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Solid Phenolic Specification Sheet

Floor Anchored Overhead Braced

PART-1 GENERAL

1.01 DESCRIPTION

- A. Phenolic compartment work includes the following:
 - 1. Solid Phenolic toilet partitions, urinal screens, and vision screens.
- B. Furnish all labor and materials necessary for the completion of work in this section as shown on the contract drawings and specified herein.
- C. Work in this section shall include but is not limited to:
 - 1. Hardware for toilet compartments.
 - 2. Shop drawings and working drawings.
 - 3. Manufacturer's guarantee.
- D. Related work specified elsewhere shall include accessories and anchorage/blocking for attachment of compartments.

1.02 SUBMITTALS

- A. Submittal of shop drawings and details, for architect approval.
- B. Colors shall be selected from the manufacturer's standard range of colors.
- C. Color samples shall be submitted for approval to the architect upon request.

PART-2 PRODUCTS

2.01 MANUFACTURER

- A. Manufacturer
 - 1. Toilet compartments to be supplied by Accu Tec Manufacturing Inc.
- B. Solid Phenolic Panels
 - 1. Formica Solid Phenolic panels
 - 2. Wilsonart
 - 3. Nevamar Surface Systems
 - 4. Equal.
- C. Hardware:
 - 1. Galaxy Hardware, Series 8033.
 - 2. Jakob Corporation.
 - 3. Equal.

2.02 MATERIALS

- A. Toilet compartments panels, doors, and pilasters; urinal screens and visual screens.
 - 1. Core: Phenolic impregnated Kraft papers. Panel shall be at least 93 pounds per cubic foot to ensure full saturation of Kraft core.
 - 2. Face Sheet: Over decorative papers impregnated with melamine resin and integrally compression molded with the core.
 - 3. Fire Resistance: The panels shall have the following surface burning characteristics and smoke generation values in accordance with UL classification and labeling in accordance with ASTM E84 tests and shall be self-extinguishing.
 - a. Flame spread: Maximum 30 for ¾" inch thick panels; 30 for ½" inch thick panels.
 - b. Smoke developed: Maximum 110 for ½" inch thick panels; 110 for ¾" inch thick panels.
 - 4. Panels shall be UL registered and labeled.
 - 5. Panel shall be resistant to cleaning solvents and uric acid.
 - 6. Product/Material Specification:
 - a. Modulus of Elasticity: 1.5 million psi minimum.
 - b. Shear Strength: 2,000 psi minimum.
 - c. Compressive strength: 24,000 psi minimum.
 - d. Water Absorption: 3 percent maximum.
 - e. Use Temperature: 350 degrees F maximum.
 - f. Surface and Edges: Non-porous.
 - g. Material Resistance: Will not support fungus or bacteria.
 - h. Uniform Load Deflection: ¼ inch maximum.
- B. Stainless Steel: ASTM A167, Type 304
- C. Concealed Fasteners and Leveling Devices:
 - 1. Concealed Fasteners: Stainless steel.
 - 2. Leveling Devices: Zinc or cadmium coated steel, Stainless steel.

2.03 COMPARTMENTS AND SCREENS

- A. Toilet Compartments: Floor anchored/overhead braced.
 - 1. Compartment Depth and Width: As scheduled and indicated on Drawings.
 - 2. Height Above Floor: 12 inches (305 mm).
 - 3. Door/Panel Height: 58 inches (1473 mm).
 - 4. Pilaster Height: 82 inches (2083 mm).

2.04 CONSTRUCTION

- A. Doors shall be constructed of ¾" solid phenolic core decorative plastic laminate with multiple resin-impregnated kraft surfaces sheets fused at high temperature and pressure; the edges being finished and polished.
- B. Panels shall be constructed of ½" solid phenolic core decorative plastic laminate with multiple resin-impregnated kraft and surfaces sheets fused at high temperature and pressure; the edges being finished and polished.
- C. Pilasters shall include a mounting system comprising a 3/8"x3/4" stainless steel bar attached to the pilaster having 3/8"x5" steel bolts secure to nuts imbedded within a contoured aperture transversely piercing the core at least 1" above the mounting end. Each mounting bar shall be secured to the building structure with 3/8"x5" steel studs.
- D. Headrail shall be provided to bridge all compartments and braced the end freestanding pilaster to the wall; the headrail to comprise anodized aluminum with satin finish, contoured to provide anti-grip features.
- E. Anchorage: Provide stainless steel anchorage, complete and threaded rods, washers, and leveling adjustment nuts at pilasters, to permit connection to floor slab. Furnish devices, which are designed to support pilasters from structure without transmitting load to floor fill.

2.05 HARDWARE

- A. Door hardware shall be cast Type 304 stainless steel, as follows:
1. Hinges: 11 gage Cast Stainless Steel Hinge. Hinge shall be cast of type 304 stainless steel and shall have a Satin finish. Hinge shall be gravity type for self-closing action and shall be fully adjustable up to 360 degrees. Pivot pin shall be made of type 304 stainless steel. Only stainless-steel components shall be used in the construction of the Hinge. Plastic inserts are unacceptable. Hinges shall provide emergency access by lifting the door. Hinges shall be pre-drilled for mounting to door and pilaster with Stainless Steel through-bolts. Stamped stainless steel is not acceptable.
 - a. Galaxy Hardware: CS-560 (Left Hand IN/Right Hand OUT) or CS-561 (Right Hand IN/Left Hand OUT).
 - b. Jacknob Corporation: 7273 (Right Hand IN/Left Hand OUT) or 7283 (Left Hand IN/Right Hand OUT).
 - c. Equal.
 2. Strike and Keeper with Emergency Access: Strike and keeper shall be heavy duty ASTM A167, Type 304 cast stainless steel with a polished satin finish. All outside comers and edges shall be rounded to ensure there are no sharp edges. The strike and keeper shall provide emergency egress by lifting of the door. The strike and keeper shall be 2.50" high, with the mounting holes at 1.50" O.C. The wall thickness shall be a minimum of .125". The keeper shall have a minimum 7/8 inch tab to prevent impaling injuries. The strike and keeper shall be mounted to the pilaster with theft proof stainless steel Torx Head with pin through-bolts. Strike and keeper shall have an integral rubber bumper door stop rated and able to withstand a sudden impact of 350 lbs.
 - a. Galaxy Hardware: CS-458 (inswing strike & keeper), or CS-456 (outswing strike & keeper).
 - b. Jacknob Corporation 6283 (inswing strike & keeper), or 4913 (outswing strike & keeper).
 - c. Equal.
 3. Slide Latch: Heavy duty cast stainless steel with satin finish. Slide latch shall be surface mounted. The slide bar shall be .150 inch thick, 1.020 inch wide and 3.720 inch long. Latch shall have an internal stainless steel buffering spring to prevent damage when door is inadvertently slammed against the latch. Mounting holes are to be spaced at 3.50 inch on center. Latch knob shall be riveted to the slide bar and welded to ensure that the knob will not come off. Stock number shall be molded into the back of the slide latch for ease identification. Furnish one per door. Stamped stainless steel is not acceptable.
 - a. Galaxy Hardware: CS-233.
 - b. Jacknob Corporation: 5053.
 - c. Equal
 4. Coat Hook: Heavy duty cast stainless steel with satin finish. Coat hook and bumper shall be 2.340 inch high, 1.230 inch wide and shall protrude out from the door 3.05 inch. The hook portion shall have a finished diameter of .250 inch thick. The stock number shall be molded into the back of the Coat Hook and Bumper for ease in identification. Furnish one per door. Stamped stainless steel is not acceptable. Mount at 48 inches maximum above finished floor in accessible toilet compartments.
 - a. Galaxy Hardware: CS-274.
 - b. Jacknob Corporation.
 - c. Equal.
 5. Door Stop: Heavy duty cast stainless steel with satin finish. Plated Zamac Door stops are unacceptable. Door Stop shall have a 2.125 inch base diameter and shall protrude 1.80 inch from the Wall. The bumper at the end of the Door Stop shall be .250 inch thick. The diameter of the shaft shall be .6875 inch. The stock) lumber shall be molded into the back of the Door Stop for ease in identification. Stamped stainless steel is not acceptable.
 - a. Galaxy Hardware: CS-276.
 - b. Jacknob Corporation: 4123.
 - c. Equal.

6. Pull Handle:

- a. Heavy duty cast stainless steel with satin finish. Plated Zamac Door pulls are unacceptable. Pull Handle shall protrude from the face of the door .940 inch and shall be 4.735 inch long. The Pull Handle shall have mounting holes drilled and tapped for 10/24 threads at 3.50 inch on center. The Pull Handle shall be .655 inch wide and shall be mounted back-to-back with the slide latch. The stock number shall be molded into the back of the pull handle for ease in identification. Stamped stainless steel is not acceptable. Provide u-pull shape handle on each side of accessible toilet compartment doors.
 1. Galaxy Hardware: CS-277.
 2. Jacknob Corporation: 6253.
 3. Equal.
- b. Accessible Door Pull: 5-1/8 inch by 3-inch-high stainless-steel pull:
 1. Galaxy Hardware: PH-200.
 2. Jacknob Corporation: 6253.
 3. Equal.

- B. Pilaster Shoes: ASTM A167, Type 302/304 Stainless Steel, minimum 4-inch high, 18-gauge, finish with #3 Directional polish, attached with stainless steel through bolts.
- C. Brackets: One-piece double ear bracket or single ear bracket (at end partition) extending within 3 inches of top and bottom panel edges. Extruded 6063-T5 Aluminum with a satin anodized finish or 304 stainless steel. The minimum weight shall be 1.685 pounds per lineal foot. Inside opening of Bracket shall be .50 inch for panels, .75 inch for pilasters. Holes for mounting to wall and panel/pilaster shall be pre-drilled. Holes are to be spaced at 9 inches on center along the full length of the bracket for a total of twelve holes (double ear) for mounting to the wall and six holes (single ear) for mounting to the panel/pilaster. Each bracket is to have a minimum wall thickness of .125 inch.
- D. Overhead Bracing (Headrail): Continuous heavy duty extruded 6063-T5 Aluminum Headrail with anti-grip profile. Head rail shall have integral reinforcing channel and curtain track. Head rail shall have Satin Anodized finish. Provide headrail corner brackets, wall brackets, and headrail end caps as required. The headrail and headrail brackets shall have a minimum wall height of 2 inch. The minimum wall thickness of the head rail and head rail brackets shall be .125 inch.
 1. Galaxy: AL-115 (16' anti-grip headrail), EC-120 (3/4" END CAP), HP-132. (Headrail to wall bracket pack), HP-970 (Corner headrail bracket pack).
 2. Jacknob Corporation: 80188 - Extruded Aluminum Headrail, 2109 Headrail Wall Brackets, 6672 Headrail End Caps.
 3. Equal.

PART-3 EXECUTION

3.01 EXAMINATION AND PREPARATION

- A. Before covering wall framing with finish materials, examine framing to ensure that backing plates and structural framing have been installed in such position as to receive all attachment screws.
- B. Verify spacing of plumbing fixtures to ensure compatibility with installation of compartments.
- C. Do not start the Work of this section until all deficiencies have been corrected.

3.02 INSTALLATION

- A. Install partitions and screens as shown in the Shop Drawings and in accordance with manufacturer's instructions and as specified. Install straight, level, and plumb.
- B. No evidence of drilling, cutting, or patching shall be visible in finished Work.
- C. Fasten panel brackets securely to walls and ceilings with recommended anchoring devices.
- D. Fasten panels and pilasters to brackets with through bolts and nuts.
- E. Fasten urinal screen panels to walls with a continuous bracket.
- F. Provide 1/2" inch spaces between wall surface and panels or pilasters.

- G. Provide for adjustment of floor variations with non-breakable plastic shoes on pilasters. Conceal floor fastenings in pilaster shoes.
- H. Furnish each toilet compartment door with top and bottom hinges, and door latch.
- I. Install door strike keeper on each pilaster in alignment with door latch.
- J. Furnish each toilet compartment door with one coat hook and bumper.

3.03 TOLERANCES OF INSTALLED WORK

- A. Maximum Variation from Plumb or Level: 1/8 inch.
- B. Maximum Misplacement from Intended Position: 1/8 inch.

3.04 ADJUSTING AND CLEANING

- A. Hardware Adjustment: After installation, adjust hardware for proper operation. Install hinges on in-swinging doors to hold open approximately 30 degrees from the closed position when unlatched. Install hinges on out-swinging doors to return to the fully closed position. Door shall be plumb with pilasters when door is closed.
- B. Adjust and align door hardware to uniform clearance at vertical edges of doors. Clearance space shall not exceed 1/4 inch.
- C. Cleaning: Clean compartments, hardware, and doors before Substantial Completion and leave free from imperfections. Remove protective coverings.

3.05 CLEANUP

- A. Remove rubbish, debris, and waste materials and legally dispose of off the Project site.

3.05 PROTECTION

- B. Protect the Work of this section until Substantial Completion.

END OF SECTION