



10 21 13 – Solid Plastic Toilet Compartments

DIVISION 10 – Specialties

STATEMENT OF PURPOSE & BACKGROUND

- Scope:
 - Furnishing and installing solid plastic (HDPE) toilet partitions and doors.
 - In general, solid plastic partitions are for replacement purposes in existing buildings, but may have potential limited use in renovated buildings and new construction.
- Statement of goals:
 - Provide a partition system that is durable, resists rust, graffiti, scratching, and is a low maintenance product. Plastic-Laminate-Clad or Phenolic-Core materials are unacceptable.
- Revision history of section:
 - 03/19/13
 - 05/05/21

SELECTION AND APPLICATION CRITERIA

- Gender-Specific Elementary, Secondary and Athletic Toilet Rooms:
 - Doors and dividing panels shall be 55" high and mounted at 14" AFF.
 - Pilasters shall be 82" high and fastened into a 3" high pilaster shoe.
 - Floor Mounted, Overhead Braced shall be the standard configuration.
 - Solid plastic partitions and doors shall be the standard for use in all gender-specific toilet rooms including athletic/physical education toilet rooms. Inclusive (all-gender) restrooms shall use full-height walls and doors as specified elsewhere.

OUTLINE SPECIFICATION

- Part 1 General
 - Warranty: HDPE Plastic material should be warranted against breakage of hinges, loosening of fasteners, corrosion of plated or bright finished parts, and delamination for a period of 25 years.
 - Performance Requirements
 - Fire Resistant: Partitions materials shall comply with the following when tested with the ASTM E 84: Standard Test Method for Surface Burning Characteristics of Building Materials:
 - Smoke Developed Index: Not to exceed 450
 - Flame Spread Index: Not to exceed 75
 - Material Fire Ratings:
 - NFPA Class B; ICC Class B
- Part 2 Products
 - Acceptable Manufacturer(s):
 - Scranton Products, a division of The Azek Co.
 - Bradley Corporation
 - Equivalent manufacturers **approved, in writing, in advance, by the Architect**, may be substituted in accordance with the provisions of the Contract.
 - Materials:
 - HDPE (High Density Polyethylene) Plastic for partitions, stiles and pilasters, and doors shall be one (1) inch thickness.
 - Plastic-Laminate-Clad or Phenolic-Core materials shall not be used or specified.

- Head rails shall be aluminum, extruded or formed to a special shape to discourage persons from hanging from the head rails.
 - Wall Brackets shall be 54" long and made of extruded PVC plastic with single or double ears as required. Brackets to be through-bolted to the pilasters with stainless steel tamper resistant torx head sex bolts. Panels shall be through-bolted to the brackets with stainless steel tamper resistant torx head sex bolts.
 - Floor Attachment Fittings shall be adjustable, and shall hold pilasters securely in position. Use stainless steel trim or plastic boots to conceal the fittings.
 - Door Hardware shall be chrome plated and standard with the manufacturer and shall be suitable for heavy duty usage. Door latches shall have emergency access by use of a special key or device or by lifting the door. Doors shall stand open about six inches when not latched, and hinge/cam mechanism shall be designed so that the cam is not bearing support of the door. Furnish a rubber-tipped coat hook-bumper for each door. Out-swinging doors shall have handles on both sides of the doors and door bumpers are required.
 - Screws, Bolts and other fasteners shall all be stainless steel, chrome plated, or otherwise corrosion resistant. Where the screw heads are accessible, provide 'one-way' type or other tamperproof design.
 - Fabrication
 - Doors, Partitions and Stiles shall be fabricated from polymer resins under high pressure forming a single component section. Panels shall be waterproof, non-absorbent, with self-lubricating surface. Color shall extend from the surface throughout the core. Panel edges shall be machined to a radius of 0.025 inch.
 - Hinges shall be 8" and fabricated from heavy-duty extruded aluminum, with bright dip anodized finish wrap-around flanges. Hinges operate with field adjustable nylon cams. Cams can be field set in 30 degree increments. Continuous 54" hinges may also be considered.
 - Door Strike and Keeper shall have wrap-around flange and rubber cushion. Door latch slide bolt and button shall be aluminum with black finish. Latch and keeper shall be designed for emergency access.
 - Hinges, Strike, Keeper, and Latch Housing shall be surface-mounted and thru-bolted to vertical stiles and/or doors.
 - Each door shall be furnished with one (1) wall stop and each handicapped door shall have one (1) tamperproof pull.
 - Finish
 - Partitions, doors and stiles and other work without a polished finish shall be finished complete at the factory. Colors to be selected by Architect from manufacturer's full color range.
- Part 3 Execution
 - Per Consultant and / or manufacturer specification.

End of Section