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H D P SOLID PHENOLIC “CEILING HUNG” COMPARTMENTS

SECTION 10170-CH

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 / Phenolic”
 - 1. HDP Solid Phenolic, 3/4” thick with polished black edges.
- C. Styles of toilet compartments include:
 - 1. Ceiling Hung.
- 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 manufactures 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. Solid HDP Phenolic material in ¾" thickness N.F.P.A.101 class "A" fire rated with solid black edges.

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.

B. Core Materials:

1. Core Material: Solid phenolic core with face laminate fused in fabrication to substrate with no glue lines or seams. Doors, panels and pilasters are to have a $\frac{3}{4}$ " finished thickness.
2. Fire resistant characteristics per ASTM-E84 and N.F.P.A.101 tests. Minimum smoke index of 40 and fuel contribution and/or flame spread of 15 or less.

C. Pilaster Shoes: Pilaster Shoes: ASTM A167 Type 304 stainless steel, not less than 6" high, 18 gauge, finished to match hardware.

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

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

F. 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. Ceiling Hung Partitions: Furnish 1/2" treated steel leveling bar secured to the pilaster with a flush, concealed double nut system. Provide heat-treated 3/8"-16 steel leveling bolts of sufficient length to securely penetrate the structural ceiling supports. Furnish double nut system including flat washers, shoe retaining clip and pilaster shoe to conceal supports and leveling mechanisms.
1. Structural ceiling support is specified in another section by a separate trade. Ceiling supports and 3/8" bolts are to be provided and installed by the purchaser.
- 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 and 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 anchoring device.
- B. Ceiling Hung Partitions: Secure pilasters to ceiling member, level, plumb and tighten installation using furnished manufacturer devices. Secure the pilaster shoes to the pilasters with no less than two fasteners. Hang doors and adjust so that the tops of the doors are aligned with the tops of the panels when the doors are in a closed position.
- C. Screens: Attach 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