

## **SECTION 10171**

### **SOLID SURFACE TOILET PARTITIONS**

#### **PART 1 - GENERAL**

##### **1.1 SUMMARY**

- A. Section includes: Corian® Surfaces from the DuPont company toilet compartments, urinal screens, privacy screens including required fittings, hardware, and accessories.
  
- A. Related sections:
  - 1. Section 05500 - Metal Fabrications: Structural support system for ceiling hung toilet compartments.
  - 2. Section 09255 - Gypsum Board Systems: Blocking in metal stud partitions for wall anchorage of toilet compartments.
  - 3. Section 10810 - Toilet Accessories: Accessories mounted on toilet compartments.

##### **1.2 REFERENCES**

- A. Americans with Disabilities (ADA) Standards for Accessible Design.
- B. ANSI A117.1 - American National Standard for Buildings and Facilities - Providing Accessibility and Usability for Physically Handicapped People.
- C. ASTM A167 - Stainless and Heat Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
- D. ASTM E84 - Surface Burning Characteristics of Building Materials.
- E. UFAS - Uniform Federal Accessibility Standards.

##### **1.3 SUBMITTALS**

- B. Provide in accordance with Section 01330 - Submittal Procedures:

4. Product data for compartments, panels, finishes, hardware, and accessories.
5. Shop drawings showing partition plans, elevations, dimensions, door swings, details for supports, and method of anchorage.
6. Samples of manufacturer's finishes [for selection by Architect].
7. Installation instructions.
8. Maintenance instructions.
9. Copy of warranty required by Paragraph 1.5 for review by Architect.

#### **1.4 QUALITY ASSURANCE**

- A. Products and installation shall comply with ANSI A117.1

#### **1.1 WARRANTY**

- A. In accordance with Section 01770 - Closeout Procedures provide 10 years warranty to covers panels, doors, and pilasters against breakage, delamination, and corrosion.

### **PART 2 - PRODUCTS**

#### **2.1 ACCEPTABLE MANUFACTURERS/DISTRIBUTORS**

American Building Specialties Corp 800-292-6227

#### **2.2 TYPE**

- A. Toilet compartments: Ceiling Hung as manufactured **& distributed** by American Building Specialties Corp.
- B. Maximum Flame spread requirements of 35. Maximum smoke generation of 100 [45 for 1" thickness.]

## 2.3 MATERIAL

### A. Material:. Solid polymer components

1. Cast, nonporous, filled polymer, not coated, laminated or of composite construction with through body colors meeting ANSI Z124.3 or ANSI Z124.6, having minimum physical and performance properties specified.
2. Superficial damage to a depth of 0.010 inch (0.25 mm) shall be repairable by sanding and/or polishing.

### B. Minimum thickness:

1. Panels: [1 inch] [25 mm].
2. Doors: [1 inch] [25 mm].
3. Pilasters: [1 inch] [25 mm].

### C. Sizes: [As indicated on Drawings.]

1. Inswinging door: 24 inches wide by 58 inches high.
2. Outswinging door for use by persons with physical handicaps: Width to provide 32 inches clear opening by 58 inches high. Provide 36 inch doors when feasible else provide 34 inch doors.
3. Maximum ceiling height allowed for ceiling hung partitions - 9'0".

## 2.4 FITTINGS

A. Attachment hardware: Stainless steel, one-way vandal proof sex bolts and No. 14 stainless steel metal screws of length recommended by manufacturer.

B. Connection brackets: Continuous stainless steel brackets at all connections.

C. Equip top end of pilasters with [1/2 inch] [13 mm] thick steel bar anchored to solid Surface material with threaded anchors, set pins, and plastic spacers. Bar to accept two threaded steel studs and leveling nuts used for suspending pilaster from ceiling support.

D. Pilaster trim: Minimum 3 inches high 0.031 inch thick stainless steel shoe.

## 2.5 HARDWARE

- A. Hinges: Standard doors - continuous stainless steel hinge or vault hinge  
Handicap doors - continuous stainless steel hinge or vault hinge
- B. Combination coat hook and rubber bumper and rubber tipped door bumper as needed: Stainless steel
- C. Latch: Surface mounted, stainless steel slide latch that does not require twisting or turning of wrist to operate.
- D. Combination latch keeper and door stop with rubber bumper: Stainless steel
- E. Door pull: Stainless steel. Provide 1 on each side of outswing and handicap doors.

## **2.6 FACTORY FINISHING**

- A. Color: Color selected by Architect from manufacturer's standard range of Class A & B Dupont Corian products. Only colors produced by Corian in ½ inch material thickness are usable for 1 inch toilet partitions.

## **PART 3 - EXECUTION**

### **3.1 PREPARATION**

- A. Coordinate requirements for blocking in stud walls to ensure proper support is provided for wall attachments.
- B. Coordinate requirements for structural support members and bracing above ceiling for adequate suspension of ceiling hung toilet partitions.
- C. Verify that site conditions are ready to receive work and opening dimensions are as indicated on shop drawings.
- D. Verify correct spacing of plumbing fixtures.

### **3.2 INSTALLATION**

- A. Install partitions secure, plumb, and level in accordance with manufacturer's instructions.
- B. Maintain [3/8 to 1 inch] [10 to 25 mm] uniform space between wall and panels and between wall and end pilasters.

- C. Attach continuous panel brackets securely to walls using anchor devices recommended by manufacturer.
- D. Attach panels and pilasters to brackets with manufacturer recommended screws.
- E. Brace pilasters with corian strips 3 or 4 inches wide across backside of pilasters approximately 6" down from ceiling. Add same from back of pilaster to back wall if needed to prevent material movement.
- F. Suspend pilasters from auxiliary structural framing directly above finished ceiling. Attach with two [3/8] [10mm] threaded studs [5 inches] [127mm] long. Use leveling nuts and washers to adjust position of pilaster. Conceal ceiling attachment with pilaster shoes.
- G. Door installation: Hang doors from pilasters. Equip each door with two pivot hinges, door latch, door strike and keeper, and coat hook and bumper. Install door pulls on outswinging and handicap doors.

### **3.3 ERECTION TOLERANCES**

- A. Maximum variation from true position: 1/4 inch.
- B. Maximum variation from plumb: 1/8 inch.

### **3.4 ADJUSTING**

- A. Replace significantly damaged, deeply scratched, or broken panels.
- B. Adjust hinges to locate inswinging doors in partial open position and outswinging doors in closed position when unlatched.
- C. Adjust and align hardware to uniform clearance at vertical edge of doors.

### **3.5 CLEANING**

- A. Clean surfaces with liquid spray furniture or counter top polish. Do not use abrasives.

### **END OF SECTION**