

**SECTION 10 21 00
TOILET COMPARTMENTS and CUBICLES**

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 specification section, apply to work of this section.

1.2 SECTION INCLUDES

- A. Solid toilet compartments, floor mounted and head rail braced.
- B. Urinal sightscreens; wall mounted with floor to ceiling pilaster brace.
- C. Shower cubicles.

1.3 REFERENCES

- A. Florida Building Code – Building and Accessibility
- B. ASTM A167 – Standard Specification for Stainless and Heat Resisting Chromium Nickel Steel, Plate, Sheet, and Strip
- C. FFPC – Florida Fire Prevention Code

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 33 00.
- B. Shop Drawings:
 - 1. Indicate partition plan, elevation views, dimensions, and details of wall, floor, and ceiling supports, door swings.
 - 2. Clearly indicate deviations from the contract documents due to field conditions or code requirements.
- C. Product Data:
 - 1. Provide product data on panel construction, hardware, and accessories.
 - 2. Installation instructions
 - 3. Cleaning and maintenance instructions
 - 4. Replacement parts information
- D. Samples: Furnish scale model of compartments, including stile, shoe, door, door hardware, divider panel, and mounting brackets.

1.5 FIELD MEASUREMENTS

- A. Verify that field measurements are as indicated on shop drawings.
- B. Notify the contractor of any deviation.

1.6 COORDINATION

- A. Coordinate work under provisions of Section 01 31 00.
- B. Coordinate the work with placement of support framing and anchors in wall and ceiling.

1.7 PRODUCT DELIEVERY, STORAGE, & HANDLING

- A. Deliver items in manufacturer's original unopened protective packaging.
- B. Store the materials in original protective packaging to prevent physical damage.
- C. Handle material in a way to prevent damage to finished surfaces.

1.8 WARRANTY

- A. Furnish 15-year limited warranty for panels, doors, and stiles against breakage, corrosion, delamination, and defects in factory workmanship.
- B. Furnish 1-year guarantee against defects in material and workmanship for stainless steel door hardware and mounting brackets.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. The listing of Bobrick Washroom Equipment, Inc. products is to establish a standard for design, function, materials, workmanship, and appearance.
- B. Contractor may submit other manufacturers for evaluation by the Architect and Owner by following the conditions of the substitutions clause.
- C. Architect and Owner shall approval the substitution in writing prior to the use of the product.
- D. The Owner shall be the sole judge as to the acceptability of all products submitted for substitution.
- E. Toilet partitions shall be the product(s) of a single manufacturer.

2.2 COMPONENTS/MATERIALS

- A. Stiles, Panels, Doors, and Screens
 1. Manufacture the Stiles, Panels, Doors, and Screens from Solid Color Reinforced Composite material.
- B. Toilet Partition Material
 1. Construct toilet partitions of Solid Color Reinforced Composite material, which is composed of dyes, organic fibrous material, and polycarbonate/phenolic resins.
 - a. Material shall have a non-ghosting, graffiti resistant surface integrally bonded to core through a series of manufacturing steps requiring thermal and mechanical pressure.
 - b. Edges of material shall be the same color as the surface.
 2. Subject to compliance with the material performance requirements, solid surface manufactured toilet partition systems or manufactured using the solid surface materials stated below will be acceptable:
 - a. Accurate Partitions, the solid phenolic product
 - b. Privacy Plus™ Toilet Compartments by Gerali Custom Design, Inc.
 - c. Ultimate Corian® System by Shower Shapes
 - d. WilsonArt® Gibraltar® Material
 - e. WilsonArt® EarthStone™ Material
 3. Toilet partitions constructed of High Density Polyethylene (HDPE) or High Density Polypropylene will not be acceptable.
- C. Finish Thickness
 1. Doors and pilasters shall be 3/4"; wall panels and urinal screens shall be 1/2".
- D. Hardware
 1. All hardware shall be 18-8, type-304 stainless steel with satin finish.
 2. Hardware of chrome-plated "Zamak", aluminum, or extruded plastic is unacceptable.
- E. Latch
 1. Sliding door latch shall be 14-gauge and slide on nylon track.
 2. Sliding door latch shall require less than 5-lb force to operate, twisting latch operation is not acceptable.
 3. Attach latch track to door by machine screws into factory-installed threaded brass inserts.
 4. Threaded brass inserts shall be factory installed for door hinge and latch connections, and shall withstand a direct pull of at least 1,500 lbs. per insert.
 5. Use through bolted, stainless steel, pin-in-head Torx set bolt fasteners at latch keeper to stile connections, to withstand direct pull force of at least 1,500 lbs. per fastener.
- F. Hinges
 1. Hinge shall be 16-gauge (1.6-mm) continuous piano hinge.

2. All doors shall be equipped with self-closing hinge.
3. Continuous piano hinge shall be attached to door and stile by theft resistant, pin-in-head Torx stainless steel machine screws into factory installed, threaded brass inserts
4. Fasteners secured directly into the core are not acceptable.
5. Furnish the door with two-11-gauge stainless steel doorstop plates and attached rubber bumpers to resist door from being kicked in or out beyond the stile.
6. Secure the doorstops and hinges with stainless steel, pin-in-head Torx machine screws into threaded brass inserts.
7. Threaded brass inserts shall withstand a direct pull force of at least 1,500 lbs per insert.

G. Mounting Brackets

1. Mounting brackets shall be 18-gauge stainless steel and extend full height of panel.
2. Furnish U-channels to secure panels to stiles.
3. Furnish angle brackets to secure stiles to walls and panels to walls.
4. Fasteners at locations connecting panels-to-stiles shall utilize through bolted, stainless steel, pin-in-head Torx sex bolt fasteners.
 - a. Through bolted fasteners shall withstand direct pull force of at least 1,500 lbs. per fastener.
5. Wall mounted urinal screen brackets shall be 11-gauge double thickness.

H. Leveling Device shall be 7-gauge, 3/16" hot rolled steel bar; chromate treated and zinc-plated; through-bolted to base of solid color reinforced composite stile.

I. Stile Shoe shall be one-piece, 4" high, type-304, 22-gauge stainless steel with satin finish.

1. Top shall have 90° return to stile.
2. Shoe will be composed of one-piece of stainless steel and capable of being fastened (by clip) to stiles starting at wall line.

J. Head rail (Overhead Braced) shall be satin finish, extruded anodized aluminum 0.125" with anti-grip profile.

2.3 FABRICATION

- A. Vandal-Resistant Hardware Option for Institutional Hardware.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify site conditions under provisions of Section 01 31 00.
- B. Verify correct spacing of and between plumbing fixtures.
- C. Verify correct location of built-in framing, anchorage and bracing.
- D. Verify final installation will conform to the accessibility requirements including all of the clearance(s) and door swings.

3.2 INSTALLATION

- A. Provide solid backing inside partitions to receive work specified under this section.
- B. Install partitions secure, rigid, plumb and level in accordance with manufacturer's instructions.
- C. Install to maintain a 3/8" to 1/2" space between the wall and panels, and between the wall and end pilasters.
- D. Attach panel brackets securely to walls using anchor devices.
- E. Attach panels and pilasters to brackets with tamper proof through bolts and nuts.
 1. Locate head rail joints at pilaster centerline.
- F. Anchor urinal screen panels to walls with two panel brackets and vertical upright consisting of pilaster anchored to floor and ceiling.

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- G. Provide adjustment of floor variations with screw jack through steel saddles integral with pilaster.
 - 1. Conceal floor fastenings with pilaster shoes.
 - H. Equip each door with continuous hinges, one door latch, and bumper and out-swinging door shall have a pull.
 - I. Install door strike and keeper place a door bumper on each pilaster in alignment with door latch.
 - J. Field touch-up of scratches or damaged finish are not acceptable.
 - K. Replace damaged or scratched materials with new materials.
- 3.3 ERECTION TOLERANCES
- A. Install with a maximum variation from true position of $\frac{1}{4}$ ".
 - B. Install with a maximum variation from plumb of $\frac{1}{8}$ ".
- 3.4 ADJUSTING
- A. Adjust work under provisions of Section 01 77 00.
 - B. Adjust and align hardware to uniform clearance at vertical edges of doors, not to exceed $\frac{3}{16}$ ".
 - C. Adjust hinges to position doors in partial opening position when unlatched except for doors to accessible stalls.
 - 1. Return out-swinging doors to closed position.
 - D. Adjust adjacent components for consistency of line or plane.

END OF SECTION