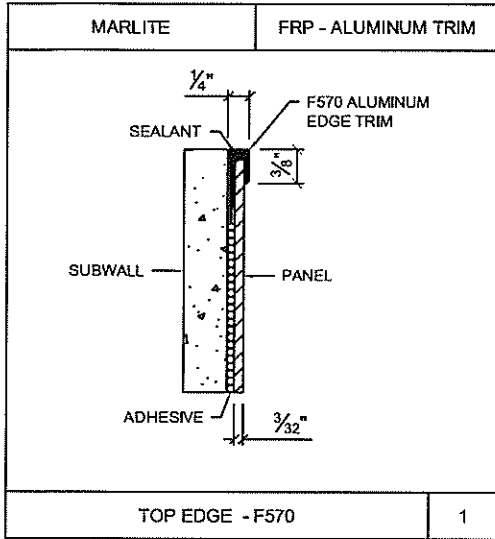
SIDE

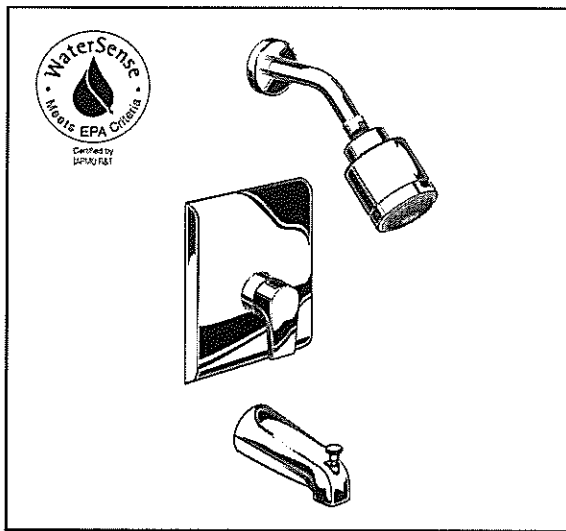
| | |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| CONFIGURATIONS: | LOW VOLTAGE (STD) OR RADIO CONTROLLED (SUFFIX -RC) |
| MATERIALS/FINISHES: | STAINLESS STEEL: SATIN (STANDARD) OR MIRROR POLISHED BRASS: MIRROR POLISHED, OIL RUBBED OR SATIN ALUMINUM: BLUE ANODIZED |
| CONSTRUCTION: | BACK PLATE MOUNTS TO SINGLE OR DOUBLE-GANG BOX OPTIONAL CORNER HOLES FOR '4S' BOX MOUNTING NOISE DAMPENING RUBBER CUSHIONING WASHERS |
| COLOR OF LOGO/LETTERS: | BLUE (with logo), BLACK (without logo), OTHERS AVAILABLE |
| SWITCH: | UL/CSA LISTED SPDT (DPDT AVAILABLE) |

| | | | | | | | | |
|-----------------------------------------------|------------------------|----------------------|-----------------------------------------------------------------|----------------------|----------|-----------------------------------------------------------------------------------------------|----------|--|
| MATERIAL: STAINLESS STEEL | | | FINISH: #4 SATIN | | | SIZE: 18 GA (0.047) | | |
| DIMENSIONAL TOLERANCES UNLESS NOTED OTHERWISE | | | TITLE PUSH PLATE 6" SQUARE - PTO & LOGO | | | Manufactured for: CareProdx.com 11807 Allisonville Road, Suite 161 Fishers, IN 46038 | | |
| FRAC. | DEC. | ANG. | | | | | | |
| ± 1/32" | ± 0.031" | ± 1° | | | | | | |
| SCALE NTS | NO. REQ. A/R | DRAWN: PSC | | DATE 04/21/03 | SIZE | DRAWING NUMBER | ISSUE | |
| NEXT ASSY. 645-BOM | | CHECKED: RDC | | DATE 04/21/03 | A | 10352 CE-645 | 1 | |
| | | APPROVED: RDC | | DATE 04/21/03 | | | | |

FRP

Aluminum Trim Moldings





T590.508 Bath/Shower Trim Shown

GENERAL DESCRIPTION:

SHOWERHEAD

FloWise water saving 3-function showerhead offers up to 40% water savings at maximum 2.0 gpm/7.6 L/min. flow rate.

WALL TUB SPOUT

Metal slip-on diverter spout.

WALL VALVE TRIM

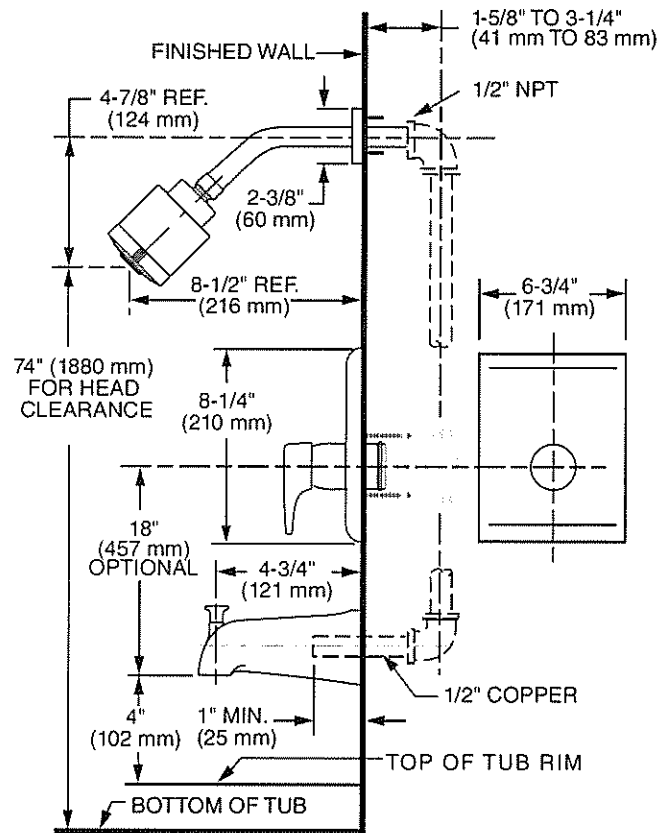
Available with metal lever handle. Brass wall escutcheon.

MODEL NUMBER:

TRIM KITS:

- ❑ T590.508 Studio BATH/SHOWER Trim Kit
Metal Lever Handle. FloWise Showerhead.
LESS Valve Body.
- ❑ T590.507 Studio SHOWER ONLY Trim Kit
Metal Lever Handle. FloWise Showerhead.
LESS Valve Body.
- ❑ T590.500 Studio VSALVE ONLY Trim Kit
Metal Lever Handle. LESS Valve Body.

*For use with R120 Series Pressure Balance Valves.
See reverse side for available Rough Valves.*



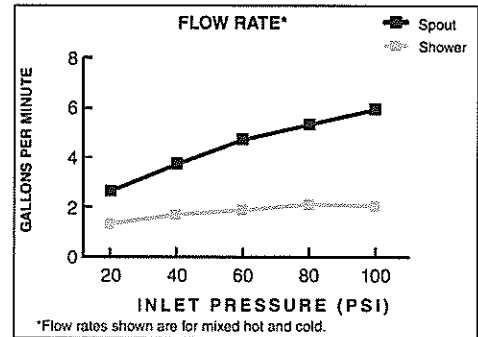
SUGGESTED SPECIFICATION:

Bath/shower fitting shall feature water saving 3-function showerhead with Max. 2.0 gpm/7.6 L/min. flow rate. Fitting shall be: American Standard - Trim Kit Model # T590.50_ and Valve Body Model # R12_.

CODES AND STANDARDS

These products meet or exceed the following codes and standards:

- ANSI A 117.1
- ASSE 1016
- ASME A112.18.1
- CSA B 125.1



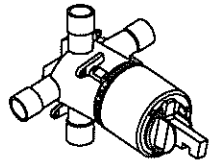
| Modifications | Parts Suffix* |
|-----------------------------------------|---------------|
| Factory Installed Decal Ring (Red/Blue) | __WD |

*To modify a product, add suffix after the 4th digit (ex. T064ITP502.002)

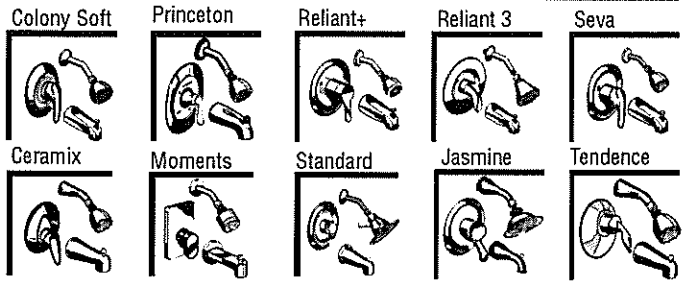
| TRIM KITS* | Product Number | Description | Finish Options | |
|------------|----------------|--------------------------------------------------------------------------------|-----------------|------------------|
| | | | Polished Chrome | PVD Satin Nickel |
| | | | 002 | 295 |
| | T590.508 | Bath/Shower Trim Kit. Metal Lever Handle. FloWise Showerhead. LESS Valve Body. | | |
| | T590.507 | Shower Only Trim Kit. Metal Lever Handle. FloWise Showerhead. LESS Valve Body. | | |
| | T590.500 | Valve Only Trim Kit. Metal Lever Handle. LESS Valve Body. | | |

| ROUGH VALVE BODIES | Product Number | Description |
|--------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------|
| | R121 | Rough Valve Body less trim. Universal inlets/outlets. |
| | R121SS | Rough Valve Body less trim. Universal inlets/outlets with Screwdriver Stops. |
| | R120 | Rough Valve Body less trim. Direct Sweat inlets/outlets. |
| | R120SS | Rough Valve Body less trim. Direct Sweat inlets/outlets with Screwdriver Stops. |
| | R125 | Rough Valve Body less trim. Female Thread inlets/outlets. |
| | R125SS | Rough Valve Body less trim. Female Thread inlets/outletswith Screwdriver Stops. |
| | R127 | Rough Valve Body less trim. PEX inlets/universal outlets for Crimp Ring PEX system (ASTM F1807). |
| | R127SS | Rough Valve Body less trim. PEX inlets/universal outlets for Crimp Ring PEX system (ASTM F1807) with Screwdriver Stops. |
| | R128 | Rough Valve Body less trim. PEX inlets/universal outlets for Cold Expansion PEX system (ASTM F1960). |
| | R128SS | Rough Valve Body less trim. PEX inlets/universal outlets for Cold Expansion PEX system (ASTM F1960) with Screwdriver Stops. |
| | R129 | Rough Valve Body less trim. CPVC inlets/universal outlets. |
| | R129SS | Rough Valve Body less trim. CPVC inlets/universal outlets with Screwdriver Stops. |

Meets the American Disabilities Act Guidelines and ANSI A117.1 Requirements for the physically challenged.



Available Trim Kits



R120 Valve Body Shown

- MODEL NUMBER:**
- R120 Pressure Balance Rough Valve Body only**
Direct sweat inlets/outlets. LESS trim.
 - R120SS Pressure Balance Rough Valve Body only with Screwdriver stops**
Direct sweat inlets/outlets. Screwdriver stops. LESS trim.
 - R125 Pressure Balance Rough Valve Body only**
Female thread inlets/outlets. LESS trim.
 - R125SS Pressure Balance Rough Valve Body only with Screwdriver stops**
Female thread inlets/outlets. Screwdriver stops. LESS trim.
 - R127 Pressure Balance Rough Valve Body only**
PEX inlets/Direct sweat outlets. LESS trim.
 - R127SS Pressure Balance Rough Valve Body only with Screwdriver stops**
PEX inlets/Direct sweat outlets. Screwdriver stops. LESS trim.

See reverse for available trim kits.

GENERAL DESCRIPTION:

Cast brass body, washerless 47mm ceramic disc valve cartridge with volume and temperature control, and hot limit safety stop. Pressure balancing cartridge maintains constant output temperature in response to changes in relative hot and cold supply pressure. One-half inch inlets and outlets (choice of direct sweat, threaded, or PEX). Available with screwdriver stops. Rough-in plaster guard designed for use as thin-wall mounting adaptor. Valve body will accept a variety of decorative Bath/Shower trim kits.

PRODUCT FEATURES:

Cast Brass Valve Body: Durable - Quality that will last a lifetime. Ideal material for prolonged contact with water.

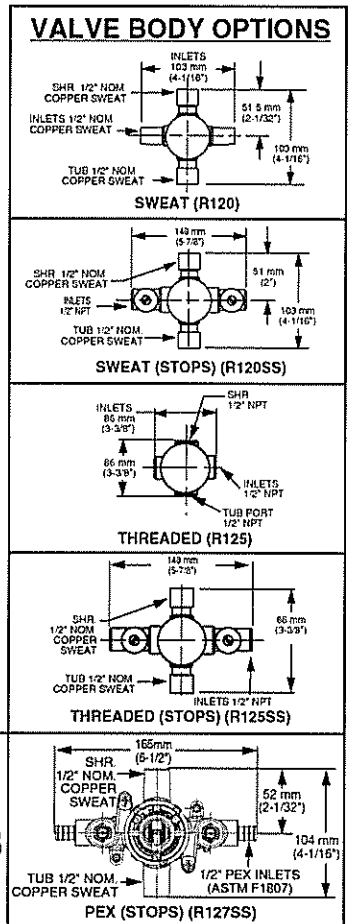
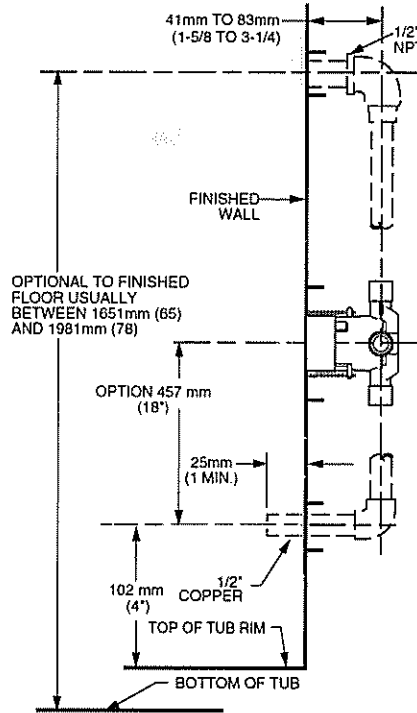
Ceramic Disc Valve Cartridge: Assures a lifetime of drip-free performance. Allows easy control over both water temperature and volume.

Pressure Balancing Valve Cartridge: Maintains constant output temperature in response to changes in relative hot and cold supply pressure. Diaphragm system engineered to eliminate cross flow. Avoids failure due to mineral deposits - ideal for use in hard water.

Adjustable Hot Limit Safety Stop: Limits the amount of hot water allowed to mix with cold. Reduces the risk of accidental scalding.

Exclusive Plaster Guard: Plaster guard is designed to protect valve during installation and serve as a mounting plate for thin-wall installations. Two piece design allows valve to be tested prior to trim installation.

Wide Rough-in Range: From 1-5/8" to 3-1/4".

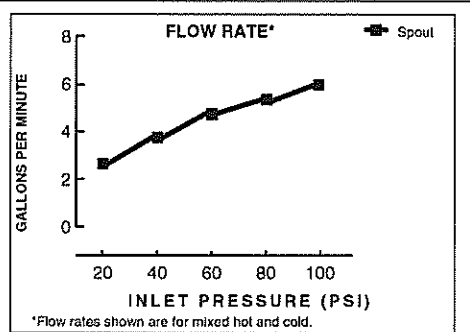


SUGGESTED SPECIFICATION:

Bath/shower fitting shall feature a cast brass valve body. Shall feature ceramic disc valve cartridge which allows user to control both water temperature and volume. Fitting shall be equipped with pressure balancing cartridge engineered to eliminate cross flow and avoid failure due to mineral deposits. Shall also feature a hot limit safety stop. Fitting shall be: Rough Valve Body - American Standard Model # R12____, Trim Kit - American Standard Model # _____.

Valve + Trim: Trim Kit & Valve Body Packaged Separately

To order: Specify valve body *and* trim kit desired
 Example: R120 - Direct Sweat Valve Body
 T508.502 - Princeton Bath/Shower Trim Kit



CODES AND STANDARDS

These products meet or exceed the following codes and standards:

- ANSI A 117.1
- ASSE 1016
- ASME A112.18.1
- CSA B 125

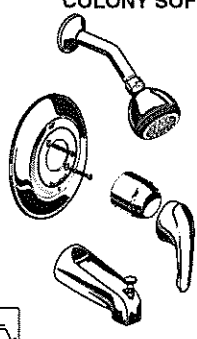
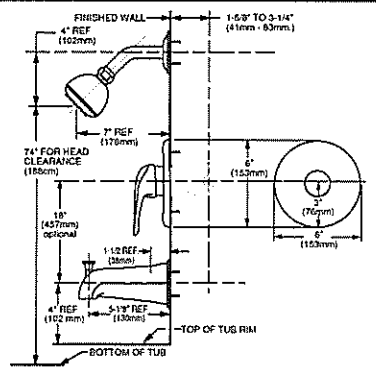
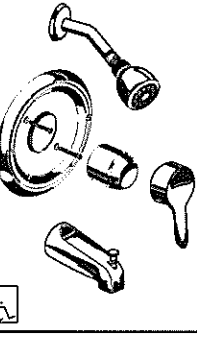
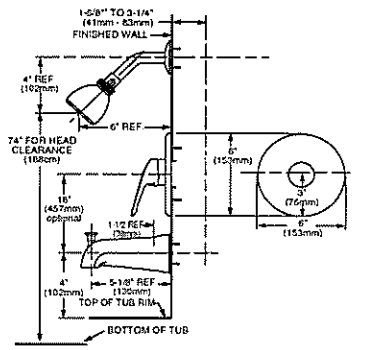

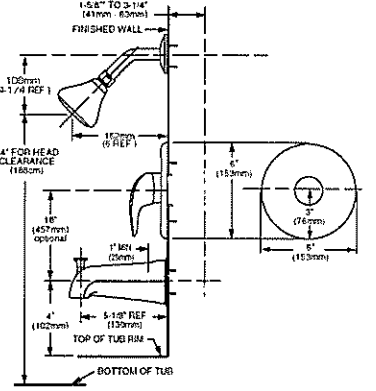
* Showerhead with 2.5gpm/9.5L.min. flow restrictor.

| VALVES | | | | | | |
|--------|-----------------------------|--------------------------------------------------|------------------------------|---------------------------------------------------|---------------------------------|------------------------------------------------------|
| | | R120 | R120SS | R125 | R125SS | R127 |
| | Direct Sweat Inlets/Outlets | Direct Sweat Inlets/Outlets w/ Screwdriver Stops | Female Thread Inlets/Outlets | Female Thread Inlets/Outlets w/ Screwdriver Stops | PEX Inlets/Direct Sweat Outlets | PEX Inlets/Direct Sweat Outlets w/ Screwdriver Stops |

| TRIM KITS | | Colony "Soft" | Reliant+ Lever | Reliant 3 | Princeton | Seva |
|-----------|--------|---------------|----------------|-----------------------|-----------|----------|
| | | | | | | |
| | B/S | T675.502 | T495.502 | T385.502 | T508.502 | T480.502 |
| | Shower | T675.501 | T495.501 | T385.501 | T508.501 | T480.501 |
| | Valve | T675.500 | T495.500 | T385.500 | T508.500 | T480.500 |
| | | | | Reliant 3 w/mod Plate | | |
| | | | | | | |
| | | | | T385.522 | | |
| | | | | T385.521 | | |
| | | | | T385.520 | | |

| TRIM KITS | | Ceramix | Moments | Standard | Jasmine | Tendence |
|-----------|--------|----------|----------|----------|----------|----------|
| | | | | | | |
| | B/S | T000.502 | T506.502 | T6282 | T808.502 | T086.502 |
| | Shower | T000.501 | T506.501 | T6281 | T808.501 | T086.501 |
| | Valve | T000.500 | T506.500 | T6280 | T808.500 | T086.500 |

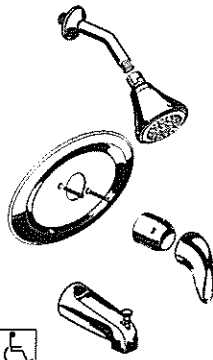
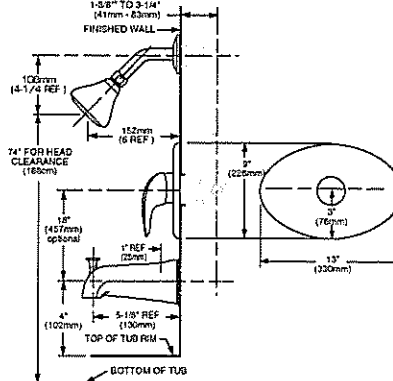
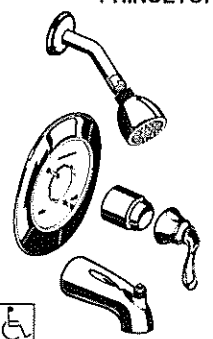
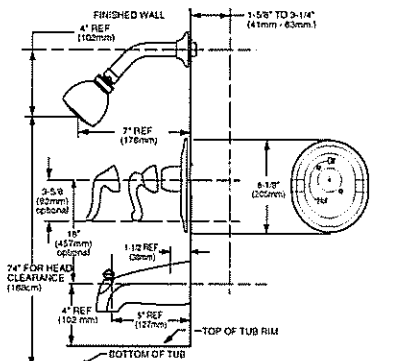
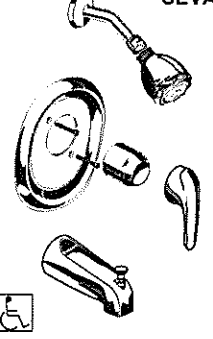
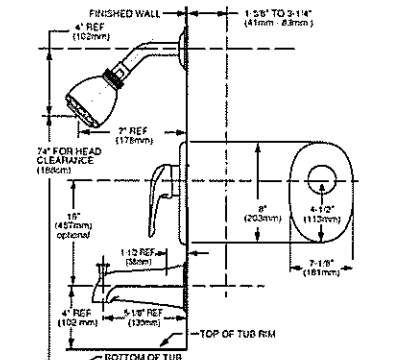
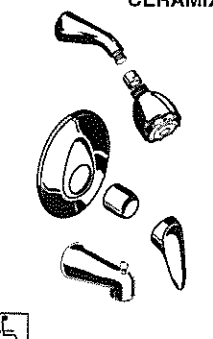
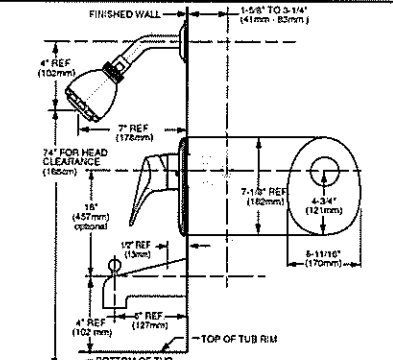
Trim Kits for R120, R120SS, R125, R125SS, R127, R127SS rough valve bodies. Showerhead with 2.5gpm/9.5L/min. maximum flow. TRIM KITS ONLY. VALVE MUST BE ORDERED SEPARATELY.

| Trim Kit | Model # Description | Finishes* | Roughing-In Dimensions |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| COLONY SOFT  | T675.502 BATH/SHOWER Trim Kit • Metal Lever handle • "Easy Clean" Showerhead • Shower arm and flange • Slip-on Diverter tub spout | .002 Polished Chrome .099 Polished Brass (PVD) |  |
| | T675.501 SHOWER ONLY Trim Kit • Metal Lever handle • "Easy Clean" Showerhead • Shower arm and flange | | |
| | T675.500 VALVE ONLY Trim Kit • Metal Lever handle | | |
| RELIANT+  | T495.502 BATH/SHOWER Trim Kit • Brass wall escutcheon • Metal Lever handle • "Easy Clean" Showerhead • Shower arm and flange • Slip-on Diverter tub spout | .002 Polished Chrome .099 Polished Brass (PVD) .299 Pol. Chrome/Brass (PVD) mix. |  |
| | T495.501 SHOWER ONLY Trim Kit • Brass wall escutcheon • Metal Lever handle • "Easy Clean" Showerhead • Shower arm and flange | | |
| | T495.500 VALVE ONLY Trim Kit • Brass wall escutcheon • Metal Lever handle | .002 Polished Chrome | |
| Reliant 3  | T385.502 BATH/SHOWER Trim Kit • Metal wall escutcheon • Metal lever handle • "Easy Clean" Showerhead • Shower arm and flange • Slip-on diverter tub spout • LESS valve | .002 Polished Chrome .295 Satin Nickel (PVD) |  |
| | T385.501 SHOWER ONLY Trim Kit • Metal wall escutcheon • Metal lever handle • "Easy Clean" Showerhead • Shower arm and flange • LESS valve | | |
| | T385.500 VALVE ONLY Trim Kit • Metal wall escutcheon • Metal lever Handle • LESS valve | | |

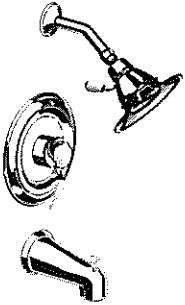

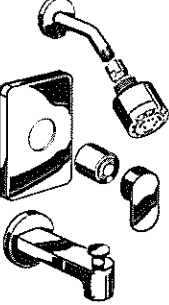

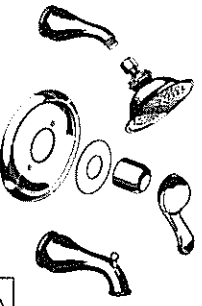

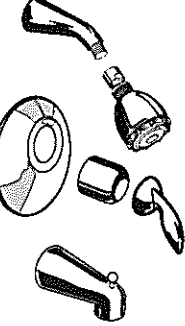

***EverClean™ Finish:**

- Offered on: Polished Chrome (002), Stainless Steel (075), Polished Brass (099) and Satin Nickel (295) finish. (and any combination of these finishes).
 - One wipe effortlessly removes spots.
 - Eliminates the need for cleaners and scrubbing.
- EverClean Finish is offered on Jasmine, Tendence, Ceramix and Reliant 3.

Trim Kits for R120, R120SS, R125, R125SS, R127, R127SS rough valve bodies. Showerhead with 2.5gpm/9.5L/min. maximum flow.
TRIM KITS ONLY. VALVE MUST BE ORDERED SEPARATELY.

| Trim Kit | Model # Description | Finishes* | Roughing-In Dimensions |
|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <p>Reliant 3</p>  | <p>T385.522 BATH/SHOWER Trim Kit</p> <ul style="list-style-type: none"> • Large metal wall escutcheon • Metal lever Loop handle • "Easy Clean" Showerhead • Shower arm and flange • Slip-on diverter tub spout • LESS valve <p>T385.521 SHOWER ONLY Trim Kit</p> <ul style="list-style-type: none"> • Large metal wall escutcheon • Metal lever Loop handle • "Easy Clean" Showerhead • Shower arm and flange • LESS valve <p>T385.520 VALVE ONLY Trim Kit</p> <ul style="list-style-type: none"> • Large metal wall escutcheon • Metal lever Loop Handle • LESS valve | <p>.002 Polished Chrome .295 Satin Nickel (PVD)</p> |  |
| <p>PRINCETON</p>  | <p>T508.502 BATH/SHOWER Trim Kit</p> <ul style="list-style-type: none"> • Metal Lever Handle • Wall escutcheon • Showerhead, arm and flange • Slip-on diverter tub spout • LESS Valve <p>T508.501 SHOWER ONLY Trim Kit</p> <ul style="list-style-type: none"> • Metal Lever Handle • Wall escutcheon • Showerhead, arm and flange • LESS Valve <p>T508.500 VALVE ONLY Trim Kit</p> <ul style="list-style-type: none"> • Metal Lever Handle • Wall escutcheon • LESS Valve | <p>.002 Polished Chrome .295 Satin Nickel (PVD)</p> |  |
| <p>SEVA</p>  | <p>T480.502 BATH/SHOWER Trim Kit</p> <ul style="list-style-type: none"> • Brass wall escutcheon • Metal Lever handle • "Vario" adjustable showerhead • Shower arm and flange • Slip-on Diverter tub spout <p>T480.501 SHOWER ONLY Trim Kit</p> <ul style="list-style-type: none"> • Brass wall escutcheon • Metal Lever handle • "Vario" adjustable showerhead • Shower arm and flange <p>T480.500 VALVE ONLY Trim Kit</p> <ul style="list-style-type: none"> • Brass wall escutcheon • Metal Lever handle | <p>.002 Polished Chrome .295 Satin Nickel (PVD) .299 Pol. Chrome/Brass (PVD) mix.</p> |  |
| <p>CERAMIX</p>  | <p>T000.502 BATH/SHOWER Trim Kit</p> <ul style="list-style-type: none"> • Brass wall escutcheon • Metal Lever handle • "Vario" adjustable showerhead • Cast Brass shower arm • Cast Brass diverter tub spout <p>T000.501 SHOWER ONLY Trim Kit</p> <ul style="list-style-type: none"> • Brass wall escutcheon • Metal Lever handle • "Vario" adjustable showerhead • Cast Brass shower arm <p>T000.500 VALVE ONLY Trim Kit</p> <ul style="list-style-type: none"> • Brass wall escutcheon • Metal Lever handle | <p>.002 Polished Chrome .295 Satin Nickel (PVD)</p> <p>Note: Trim kits CANNOT be used with Ceramix spool type valves.</p> |  |

Trim Kits for R120, R120SS, R125, R125SS, R127, R127SS rough valve bodies. Showerhead with 2.5gpm/9.5L/min. maximum flow.
TRIM KITS ONLY. VALVE MUST BE ORDERED SEPARATELY.

| Trim Kit | Model # Description | Finishes* | Roughing-In Dimensions |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <p>STANDARD</p>   | <p>T6282 BATH/SHOWER Trim Kit</p> <ul style="list-style-type: none"> • Metal wall escutcheon • Porcelain Lever Handle • 5" Adjustable showerhead • Cast brass I.P.S. diverter tub spout <p>T6281 SHOWER ONLY Trim Kit</p> <ul style="list-style-type: none"> • Metal wall escutcheon • Porcelain Lever Handle • 5" Adjustable showerhead <p>T62820 BATH/SHOWER Trim Kit</p> <ul style="list-style-type: none"> • Metal wall escutcheon • Porcelain Lever Handle | <p>T6282 Polished Chrome T6282S Satin Nickel (PVD)</p> <p>T6281 Polished Chrome T6281S Satin Nickel (PVD)</p> <p>T6280 Polished Chrome T6280S Satin Nickel (PVD)</p> | |
| <p>MOMENTS</p>   | <p>T506.502 BATH/SHOWER Trim Kit</p> <ul style="list-style-type: none"> • Brass wall escutcheon • Adjustable "3 function" showerhead • Brass diverter tub spout • LESS Valve <p>T506.501 SHOWER ONLY Trim Kit</p> <ul style="list-style-type: none"> • Brass wall escutcheon • Adjustable "3 function" showerhead • LESS Valve <p>T506.500 VALVE ONLY Trim Kit</p> <ul style="list-style-type: none"> • Brass wall escutcheon • LESS Valve | <p>.002 Polished Chrome .075 Stainless Steel (PVD)</p> | |
| <p>JASMINE</p>   | <p>T808.502 BATH/SHOWER Trim Kit</p> <ul style="list-style-type: none"> • Brass wall escutcheon • Metal Lever Handle • Rain showerhead • Cast brass shower arm • Cast brass diverter tub spout <p>T808.501 SHOWER ONLY Trim Kit</p> <ul style="list-style-type: none"> • Brass wall escutcheon • Metal Lever Handle • Rain showerhead • Cast brass shower arm <p>T808.500 BATH/SHOWER Trim Kit</p> <ul style="list-style-type: none"> • Brass wall escutcheon • Metal Lever Handle | <p>.002 Polished Chrome .008 Polished Nickel .068 Blackened Bronze (PVD) .099 Polished Brass (PVD) .221 Satin (PVD)/Pol.Chrome mix. .295 Satin Nickel (PVD) .297 Satin/Brass mixage (PVD) .299 Pol. Chrome/Brass (PVD) mix.</p> | |
| <p>TENDENCE</p>   | <p>T086.502 BATH/SHOWER Trim Kit</p> <ul style="list-style-type: none"> • Brass wall escutcheon • Metal Lever Handle • "Vario" adjustable showerhead • Cast brass shower arm • Cast brass diverter tub spout <p>T086.501 SHOWER ONLY Trim Kit</p> <ul style="list-style-type: none"> • Brass wall escutcheon • Metal Lever Handle • "Vario" adjustable showerhead • Cast brass shower arm <p>T086.500 BATH/SHOWER Trim Kit</p> <ul style="list-style-type: none"> • Brass wall escutcheon • Metal Lever Handle | <p>.002 Polished Chrome .295 Satin Nickel (PVD)</p> | |

SPECIFICATION:

JOSAM SERIES 71000 CAST BRONZE NON-FREEZE WALL HYDRANT WITH SATIN FINISH STAINLESS STEEL HINGED LATCHING COVER, 3/4" HPT OUTLET, INTEGRAL VACUUM BREAKER-BACK FLOW PREVENTER, PRESSURE RELIEF VALVE, BRONZE CASING, BRONZE OPERATING PARTS CONVERTIBLE INTO SERVICE TOOL, AND 3/4" FEMALE & 1" MALE NPT INLET CONNECTIONS.

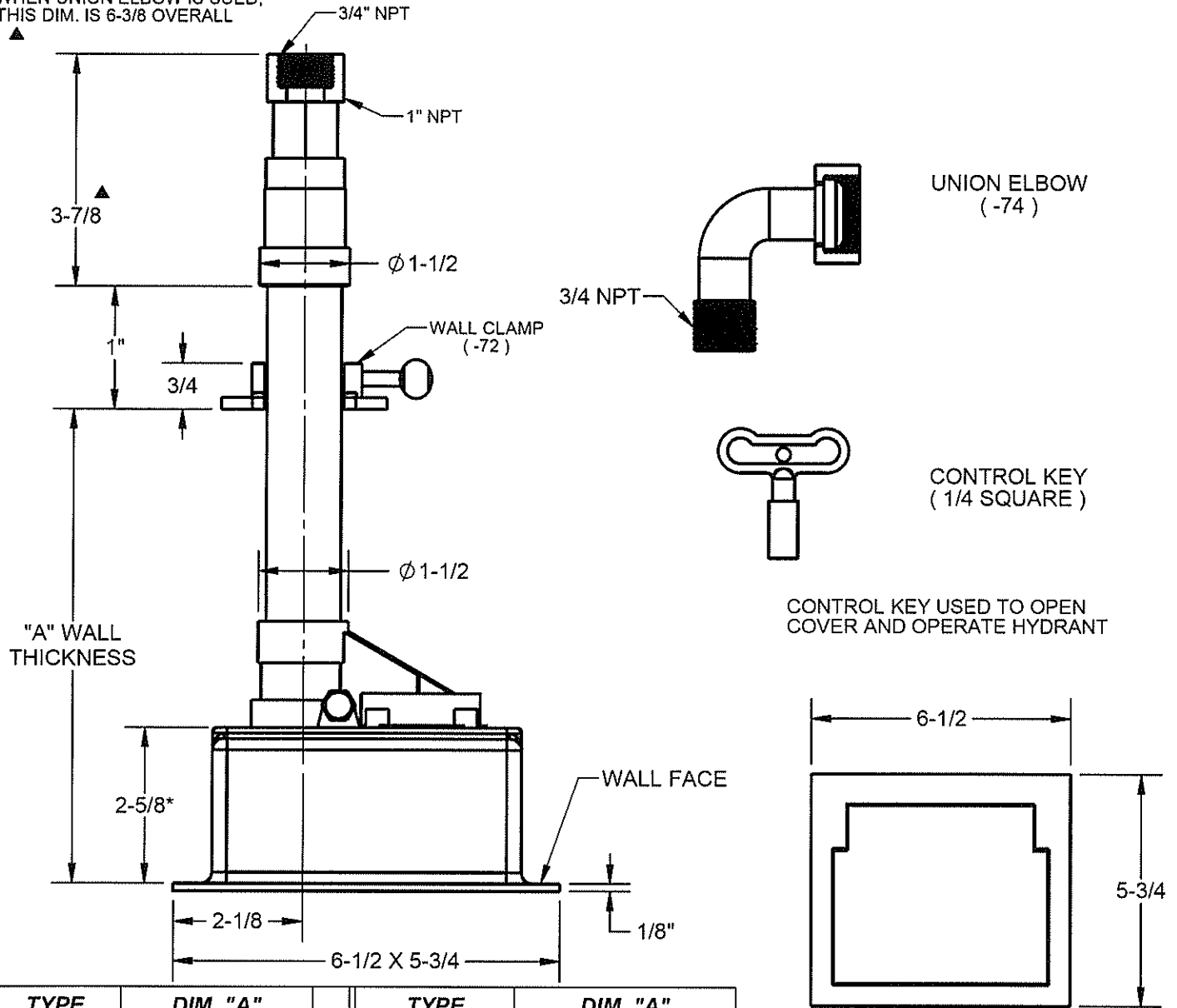
HYDRANTS

HYDRASAN® 1 NON-FREEZE W/ BOX

SERIES

71000

WHEN UNION ELBOW IS USED, THIS DIM. IS 6-3/8 OVERALL



| TYPE | DIM. "A" | TYPE | DIM. "A" |
|------------|----------|----------|----------|
| 71000-4 | 4-3/4 | 71000-16 | 16-3/4 |
| 71000-6 | 6-3/4 | 71000-18 | 18-3/4 |
| 71000-8 | 8-3/4 | 71000-20 | 20-3/4 |
| 71000-10 | 10-3/4 | 71000-22 | 22-3/4 |
| 71000-12 | 12-3/4 | 71000-24 | 24-3/4 |
| ✓ 71000-14 | 14-3/4 | | |

* BOX DEPTH IS 1-5/8 ON NIKALOY & BRONZE BOXES

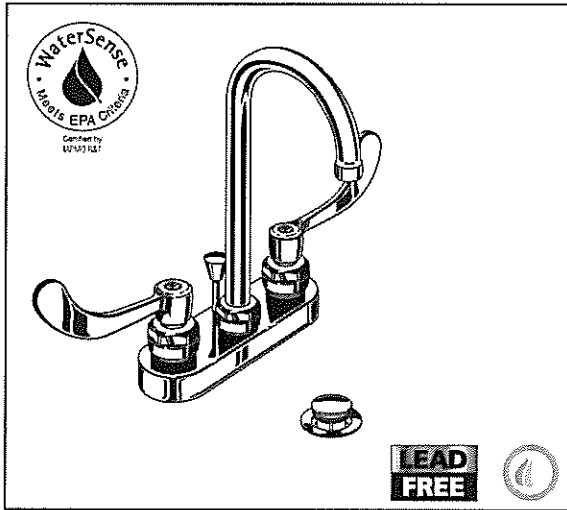
| | | | |
|-------|-------------------------------------|-----|------------------------------|
| * -52 | SATIN FINISH FACE, CAST BRONZE BOX | -74 | UNION ELBOW ASSEMBLY |
| * -54 | SATIN FINISH FACE, CAST NIKALOY BOX | -91 | 1" HOSE PIPE THREADED OUTLET |
| -72 | WALL CLAMP | -95 | CYLINDER SECURED LOCK |
| -73 | SOLDER INLET ADAPTER | -CP | CHROME PLATED BRONZE BOX |

DATE OF LAST CHANGE: 8/23/2011
 DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCES AND CHANGE WITHOUT NOTICE. WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUBSTITUTES OR YOUR DATA.

JOSAM COMPANY
 MICHIGAN CITY, INDIANA

NOTES

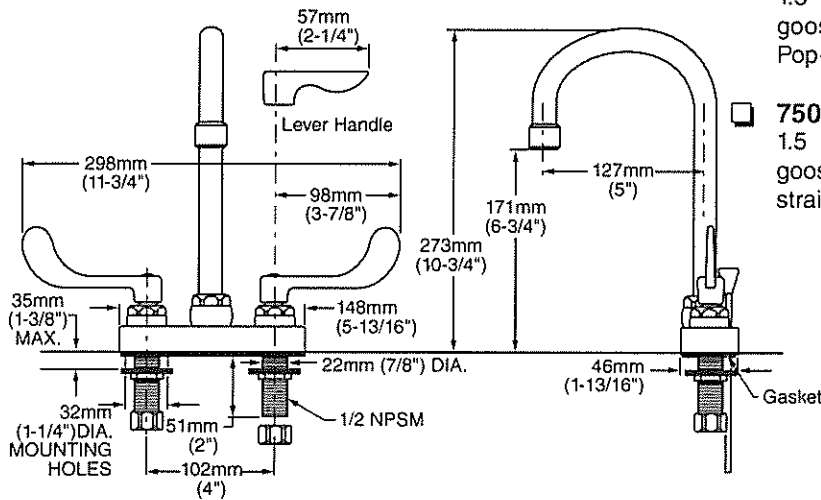
WALL OPENING 4-3/4 x 6-1/4



7501.170 Shown

MODEL NUMBER:*

- 7500.170 Centerset Lavatory**
 1.5 gpm Pressure Compensating Aerator. Rigid/swivel gooseneck spout. Vandal-Resistant Wrist Blade handles. Less drain and pop-up hole.
- 7501.170 Centerset Lavatory**
 1.5 gpm Pressure Compensating Aerator. Rigid/swivel gooseneck spout. Vandal-Resistant Wrist Blade handles. Pop-up drain.
- 7502.170 Centerset Lavatory**
 1.5 gpm Pressure Compensating Aerator. Rigid/swivel gooseneck spout. Vandal-Resistant Wrist Blade handles. Grid strainer drain.
- 7500.140 Centerset Lavatory**
 1.5 gpm Pressure Compensating Aerator. Rigid/swivel gooseneck spout. Vandal-Resistant Lever handles. Less drain and pop-up hole.
- 7501.140 Centerset Lavatory**
 1.5 gpm Pressure Compensating Aerator. Rigid/swivel gooseneck spout. Vandal-Resistant Lever handles. Pop-up drain.
- 7502.140 Centerset Lavatory**
 1.5 gpm Pressure Compensating Aerator. Rigid/swivel gooseneck spout. Vandal-Resistant Lever handles. Grid strainer drain.



GENERAL DESCRIPTION:

Durable cast brass construction. 1/2" male threaded inlet shanks with brass shank nuts and coupling nuts. 1/4 turn ceramic disc valve cartridges. Convertible swivel/rigid spout. Choice of Vandal-Resistant Wrist Blade or Lever handles with blue & red color indexes. All brass drain bodies with 1 1/4" (32mm) tailpieces (on applicable models). 1.5 gpm/5.7L/min. maximum flow rate. Vandal-Resistant and Laminar Flow aerators are available.

PRODUCT FEATURES:

- Pressure Compensating Aerator:** Provides a constant water flow of 1.5 gpm throughout the pressure range
- Solid Brass Construction:** Durable - Excellent in high use applications. Ideal for prolonged contact with water.
- Ceramic Disc Valve Cartridge:** Assures a lifetime of drip-free performance.
- Field-Convertible Swivel/Rigid Spout:** Easily adjusted in the field.
- Lead Free:** Faucet contains ≤ 0.25% total lead content by weighted average.

SUGGESTED SPECIFICATION:

4" centerset lavatory faucet shall be cast brass construction with all brass shank nuts and coupling nuts. Shall feature water-conserving 1.5 gpm/5.7L/min. pressure compensating aerator. Vandal-Resistant handles. Shall also feature 1/4 turn washerless ceramic disc valve cartridges. Fitting shall be American Standard Model # 750_._.002.

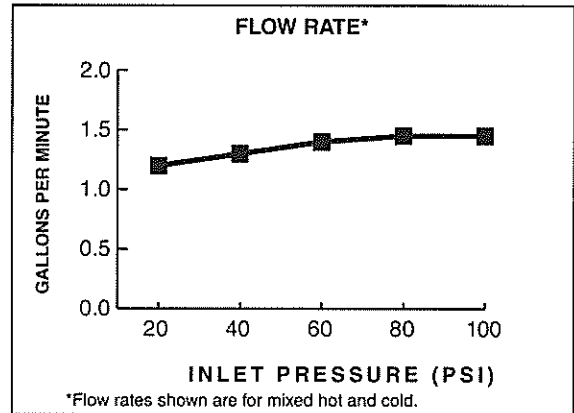


MONTERREY™
TWO-HANDLE CENTERSET LAVATORY FAUCET
WITH GOOSENECK SPOUT

CODES AND STANDARDS

These products meet or exceed the following codes and standards:

- ASME A112.18.1
- CSA B 125
- NSF 61/Section 9 and Annex G



| Product Number | Description | Finish |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| | | Polished Chrome |
| | | 002 |
| 7500.170 | Centerset Lavatory with rigid/swivel gooseneck spout. 1.5 gpm/5.7L/min pressure compensating aerator. Vandal-Resistant Wrist Blade Handles. Less drain and pop-up hole. | |
| 7501.170 | Centerset Lavatory with rigid/swivel gooseneck spout. 1.5 gpm/5.7L/min pressure compensating aerator. Vandal-Resistant Wrist Blade Handles. Pop-up drain. | |
| 7502.170 | Centerset Lavatory with rigid/swivel gooseneck spout. 1.5 gpm/5.7L/min pressure compensating aerator. Vandal-Resistant Wrist Blade Handles. Grid strainer drain. | |
| 7500.140 | Centerset Lavatory with rigid/swivel gooseneck spout. 1.5 gpm/5.7L/min pressure compensating aerator. Vandal-Resistant Lever Handles. Less drain and pop-up hole. | |
| 7501.140 | Centerset Lavatory with rigid/swivel gooseneck spout. 1.5 gpm/5.7L/min pressure compensating aerator. Vandal-Resistant Lever Handles. Pop-up drain. | |
| 7502.140 | Centerset Lavatory with rigid/swivel gooseneck spout. 1.5 gpm/5.7L/min pressure compensating aerator. Vandal-Resistant Lever Handles. Grid strainer drain. | |

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

Other Aerators Available:

| Part Suffix | Description |
|-------------|-----------------------------------------------------------------------------------|
| LV22 | 2.2 gpm (8.3 Lpm) Vandal-Resistant Non-Aerated Laminar Flow Outlet |
| V22 | 2.2 gpm (8.3 Lpm) Vandal-Resistant Aerator |
| A15LV | Anti-Microbial 1.5 gpm (5.7 Lpm) Vandal-Resistant Non-Aerated Laminar Flow Outlet |
| LV15 | 1.5 gpm (5.7 Lpm) PCA Vandal-Resistant Non-Aerated Laminar Flow Outlet |
| V15 | .5 gpm (5.7 Lpm) PCA Vandal-Resistant Aerator |
| LV10 | 1.0 gpm (3.8 Lpm) PCA Vandal-Resistant Non-Aerated Laminar Flow Outlet |
| V10 | 1.0 gpm (3.8 Lpm) PCA Vandal-Resistant Aerator |
| V05 | 0.5 gpm (1.9 Lpm) PCA Vandal-Resistant Non-Aerated Spray |
| V035** | 0.35 gpm (1.3 Lpm) PCA Vandal-Resistant Non-Aerated Spray |

*PCA - Pressure Compensating
 **Meets Cal Green Code

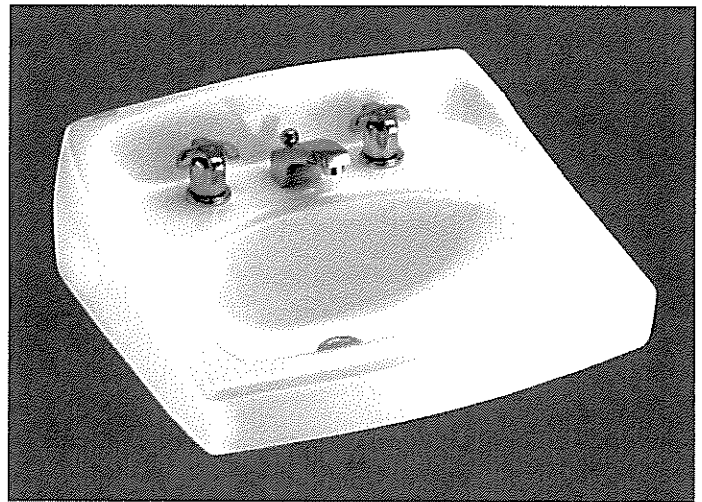


LUCERNE™ WALL-HUNG LAVATORY

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

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

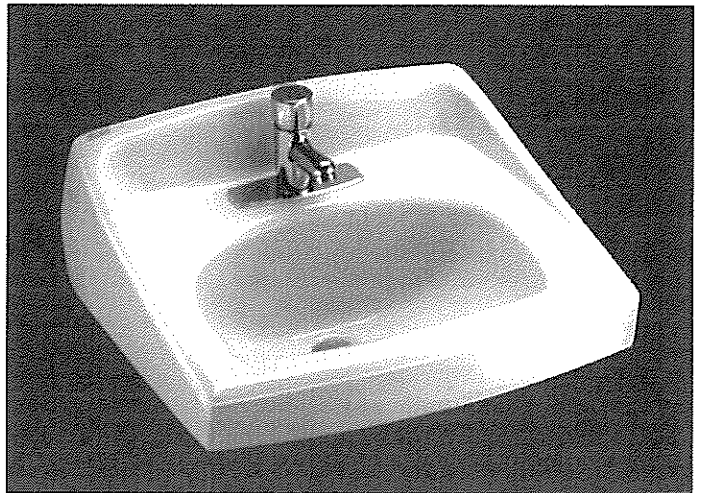
- 0356.028** For exposed bracket support
Shown with 4801.862 Amarilis Heritage faucet with Triune Cross handles (not included)
- 0356.015** For wall hanger (included) or concealed arms support
- 0356.915** For wall hanger (included) or concealed arms support
 - Less overflow



0356.028

Faucet holes on 102mm (4") centers:

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



0356.041

Single center faucet hole (Illus.):

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

Nominal Dimensions:

521 x 464mm
(20-1/2" x 18-1/4")

Bowl sizes:

381mm (15") wide
254mm (10") front to back
165mm (6-1/2") deep

Compliance Certifications -

Meets or Exceeds the Following Specifications:

- ASME A112.19.2 / CSA B45.1 for Vitreous China Fixtures

SEE FOLLOWING PAGES FOR ROUGHING-IN DIMENSIONS

To Be Specified:

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

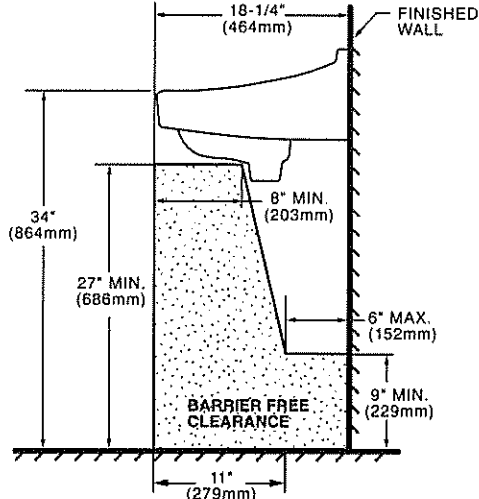
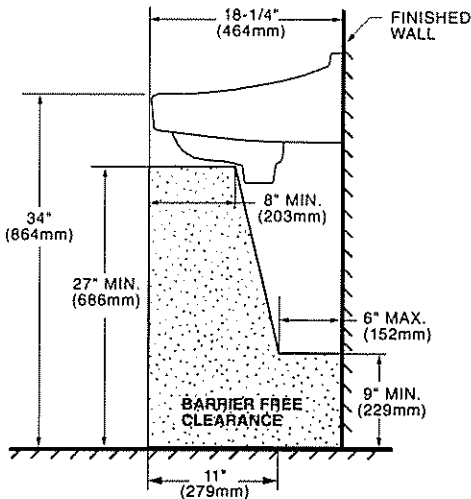
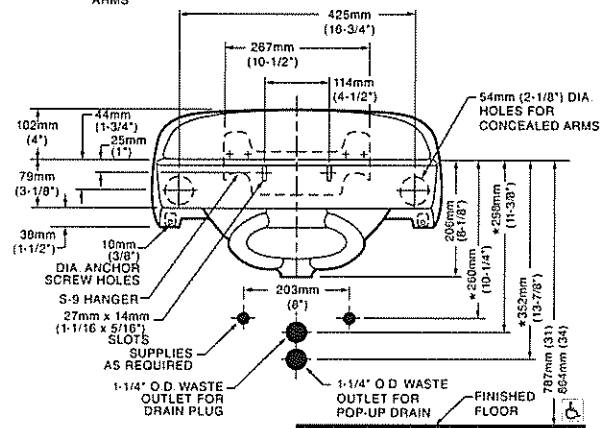
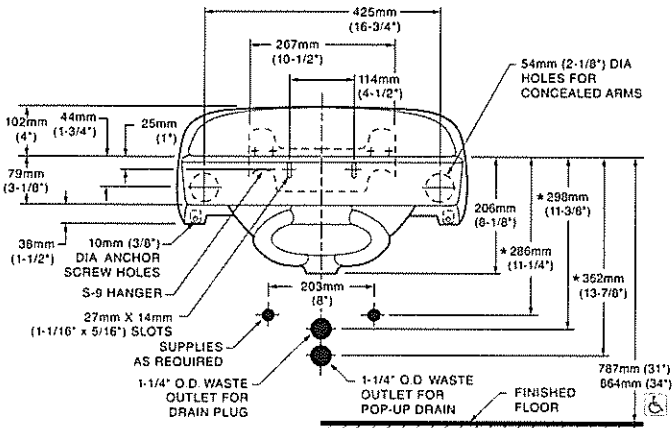
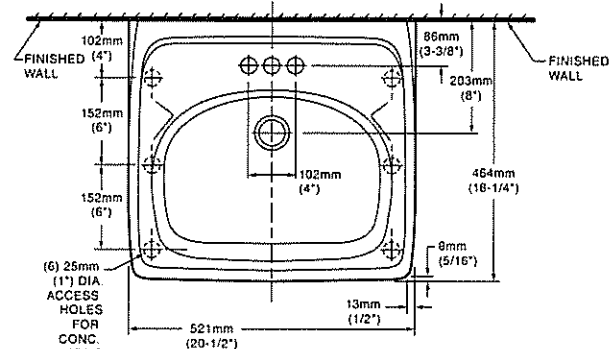
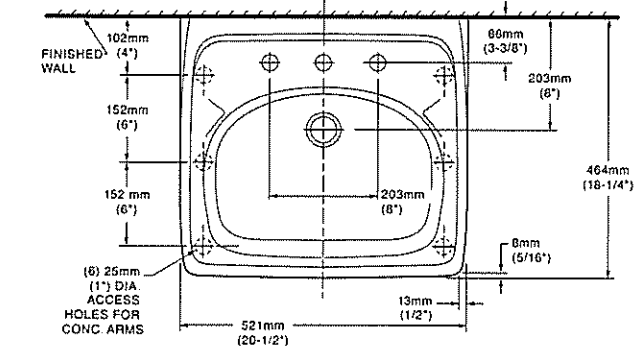
* See faucet section for additional models available



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

- 0356.028 8" CTRS FOR EXPOSED BRACKET SUPPORT
- 0356.015 8" CTRS FOR WALL HANGER OR CONCEALED ARMS
- 0356.915 LESS OVERFLOW

- 0355.027 4" CTRS FOR EXPOSED BRACKET SUPPORT
- 0355.012 4" CTRS FOR WALL HANGER OR CONCEALED ARMS
- 0355.912 LESS OVERFLOW



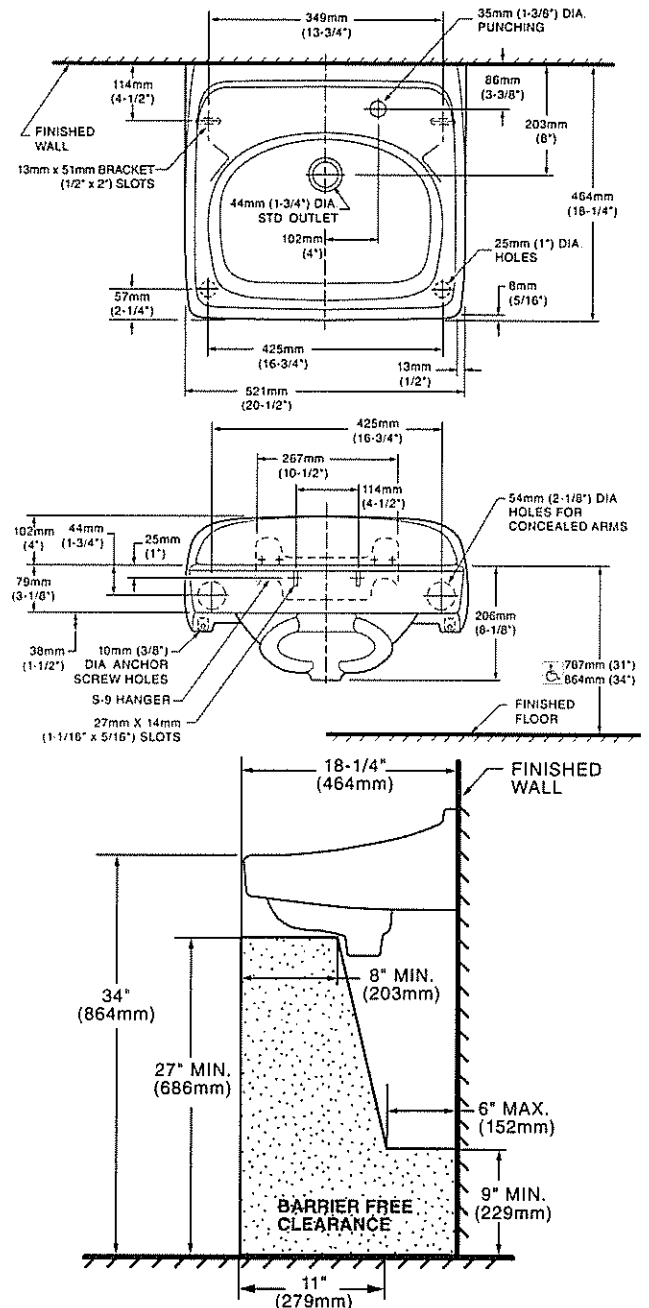
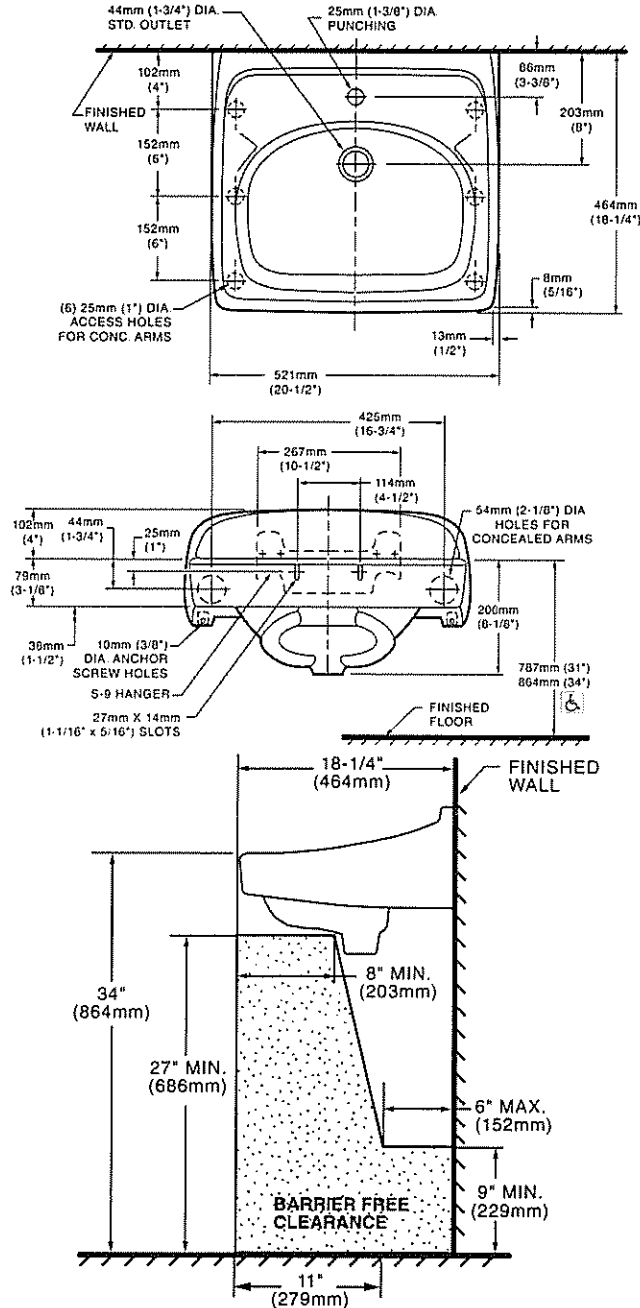
NOTES:
 * DIMENSIONS SHOWN FOR LOCATION OF SUPPLIES AND "P" TRAP ARE SUGGESTED.
 PROVIDE SUITABLE REINFORCEMENT FOR ALL WALL SUPPORTS.
 FITTINGS NOT INCLUDED AND MUST BE ORDERED SEPARATELY.
 CONCEALED ARM SUPPORT AS REQUIRED TO BE FURNISHED BY OTHERS.

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

♿ LAVATORY DESIGNED TO MEET ADA HANDICAPPED GUIDELINES WITH MOUNTING HEIGHT SET AT 864MM (34") ABOVE FINISHED FLOOR.

- 0356.041 SINGLE CENTER HOLE FOR EXPOSED BRACKET SUPPORT
- 0356.421 SINGLE CENTER HOLE FOR WALL HANGER OR CONCEALED ARMS
- 0356.921 LESS OVERFLOW

- 0356.439 SINGLE CENTER HOLE ON RIGHT FOR WALL HANGER OR CONCEALED ARMS
- 0356.066 SINGLE CENTER HOLE ON RIGHT FOR EXPOSED BRACKET SUPPORT



NOTES:
 * DIMENSIONS SHOWN FOR LOCATION OF SUPPLIES AND "P" TRAP ARE SUGGESTED.
 PROVIDE SUITABLE REINFORCEMENT FOR ALL WALL SUPPORTS.
 FITTINGS NOT INCLUDED AND MUST BE ORDERED SEPARATELY.
 CONCEALED ARM SUPPORT AS REQUIRED TO BE FURNISHED BY OTHERS.

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

♿ LAVATORY DESIGNED TO MEET ADA HANDICAPPED GUIDELINES WITH MOUNTING HEIGHT SET AT 864MM (34") ABOVE FINISHED FLOOR.

WASHBROOK® FloWise® UNIVERSAL URINAL

- Vitreous china
- Ultra High Efficiency, Low Consumption. Operates in the range of 0.125gpf to 1.0gpf (0.5 Lpf to 3.8 Lpf)
- Flushing rim
- Elongated 14" rim from finished wall
- Washout flush action
- Extended sides for privacy
- 3/4" inlet spud
- Outlet connection threaded 2" inside (NPTF)
- 2 wall hangers
- Fixture only
- Strainer included
- Meets ASME flush requirements at 0.125 to 1.0 gpf

6590.001 Universal Top spud

6515.001 Universal Back spud

Nominal Dimensions:

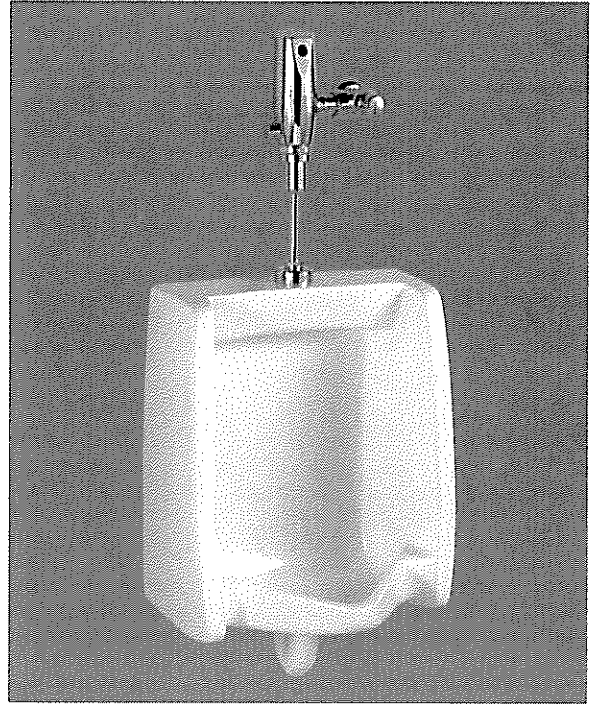
360 x 480 x 664mm
 (14-1/8" x 18-7/8" x 26-1/8")

Recommended working pressure – between
 20 psi at valve when flushing and 80 psi static

Compliance Certifications -

Meets or Exceeds the Following Specifications:

- ASME A112.19.2-2008/CSA B45.1-08 for Vitreous China Fixtures



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

To Be Specified:

Color: White

Flush Valve:

1.0 gpf Flush Valve: Sensor-Operated:

American Standard Selectronic® #6063.101.002
 DC Power (Top Spud)

American Standard Selectronic® #6062.101.002
 AC Power (Back Spud)

1.0 gpf Flush Valve: Manual-Operated:

American Standard # 6045.101.002

0.5 gpf Flush Valve: Sensor-Operated:

American Standard Selectronic® #6063.051.002
 DC Power (Top Spud)

American Standard Selectronic® #6062.051.002
 AC Power (Back Spud)

0.5 gpf Flush Valve: Manual-Operated:

American Standard #6045.051.002

0.125 gpf Flush Valve: Sensor-Operated:

American Standard Selectronic® #6063.013.002
 DC Power (Top Spud)

American Standard Selectronic® #6062.013.002
 AC Power (Back Spud)

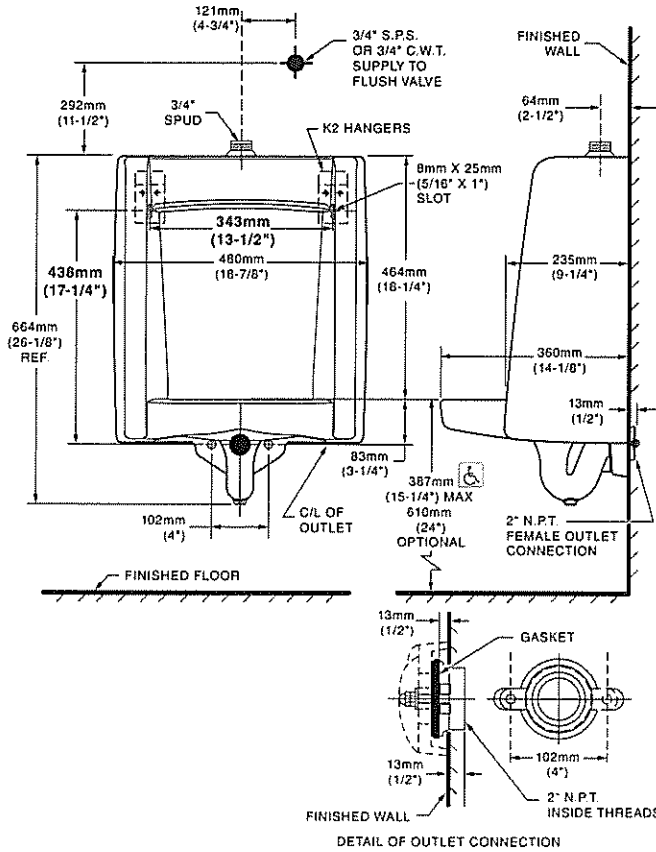
0.125 gpf Flush Valve: Manual-Operated:

American Standard #6045.013.002

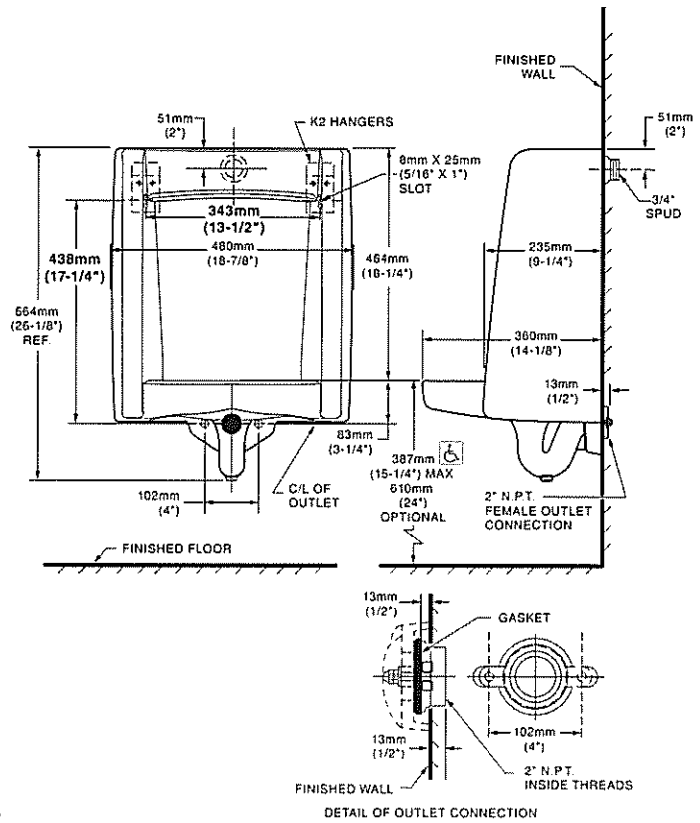


When used with
 0.125 gpf or 0.5 gpf
 urinal flush valves

6590.001 TOP SPUD



6515.001 BACK SPUD



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

• When installed so top of rim is 387mm (15-1/4") from finished floor.

NOTES:

FLUSH VALVE NOT INCLUDED AND MUST BE ORDERED SEPARATELY.
PROVIDE SUITABLE REINFORCEMENT FOR ALL WALL SUPPORTS.

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

**AFWALL® MILLENIUM™ FloWise® 1.28 GPF
FLUSHOMETER TOILET SYSTEM with EVERCLEAN®**

- 2856.128** 1.28 gpf Exposed Top Spud Bowl and Manual Flush Valve

BOWL:

- Wall-mount elongated flushometer valve toilet
- Vitreous china
- High Efficiency. Operates in the range of 1.1 gpf to 1.6 gpf (4.2 Lpf to 6.0 Lpf)
- Permanent EverClean® surface inhibits the growth of stain- and odor-causing bacteria, mold, and mildew on the surface
- Condensation channel
- Direct-fed siphon jet action
- 1-1/2" inlet spud
- Fully-glazed 2-1/8" trapway
- 10" x 12" water surface area
- 100% factory flush tested
- Bolt caps and seat not included
- Model 3351.101

MANUAL FLUSH VALVE:

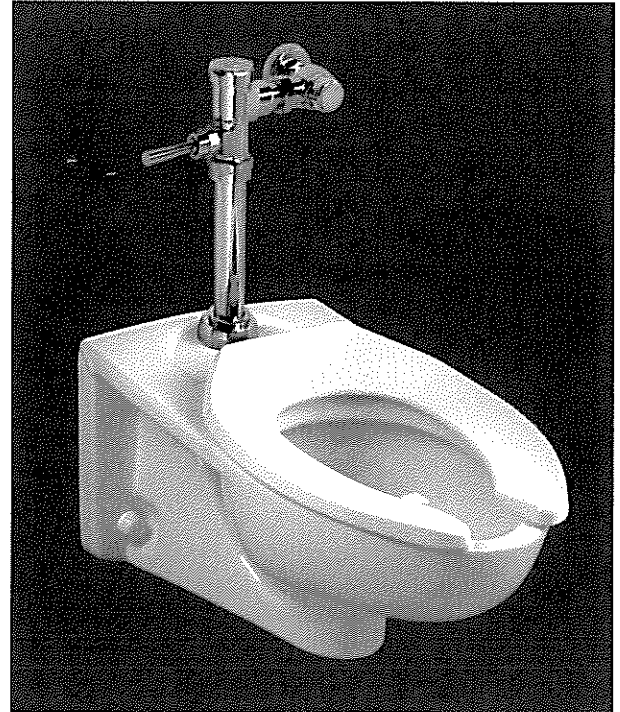
- Manual Piston-Type Water Closet Flush Valve for floor-mounted or wall-hung 1-1/2" top spud bowls
- Self-cleaning brass piston with integral wiper spring prevents clogging and reduces maintenance
- Piston operation delivers superior flush accuracy and repeatability
- Piston valve remains closed and does not need to be reset after loss of water pressure
- ADA compliant non-hold open handle provides automatic shut-off after every flush
- Positive seal ensures leak-free performance
- No external volume adjustment
- Durable chrome-plated cast brass construction is ideal for commercial applications
- Chloramine-resistant EPDM seals
- Adjustable tailpiece for rough-in flexibility
- Can be installed left or right handed
- Model 6047.121.002

Includes:

- 047007-0070A Inlet spud (furnished with bowl)
- 1" I.P.S. angle stop with back-flow prevention and vandal-resistant cap
- Sweat solder kit including cover tube and wall flange
- High back pressure vacuum breaker with down tube
- Spud coupling & flange for 1-1/2" top spud

To Be Specified:

- Color: White
- Seat: 5901.100 American Standard Seat
- 5901.110 American Standard Seat with EverClean®
- Alternate Seat: 5905.100 Heavy Duty American Standard Seat
- 5905.110 Heavy Duty American Standard Seat with EverClean
- Carrier Fitting (by others):



SEE REVERSE FOR ROUGHING-IN DIMENSIONS

High-Efficiency Toilet Systems:

- 20% water savings when compared to a 1.6 gpf toilet system

System MaP* Score:

- 1,000 grams of miso @ 1.28 gpf

* Maximum Performance (MaP) testing performed by IAPMO R&T Lab. MaP Report conducted by Veritec Consulting, Inc. and Koeller and Company.

Operating Pressure:

25 psi (flowing) - 80 psi (static)

Flow Requirement:

25gpm (94.6 L/min.)

Nominal Fixture Dimensions:

660 x 356 x 381mm (26" x 14" x 15")

EVERCLEAN®
Surface

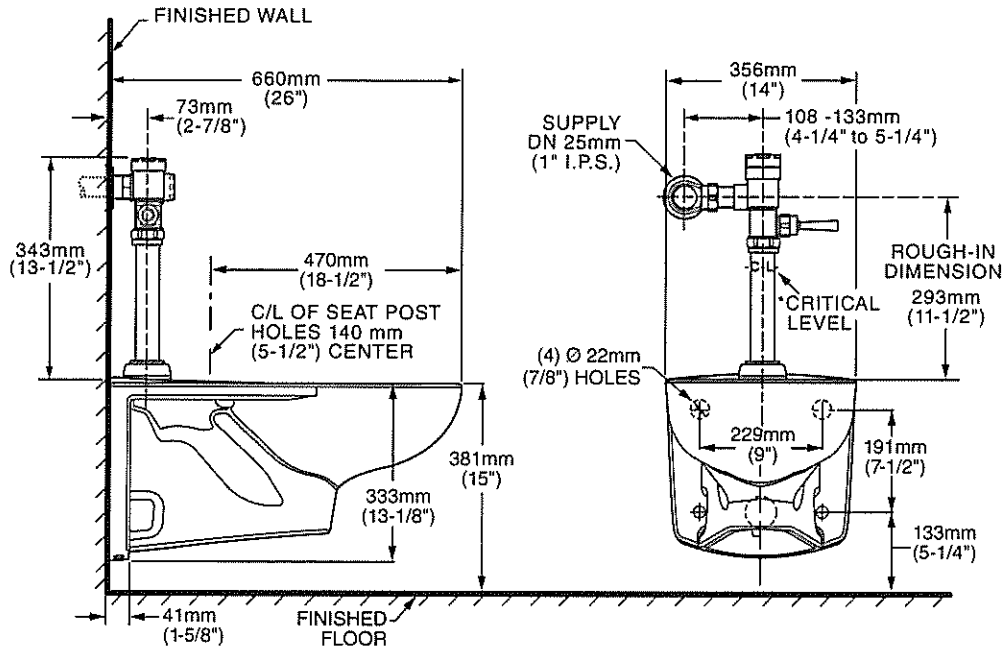


Fixture Compliance Certifications - Meets or Exceeds the Following Specifications:

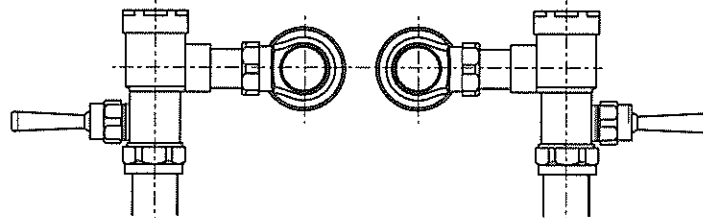
- ASME A112.19.2-2008 / CSA B45.1-08 for Vitreous China Fixtures

Valve Listings:

- ASSE 1037
- ANSI/ASME A112.19.2
- ADA Compliant



*Note: The Critical Line (-C-L) on Vacuum Breaker must typically be a minimum of 6" (152mm) above fixture. Consult Codes for details.



VALVE LEFT or RIGHT HAND INSTALLATION



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

- When installed so that top of seat is 432 to 483mm (17" to 19") from the finished floor.

NOTES:

WASTE OUTLET SEAL RING MUST BE NEOPRENE OR GRAPHITE-FELT (WAX RING NOT RECOMMENDED).
 SUGGESTED 2mm (1/16) CLEARANCE BETWEEN FACE OF WALL AND BACK OF BOWL. TO COMPLY WITH AREA CODE GOVERNING THE HEIGHT OF VACUUM BREAKER ON THE FLUSHOMETER VALVE, THE PLUMBER MUST VERIFY DIMENSIONS SHOWN FOR SUPPLY ROUGHING.
 CARRIER FITTING AS REQUIRED TO BE FURNISHED BY OTHERS.
 PROVIDE SUITABLE REINFORCEMENT FOR ALL WALL SUPPORT.

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

MILCOR

**M-FLUSH ACCESS
DOOR SUBMITTAL**

5030 Corporate Exchange Blvd S. Grand Rapids, MI 49512
PH: 800-624-8642 FAX: 866-466-9335
www.commercialproductsgroup.com

- 16 GA. C.R.S. ONE PIECE FRAME
- 16 GA. C.R.S. DOOR PANEL
- CONCEALED SPRING HINGE ALLOWING DOOR TO OPEN 175°
- EASY OPENING SCREWDRIVER CAM LATCH
- 22"x22" - 36"x36"
- AVAILABLE IN 1/4" INCREMENTS
- GRAY POWDER COATED STEEL
- AVAILABLE IN STAINLESS STEEL OR GALVANIZED STEEL
- OPTIONAL POWDER COAT COLORS INCLUDE BRILLIANT WHITE, GOLD SAND, AND JET BLACK
- ROUGH OPENING = WIDTH + 1/4" X HEIGHT + 1/4"

VERIFICATION AND APPROVAL OF GENERAL ARRANGEMENT AND OVERALL DIMENSIONS OF THIS DOCUMENT ARE REQUIRED BEFORE THE ORDER IS ENTERED FOR MANUFACTURING.

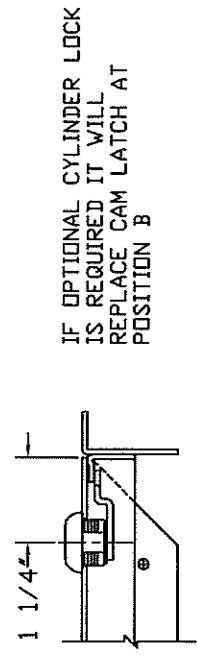
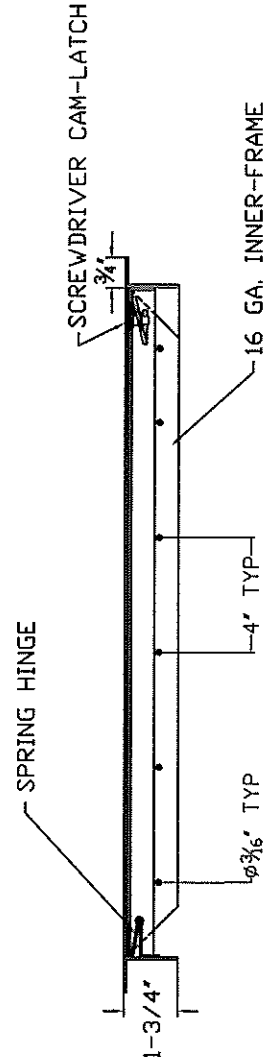
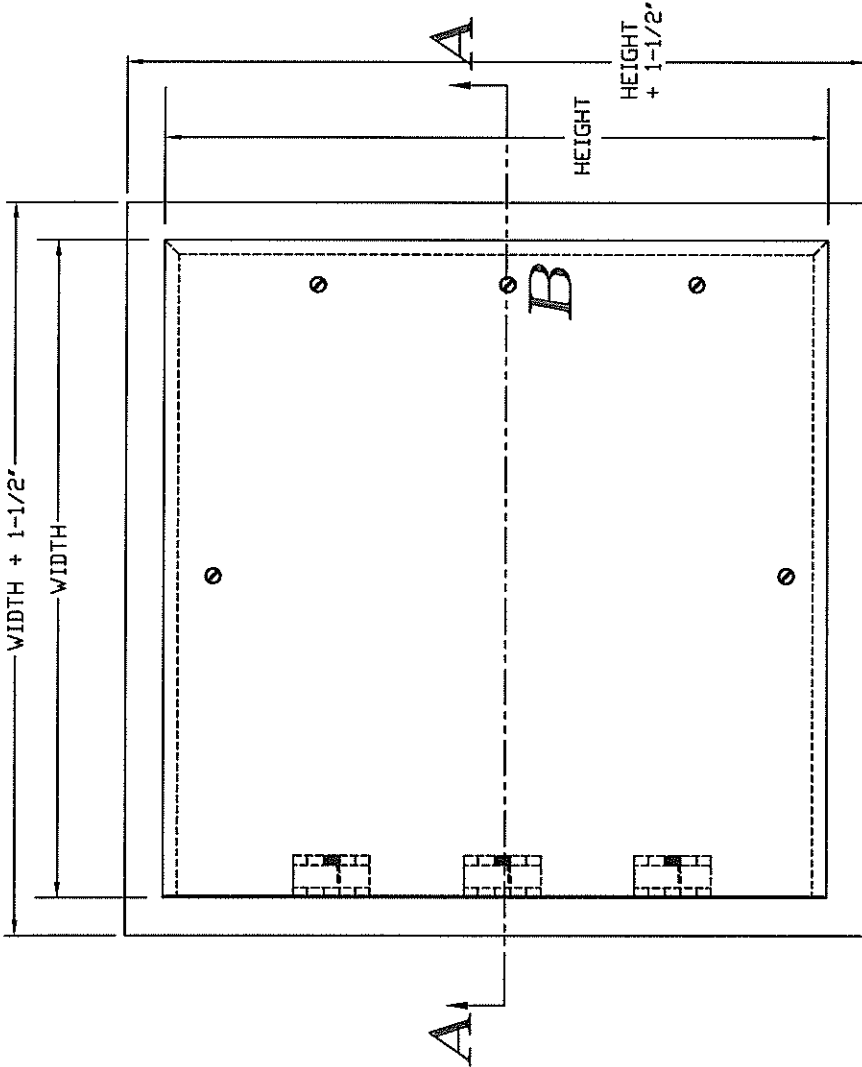
APPROVAL SIGNATURE _____

TITLE HELD _____

DATE OF APPROVAL _____

STANDARD SIZES & PART #'S

| QTY. | PRODUCT PART #'S | DOOR SIZE (W X H) | No. OF CAMS | No. OF HINGES |
|------|------------------|-------------------|-------------|---------------|
| | 3202-026 | 20 x 24 | 4 | 2 |
| | 3202-028 | 20 x 30 | 5 | 3 |
| | 3202-029 | 22 x 22 | 4 | 2 |
| | 3202-031 | 22 x 30 | 4 | 3 |
| | 3202-033 | 22 x 36 | 4 | 3 |
| | 3202-030 | 24 x 24 | 4 | 2 |
| | 3202-032 | 24 x 30 | 5 | 3 |
| | 3202-034 | 24 x 36 | 5 | 3 |
| | 3202-035 | 24 x 48 | 5 | 5 |
| | 3202-038 | 30 x 30 | 5 | 4 |
| | 3202-046 | 36 x 36 | 5 | 5 |



IF OPTIONAL CYLINDER LOCK IS REQUIRED IT WILL REPLACE CAM LATCH AT POSITION B

OPTIONAL CYLINDER LOCK

SECTION VIEW A-A

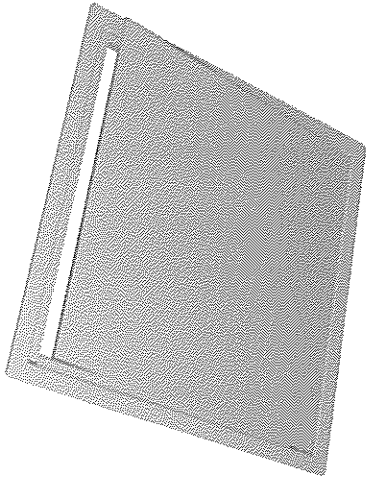
ARCHITECTURAL GRADE FLUSH DOOR - M

FOR DRYWALL, MASONRY OR TILE WALLS

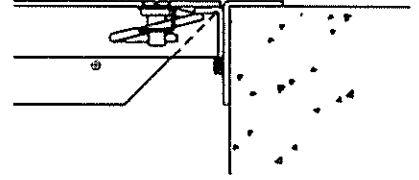
Milcor M Access Doors provide critical service access in drywall, masonry or tile walls and offer superior resistance to corrosion.

Specifications

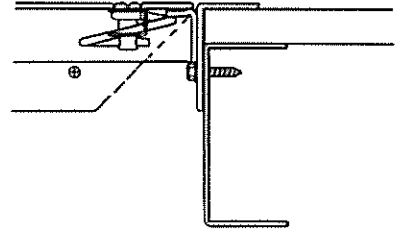
- **Material:** Attractive one-piece 16-gauge steel frame and door panel
- **Finishes:** Available in Powder Coated Gray, Galvanized, or Stainless Steel
- **Hinge:** Concealed Spring Hinges mounted to frame to allow 175 degree opening for complete access.
- **Lock:** Screwdriver operated cam latch or Cylinder Lock furnished with two keys. Other custom options available upon request.
- **Optional Colors:** Brilliant White, Gold Sand and Jet Black



Masonry or Tile Wall Installation Detail



Drywall Installation Detail



| Door Size* | Door Style | Opening | Model No. | Model No. | No. Cambs | No. Hinges | Shipping Wt. Lbs. |
|------------|------------|-------------------|-------------|------------|-----------|------------|-------------------|
| 6" x 6" | Style M | 6-1/4" x 6-1/4" | 3202-1218-9 | 3202-008-9 | 1 | 1 | 3 |
| 8" x 8" | Style M | 8-1/4" x 8-1/4" | 3202-410-9 | 3202-010-9 | 1 | 1 | 5 |
| 8" x 12" | Style M | 8-1/4" x 12-1/4" | 3202-412-9 | 3202-012-9 | 1 | 1 | 6 |
| 10" x 10" | Style M | 10-1/4" x 10-1/4" | 3202-414-9 | 3202-014-9 | 1 | 1 | 8 |
| 12" x 12" | Style M | 12-1/4" x 12-1/4" | 3202-416-9 | 3202-016-9 | 1 | 1 | 10 |
| 12" x 18" | Style M | 12-1/4" x 18-1/4" | 3202-1064-9 | 3202-016-9 | 1 | 2 | 10 |
| 12" x 18" | Style M | 12-1/4" x 18-1/4" | 3202-1064-9 | 3202-016-9 | 1 | 1 | 10 |
| 12" x 24" | Style M | 12-1/4" x 24-1/4" | 3202-1117-9 | 3202-019-9 | 2 | 2 | 11 |
| 14" x 14" | Style M | 14-1/4" x 14-1/4" | 3202-1032-9 | 3202-015-9 | 1 | 1 | 10 |
| 16" x 16" | Style M | 16-1/4" x 16-1/4" | 3202-420-9 | 3202-020-9 | 1 | 1 | 12 |
| 16" x 20" | Style M | 16-1/4" x 20-1/4" | 3202-1063-9 | 3202-022-9 | 1 | 2 | 14 |
| 18" x 18" | Style M | 18-1/4" x 18-1/4" | 3202-424-9 | 3202-024-9 | 1 | 2 | 13 |
| 18" x 24" | Style M | 18-1/4" x 24-1/4" | 3202-1027-9 | 3202-027-9 | 2 | 2 | 17 |
| 20" x 20" | Style M | 20-1/4" x 20-1/4" | 3202-1027-9 | 3202-027-9 | 2 | 2 | 16 |
| 20" x 24" | Style M | 20-1/4" x 24-1/4" | 3202-026-9 | 3202-026-9 | 4 | 2 | 20 |
| 20" x 30" | Style M | 20-1/4" x 30-1/4" | 3202-1189-9 | 3202-028-9 | 5 | 3 | 24 |
| 22" x 22" | Style M | 22-1/4" x 22-1/4" | 3202-1077-9 | 3202-029-9 | 4 | 2 | 20 |
| 22" x 30" | Style M | 22-1/4" x 30-1/4" | 3202-031-9 | 3202-031-9 | 4 | 3 | 24 |
| 22" x 36" | Style M | 22-1/4" x 36-1/4" | 3202-033-9 | 3202-033-9 | 4 | 3 | 29 |
| 24" x 24" | Style M | 24-1/4" x 24-1/4" | 3202-430-9 | 3202-030-9 | 4 | 2 | 21 |
| 24" x 30" | Style M | 24-1/4" x 30-1/4" | 3202-1160-9 | 3202-032-9 | 5 | 3 | 26 |
| 24" x 36" | Style M | 24-1/4" x 36-1/4" | 3202-1116-9 | 3202-034-9 | 5 | 3 | 32 |
| 24" x 48" | Style M | 24-1/4" x 48-1/4" | 3202-1152-9 | 3202-035-9 | 5 | 5 | 41 |
| 30" x 30" | Style M | 30-1/4" x 30-1/4" | 3202-1038-9 | 3202-038-9 | 5 | 4 | 30 |
| 36" x 36" | Style M | 36-1/4" x 36-1/4" | 3202-1024-9 | 3202-046-9 | 5 | 5 | 42 |

*One cam latch centered at top and bottom of panel; balance on side opposite hinges



| | |
|----------------|------|
| Catalog Number | |
| Notes | Type |

FEATURES & SPECIFICATIONS

INTENDED USE

Provides focused illumination for outdoor use in residential and light commercial applications. Ideal for walkways, patios, and play areas creating an inviting exterior space as well as providing safety and security. Eave or wall-mount only.

ATTRIBUTES

Dusk-to-dawn photocell automatically turns on at dusk and off at dawn for convenience and energy savings. Rugged, weather and rust resistant die-cast aluminum canopy and socket holders (gasket included) in bronze or white finish. Tool-free adjustable heads for up/down and side-to-side aiming which allows for light to be focused in two directions and is perfect for mounting on the corner of structures. Designed for easy mounting to junction box.

Utilizes (2) outdoor rated PAR medium base lamps, up to 150W. (Not included)

LISTING

CUL listed to US and Canadian safety standards and suitable for wet locations.

WARRANTY

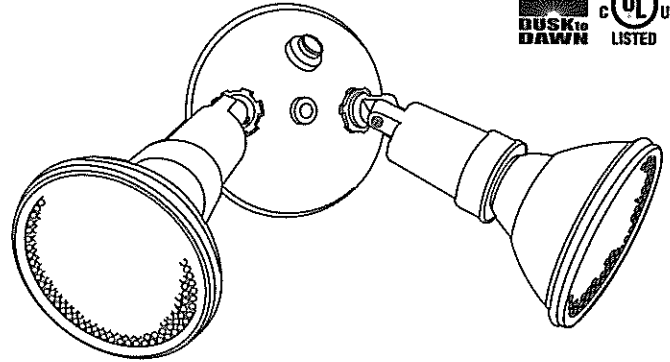
Guaranteed for one year against mechanical defects in manufacture.

Outdoor General Purpose

Twin PAR Holder

Dusk-to-Dawn

Outdoor PAR

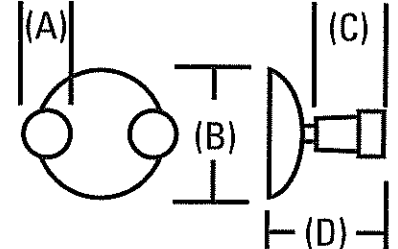


DIMENSIONS

| Lamp Configuration | Model Number | Number of Lamps | (A) Diameter inches (cm) | (B) Height inches (cm) | (C) Length inches (cm) | (D) Extension* inches (cm) |
|--------------------|--------------|---------------------------------------------|--------------------------|------------------------|------------------------|----------------------------|
| | OFTH 300PR | (2) up to 150W outdoor PAR medium base lamp | 2' (5.1) | 5' (12.7) | 3' (7.6) | 6' (15.2) |

* Maximum extension from wall

All dimensions are in inches (centimeters)



ORDERING INFORMATION

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line. Order accessories as and replacement parts separate catalog numbers.

Example: **OFTH 300PR 120 P BZ**

| |
|---------------------------------------------------------------------------|
| OFTH 300PR |
| Model Number |
| OFTH 300PR (2) up to 150W outdoor PAR medium base (lamps required) |

| |
|---------------------------------------------------------------|
| 120 |
| Ballast/Voltage |
| 120 120 volt residential electronic ballast (standard) |

| |
|---------------------------------|
| P |
| Features |
| P Dusk-to-Dawn photocell |

| | |
|-----------|-----------|
| BZ | WH |
| Finish | Finish |
| BZ Bronze | WH White |

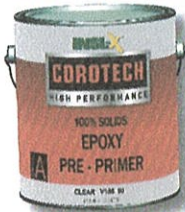
High Performance Epoxy Coatings



| Product | | Vehicle Type | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| V 440 Series | WATERBORNE AMINE ADDUCT EPOXY - 2 Part - | Amine Adduct Epoxy | |
| Description | Features | Technical | VOC |
| COROTECH® V440 Waterborne Amine Epoxy is formulated to provide superior chemical, abrasion and impact resistance. The highly cross-linked film provides years of service in industrial and commercial applications and is particularly suited for use on concrete floors subjected to severe service conditions. | <ul style="list-style-type: none"> • Low odor and Low VOC for occupied areas • Excellent abrasion and chemical resistance • Easy application and clean-up • Hard, scratch and impact resistant coating • Suitable for use in USDA inspected facilities | Volume Solids- 42.1 % 60° Specular Gloss- 85 + Mixing ratio- 3 : 1 Induction Time- 30 minutes Pot Life- 6 hours @ 77 °F Recommended Film Thickness- Dry- 1.4 - 1.8 mils Wet- 3.4 - 4.3 mils Coverage- 375 - 475 sq.ft/gal. Return to service time- 8 hours (24 hours on floors) | < 200 gms / liter < 1.68 Lbs/gal |



| Product | | Vehicle Type | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| V 155 | EPOXY PRE - PRIMER- Hydrophobic Surface Tolerant | Polyamide Epoxy | |
| Description | Features | Technical | VOC |
| Formulated for use on clean, rusted steel where extensive surface preparation is needed, but not possible. A unique 100% solids epoxy coating that drives out moisture and wicks into corroded metal plate on plate surface, to form a sealed epoxy barrier inhibiting future corrosion without dismantling the structural members. | <ul style="list-style-type: none"> • Extremely low viscosity 100% solids formulation for maximum filling of voids and crevices • Chemical and fume resistant • Hydrophobic- drives out moisture in voids • Extreme surface tolerance • Requires minimum surface preparation • Qualifies for LEEDS credits • Suitable for use in USDA inspected facilities • Prevents out-gassing on concrete surfaces | Volume Solids- 98+ % 60° Specular Gloss- 60 + Mixing ratio- 3 : 1 Induction Time- 30 minutes Pot Life- 3-4 hours @ 77 °F Recommended Film Thickness- Dry- 1.0 - 1.5 mils Wet- 1.0 - 1.5 mils Coverage- 1000 - 1500 sq.ft/gal. Re-coat time- 12 hours | < 10 gms / liter < .08 Lbs/gal |



| Product | | Vehicle Type | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| V 163 | EPOXY BLOCK FILLER | Waterborne Epoxy | |
| Description | Features | Technical | VOC |
| COROTECH® V163 Waterborne Epoxy Block Filler is a high solids epoxy block filler that can be cleaned up with soap and water. This product withstands repeated cleanings with high pressure water and can be top-coated with most generic type coatings. | <ul style="list-style-type: none"> • Excellent filling on all masonry and cinder block • Outstanding water resistance • Suitable for use in USDA inspected facilities • Water clean-up • Resists alkalis and acids | Volume Solids- 46 % Mixing ratio- 1 : 1 Induction Time- 30 minutes Pot Life- 6-8 hours @ 77 °F Recommended Film Thickness- Dry- 8.2 - 12.3 mils Wet- 17.8 - 26.7 mils Coverage- 60 - 90 sq.ft/gal. Re-coat time- 16 hours | < 110 gms / liter < .90 Lbs/gal |



Notes:

