

Solid Color-Thru Phenolic Composite Compartments, FMOB

Specification Section 10 21 13

Part 1 - GENERAL INFORMATION

1.01 Summary

A. Section Includes:

1. Solid color –thru phenolic composite toilet compartments, floor mounted overhead braced.
2. Solid color –thru phenolic composite urinal screens, wall hung post supported.

B. Related Sections:

1. 06 10 00: Backing for attachment of partitions in wood framed walls and partitions.
2. 06 10 00: Sustainable design requirements.
3. 09 10 00: Backing for attachment of partitions in metal framed walls and partitions.
4. 09 06 00: Schedules for finishes.
5. 10 28 00: Toilet and Bath Accessories.

1.02 Toilet Partitions:

A. **Overhead Braced** partitions consisting of solid color-thru phenolic composite pilasters, panels and doors, plated steel leveling devices with stainless steel covers, aluminum overhead bracing, and stainless steel fittings, hardware and fastenings necessary for complete installation and structural support from the floor as well as additional support to the upper pilasters.

B. Urinal Screens

1. **Wall Mounted** urinal screens consisting of solid color-thru phenolic composite screen panels, stainless steel fittings, and fastenings necessary for a complete installation from the wall only.
2. **Floor Post to Ceiling** vision screens consisting of solid color-thru phenolic composite screen panels, square aluminum post support, stainless steel fittings, and fastenings necessary for a complete installation supported from the floor, ceiling and wall.

1.03 References

- A. ADA Americans with Disabilities Act of 1990, as amended
1. ADA/Standards – ADA Title II Regulations and the 2010 ADA Standards for Accessible Design.
- B. ANSI - American National Standards Institute.
1. ANSI A208.1 - Mat Formed Wood Particleboard.
- C. ASTM - American Society for Testing and Materials
1. ASTM A167 - Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet and Strip
 2. ASTM A666 - Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar
 3. ASTM B221 - Aluminum Alloy Extruded Bars, Rods, Wire, Shapes and Tubes
 4. ASTM E84 - Burning Characteristic of Building Materials
 5. NFPA 286 – Corner Burn Test for HDPE and Polypropylene Toilet Stalls
- D. CBC - 2013 California Building Code
1. CBC-8 - CBC Chapter 8, Interior Finishes
 2. CBC-11B - CBC Chapter 11B, Access to Public Buildings, Public Accommodations, Commercial Facilities and Publicly Funded Housing
 3. CBC-17 – CBC Chapter 17A, Structural Testing and Special Inspections (for DSA)
- E. FSC – Certified 100% Post Consumer Recycled Paper
1. FSC-STD-40-004 V2-1; FSC-STD-40-005 V2-1

1.04 Submittals

- A. **Submittals:** Comply with submittals, procedures and quantities specified in Section 01330.
- B. **Submit Shop Drawings:** Submit shop drawings indicating partition layout and dimensions, panel and door sizes, door swings, elevations, anchorage, mounting details, material thickness, finishes and other related items and installation details.
- C. **Product Data:** Submit manufacturer's technical data for materials, fabrication, finishing, fastenings, hardware and installation details.
AND:
 - 1. Submit LEED documentation showing recycled content, points and pertinent dollar value. See appendix A
 - a. Recycled content.
 - b. Local/regional Materials
 - 2. Submit Forest Stewardship Council certification of chain of custody of controlled wood.
 - 3. Submit Material Data Sheet –MSDS
 - a. Formaldehyde emissions – Test results.
 - b. Volatile Organic Compounds-VOC -Test results.
 - 4. Submit Documentation for.
 - a. USA manufacturing of materials and final product.
 - b. Petro-Free™ resins
 - c. Fire rating and test results
 - d. ADA Compliance
- D. **Samples:** Submit samples of color and pattern selected for verification.

1.05 Regulatory Requirements

- A. International Code Council (ICC)
International Building Code (IBC)
 - 1. Chapter 8 Section 803.
 - 2. Chapter 11 Section 1109
- B. National Fire Protection Agency (NFPA)
NFPA 101 Life Safety Code
 - 1. Chapter 10
 - 2. Chapter 14
- C. American Society for Testing and Materials
 - 1. ASTM E-84 Surface Burning Characteristics of Building Materials.
- D. U.S. Green Building Council
Leadership in Energy and Environmental Design
(LEED) Program, Version 2.1
- E. CalGreen 2013 Table 5.504.4.5 - Formaldehyde Limits

1.06 Delivery, Storage and Handling

- A. Deliver and store materials in the manufacturer's original protective packaging. Store materials flat in an enclosed shelter providing protection from damage and exposure to the elements.

1.07 Coordination by Others

- A. Coordinate work under provisions of Section 01310
- B. Coordinate work with support framing, anchors and blocking.
- C. Coordinate work with placement of plumbing fixtures and floor drains.
- D. Coordinate work with placement of electric fixtures and equipment.
- E. Coordinate work with toilet accessories.

1.08 Warranty

- A. Provide Limited 10 year warranty under provisions of section 01770
- B. Warranty to provide for Solid color –thru phenolic composite toilet compartment panels, doors and stiles against breakage, corrosion and delamination.

PART 2 - PRODUCTS

2.01 Acceptable Manufacturer

A. Basis of Design on Guardian Partitions, Fibre Rock manufactured by:

Alan Lewis, Inc. as represented by Service Oriented Sales Ph 877-767-3227, email sos001@earthlink.net

2.02 Materials

- A. Toilet compartment panels, doors and pilasters shall be corrosion resistant. FSC Certified post-consumer recycled paper content. Pigments to be natural, resins to be non-petroleum based.
 - 1. Homogeneous color throughout, scratch resistant, manufacturer's standard surface finish.
 - 2. ASTM E84, Class A, Flame Spread: 20, Smoke Developed: 110.
 - 3. Panels shall be resistant to cleaning solvents and uric acid.
 - 4. Compressive strength: 45,000 psi minimum
 - 5. No added urea formaldehyde resins.
 - 6. Petro-Free™ resins.
 - 7. Certified VOC Free
 - 8. Natural pigments, not dyes.
 - 9. 100% post-consumer recycled fibers.

B. Urinal Screens

- 1. Wall Supported
- 2. Floor to Ceiling Post

2.03 Finishes

- A.
 - 1. Solid Color –Thru Phenolic Composite Finish: Solid color through as scheduled in [section 09 06 00]. Color selected by architect from manufactures full range of 8 colors, Slate, Cabernet, Chocolate, Denim, Gunmetal, Leather, Mocha, or Sienna.
 - a. Edges: Smooth satin finish.
 - b. Surfaces: [Matte finish] or [Buffed finish] or [Polished finish]
 - 2. Stainless Steel Surfaces: Type 304, 18-8, No4 satin or polished.
 - 3. Aluminum: ASTM B2221, 6453-T5 Alloy.

2.04 Fabrication

- A. Fabrication.
 - 1. Fabricate partitions by assembling from single sheet of solid plastic, with 1/4" rounded and polished edges. Bevel corner and edges of cutouts. Door and Panel corners to be machined to a radius of 1".
 - 2. Thickness of Doors shall be minimum 3/4" thick, panels minimum 1/2" thick, pilasters minimum 3/4" thick and screens minimum 1/2" thick.
 - 3. Door Handles at Accessible Compartments: Provide loop or U-shaped handle immediately below latch both faces on both sides of doors mounted at 34" - 44" above finished floor.
 - 4. Clear Width of accessible compartment doors (when opened at 90-degree) at compartments for disabled: Provide 34 inches for side entry and 32 inches for front entry.
 - 5. Door and Panel height: 58 inches, 12 inches clearance maximum under doors and panels, (minimum 9 inches).
 - 6. Urinal screens shall have the same construction as doors, panels and pilasters. Urinal screens shall be 24 by 48 inches high and mounted at 12 inches above the finished floor. [, provide post to ceiling supports, 1-3/4" sq. alum post and stainless steel shoe, ss screws, 3 brackets per panel.]

2.05 Hardware

- A.** Door Hardware shall be as follows.
- 1.** Accessible enclosures to include 2 door pulls each. Door pull to be fabricated from cast stainless steel. Door pull to be Guardian #ALI5403 with 3 ½" centers.
 - 2.** Door strike and keeper to be fabricated from cast stainless steel with wrap around flange surface mounted and through bolted to pilaster with one way sex bolts. Inswing keeper to be Guardian #4903; Outswing keeper to be Guardian #ALI4913.
 - 3.** Door latch housing to be fabricated from cast stainless steel, surface mounted and through bolted to door with one way sex bolts. Offset slide latch for inswing door to be Guardian #5063; Slide latch for outswing doors to be Guardian #ALI5053.
- B.** Hinges shall be heavy duty cast stainless steel with satin finish. Hinge shall be gravity type for self-closing action and shall be fully adjustable up to 360° 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 and end caps are unacceptable. Hinges shall provide emergency access by lifting door.
- C.** All brackets to be stamped stainless steel with #4 satin finish. Brackets shall be available in one ear, two ear, L and u configuration.
- D.** Pilasters are to be anchored by means of a plated steel leveling bar anchored to the pilaster with 3/8" threaded rod, spring washer and locking nut attached to 4" expansion anchors imbedded in the concrete floor. Stainless steel 4" high shoes are attached to pilaster at floor and through bolted to pilaster to conceal floor anchors.
- E.** Headrail shall be heavy duty clear anodized aluminum extrusion with anti-grip configuration. Headrail shall be furnished with minimum 0.125" wall thickness, and shall be fitted over tops of pilasters and at headrail brackets with one way sex bolts.
- F.** Headrail wall brackets shall be furnished with a minimum wall thickness of 0.0625 inch.
- G.** Chrome Plated, non-ferrous cast alloy material shall not be furnished for hinges, brackets, locks, latches and all fittings and accessories.

PART 3 - EXECUTION

3.01 Installation

- A.** Install partitions and screens in accordance with the 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 using appropriate anchors.
- D.** Attach panels and pilasters to brackets with through bolts. Locate headrail joints at pilaster center line.
- E.** Provide ½ inch space between wall surface and panels or pilasters
- F.** Provide for adjustment of floor variations with expansion anchors through steel leveling bar integral with the pilaster. Conceal floor fastenings with pilaster shoe.
- G.** Equip each toilet compartment with a latch and door stop. Equip all ADA accessible stalls with two door pulls.
- H.** Install door strike and keeper on each pilaster in alignment with the door latch.

3.02 Erection Tolerances

- A.** Maximum variation from plumb or level: 1/8 inch.
- B.** Maximum misplacement from intended position: 1/8 inch.

3.03 Adjustment and cleaning

- A.** Hardware Adjustment: Carefully adjust hardware for proper operation. Adjust and align door hardware to uniform clearance at vertical edges of doors. Clearance space not to exceed 3/16 inch.
- B.** Cleaning: Clean surfaces and hardware upon completion.

END OF SECTION