

## SECTION 10 28 00 – TOILET AND BATH ACCESSORIES

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Provide the work of this Section in accordance with requirements of the Contract Documents
- B. Section includes but is not limited to:
  - 1. Washroom accessories **TA-01A, TA-01B, TA-01C, TA-01D, TA-02, TA-03, TA-04, TA-06, TA-06A, TA-07, TA-09, TA-10, TA-11, TA-16.**
  - 2. Childcare accessories **TA-15.**
  - 3. Custodial accessories **TA-13.**
- C. Related Work:
  - 1. Division 22, Section 24 40 00 "Plumbing Fixtures" for toilet, urinals, faucets, water fountains.

#### 1.2 ACTION SUBMITTALS

- A. Product Data:
  - 1. For each type of product indicated include the following:
    - a. Construction details and dimensions.
    - b. Anchoring and mounting requirements, including requirements for cutouts in other work and substrate preparation.
    - c. Material and finish descriptions.
    - d. Features that will be included for Project.
    - e. Manufacturer's warranty.
- B. Sustainable LEED Submittals:
  - 1. Building Product Disclosure and Optimization - Sourcing of Raw Materials:
    - a. Extended Producer Responsibility (EPR): Submit documentation indicating that manufacturers have a take back or recycling program for the product purchased.
    - b. Recycled Content: For products having recycled content, indicate percentages by weight of post-consumer and pre-consumer recycled content.
      - 1) Include statement indicating costs for each product having recycled content.
    - c. Regional Materials: For products that are required to comply with requirements for regional materials, indicating location of material manufacturer and point of extraction, harvest, or recovery for each raw material.
      - 1) Include statement indicating distance to Project, cost for each regional material and the fraction by weight that is considered regional.

- C. Setting Drawings: For cutouts required in other work; include templates, substrate preparation instructions, and directions for preparing cutouts and installing anchoring devices.
- D. Accessory 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. Fabrication Engineering Submittal: For grab bars.
  - 1. Include structural design calculations indicating compliance with specified structural-performance requirements.
- B. Warranty: Sample of special warranty.
- C. Sustainable Design Submittals:
  - 1. Building Product Disclosure and Optimization - Environmental Product Declarations
    - a. Submit product specific type III EPDs or Industry wide (generic) EPDs, USGBC approved program declaration or products with a publicly available, critically reviewed life-cycle assessment conforming to ISO 14044 that have at least a cradle to gate scope.
  - 2. Building Product Disclosure and Optimization - Material Ingredients
    - a. Material Ingredient Reporting: Submit documentation confirming chemical inventory of products to at least 0.1 % (1000ppm) with at least one of the following:
      - 1) Submit published manufacturer inventory of ingredients identified by name and Chemical Abstract Service Registration Number (CASRN)
      - 2) Submit documentation that product has been certified as Cradle-to-Cradle v3 at the Bronze Level or better
      - 3) Submit Declare product label indicating that all ingredients have been disclosed down to 1000 ppm or designated as Red List Free or Declared
      - 4) Living Product Challenge
      - 5) Product Lens Certification
      - 6) USGBC approved program.
    - b. Material Ingredient Optimization: Submit documentation confirming chemical inventory of products to at least 0.01 % (100ppm) and/or that has a compliant material ingredient optimization report with at least one of the following:
      - 1) Submit GreenScreen V1.2 Benchmark: Third party report prepared by a licensed GreenScreen List Translator, or a full GreenScreen Assessment.
      - 2) Submit third-party verified documentation that product has been certified as Cradle-to-Cradle v3 at the Bronze Level or better
      - 3) Submit third-party verified Cradle to Cradle v3 Material Health certificate at the Bronze Level or better
      - 4) Submit third-party verified Declare product label indicating that all ingredients have been disclosed down to 100 ppm

- 5) Submit third-party verified documentation that product is Living Product Challenge certified with a Red List Free or LBC Red List Free Declare label.
- 6) Submit documentation that product has a manufacturer prepared action plan with material inventory to at least 1000 ppm.

#### **1.4 CLOSEOUT SUBMITTALS**

- A. Maintenance Data: For toilet and bath accessories to include in maintenance manuals.
- B. Provide lists of optional accessories, replacement parts, and service recommendations.

#### **1.5 QUALITY ASSURANCE**

- A. Source Limitations: For products listed together in the same Part 2 articles, obtain products from single source from single manufacturer.
- B. 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.
- C. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution.
  1. Build room corner mockups of the public toilet room to be constructed in the field include the following:
    - a. Wall tile.
    - b. Floor tile / wall base,
    - c. Corner guards.
    - d. Acoustical panel ceiling system.
    - e. Lighting in accordance with Division 26.
    - f. Linear floor drain in accordance with Division 23.
    - g. Toilet partitions.
    - h. Water closets in accordance with Division 22.
    - i. Washroom accessories.
    - j. Typical countertop with plumbing fixtures in accordance with Division 22.
    - k. Restroom traffic management system.
  2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
  3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

#### **1.6 COORDINATION**

- A. Coordinate accessory locations with other work to prevent interference with clearances required for access by people with disabilities, and for proper installation, adjustment, operation, cleaning, and servicing of accessories.
- B. Deliver inserts and anchoring devices set into concrete or masonry as required to prevent delaying the Work.

## **1.7 WARRANTY**

- A. Special Hand Dryer Warranty: Manufacturer's standard form in which manufacturer agrees to replace repair or replace defective hand dryers that fail under normal use and service due to material or workmanship defects within specified warranty period.

1. Warranty Period: 10 years from date of Substantial Completion.

## **PART 2 - PRODUCTS**

### **2.1 PERFORMANCE REQUIREMENTS**

- 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.
- B. Fabrication Engineering for Structural Performance: Engineer structural steel wall reinforcement, accessories, and fasteners to comply with the following requirements:
1. Grab Bars: Installed units are able to resist 250 lbf (1112 N) concentrated load applied in any direction and at any point; except provide 650 lbf concentrated load applied in any direction and at any point for bariatric grab bars, when tested according to ASTM F 446.
  2. Shower Seats: Installed units are able to resist 250 lbf (1112 N) applied in any direction and at any point; except provide 650 lbf concentrated load applied in any direction and at any point for bariatric shower seats

### **2.2 MATERIALS**

- A. Stainless Steel: ASTM A666, Type 304, 0.031-inch (0.8-mm) minimum nominal thickness unless otherwise indicated.
- B. Steel Sheet: ASTM A1008/A1008M, Designation CS (cold rolled, commercial steel), 0.036-inch (0.9-mm) minimum nominal thickness.
- C. Galvanized-Steel Sheet: ASTM A653/A653M, with G60 (Z180) hot-dip zinc coating.
- D. Galvanized-Steel Mounting Devices: ASTM A153/A153M, hot-dip galvanized after fabrication.
- E. Fasteners: Screws, bolts, and other devices of same material as accessory unit and tamper-and-theft resistant where exposed, and of galvanized steel where concealed.
- F. Chrome Plating: ASTM B456, Service Condition Number SC 2 (moderate service).
- G. Glass Mirrors: ASTM C1503; manufactured using copper-free, low-lead mirror coating process, Mirror Glazing Quality; clear glass.
1. Nominal Thickness: Minimum 5.0 mm.
- H. ABS Plastic: Acrylonitrile-butadiene-styrene resin formulation.

## 2.3 WASHROOM ACCESSORIES

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. American Specialties, Inc. (ASI)
  2. Bobrick Washroom Equipment, Inc.
  3. Bradley Corporation.
  4. Electric Mirror.
  5. GAMCO Specialty Accessories; a division of Bobrick Washroom Equipment, Inc.
  6. Lovair.
  7. Rubbermaid.
  8. Splash Lab.
  9. Stern Engineering.
  10. Tork
  11. World Dryer
- B. Paper Towel Dispensers:
1. Continuous Paper Towel (Roll) Dispenser **TA-11:**
    - a. Basis-of-Design Product: Tork 552528 Elevation PeakServe Hand Towel Dispenser.
    - b. Mounting: Surface mounted.
    - c. Minimum Capacity: 2100 universal multifold hand towel.
    - d. Material and Finish: Plastics, black.
    - e. Lockable.
- C. Toilet Tissue (Roll) Dispensers:
1. Toilet Tissue (Mini Jumbo-Roll) Dispenser **TA-03:**
    - a. Basis-of-Design Product: Tork Mini Jumbo Bath Tissue Dispenser 5555290.
    - b. .
    - c. Mounting: Surface mounted.
    - d. Capacity: Two (2) 7.4-inch- (187 -mm-) roll diameter, 3.5 inch (89 mm) roll width, minimum 751 foot (229-m) long roll.
    - e. Material and Finish: Plastics, black.
    - f. Lockable.
- D. Toilet Seat-Cover Dispenser **TA-09:**
1. Basis-of-Design Product: Bobrick Washroom Equipment, Inc. Model B-221 Classic Series Commerical Toilet Seat-Cover Dispenser.
  2. Mounting: Surface mounted.
  3. Minimum Capacity: 250 seat covers.
  4. Exposed Material and Finish: Stainless steel, No. 4 finish (satin).
- E. Grab Bars:
1. Stainless Steel Grab Bars Straight Line **TA-01A:**
    - a. Basis-of-Design Product: Bobrick Washroom Equipment, Inc. Model B-6806.99.
    - b. Mounting: Flanges with concealed fasteners.
    - c. Material: Stainless steel, 0.05 inch (1.3 mm) thick.

- 1) Finish: Smooth, No. 4 finish (satin) on ends and slip-resistant texture in grip area.
    - d. Outside Diameter: 1-1/2 inches (38 mm).
    - e. Lengths: 42 inches (1,067 mm)
  2. Stainless Steel Grab Bars Straight Line **TA-01B**:
    - a. Basis-of-Design Product: Bobrick Washroom Equipment, Inc. Model B-6806.99.
    - b. Mounting: Flanges with concealed fasteners.
    - c. Material: Stainless steel, 0.05 inch (1.3 mm) thick.
      - 1) Finish: Smooth, No. 4 finish (satin) on ends and slip-resistant texture in grip area.
    - d. Outside Diameter: 1-1/2 inches (38 mm).
    - e. Lengths: 36 inches (914 mm).
  3. Stainless Steel Grab Bars Straight Line **TA-01C**:
    - a. Basis-of-Design Product: Bobrick Washroom Equipment, Inc. Model B-6806.99.
    - b. Mounting: Flanges with concealed fasteners.
    - c. Material: Stainless steel, 0.05 inch (1.3 mm) thick.
      - 1) Finish: Smooth, No. 4 finish (satin) on ends and slip-resistant texture in grip area.
    - d. Outside Diameter: 1-1/2 inches (38 mm).
    - e. Lengths: 48 inches (1,219 mm)
  4. Stainless Steel Grab Bars Straight Line **TA-01D**:
    - a. Basis-of-Design Product: Bobrick Washroom Equipment, Inc. Model B-6806.99.
    - b. Mounting: Flanges with concealed fasteners.
    - c. Material: Stainless steel, 0.05 inch (1.3 mm) thick.
      - 1) Finish: Smooth, No. 4 finish (satin) on ends and slip-resistant texture in grip area.
    - d. Outside Diameter: 1-1/2 inches (38 mm).
    - e. Lengths: 18 inches (457 mm)
- F. Soap Dispensers:
1. Foam Soap Dispenser; Wall Mounted **TA-06**:
    - a. Basis-of-Design Product: Splash Lab TSL.C.040.CS.
    - b. Description: Designed for dispensing soap in foam form.
    - c. Refill Indicator: Top loading.
    - d. Electrical: 64DC, 1.5A, 9W.
  2. Foam Soap Reservoir **TA-06A**:
    - a. Basis-of-Design Product: Splash Lab Multi-feed Soap Reservoir TSL.SFS

- b. Description: 1.6 gallon reservoir that can supply up to 6 automatic soap foamers within 25 feet range.

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3. Lavatory Liquid-Soap Dispenser; **TA-10:**

- a. Basis-of-Design Product: Bobrick Washroom Equipment, Inc. B-8226.
- b. Description: Designed for dispensing soap in liquid form.
- c. Refill Indicator: Top loading.

G. Mirror Units:

1. Mirror Unit - Framed Full Length **TA-16:**

- a. Basis-of-Design Product: Bobrick Washroom Equipment, Inc. Model B-165 2460
- b. Frame: Stainless-steel channel with mitered and mechanically interlocked corners.
- c. Hangers: Produce rigid, tamper- and theft-resistant installation, using method indicated below.

- 1) One-piece, galvanized-steel, wall-hanger device with spring-action locking mechanism to hold mirror unit in position with no exposed screws or bolts.

- d. Size: 24 inches (610 mm) width x 60 inches (1,525 mm) height.

H. Sanitary-Napkin Disposal Units:

1. Sanitary-Napkin Disposal Unit; Surface Mounted **TA-04:**

- a. Basis-of-Design Product: Bobrick Washroom Equipment, Inc. ConturaSeries Model B-270.
- b. Door or Cover: Disposal-opening cover and hinged face panel
- c. Material and Finish: Stainless steel, No. 4 finish (satin).

2. Sanitary-Napkin Disposal Unit; Toilet Partition Mounted **TA-05:**

- a. Basis-of-Design Product: Bobrick Washroom Equipment, Inc. Model B-354.
- b. Door or Cover: Two, self-closing, disposal-opening cover, and hinged face panel with tumbler lockset.
- c. Receptacle: Removable.
- d. Material and Finish: Stainless steel, No. 4 finish (satin).

I. Toilet Partition Hook **TA-02:**

- 1. Basis-of-Design Product: Bobrick Washroom Equipment, Inc. B-9542.
- 2. Description: Single-prong unit.
- 3. Material and Finish: Stainless steel, No. 4 finish (satin).
- 4. Mounting: Concealed wall plate.

J. Hand Dryer **TA-07:**

- 1. Basis-of-Design Product: Splash Lab TSL.C.060.CS
- 2. Mounting: Surface mounted.
- 3. Operation: Electronic-sensor activated with timed power cut-off switch.
- 4. Material and Finish: Stainless steel, No. 4 finish (satin).
- 5. Electrical Requirements: 110V-120 V.

## 2.4 CHILDCARE ACCESSORIES

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. American Specialties, Inc.
  2. Bradley Corporation.
  3. Brocar Products, Inc.
  4. Diaper Deck & Company, Inc.
  5. GAMCO Specialty Accessories; a division of Bobrick Washroom Equipment, Inc.
  6. Koala Kare Products; a division of Bobrick Washroom Equipment, Inc.
- B. Surface Mounted Horizontal Diaper-Changing Station **TA-15**:
1. Basis-of-Design Product: ASI 9018 Baby Changing Station.
  2. Description: Horizontal unit that opens by folding down from stored position and with child-protection strap.
    - a. Engineered to support a minimum of 50-lb (23-kg) static load when opened.
  3. Mounting: Recessed mounted, with unit projecting not more than 3/8 inches (10 mm) from wall when closed.
  4. Operation: By pneumatic shock-absorbing mechanism.
  5. Material and Finish: Stainless steel, No. 4 finish (satin), HDPE interior in manufacturer's standard color.
  6. Liner Dispenser: Built in.

## 2.5 CUSTODIAL ACCESSORIES

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following :
1. A & J Washroom Accessories, Inc.
  2. American Specialties, Inc.
  3. Bobrick Washroom Equipment, Inc.
  4. Bradley Corporation.
  5. GAMCO Specialty Accessories; a division of Bobrick Washroom Equipment, Inc.
- B. Utility Shelf and Mop and Broom Holders:
1. Mop and Broom Holder with Shelf **TA-13**:
  2. Basis-of-Design Product: Bobrick Washroom Equipment, Inc B-224.
    - a. Description: Unit with shelf, hooks, holders, and rod suspended beneath shelf.
    - b. Length: 36 inches (914 mm).
    - c. Hooks: Three.
    - d. Mop/Broom Holders: our, spring-loaded, rubber hat, cam type.
    - e. Material and Finish: Stainless steel, No. 4 finish (satin).
      - 1) Shelf: Not less than nominal 0.05-inch- (1.3-mm-) thick stainless steel.
      - 2) Rod: Approximately 1/4-inch- (6-mm-) diameter stainless steel.



## **2.6 FABRICATION**

- A. General: Names or labels are not permitted on exposed faces of accessories. On interior surface not exposed to view or on back surface of each accessory, provide printed, waterproof label or stamped nameplate indicating manufacturer's name and product model number.
- B. Surface-Mounted Toilet Accessories: Fabricate units with tight seams and joints, and exposed edges rolled. Hang doors and access panels with full-length, continuous hinges. Equip units for concealed anchorage and with corrosion-resistant backing plates.
- C. Recessed Toilet Accessories: Unless otherwise indicated, fabricate units of all-welded construction, without mitered corners. Hang doors and access panels with full-length, stainless-steel hinge. Provide anchorage that is fully concealed when unit is closed.
- D. Framed Glass-Mirror Units: Fabricate frames for glass-mirror units to accommodate glass edge protection material. Provide mirror backing and support system that permits rigid, tamper-resistant glass installation and prevents moisture accumulation.
- E. Mirror-Unit Hangers: Provide mirror-unit mounting system that permits rigid, tamper- and theft-resistant installation.
- F. 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. Secure mirrors to walls in concealed, tamper-resistant manner with special hangers, toggle bolts, or screws. Set units level, plumb, and square at locations indicated, according to manufacturer's written instructions for substrate indicated.
- C. Grab Bars: Install to comply with specified structural-performance requirements.

### **3.2 ADJUSTING AND CLEANING**

- A. Adjust accessories for unencumbered, smooth operation. Replace damaged or defective items.
- B. Remove temporary labels and protective coatings.
- C. Clean and polish exposed surfaces according to manufacturer's written recommendations.

## **END OF SECTION**