

**SECTION 10 28 13.13 – COMMERCIAL TOILET ACCESSORIES****PART 1: GENERAL****1.01 Scope of Standard**

- A. This standard provides general guidance concerning the specific preferences of Texas State University for toilet accessories.
- B. Texas State University recognizes that project conditions and requirements vary, thus precluding the absolute adherence to the items identified herein in all cases. However, unless there is adequate written justification and prior approval by Texas State University, it is expected that these guidelines will govern the design and specifications for Texas State University projects.

**1.02 Design Guidelines: (NOT USED)****1.03 Reference Standards**

- A. ADA-Americans with Disabilities Act of 1990.
- B. ASTM A153-Zinc Coating (Hot-Dip) on Iron and Steel Hardware.
- C. ASTM A167-Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
- D. ASTM A269-Seamless and Welded Austenitic Stainless Steel Tubing for General Service.
- E. ASTM A366-Steel, Sheet, Carbon, Cold-Rolled, Commercial Quality.
- F. ASTM A527-Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process, Lock-Forming Quality.
- G. ASTM C1036-Flat Glass.
- H. State of Texas Architectural Barrier Act published by the State of Texas Licensing & Regulation Commission & ADA/TAS Standards.

**1.04 Quality Assurance**

- A. The work of this section shall be performed by a company which specializes in the type of toilet accessory work required for this project, with a minimum 5 years

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of documented successful experience and shall be performed by skilled workmen thoroughly experienced in the necessary crafts.

- B. Manufacturer shall specialize in manufacturing the types of toilet accessories specified in this section, with a minimum of 10 years of documented successful experience, and have the facilities capable of meeting all requirements of Contract Documents as a single-source responsibility and warranty.
- C. Manufacturer's identification tags or marks are not acceptable on surfaces which will remain exposed to view after installation.
  - 1. Evidence of "patching" after removal of tags or marks is not acceptable.

**1.05 Submittals**

- A. Submit the following according to Conditions of the Construction Contract and Division 1 Specification Sections.
- B. Shop Drawings: Shall clearly indicate but not be limited to:
  - 1. Locations, mounting heights and method of securing each type of toilet accessory, coordinating with tile layouts.
- C. Product Data: Shall be clearly marked to indicate all technical information which specifies full compliance with requirements of this section and Contract Documents, including manufacturer's published installation recommendations for the following:
  - 1. Each type of toilet accessory scheduled on drawings.
- D. Operations and Maintenance Data: Shall clearly indicate manufacturer's printed instructions for operations and maintenance of installed work, including methods and frequency recommended for maintaining optimum condition under anticipated use conditions and precautions against materials and methods which may be detrimental to finishes and performance.
- E. Hazardous Materials Notification: In the event no product or material is available that does not contain asbestos, PCB or other hazardous materials, a "Material Safety Data Sheet" (MSDS) equivalent to OSHA Form 20 shall be submitted for that proposed product or material prior to installation.
- F. Asbestos and PCB Certification: After completion of installation, but prior to Substantial Completion, Contractor shall certify in writing that products and

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materials installed, and processes used, do not contain asbestos or polychlorinated biphenyls (PCB).

**1.06 Warranty**

- A. Comply with General Conditions, agreeing to repair or replace specified materials or work that has failed within the warranty period. Failures include but are not limited to the following:
  - 1. Rough, difficult or noisy operation.
  - 2. Faulty installation.
  - 3. Loose or missing parts.
- B. Mirror Warranty: Comply with General Conditions, except extend warranty period on silver spoilage of mirrors to 15 years.

**PART 2: PRODUCTS****2.01 Acceptable Manufacturers**

- A. General: For the purpose of establishing the minimum functional, aesthetic and quality standards required for work of this section, products of the following manufacturers are specified:
  - 1. Bobrick Washroom Equipment, Inc/North Hollywood, California.
- B. Substitutions: Approval required by Texas State University Project Manager and Director, Custodial Operations.

**2.02 Toilet Accessories: General**

- A. Types and Mounting Locations: Refer to drawings.
- B. Materials:
  - 1. Sheet Steel: ASTM A366, cold-rolled stretcher leveled; G60 galvanized coating.
  - 2. Stainless Steel Sheet: ASTM A167, Type 304, 22 gauge minimum.

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3. Stainless Steel Tubing: ASTM A269, commercial grade, seamless welded.
4. Galvanized Steel Sheet: ASTM A527, G60.
5. Galvanized Steel Mounting Devices: ASTM A153, hot-dip galvanized after fabrication.
6. Adhesive: Epoxy type contact cement.
7. Fasteners, Screws, Bolts, Back-up Plates: Same material as accessory unit. Hot-Dip galvanized if fastener is concealed.
8. Expansion Shields: Fiber, lead or rubber of type recommended by accessory manufacturer.
9. Separator: Of type recommended by accessory manufacturer to prevent electrolysis between two dissimilar materials.
10. Mirror Glass: ASTM C1036, Type 1, Class 1, quality q2, with silvering, electro-plated copper coating and protective organic coating.

**C. General Requirements:**

1. Templates: Required for each type of toilet accessory.
2. Design, finish and keying of items shall be same; 2 keys for each lock.
3. Grab bars in handicap toilets shall be capable of supporting 250 pounds for 5 minutes.
4. Joints: Shall be welded and smooth.
5. Exposed Surfaces: Shall be free of distortion, scratches, dents and other imperfections.

**D. Surface-Mounted Toilet Accessories:**

1. Except where otherwise indicated, units shall be fabricated with tight seams and joints, exposed edges rolled.
2. Doors or Access Panels: Complete with continuous stainless steel piano hinge and stainless steel cable doorstop.
3. Anchorage: Concealed whenever possible.

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- E. Recessed Toilet Accessories:
  - 1. Except where otherwise indicated, fabricate units of all welded construction, without mitered corners.
  - 2. Doors or Access Panels: Complete with continuous stainless steel piano hinge.
  - 3. Anchorage: Concealed when unit is closed.
- F. Finishes:
  - 1. Exposed Stainless Steel: No. 4 brushed finish.

**2.03 Toilet Accessory: Products**

- A. Mirrors
  - 1. Plate-Glass Mirrors: As specified in Section 088313
  - 2. Mirrors Manufactured by Toilet Accessory Manufacturer: As scheduled on drawings.
    - a. Fabricate frames to accommodate wood, felt, plastic, or other glass edge protection material.
    - b. Provide galvanized steel mirror backing sheet not less than 22 gauge and full mirror size and non-absorptive filler and support system that will provide rigid, tamperproof glass installation and prevent moisture accumulation.
    - c. Provide system for mounting mirror units that will provide rigid, tamper-proof installation with galvanized steel device with spring-action locking mechanism to hold mirror in position with no exposed screws or bolts or concealed locking devices requiring a special tool to remove.
    - d. Approved products: Bobrick # B-290-2436 (24" x 36"), stainless steel # 4 finish frame, with plate glass mirror.
    - e. Mount all mirrors in each restroom at height suitable to accommodate ADA code requirements, not just one mirror.

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1. For all Buildings except Residence Life Buildings, Recreation Sports, Student Health Center, Round Rock Higher Education Center and LBJ Student Health Center: Provided and installed by Texas State University.
2. For Residence Life Buildings: ABCO Paper Co., Tork Product #352082 S-1, Liquid System soap, smoked grey plastic.
  - a. The General Contractor shall supply and install.

**C. Toilet Tissue Dispenser:**

1. For all Buildings except Residence Life Buildings, Recreation Sports, Student Health Center, Round Rock Higher Education Center and LBJ Student Health Center: Provided and installed by Texas State University.
2. For Residence Life Buildings, Public and Community Restrooms: ABCO Paper Co., Tork #346090 T2-Twein mini jumbo roll, smoked grey plastic.
  - a. The General Contractor shall supply & install.
3. For Residence Life Buildings, Private Room Restrooms: Grainger No. 3P895, stainless steel.
  - a. The General Contractor shall supply & install.

**D. Towel Dispenser**

1. For all Buildings except Residence Life Buildings, Recreation Sports, Student Health Center, Round Rock Higher Education Center and LBJ Student Health Center: Provided and installed by Texas State University.
2. For Residence Life Building: ABCO Paper Co., Tork #309200 H1, Roll System, hand towel, smoked grey plastic.
  - a. The General Contractor shall supply and install.

**E. Waste Receptacle**

1. Approved Product:
  - a. Recessed: Bobrick Contura Series, #B-43644.
  - b. Surface Mounted: Bobrick Contura Series, #B-277.

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2. Location: Locate one receptacle as close to exit door as possible and one as close to sinks as possible.
3. For Residence Hall Buildings: To be determined by Texas State University-San Marcos.

**F. Sanitary Napkin Disposal Unit**

1. Approved Product:
  - a. Recessed: Bobrick Contura Series, #4353
  - b. Surface Mounted: Bobrick Contura Series, #270
  - c. Partition Mounted: Bobrick Contura # 4354

**G. Grab Bars**

1. Approved Product: Bobrick # B-6206 series

**PART 3: EXECUTION****3.01 Installation****A. Preparation:**

1. Deliver inserts and rough-in frames to Project site at appropriate time for installation.
2. Provide templates and rough-in measurements as required.

**B. Install fixtures, accessories and items in accordance with approved shop drawings and manufacturer's published instructions.**

1. Fully recess units as indicated.
2. In case of any discrepancy in location, consult Architect.

**C. Secure each item to prevent dislocation vandalism.**

1. Attach each item plumb and level in the locations indicated with concealed attachment where possible.
2. If attachment devices are exposed, match finish to the specific item.

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- D. Unless otherwise indicated, locations of accessories shall conform to tile coursing and heights from finished floor as shown on drawings.
  - 1. Where locations are not indicated, locations of accessories shall be as indicated by Architect.
  - 2. Care shall be exercised at all times to assure that tile surfaces are not cracked, chipped or damaged, and that finishes of toilet partitions are not abraded, scratched or damaged.
- E. Installed accessories shall operate quietly and smoothly.
  - 1. Doors and operating hardware shall function without binding or unnecessary friction.
  - 2. Keys shall be turned over to Owner's authorized agent, obtaining receipt for such delivery.
- F. Install sealant between fixtures and adjacent tile or other wall finishes to achieve a tight, closed finished appearance at recessed accessories.
  - 1. Sealant shall conform to requirements of Section 07900/ Joint Sealers.
- G. Mirrors:
  - 1. Coordinate toilet accessories with mirror installation specified in Section 08 83 13/ Mirrors.

**3.02 Adjustments, Cleaning, Protection**

- A. Adjust toilet accessories for proper operation and verify that mechanisms function smoothly.
  - 1. Replace damaged or defective items.
- B. Clean and polish all exposed surfaces after removing temporary labels; protect finished product.
- C. Protect adjacent or adjoining finished surfaces and work from damage during work of this section.

END OF SECTION 10 28 13.13