

SECTION 10 21 13  
PLASTIC TOILET PARTITIONS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Solid plastic toilet partitions configured as toilet enclosures, and urinal screens.

1.2 ACTION SUBMITTALS

- A. Product Data: Technical data including construction details, material descriptions, dimensions of individual components and profiles, and finishes for toilet compartments.
  - 1. Construction Waste Management: Submit tabulating and supporting for salvaged, recycled, and reused building waste materials.
- B. Shop Drawings: Submit plans, elevations, sections, details, and attachment details.
  - 1. Show locations of cutouts for compartment-mounted toilet accessories.
  - 2. Show locations of centerlines of toilet fixtures.
  - 3. Show locations of floor drains.
  - 4. Show ceiling grid, ceiling mounted items, and overhead support or bracing locations.
- C. Samples: Upon requires of Architect, submit actual sample of finished products for each type of toilet compartment indicated.
  - 1. Size: 6 inch (152 mm) square, of same thickness indicated for work.
  - 2. Include each type of hardware and accessory.
- D. Product Schedule: Submit schedule prepared by or under the supervision of supplier, detailing location and selected colors for toilet compartment material.

1.3 INFORMATIONAL SUBMITTALS

- A. Certificates:
  - 1. Product Certificates: Submit for each type of toilet compartment by manufacturer.

1.4 CLOSEOUT SUBMITTALS

- A. Maintenance Data: Submit data to include in maintenance manuals.

### 1.5 COORDINATION

- A. Coordinate requirements for overhead supports, blocking, reinforcing, and other supports concealed within wall and ceiling.

### 1.6 FIELD CONDITIONS

- A. Field Measurements: Verify actual locations of toilet fixtures, walls, columns, ceilings, and other construction contiguous with toilet compartments by field measurements, and coordinate before fabrication.

### 1.7 WARRANTY

- A. Written warranty signed by manufacturer in which manufacturer agrees to repair or replace components of toilet enclosure units that fail in materials or workmanship within specified warranty period.
  - 1. Failures include, but are not limited to, the following:
    - a. Structural failures including detachment of components from each other or from the substrates, delamination, and permanent deformation beyond normal use.
    - b. Deterioration of metals, metal finishes, plastics, and materials beyond normal use.
  - 2. Warranty Period: Five years from date of Substantial Completion.

### 1.8 EXTRA MATERIALS

- A. Extra Stock Material: Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
  - 1. Door Hinges: One hinge(s) with associated fasteners.
  - 2. Latch and Keeper: One latch(es) and keeper(s) with associated fasteners.
  - 3. Door Bumper: One bumper(s) with associated fasteners.
  - 4. Door Pull: One door pull(s) with associated fasteners.
  - 5. Fasteners: 10 fasteners of each size and type.

## PART 2 - PRODUCTS

### 2.1 PERFORMANCE REQUIREMENTS

- A. Fire Performance: Tested in accordance with, and pass the acceptance criteria of, NFPA 286.
- B. Surface Burning Characteristics: Comply with ASTM E 84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
  - 1. Flame Spread Index: 25 or less.

2. Smoke Developed Index: 450 or less.

C. Accessibility Requirements: Comply with applicable requirements.

1. U.S. Architectural and Transportation Barriers Compliance Board Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities (ADAAG) 2010.
2. ICC/ANSI A117.1 Accessible and Useable Building and Facilities.

## 2.2 SOLID PLASTIC TOILET PARTITIONS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Accurate Partitions Corp., an ASI Group Company.
2. AJW Architectural Products.
3. American Sanitary Partition Corporation.
4. Ampco by AJW.
5. General Partitions Mfg. Corp.
6. Global Partitions Corp., an ASI Group Company.
7. Hadrian Manufacturing Inc.
8. Marlite.
9. PSISC.
10. Scranton Products.
11. Weis-Robart Partitions, Inc.

B. Toilet Enclosure Style: Overhead braced.

C. Urinal Screen Style: Wall hung.

D. Door, Panel, Screen, and Pilaster Construction: Solid, high density polyethylene (HDPE) panel material, not less than 1 inch (25 mm) thick, seamless, with eased edges, no sightline system, and with homogenous color and pattern throughout thickness of material.

1. Integral Hinges: Configure doors and pilasters to receive integral hinges.
2. Heat Sink Strip: Continuous, stainless steel strip fastened to exposed bottom edges of solid-plastic components to hinder malicious combustion.
3. Color and Pattern: Two colors and patterns in each room.

E. Pilaster Shoes and Sleeves (Caps): Stainless steel.

F. Brackets (Fittings):

1. Full Height (Continuous) Type: stainless steel.

## 2.3 HARDWARE AND ACCESSORIES

- A. Hardware and Accessories, Heavy Duty: Heavy duty operating hardware and accessories.
1. Hinges: Minimum 0.062 inch (1.59 mm) thick stainless steel paired, self closing type adjustable to hold doors open at any angle up to 90 degrees, allowing emergency access by lifting door. Mount with through bolts.
  2. Latch and Keeper: Heavy duty, surface mounted, cast stainless steel latch unit, designed to resist damage due to slamming, with combination rubber faced door strike and keeper, and with provision for emergency access. Provide units that comply with regulatory requirements for accessibility at compartments designated as accessible. Mount with through bolts.
  3. Toilet Compartment Occupancy Indicator System:
    - a. Description: Battery powered latch and electrically powered indicator light system. Latches communicate wirelessly with separate, overhead indicator lights.
    - b. Latch: Slide operation.
      - 1) Power Source: Two AA batteries.
      - 2) Low Battery Warning: Indicator light pulses when associated batteries of corresponding latch require replacement.
    - c. Indicator Light: Full color, low voltage, LED indicator that displays red when compartment door is latched, green when standard compartment door is unlatched, and blue when accessible compartment door is unlatched.
    - d. Mounting: Wall mounted.
    - e. Body Material and Finish: Stain white finish ABS plastic; installed with stainless steel fasteners.
    - f. Lens Material and Finish: Frosted acrylic.
    - g. Electrical Requirements: Provide indicator lights with dc adapters and that allow up to 30 lights to be powered by a single 115-V, 20-A, electrical receptacle.
  4. Coat Hook: Heavy duty combination cast stainless steel hook and rubber tipped bumper, sized to prevent inswinging door from hitting compartment mounted accessories. Mount with through bolts.
  5. Door Bumper: Heavy duty, rubber tipped, cast stainless steel bumper at outswinging doors. Mount with through bolts.
  6. Door Pull: Heavy duty, cast stainless steel pull at outswinging doors that complies with regulatory requirements for accessibility. Provide units on both sides of doors at compartments designated as accessible. Mount with through bolts.
- B. Overhead Bracing: Standard continuous, extruded aluminum head rail with antigrip profile and in manufacturer's standard finish.
- C. Anchorages and Fasteners: Standard exposed fasteners of stainless steel, finished to match the items that are being secured, with theft resistant type heads. Provide sex type bolts for through bolt applications. For concealed anchors, use stainless steel, hot dip galvanized steel, or other rust resistant, protective coated steel compatible with related materials.

## 2.4 MATERIALS

- A. Aluminum Castings: ASTM B26/B26M.
- B. Aluminum Extrusions: ASTM B221 (ASTM B221M).
- C. Brass Castings: ASTM B584.
- D. Brass Extrusions: ASTM B455.
- E. Stainless Steel Sheet: ASTM A240/A240M or ASTM A666, Type 304, stretcher leveled standard of flatness.
- F. Stainless Steel Castings: ASTM A743/A743M.
- G. Zamac: ASTM B86, commercial zinc alloy die castings.

## 2.5 FABRICATION

- A. Fabrication: Fabricate toilet compartment components to sizes indicated. Coordinate requirements and provide cutouts for through-partition toilet accessories where required for attachment of toilet accessories.
- B. Overhead Braced Units: Provide corrosion resistant supports, leveling mechanism, and anchors at pilasters to suit floor conditions. Provide shoes at pilasters to conceal supports and leveling mechanism.
- C. Door Size and Swings: Unless otherwise indicated, provide 24 inch (610 mm) wide, inswinging doors for standard toilet compartments and 36 inch (914 mm) wide, outswinging doors with a minimum 32 inch (813 mm) wide, clear opening for compartments designated as accessible.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine areas and conditions for compliance with requirements for fastening, support, alignment, operating clearances, and other conditions affecting performance of the Work.
  - 1. Confirm location and adequacy of blocking and supports required for installation.
- B. Proceed with installation after correcting unsatisfactory conditions.

### 3.2 INSTALLATION OF PLASTIC TOILET COMPARTMENTS

- A. Comply with manufacturer's written installation instructions. Install units rigid, straight, level, and plumb. Secure units in position with manufacturer's recommended anchoring devices.
  - 1. Maximum Clearances:

- a. Pilasters and Panels: 1/2 inch (13 mm).
  - b. Panels and Walls: 1 inch (25 mm).
2. Full Height (Continuous) Brackets: Secure panels to walls and to pilasters with full height brackets.
- a. Locate bracket fasteners, so holes for wall anchors occur in masonry or tile joints.
  - b. Align brackets at pilasters with brackets at walls.
- B. Overhead Braced Units: Secure pilasters to floor and level, plumb, and tighten. Set pilasters with anchors penetrating not less than 1-3/4 inches (44 mm) into structural floor unless otherwise indicated in manufacturer's written instructions. Secure continuous head rail to each pilaster with no fewer than two fasteners. Hang doors to align tops of doors with tops of panels and adjust, so tops of doors are parallel with overhead brace when doors are in closed position.
- C. Urinal Screens: Attach with anchoring devices to suit supporting structure. Set units level and plumb, rigid, and secured to resist lateral impact.

### 3.3 ADJUSTING

- A. Hardware Adjustment: Adjust and lubricate hardware according to hardware manufacturer's written instructions for proper operation. Set hinges on inswinging doors to hold doors open approximately 30 degrees from closed position when unlatched. Set hinges on outswinging doors to return doors to fully closed position.

END OF SECTION