

SECTION 10 21 13.19
Solid Surface Toilet Compartments
Floor Mounted Overhead Braced with Aluminum Continuous Hinges and Aluminum
Continuous Wall Brackets. No Sight

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Solid surface toilet compartments, floor mounted overhead braced.
 - 2. Solid surface urinal screens, wall hung.
- B. Documents affecting work of this section include, but are not necessarily limited to, General Conditions, Supplementary Conditions, Special Conditions and Division 1.

1.2 REFERENCES

- 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. California Fire Code
 - 1. Chapter 8.
- D. American Society for Testing and Materials
 - 1. ASTM E-84 Surface Burning Characteristics of Building Materials.
- E. Amended California Building Code Part 2 Title 12
California Code of Regulations
 - 1. Chapter 11B Section 1115 B
- F. U.S. Green Building Council
Leadership in Energy and Environmental Design
(LEED) Program, Version 2.1

1.3 SUBMITTALS

- A. Shop Drawings and Product Data:
 - 1. Submit in accordance with Section 01330.
 - 2. Submit product data on panel construction, hardware, and accessories.
- B. Samples:
 - 1. Submit sample of partition panels, illustrating panel finish, color, and sheen and quarter scale model if requested by architect.

- C. Certification:
 - 1. Submit certification showing independent testing calculations that compartments comply with ASTM E84 to Class A requirements, Flame spread <25, Smoke development < 450. Untested material is not acceptable.

1.4 QUALITY ASSURANCE

- A. Manufacturers; Laminating Technologies, as represented by Service Oriented Sales, Ph (877) 767 4636, Fax (818) 914 6562. Gary@sos.to
- B. Equivalent products of other manufacturers will be considered in accordance with the substitution provision specified in Section 0100 – General Requirements

1.5 REGULATORY REQUIREMENTS

- A. Comply with California Building Code. Accessibility to Public Buildings, Public Accommodations, Commercial Buildings and Publicly Funded Housing.
- B. American Society for Testing Material ASTM E84
Class A Fire Rating (Class I) - Flame Spread (0-25) Smoke Developed < 450

1.6 FIELD MEASUREMENTS

- A. Verify that field measurements are as indicated on shop drawings.

1.7 COORDINATION

- A. Coordinate backing in walls. Backing by others.

1.8 WARRANTY

- A. Provide manufacturer's standard 20 year warranty, to include breakage, corrosion or delamination of installed surface components, hinge and door latch/ strike system. Defective components shall be replaced. Labor for reinstallation not included.

PART 2 PRODUCTS

2.0 SYSTEMS

- A. Floor Mounted Overhead Braced, Series 4000 System using Stainless Continuous Hinge, Stainless Steel Shoe and Aluminum Continuous Wall Bracket features.

2.1 MATERIALS

- A. Solid Surface: Solid Polymer Resins containing a minimum of 6-20% recycled resin that is waterproof, nonabsorbent and easily cleaned. Homogenous color throughout.

2.2 COMPONENTS

- A. Pilaster Shoe: Solid Surface matching partition color.
- B. Attachments, Screws, and Bolts: ASTM A167; Type 304 Stainless Steel.

- C. Through Bolts and Nuts: Type 304 stainless steel, Vandal resistant type.
- D. Hardware:
 - 1. Hinges: 54" Long Aluminum Continuous Hinges.
 - 2. Door Latch Housing: Aluminum extrusion with clear anodized finish, surface mounted and fastened to door with Type 304 stainless steel vandal resistant through bolts. Slide bolt and button shall be "Tough Coat Black" finish. Thumb turn type not acceptable in order to meet Handicap codes.
 - 3. Strike and Keeper: Extruded aluminum with clear anodized finish, equipped with rubber bumper, and fastened to pilaster with vandal resistant through bolts.
 - 4. Equip each door with Aluminum sliding door latch and metal coat hook with bumper. Provide for emergency access.
 - 5. Provide metal door pull and wall stop for out-swinging doors. Equip accessible doors with inside and outside pulls.
 - 6. Wall and Panel Brackets: 54" long, continuous Aluminum channel brackets.
 - 7. Headrail: 2 " high Heavy Duty Anti-Grip Aluminum extrusion.

2.3 FABRICATION

- A. Fabricate partitions from 1" thick Solid Surface material with finished faces, free of saw marks, and all edges machined to .250 inch radius. Strike pilasters machined to accept overlapping edges of door. Vertical edges of door routed to receive overlapping edge of pilaster.
- B. Bevel corners and edges of cutouts.
- C. Doors, panels, pilasters.
 - 1. Thickness: 1 inch minimum.
 - 2. Door Width: 24 inches minimum.
 - 3. Door Width for physically disabled: door as front access to compartment: minimum 32 inch clear opening; for side access to compartment: minimum 34 inch clear opening.
 - 4. Door Height: 55 inches, mounted 14 inches above floor.
 - 5. Pilaster Height: 82 inches.
 - 6. Panel Height: 55 inches, mounted 14 inches above floor.
- D. Urinal screens:
 - 1. Thickness: 1 inch minimum.
 - 2. Screen Width: 24 inches minimum.
 - 3. Screen Height: 42 inches mounted 14 inches above floor.

2.6 FINISHING

- A. Color of Solid Surface: Series 4000 selection of manufacturer's full range of colors.
- B. Stainless Steel Surfaces: No. 4 satin finish.
- C. Aluminum: Anodized clear natural color

PART 3 EXECUTION

3.0 EXAMINATION

- A. Verify correct spacing of and between plumbing fixtures
- B. Verify correct location of built-in framing, anchorage, and backing.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.1 INSTALLATION

- A. Handle Partitions in accordance with recommendations of WDMA I.S. 1-A, "Care and Installation at Job Site." Store all material flat.
- B. Install partitions secure, rigid, plumb, and level in accordance with manufacturer's instructions.
- C. Attach continuous wall brackets securely to walls using vandal resistant stainless steel fasteners spaced maximum 13 inches o/c.
- D. Locate head rail joints at pilaster center lines, and use end caps on exposed ends.
- E. 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. Solid Surface 4" high shoes are attached to pilaster at floor and epoxied to pilaster to conceal floor anchors
- F. Adjust all doors and hardware and other moving or operating parts to function smoothly and correctly.
- G. Field touch-up of scratches or damaged finish will not be permitted. Replace damaged or scratched materials with new materials.

3.2 ERECTION TOLERANCES

- A. Maximum 1" gap panel/pilaster to wall.
- B. Maximum Variation from True Position: 1/4 inch. Clearance at vertical edges of doors shall be uniform top to bottom and shall not exceed 1/4 inch.
- C. Maximum Variation From Plum: 1/8 inch.

3.2 CLEANING

- A. Clean finished surfaces under Section 01710.
- B. All surfaces shall be free of imperfections, scratch marks, blemishes or color variations.
- C. Remove and replace any components indicating evidence of imperfections.

END OF SECTION