

## SANTANA'S DIVISION 10 SPECIALTIES

### HDPE TECHNICAL SPECIFICATIONS FLOOR-MOUNTED OVERHEAD-BRACED TOILET COMPARTMENTS INTEGRAL HINGE/STRIKE SYSTEM-NO-SIGHT DESIGN 96

#### 10.A. 1. SCOPE

- A.** Requirements of the general conditions and special conditions apply to the work in this section.
- B.** Provide all labor, materials, etc. necessary for the completion of the work of this section as specified or shown on the drawings.
- C.** Work of this section consists of, but not limited to the following:
  - 1. Toilet compartments, urinal screens or sight screens.
  - 2. Hardware, etc. for stalls.
  - 3. Shop drawings.
- D.** Work not included in this section.
  - 1. Toilet room accessories in Section 10B or by others.

#### 10.A. 2. SUBMITTALS

- A.** Submit (6) sets of shop drawings, including details and a sample of each item of hardware for architect's approval.
- B.** Provide drawings showing locations for adequate steel reinforcements of wood blocking in walls to be provided by others for proper securement of the finished work.
- C.** Furnish color samples for architect's use.
- D.** Furnish documentation on hardware, headrail, and continuous wall bracket to meet specification as outlined.

#### 10.A. 3. MATERIALS

- A.** Toilet compartments shall be floor-mounted, overhead-braced, with non-corrosive doors, panels and pilasters similar and equal to Poly-Mar HD<sup>®</sup>, Poly-Marble HD<sup>®</sup>, or Poly-Granite HD<sup>®</sup> compartments as manufactured by Santana Products Inc., Scranton, PA, or an approved equal by specifier or design professional prior to bid date with hardware as specified herein.
- B.** Panels, doors and pilasters shall be fabricated from High Density Polyethylene (HDPE) containing a minimum of 10% recycled material manufactured under high pressure forming single component section which is waterproof, nonabsorbent and has a self-lubricating surface that resists marking with pens, pencils or other writing utensils. All panels, doors and pilasters to arrive at job-site with special protective plastic covering.
- C.** *Characteristics*
  - 1. Compression molded High Density Polyethylene (HDPE) of solid Poly-Mar HD<sup>®</sup>, Poly-Marble HD<sup>®</sup>, or Poly-Granite HD<sup>®</sup> virgin resin materials in colors that extend throughout the surface; the panels, doors and pilasters shall have combined recycled and/or virgin material (HDPE) as the core material.
  - 2. Doors, panels and pilasters shall be a minimum of 1" thick and all edges machined to a radius of .250" and all exposed surfaces to be free of saw marks.
- D.** *Fabrication*
  - 1. Dividing panels shall be 55" high and mounted at 14" above finished floor.
  - 2. Doors shall be 55" high and mounted at 14" above finished floor.
  - 3. Pilasters shall be 82" high, mounted within a one piece plastic shoe with star-head security pin, stainless steel barrel bolts.
  - 4. Finish of doors, panels, and pilasters shall be similar and equal to Santana Products Inc. "Plastic-Glaze 280". Color of doors, panels and pilasters to be selected from the standard Poly-Mar HD<sup>®</sup>, Poly-Marble HD<sup>®</sup>, or Poly-Granite HD<sup>®</sup> color range.
  - 5. Aluminum edging strips to be fastened to the bottom edge of all doors and panels using vandal-proof fasteners.
- E.** *Technical Data*
  - 1. Santana Solid Plastic Products to be independently certified in writing by the manufacturer indicating compliance to appropriate building codes governing the project as it applies to the use of "plastic in a commercial building".
- F.** Manufacturer to supply a written warranty covering all plastic components and plastic hardware against breakage, corrosion and delamination for a period of 15 years.

#### **10.A. 4. HARDWARE**

**A.** Door hardware shall be as follows:

- 1.** Hinges shall be "INTEGRAL HINGE/STRIKE" system featuring the No Sight Design-96 configuration. Strike pilaster to be routed to accept overlapping edge of door. Hinge pilaster shall be routed to accept overlapping integral hinge feature of door. Hinge mechanism consists of a two-piece 1/2" diameter nylon pin with "Cam Action" and a 3/16" stainless steel pin inserted into lower portion of pilaster and door. A one piece 1/2" diameter, 4" long nylon pin to be inserted into the top portion of the pilaster and door. Door closures to be factory set to accommodate all conditions and allow for a positive opening and closing action free of impediment.
- 2.** Each handicapped door to include: (1) door pull and (1) wall stop.
- 3.** Keeper shall be fabricated from heavy aluminum extrusion (6463-T5 Alloy) with bright-dipped anodized finish, surface mounted, and thru-bolted to pilaster with star-head security pin, stainless steel barrel bolts. Size of keeper shall be 2½" in length.
- 4.** Door latch housing shall be fabricated from heavy aluminum extrusion (6463-T5 Alloy) with bright-dipped anodized finish, surface mounted and thru-bolted to door with star-head security pin, stainless steel barrel bolts. Slide bolt and button shall be heavy aluminum with "Tuff-Coat Black" anodized finish.

**B.** Solid plastic pilaster shoes shall be anchored to finished floor with plastic anchors and #14 x 1½" star-head security pin, stainless steel screws.

**C.** Full length continuous plastic wall brackets weighing not less than .822 lbs. per linear foot. 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 star-head security pin, stainless steel barrel bolts. Attachment of brackets to adjacent wall construction shall be accomplished by #14 x 1½" star-head security pin, stainless steel screws anchored directly behind the vertical edge of panels and pilasters at 13" intervals along the full length of bracket and at each 13" interval alternately spaced between anchor connections.

**D.** Headrail shall be heavy aluminum extrusion (6463-T5 Alloy) with bright-dipped anodized finish in anti-grip configuration as supplied by Santana Products Inc. Headrail shall be fastened to tops of pilasters and headrail brackets by thru-bolting with star-head security pin, stainless steel barrel bolts (no cadium plated bolts allowed).

**E.** Headrail brackets shall be 18 gauge stainless steel.

#### **10.A. 5. INSTALLATION**

Erection of partitions, etc. shall be in accordance with the manufacturer's standard recommendations and the following:

- A.** All parts shall be erected in a substantial manner, straight, level, and plumb
- B.** No evidence of drilling, cutting, or patching shall be visible in the finished work.
- C.** Clearance at vertical edges of doors shall be uniform top to bottom and shall not exceed 1/4".
- D.** Finished surfaces shall be cleaned after installation and left free of imperfections.
- E.** Authorized factory installers to be utilized.

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