

SECTION 10 21 16 - SOLID PLASTIC TOILET COMPARTMENTS

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Solid plastic toilet compartments, urinal screens, privacy screens, and entry partitions.
- B. Related Sections:
 - 1. Division 01: Administrative, procedural, and temporary work requirements.

1.2 REFERENCES

- A. ASTM International (ASTM):
 - 1. B85 - Standard Specification for Aluminum-Alloy Die Castings.
 - 2. B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
 - 3. E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- B. National Fire Protection Association (NFPA) 286 - Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth.

1.3 SYSTEM DESCRIPTION

- A. Compartment Configurations:
 - 1. Toilet partitions: Floor mounted, overhead braced.
 - 2. Urinal screens: Wall mounted.

1.4 SUBMITTALS

- A. Submittals for Review:
 - 1. Shop Drawings: Include dimensioned layout, elevations, trim, closures, and accessories.
 - 2. Product Data: Manufacturer's descriptive data for panels, hardware, and accessories.
 - 3. Samples: 2 x 3 inch samples showing available colors

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum 5-year experience in manufacture of solid plastic toilet compartments with products in satisfactory use under similar service conditions.
- B. Installer Qualifications: Minimum 5-year experience in work of this Section.

1.6 WARRANTIES

- A. Provide manufacturer's 25 year warranty against breakage, corrosion, and delamination under normal conditions.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Basis of Design: Eclipse by Scranton Products. (www.scrantonproducts.com)
- B. Substitutions: Under provisions of Division 01

2.2 MATERIALS

- A. Doors, Panels and Pilasters:
 - 1. High density polyethylene (HDPE), fabricated from extruded polymer resins, forming single thickness panel.
 - 2. Waterproof and nonabsorbent, with self-lubricating surface, resistant to marks by pens, pencils, markers, and other writing instruments.
 - 3. 1 inch thick with edges rounded to 1/4 inch radius.
 - 4. Fire hazard classification: Class B flame spread/smoke developed rating, tested to ASTM E84.
 - 5. Color: [To be selected from manufacturer's full color range]
- B. Aluminum Extrusions: ASTM B221, 6463-T5 alloy and temper.
- C. Aluminum Die Castings: ASTM B85, A380 alloy.
- D. Injection Molded Plastic: High density polyethylene.
- E. Rubber: Abrasion resistant Styrene Butadiene Rubber, 65 to 80 Shore A durometer, black.

2.3 HARDWARE

- A. Hinges:
 - 1. Inswing hinges:
 - a. Hidden pivot type fabricated from heavy-duty cast aluminum.
 - b. Auto-close feature, adjustable to 15 degree open position.
 - c. Mounted to doors with stainless steel Torx head screws and through bolted to metal post with tamper proof Torx head sex bolts.
 - d. Hinge pivot point: 6 to 8 inches from edge of door; maintain sufficient clearance to water closet.
 - 2. Outswing hinges:
 - a. Fabricated from extruded aluminum.
 - b. Auto-close feature, adjustable to 15 degree open position.
 - c. Surface mounted to doors with stainless steel Torx head screws and fastened to metal posts with countersunk tamper proof screws.
 - 3. Provide for field adjustment of plus or minus 0.125 inch laterally and plus or minus 0.125 inch vertically.
- B. Door Keeper:
 - 1. 3.5 inches long, fabricated from heavy duty extruded aluminum, clear anodized finish.
 - 2. Mount in gap between dividing panel and door.
- C. Latch and Housing:
 - 1. Heavy duty extruded aluminum.
 - 2. Latch housing: Clear anodized finish.
 - 3. Slide bolt and button: Black anodized finish.

- D. Coat Hook/Bumper: Combination type, chrome plated Zamak.
- E. Door Pulls and Push Plates:
 - 1. Heavy duty extruded aluminum, clear anodized finish.
 - 2. Single component providing door pull capability on outswing doors.

2.4 COMPONENTS

- A. Doors and Dividing Panels:
 - 1. 55 inches high, mounted 14 inches above finished floor.
 - 2. Doors: 60 degree angle on two opposite edges for enhanced privacy.
 - 3. Dividing panels: Slotted on one edge to accept wall bracket.
- B. Metal Posts: 82.75 inches high, heavy duty extruded aluminum, clear anodized finish, fastened to foot with stainless steel tamper resistant screw.
- C. Hidden Shoe (Foot): One-piece molded polyethylene invisible shoe inserted into metal post and secured to metal post with stainless steel tamper resistant screw.
- D. Headrail Cap and Corner Cap: One-piece molded polyethylene secured to metal post with stainless steel tamper resistant screw; adjustable to level headrail to finished floor.
- E. Hidden Wall Brackets: 61 inches long, heavy-duty extruded aluminum, clear anodized finish, inserted into slotted panel and fastened to panels with stainless steel tamper resistant screws.
- F. Headrail: Heavy duty extruded aluminum, designer anti-grip design, clear anodized finish, fastened to headrail bracket with stainless steel tamper resistant screw and to headrail cap or corner cap with stainless steel tamper resistant screw.
- G. Headrail Brackets: Heavy duty extruded aluminum, clear anodized finish, secured to wall with stainless steel tamper screws.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install compartments in accordance with manufacturer's instructions and approved Shop Drawings.
- B. Install rigid, straight, plumb, and level.
- C. Locate bottom edge of doors and panels above finished floor as indicated in drawings.
- D. Provide uniform, maximum 3/8 inch vertical clearance at doors.
- E. Not Acceptable: Evidence of cutting, drilling, or patching.

3.2 ADJUSTING

- A. Adjust doors and latches to operate correctly.

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END OF SECTION