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HDPE SOLID POLYMER-PLASTIC “FLOOR BRACED” COMPARTMENTS

SECTION 10172-FB

“WEIS/POLY” TOILET PARTITIONS

PART 1 – GENERAL

1.1 RELATED DOCUMENTS:

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division – 1 Specification sections, apply to work in this section.

1.2 SUMMARY:

- A. Extent of toilet partitions is indicated on drawings.
- B. Types of toilet compartments include: “Weis / Poly”
 - 1. HDPE Solid Polymer-Plastic, 1” thick with radius edges.
- C. Styles of toilet compartments include:
 - 1. Floor braced.
- D. Styles of screens include:
 - 1. Wall hung, in same construction as compartments.
- E. Toilet accessories, such as grab bars, toilet tissue dispensers etc., are specified elsewhere in Division 10.

1.3 SUBMITTALS:

- A. Product Data: Submit manufacturers detailed technical data for materials, fabrication and installation. Include catalog cuts of hardware, fasteners, and accessories.
- B. Shop Drawings: Submit shop drawings for fabrication and erection of toilet partitions. Include templates and instructions for installation.
- C. Samples: Submit color samples for each type of unit.
 - 1. Color samples to include: Choice of colors from manufacturer's standard pallet, maximum 2 colors.

1.4 QUALITY ASSURANCE:

- A. Field measurements: Take field measurements prior to fabrication, to ensure proper fitting of work.
- B. Manufacturers Qualifications: A company regularly engaged in the manufacturing of products specified in this section, whose products have been in satisfactory use, under similar service conditions, for not less than five years.

PART 2 – PRODUCTS

2.1 MANUFACTURERS:

- A. Manufacturers: Subject to compliance with requirements, provide products of one of the following:
 - 1. Weis/Robart Partitions, Inc.
3501 East La Palma Avenue
Anaheim, California 92806
Ph: 714-666-0108 Fax: 714-666-0110
 - 2. Other manufacturers, who in the opinion of the project architect, meet or exceed the material and construction specifications on each point as outlined in this section, will be considered. Any proposed substitutions must be submitted in accordance with Section 01600.

2.2 MATERIALS:

A. General:

1. HDPE Solid Polymer – plastic material with homogeneous color throughout. 1" thickness extruded from the highest quality recycled resins to ensure integrity for both color and surface flatness.
2. Provide materials, which have been selected for uniform color and a sealed non-porous surface. Exposed surfaces that exhibit pitting, seam marks, roller marks, stains, discolorations or any other imperfections on finished units are not acceptable.
3. HDPE Solid Polymer – plastic with radius edges. Doors, panels and pilasters are 1" finished thickness.

B. Pilaster Shoes: Pilaster Shoes: ASTM A167 Type 304 stainless steel, not less than 4" high, 18 gauge, finished to match hardware.

C. Brackets: 14 gauge ASTM A167 Type 304 stainless steel triple bracketing for substantial lateral support, thru-bolted to the panels.

D. Hardware and Accessories: Manufacturers standard design, heavy-duty institutional operating hardware and accessories made from ASTM A167 Type 304 stainless steel.

E. Anchorages and Fasteners: Manufacturers standard thru-bolt/sixbolt exposed fasteners of ASTM A167 Type 304 stainless steel, chrome plated steel or brass with theft resistant heads. For concealed anchors, use hot-dipped galvanized or other rust resistant protective coated steel. Use theft proof thru-bolts at all hardware attachments for maximum strength.

2.3 FABRICATION:

A. General: Furnish standard doors, panels, screens, and pilasters fabricated for flush construction partition system, unless otherwise indicated. Furnish units with drilled holes to receive partition mounted hardware, accessories and grab bars as indicated.

B. Door Dimensions: Unless otherwise indicated, furnish 24" wide doors for standard compartments and 36" wide doors at compartments equipped for use by disabled persons. Verify special size requirements with the drawings.

- C. Floor Braced Partitions: Furnish ½” treated steel leveling bar secured to the pilaster with a flush, concealed double nut system. Furnished with two 3/8” diameter threaded rods and sleeve anchors that require a minimum 2” penetration into a 3” thick structural concrete floor. Furnish double nut system including flat washers, shoe retaining clip and pilaster shoe to conceal supports and leveling mechanisms.
- D. Wall Hung Screens: Furnish panel units in sizes indicated on drawings of same construction and finish as partition system panels.
- E. Hardware: Furnish hardware for each compartment in partition system as follows:
 - 1. Hinges: Institutional 11 gauge ASTM A167 Type 304 stainless steel, surface mounted type. Self-closing adjustable to hold door open at any angle up to 90 degrees. Provide gravity type with opposing Duralon/nylon cams and captured pins. Hinges must be thru-bolted and provide emergency access without the use of any tool or key. Provide a total of three hinges per door.
 - 2. Latch and Keeper: Manufacturers standard institutional latch, ASTM A167 Type 304 stainless steel, surface mounted. Stainless steel combination rubber faced keeper/bumper with emergency release feature mounted on pilaster and thru-bolted for maximum strength and security.
 - 3. Coat Hook: Manufacturers standard unit, combination hook and rubber tipped bumper, sized and placed to prevent door from hitting panels, walls or accessories.
 - 4. Door Pull: Manufacturers standard ASTM A167 Type 304 stainless steel unit for out swing doors. Provide out swing door bumper.
 - 5. Fasteners: All ASTM A167 Type 304 stainless steel or chrome plated one-way two part sexbolts for thru-bolting hardware. Stainless steel or chrome plated Phillips head screws at all wall connections.
 - 6. Inserts, T-nuts, or Jack nuts are not acceptable. All panels, pilasters, hinges, keepers, latches, and door pulls will be thru-bolted for maximum strength and security.

PART 3 – EXECUTION

3.1 INSTALLATION:

- A. General: Comply with manufacturers recommended procedures and installation sequence. Install partitions rigid, straight, plumb, and level. Provide clearance of not more than 1/2" between pilasters and panels, and not more than 1" between panels and walls. Secure panels to walls with not less than three stirrup wall brackets attached near top, center and bottom of panel. Locate wall brackets so that wall penetration for anchorage occurs in masonry tile joints. Secure panels to pilasters with not less than three stirrup brackets located to align with wall brackets. Secure pilasters in position with manufacturers recommended floor-anchoring device.
- B. Floor Braced Partitions: Secure pilasters to floor, level, plumb and tighten installation using furnished manufacturer devices. Hang doors and adjust so that tops of doors are parallel with the top of the panels and pilasters when doors are in a closed position.
- C. Screens: Attach screen with anchoring device as recommended by the manufacturer to suit screen size and supporting structure. Set units to provide maximum support and to resist lateral impact. Three brackets to be provided per screen.

3.2 ADJUST AND CLEAN:

- A. Hardware Adjustment: Adjust hardware for proper operation. Set hinges on non-handicapped compartments to remain slightly ajar, to 30 degrees, when unoccupied. Set hinges on handicapped compartments to return to the fully closed position when unoccupied.
- B. Cleaning: Remove protective film and clean exposed surfaces of partition system using materials and methods as outlined by the manufacturer.

END OF SECTION