

**SECTION 10 28 00
TOILET, BATH, AND LAUNDRY ACCESSORIES**

PART 1 - GENERAL

1.1 DESCRIPTION:

- A. This Section specifies manufactured items usually used in dressing rooms, toilets, baths, locker rooms and at sinks in related spaces.
 - 1. Furnish and install all items specified, except installation only for those indicated "GFCI," which shall indicate "Government Furnished, Contractor Installed."
- B. Items specified:
 - 1. Paper Towel Dispenser, Surface Mounted
 - 2. Shower Curtain Rods
 - 3. Metal Framed Mirror: (10800-7.DWG)
 - 4. Hat and Coat Hook, Surface Mounted
 - 5. Grab Bars, Fixed and Swing Up: (10800-1.DWG)
 - 6. Reversible Solid Phenolic Folding Shower Seat
 - 7. Toilet Seat Cover Dispenser, Surface Mounted
 - 8. Multi-Roll Toilet Tissue Dispenser, Surface Mounted
 - 9. ABAAS Soft Trap Covers
 - 10. Soap Dispenser, Foaming Hair and Body Wash
 - 11. Soap Dispenser, Hand Soap
 - 12. Broom Holders

1.2 RELATED WORK:

- A. 102113 Toilet Compartments

1.3 SUBMITTALS:

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Shop Drawings:
 - 1. Each product specified.
 - 2. Show material and finish, size of members, and details of construction, installation and anchorage of items specified.
- C. Samples:
 - 1. One of each type of accessory specified.
 - 2. After approval, samples may be used in the Work.
- D. Manufacturer's Literature and Data:
 - 1. All accessories specified.

2. Show type of material, gages or metal thickness in inches, finishes, and when required, capacity of accessories.
3. Show working operations of spindle for toilet tissue dispensers.

E. Manufacturer's Certificates:

1. Attesting that soap dispensers are fabricated of material that will not be affected by liquid soap or aseptic detergents, PhisoHex and solutions containing hexachlorophene.
2. Anodized finish as specified.

1.4 QUALITY ASSURANCE:

- A. Each product shall meet, as a minimum, the requirements specified, and shall be a standard commercial product of a manufacturer regularly presently manufacturing items of type specified.
- B. Each accessory type shall be the same and be made by the same manufacturer.
- C. Each accessory shall be assembled to the greatest extent possible before delivery to the site.
- D. Include additional features, which are not specifically prohibited by this specification, but which are a part of the manufacturer's standard commercial product.

1.5 PACKAGING AND DELIVERY:

- A. Pack accessories individually to protect finish.
- B. Deliver accessories to the project only when installation work in rooms is ready to receive them.
- C. Deliver inserts and rough-in frames to site at appropriate time for building-in.
- D. Deliver products to site in sealed packages of containers; labeled for identification with manufacturer's name, brand, and contents.

1.6 STORAGE:

- A. Store products in weathertight and dry storage facility.
- B. Protect from damage from handling, weather and construction operations before, during and after installation in accordance with manufacturer's instructions.

1.7 APPLICABLE PUBLICATIONS:

- A. Publications listed below form a part of this specification to the extent referenced. Publications are referenced in the text by the basic designation only.
- B. American Society for Testing and Materials (ASTM):
 - A167-99(R2004).....Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet and Strip.
 - A176-99(R2004).....Stainless and Heat-Resisting Chromium Steel Plate, Sheet, and Strip
 - A269-07Seamless and Welded Austenitic Stainless Steel Tubing for General Service
 - A312/A312M-06Seamless and Welded Austenitic Stainless Steel Pipes
 - A653/A653M-07Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process

- B221-06..... Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes, and Tubes
- B456-03..... Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium
- C1036-06..... Flat Glass
- C1048-04..... Heat-Treated Flat Glass-Kind HS, Kind FT Coated and Uncoated Glass
- D635-06..... Rate of Burning and/or Extent and Time of Burning of Self Supporting Plastics in a Horizontal Position
- F446-85 (R2004)..... Consumer Safety Specification for Grab Bars and Accessories Installed in the Bathing Area.
- A269-07..... Seamless and Welded Austenitic Stainless Steel Tubing for General Service
- C. The National Association of Architectural Metal Manufacturers (NAAMM):
- AMP 500 Series Metal Finishes Manual
- AMP 500-505-88 Metal Finishes Manual and Finishes for Stainless Steel
- D. American Welding Society (AWS):
- D10.4-86 (R2000)..... Welding Austenitic Chromium-Nickel Stainless Steel Piping and Tubing
- E. Federal Specifications (Fed. Specs.):
- A-A-3002 Mirrors, Glass
- FF-S-107C (2) Screw, Tapping and Drive
- FF-S-107C..... Screw, Tapping and Drive.
- WW-P-541E(1)..... Plumbing Fixtures (Accessories, Land Use) Detail Specification

PART 2 - PRODUCTS

2.1 MATERIALS:

- A. Aluminum: ASTM B221, alloy 6063-T5 and alloy 6463-T5.
- B. Stainless Steel:
1. Plate or sheet: ASTM A167, Type 302, 304, or 304L, except ASTM A176 where Type 430 is specified, 0.0299-inch thick unless otherwise specified.
 2. Tube: ASTM A269, Alloy Type 302, 304, or 304L.
- C. Stainless Steel Tubing: ASTM A269, Grade 304 or 304L, seamless or welded.
- D. Stainless Steel Pipe: ASTM A312; Grade TP 304 or TP 304L.
- E. Steel Sheet: ASTM A653, zinc-coated (galvanized) coating designation G90.
- F. Glass:
1. ASTM C1036, Type 1, Class 1, Quality q2, for mirrors.
- G. Plywood: PS1, Grade CD.

2.2 FASTENERS:

- A. Exposed Fasteners: Stainless steel or chromium plated brass, finish to match adjacent surface.
- B. Concealed Fasteners: Steel, hot-dip galvanized (except in wet areas such as showers or bath tubs use stainless steel).
- C. Toggle Bolts: For use in hollow masonry or frame construction.
- D. Expansion Shields: Lead or plastic as recommended by accessory manufacturer for component and substrate for use in solid masonry or concrete.
- E. Screws:
 - 1. ASME B18.6.4.
 - 2. Fed Spec. FF-S-107, Stainless steel Type A.
- F. Adhesive: As recommended by manufacturer for products to be joined.

2.3 FINISH:

- A. In accordance with NAAMM AMP 500 series.
- B. Anodized Aluminum:
 - 1. AA-C22A41 Chemically etched medium matte, with clear anodic coating, Class I Architectural, 0.7-mil thick.
- C. AA-M32 Mechanical finish, medium satin.
 - 1. Chromium Plating: ASTM B456, satin or bright as specified, Service Condition No. SC2.
 - 2. Stainless Steel: NAAMM AMP 503, finish number 4.
 - 3. Ferrous Metal:
 - a. Shop Prime: Clean, pretreat and apply one coat of primer and bake.

2.4 FABRICATION, GENERAL:

- A. Welding, AWS D10.4.
- B. Grind dress, and finish welded joints to match finish of adjacent surface.
- C. Form exposed surfaces from one sheet of stock, free of joints.
- D. Provide steel anchors and components required for secure installation.
- E. Form flat surfaces without distortion. Keep exposed surfaces free from scratches and dents. Reinforce doors to prevent warp or twist.
- F. Isolate aluminum from dissimilar metals and from contact with building materials as required to prevent electrolysis and corrosion.
- G. Hot-dip galvanized steel, except stainless steel, anchors and fastening devices.
- H. Shop assemble accessories and package with all components, anchors, fittings, fasteners and keys.
- I. Key items alike.
- J. Provide templates and rough-in measurements as required.
- K. Round and deburr edges of sheets to remove sharp edges.

2.5 PAPER TOWEL DISPENSERS (GFCI):

- A. Surface mounted type with sloping top.
- B. Dispensing capacity for 300 sheets of any type of paper toweling.
- C. Fabricate of stainless steel.
- D. Provide door with continuous hinge at bottom, and either spring tension cam lock or tumbler lock, keyed alike, at top and a refill sight slot in front.
- E. Roll Feed.
- F. Sensor operated to automatically dispense a single paper towel.
- G. Manufacturer and Model: As indicated in Drawings.

2.6 SHOWER CURTAIN RODS (GFCI):

- A. Stainless steel with wall mounted rods at ends.
- B. Curtain material: As indicated in Drawings.
- C. Hooks: As indicated in Drawings.
- D. Ceiling suspension at corner rod: As indicated in Drawings.
- E. Manufacturer and Model: As indicated in Drawings.

2.7 METAL FRAMED MIRRORS (GFCI):

- A. Fed. Spec. A-A-3002 metal frame; stainless steel, type 430.
- B. Mirror Glass:
 - 1. Minimum 6 mm (1/4 inch) thick.
 - 2. Set mirror in a protective vinyl glazing tape.
 - 3. Use tempered glass for mirrors in or adjacent to shower areas.
- C. Frames:
 - 1. Channel or angle shaped section with face of frame not less than 9 mm (3/8 inch) wide.
Fabricate with square corners.
 - 2. Use 0.9 mm (0.036 inch) thick stainless steel.
 - 3. Filler:
 - a. Where mirrors are mounted on walls having ceramic tile wainscots not flush with wall above, provide fillers at void between back of mirror and wall surface.
 - b. Fabricate fillers from same material and finish as the mirror frame, contoured to conceal the void behind the mirror at sides and top.
- D. Back Plate:
 - 1. Fabricate backplate for concealed wall hanging of either zinc-coated, or cadmium plated 0.9 mm (0.036 inch) thick sheet steel, die cut to fit face of mirror frame, and furnish with theft resistant concealed wall fastenings.
 - 2. Use set screw type theft resistant concealed fastening system for mounting mirrors.

- E. Mounting Bracket:
 - 1. Designed to support mirror tight to wall.
 - 2. Designed to retain mirror with concealed set screw fastenings.
- F. Manufacturer and Model: As indicated in Drawings.

2.8 HAT AND COAT HOOKS (GFCI):

- A. ABAAS compliant, wall mounted.
- B. 18-8 Type 304 stainless steel, 12-gauge, satin finish.
- C. Manufacturer and Model: As indicated in Drawings.

2.9 GRAB BARS, FIXED AND SWING UP:

- A. Fed. Spec WW-P-541/8B, Type IV, bars, surface mounted, Class 2, grab bars and ASTM F446.
- B. Fabricate of either stainless steel or nylon coated steel, except use only one type throughout the project:
 - 1. Stainless steel: Grab bars, flanges, mounting plates, supports, screws, bolts, and exposed nuts and washers.
- C. Concealed mount, except grab bars mounted at floor.
- D. Bars:
 - 1. Fabricate from 38 mm (1-1/2 inches) outside diameter tubing.
 - a. Stainless steel, minimum 1.2 mm (0.048 inch) thick.
 - 2. Fabricate in one continuous piece with ends turned toward walls, except swing up and where grab bars are shown continuous around three sides of showers, bars may be fabricated in two sections, with concealed slip joint between.
 - 3. Continuous weld intermediate support to the grab bar.
- E. Flange for Concealed Mounting:
 - 1. Minimum of 2.65 mm (0.105 inch) thick, approximately 75 mm (3 inch) diameter by 13 mm (1/2 inch) deep, with provisions for not less than three set screws for securing flange to back plate.
 - 2. Insert grab bar through center of the flange and continuously weld perimeter of grab bar flush to back side of flange.
 - 3. Provide stainless steel spacer at each flange for wall mounting, same thickness as wall finishes. Mount so that flange imposes no load on wall finishes; repair or replace damaged finishes as required.
- F. Back Plates:
 - 1. Minimum 2.65 mm (0.105 inch/12-gauge) thick G90 galvanized steel.
 - 2. Fabricate in one piece, approximately 6 mm (1/4 inch) deep, with diameter sized to fit flange. Provide slotted holes to accommodate anchor bolts.
- G. Manufacturer and Model: As indicated in Drawings.

2.10 REVERSIBLE SOLID PHENOLIC FOLDING SHOWER SEAT:

- A. ABAAS Compliant, wall mounted.
- B. One piece 8 mm (5/16-inch), ivory colored solid fused melamine faces with black phenolic-resin core.
- C. Fed. Spec. A-A-3002 metal frame; stainless steel, Type 304, 1.6 mm (16-gauge) and 1.2 mm (18-gauge) tubing.
- D. Wall flanges and base plate of Type 304, 18-8 stainless steel.
 - 1. Provide stainless steel spacer at each flange for wall mounting, same thickness as wall tile finishes. Mount so that flange imposes no load on wall tile finishes; repair or replace damaged tile finishes as required.
- E. Back Plates:
 - 1. Minimum 2.65 mm (0.105 inch/12-gauge) thick G90 galvanized steel.
 - 2. Fabricate in one piece, approximately 6 mm (1/4 inch) deep, with diameter sized to fit flange. Provide slotted holes to accommodate anchor bolts.
- F. Spring loaded operation with Type 301, 17-7, 0.6 mm (26 gauge) wire, spot weld to baseplate.
- G. Manufacturer and Model: As indicated in Drawings.

2.11 TOILET SEAT COVER DISPENSERS (GFCI):

- A. Fed. Spec. A-A-3002 metal frame; stainless steel, type 304.
- B. 250 toilet seat cover capacity.
- C. Manufacturer and Model: As indicated in Drawings.

2.12 TOILET TISSUE DISPENSERS (GFCI):

- A. Double roll surface mounted type.
- B. Mount on continuous backplate.
- C. Fabricate of stainless steel.
- D. Removable spindle ABS plastic or chrome plated plastic; wood rollers are not acceptable.
- E. Manufacturer and Model: As indicated in Drawings.

2.13 ABAAS SOFT TRAP COVERS:

- A. ABAAS Compliant.
- B. Soft PVC with Velcro fasteners; gloss white or black color.
- C. P-trap cover and 1-valve and supply cover per fixture; wheelchair offset strainer cover where required.
- D. Class A surface burning characteristics per ASTM E84.
- E. Anti-bacterial and anti-fungal properties.
- F. Manufacturer and Model: As indicated in Drawings.

2.14 HAIR AND BODY WASH SOAP DISPENSERS (GFCI):

- A. ABAAS Compliant, wall mounted in showers.
- B. Manual operation.

- C. Manufacturer and Model: As indicated in Drawings.

2.15 HAND SOAP DISPENSERS (GFCI):

- A. ABAAS Compliant, lavatory mounted.
- B. Manual operation.
- F. Manufacturer and Model: As indicated in Drawings.

2.16 SHOWER CURTAIN RODS (GFCI):

- A. Stainless steel tubing, ASTM A569, minimum 1.27 mm (0.050 inch) wall thickness, 32 mm (1 1/4 inch) outside diameter.
 - 1. Fabricate as required for corner rod; use prefabricated round corner piece, weld and grind to match rods.
- B. Flanges, stainless steel rings, 66 mm (2-5/8 inch) minimum outside diameter, with 2 holes opposite each other for 6 mm (1/4 inch) stainless steel fastening bolts. Provide a set screw within the curvature of each flange for securing the rod.
- C. Intermediate support for rods over 1800 mm (6 feet) long. Provide adjustable ceiling flanges with set screws, tubular hangers and stirrups.

2.17 BROOM HOLDERS (GFCI):

- A. Wall mounted; with shelf above.
- B. Holds 3 mops, 4 hooks.
- C. 18-8 Type 304 stainless steel, 12-gauge, satin finish.
- D. Manufacturer and Model: As indicated in Drawings.

PART 3 - EXECUTION

3.1 PREPARATION:

- A. Before starting work notify Project Engineer in writing of any conflicts detrimental to installation or operation of units.
- B. Verify with the Project Engineer the exact location of accessories.

3.2 INSTALLATION:

- A. Set work accurately, in alignment and where shown. Items shall be plumb, level, free of rack and twist, and set parallel or perpendicular as required to line and plane of surface.
- B. Toggle bolt to steel anchorage plates in frame partitions. Expansion bolt to concrete or CMU.
- C. Install accessories in accordance with the manufacturer's printed instructions and ASTM F446.
- D. Install accessories plumb and level and securely anchor to substrate.
- E. Install accessories in a manner that will permit the accessory to function as designed and allow for servicing as required without hampering or hindering the performance of other devices.
- F. Position and install dispensers, and other devices as indicated, clear of drawers, permitting ample clearance between devices, and readily accessible for maintenance as needed.
- G. Align mirrors, dispensers and other accessories even and level, when installed in battery.
- H. Install accessories to prevent striking by other moving, items or interference with accessibility.

3.3 CLEANING:

- A. After installation, clean as recommended by the manufacturer and protect from damage until completion of the project.

--- E N D ---