

SECTION 10160

TOILET COMPARTMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Toilet compartments and doors.
- B. Pilasters, wall mounted pilasters (where applicable).
- C. Hardware, etc.
- D. Shop drawings.

1.02 RELATED SECTIONS

- A. Section 10800 - Toilet Room Accessories.

1.03 REFERENCES

- A. ANSI A117.1 - Specifications for Making Buildings and Facilities Accessible to and Usable by Physically Handicapped People.
- B. ASTM A167 - Stainless and Heat Resisting Chromium-Nickel Steel Plate, Sheet and Strip.
- C. FS RR-P-1352 - Complete Toilet Partition.
- D. ASTM D 635 - Test for Rate of Burning and or Extent and Time of Burning of Self-Supported Plastics in a Horizontal Position.

1.04 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Shop Drawings: Indicate partition plan and elevation views, dimensions, details of wall supports, in walls steel reinforcements for proper securing of the finish work (required when existing walls are not structurally sounded or appropriate to receive anchors specified herein or whereas indicated on construction drawings) and door swings.
- C. Product Data: Product specified herein under PART 2, item 2.02, to be independently certified in writing by the manufacturer indicating compliance to the appropriate building codes governing the project as it applies to the use of plastic in a Institutional building environment.
- D. Installation Data: Submit manufacturer's documentation on installation instruction and data on panel construction, hardware, continuous wall bracket and accessories to meet specification as outlined.
- E. Warranty: Provide a writing warranty covering the entire Poly-Marble HD plastic component against breakage, corrosion and delaminating for a period of 15 years, under the provision of the Section 01700.
- F. Samples: Provide 12 x 12 inch color samples of panel illustrating panel finish, color and sheen.

1.05 QUALIFICATIONS

- A. Only authorized factory installers will be accepted for the performing of the work of this section.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. All panels, doors and pilasters must arrive at the job site with the special protective plastic covering.
- B. Deliver, store, protect, and handle products under provisions of Section 01600.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Solid Plastic Toilet Compartments:
 - 1. SANTANA PRODUCTS CO., 801 E. Corey St., Scranton, PA. 18505.
 - 2. BRADLEY CORPORATION, 10W142N9101 Fountain Boulevard, Menomonee Falls, WI 53051.
- B. Toilet Compartments Hardware and Accessories:
 - 1. SANTANA PRODUCTS CO., 801 E. Corey St., Scranton, PA. 18505.
 - 2. BRADLEY CORPORATION, 10W142N9101 Fountain Boulevard, Menomonee Falls, WI 53051.
- C. Substitutions: Under provisions of Section 01600.

2.02 MATERIALS

- A. Toilet Compartments: Solid plastic "Poly-Mar HD" 2000 Series, no to exceed a burn rate of 1.29 in accordance with ASTM D 635.
 - 01. *DESCRIPTION:* All panels, doors and pilasters should be fabricated from High Density Polyethylene (HDPE) containing a minimum of 50% recycled material manufactured under high pressure, forming a single component section which is water-proof, non-absorbent and has a self-lubricating surface that resist marking with almost any writing utensils.
 - 02. *CHARACTERISTICS:* The solid plastic material is a dual component compression molded High Density Polyethylene (HDPE) of solid Poly-Marble HD virgin resin materials in colors that extend throughout the surface; it shall have recycled material (HDPE) as the core material. Doors, panels and pilaster shall be a minimum of one inch thick with all edges machined to a radius of 0.250" and all exposed surface to be free of saw-marks and scratches.

2.03 HARDWARE

- A. Door Hardware shall be as follow:
 - 01. *HINGES:* Integral hinge system, which consists of a pilaster and door, both of which are machined out to accept a 2 inch diameter nylon 6/6 pin. A 4 inches sleeve is used in the top portion of the door and pilaster. For maximum flexibility, a similarly designed "cam-action" sleeve for the lower portion of the door is used. This sleeve is 6 inches long, with a ³/₁₆ inch stainless steel pin, inserted into the lower part of the pilaster to allow for a positive opening and closing action, free of impediment. Door closures can be factory set to accommodate all conditions.
 - 02. *DOOR-STOP:* Out-swinging door against a building's wall to have included a door stop on existing wall.
 - a. IVES Heavy Duty Wall Door Stop #443.
 - 03. *DOOR STRIKE AND KEEPER:* This items shall be fabricated from heavy aluminum extrusion (6364-T5 Alloy) with clear anodized finish with wrap around flange surface mounted and thru-bolted to pilaster with one way sex bolts. Size of the strike shall be 6" in length.
 - 04. *DOOR LATCH HOUSING:* Shall be fabricated from heavy aluminum extrusion (6364-T5 Alloy) with clear anodized finish, surface mounted and thru-bolted to door with one way sex bolts. Slide bolt and bottom shall be heavy aluminum with "Tough-Coat Black" finish.
- B. Continuous clear anodized aluminum wall brackets (Heavy Duty, 6364-T5-Alloy) and panel-pilaster brackets with a thickness no less than 1/8".
- C. Pilaster Shoe: 20 gauge stainless steel base shoe, type 304.

2.04 FABRICATION

- A. Fabricate toilet compartments in the following dimensions arrangements, unless otherwise as indicated on the construction drawings:
 - 01. Dividing panels shall be 55" high and mounted at 14" to 15" above finished floor.
 - 02. Doors shall be 55" high and mounted at 14" to 15" above finished floor.
 - 03. Pilaster shall be 102" high or shorter for floor to ceiling application, mounted within one piece stainless steel shoe with one way theft-proof, stainless steel sex bolts.
 - 04. Finish of doors panels and pilasters shall be similar and equal to SANTANA PRODUCTS INC. "Plastic-Glaze 280." Color of doors, panels and pilasters will be selected from the standard "Poly-Marble HD" color range.
 - 05. Aluminum edging strips (heat-zinc) to be fastened to the bottom edge of all doors and panels using vandal proof stainless steel fasteners.

- B. Unless otherwise indicated, for ordinary toilet compartments with a depth no less than 48 inches, provide 24 inches wide "in-swing" doors with hinges to be factory set to 20 to 30 degrees in open position; and 32 inches wide out-swing door for handicap toilet compartment with hinge to be factory set to 5 to 10 degrees in open position and/or as required by ANSI A117.1 of the American National Standard Institute. When ordinary toilet compartments have a depth shorter than 48 inches, provide 24 inches wide out-swing doors with hinges factory set to a closed position.

- C. Fabricate all components to meet manufacturer's specifications

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that site conditions are ready to receive work.
- B. Verify field opening measurements are as indicated on shop drawings.
- C. Verify correct spacing of plumbing fixtures.
- D. Verify correct location of the existing masonry toilet partition for anchorage.
- E. Beginning of installation means acceptance of existing conditions.

3.02 INSTALLATION

- A. Install pilasters secure, straight, plumb, and level.
- B. Maintain 1 to ½ inch space between wall and panels.
- C. Continuous brackets shall be used for all panel to pilaster, pilaster to wall and panel to wall connections. Wall brackets shall be thru-bolted to panels and pilasters with one way sex bolts.
- D. The attachment of the brackets to the adjacent wall construction shall be accomplished as follow:
 - 01. Use # 14 x 12 inches stainless steel TORX pin head screws anchored directly behind the vertical edge of panels and pilasters at 12 inches intervals, alternately spaced between anchor connections.
 - 02. Wall anchor devices: RAWL 9320 anchors on solid masonry wall; and RAWL Toggle Bolt on hollow masonry wall and framed drywall with a minimum of 2" thick plywood backup.
 - 03. Provide 2" plywood backup in wall at locations not available. Recess plywood flush with studs face and fasten it to continuous wood blocking behind at both sides. Provide wood blocking bridges between studs. Provide same finish surface as the original but new.
- E. Provide adjustment for floor variations with screws jack through steel saddles integral with pilaster. Conceal floor fastening with pilaster shoes.

- F. Equip each door with an integral door-pilaster hinge and one door latch. A low profile (no larger than 12 inches) wall bumper shall be installed only on all in-swing doors, and on any out-swing doors that open 90 degrees against a wall. Hook-wall bumper is not acceptable.
- G. Install door strike and keeper with door bumper on each pilaster in alignment with door latch.
- H. Hinges should be factory adjusted to locate doors in partial opening position when unlatched. Return out-swings doors to close position.
- I. Pilaster shoes shall be anchored to finished floor with RAWL 9520 and # 14 x 12 inches stainless steel Phillips head.
- J. Erection of partitions, etc., shall be done in accordance with the manufacturer's standard recommendations.

3.03 ADJUSTING

- A. Adjust and align hardware to uniform clearance at vertical edge of doors, not exceeding $\frac{3}{16}$ of an inch.

3.04 CLEANING

- A. Remove protecting masking. Finished surfaces shall be clean after installation and left free of imperfections.
- B. No evidence of drilling, cutting or patching shall be visible in the finished work. Field touch-up of scratches or damaged finish will not be permitted.
- C. Replace all damaged materials with new.

END OF SECTION