

## SECTION 10171

### SOLID PLASTIC TOILET COMPARTMENTS

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. Solid-polymer plastic toilet compartments, consisting of:
  - 1. Floor-mounted overhead-braced toilet compartments.
  - 2. Floor-to-ceiling toilet compartments.
  - 3. Wall-mounted urinal screens.
  - 4. Floor-mounted overhead-braced shower compartments.
  - 5. Floor-mounted overhead-braced dressing compartments.
  - 6. Floor-to-ceiling dressing compartments.
  
- B. Solid phenolic toilet compartments, consisting of:
  - 1. Floor-mounted overhead-braced toilet compartments.
  - 2. Floor-to-ceiling toilet compartments.
  - 3. Wall-mounted urinal screens.
  - 4. Floor-mounted overhead-braced shower compartments.
  - 5. Floor-mounted overhead-braced dressing compartments.
  - 6. Floor-to-ceiling dressing compartments.
  
- C. Compartment installation hardware.
  
- D. Compartment door hardware.

##### 1.2 RELATED SECTIONS

- A. Section 10800 - Toilet, Bath, and Laundry Accessories.

##### 1.3 SUBMITTALS

- A. Submit under provisions of Section 01300.
  
- B. Product Data: Manufacturer's printed literature indicating typical panel, pilaster, door, hardware and fastening.
  
- C. Shop Drawings: Submit six sets of the following:
  - 1. Dimensioned plans indicating layout of toilet compartments.
  - 2. Dimensioned elevations indicating heights of doors, pilasters, separation partitions, and other components; indicate locations and sizes of openings in compartment separation partitions for toilet and bath accessories to be installed in partitions; indicate floor and ceiling clearances.

3. Details indicating anchoring components and methods for project conditions; indicate components required for installation, but not supplied by toilet compartment manufacturer.

D. Samples: Two manufacturer's color cards representing manufacturer's full color palette.

#### 1.4 DELIVERY, STORAGE AND HANDLING

A. Store compartment components until installation in unopened cartons laid flat, with adequate support to ensure flatness and to prevent damage to prefinished surfaces.

#### 1.5 ENVIRONMENTAL REQUIREMENTS

A. Do not deliver materials or begin construction activities of this section until building is enclosed, with complete protection from outside weather, and building temperature maintained at a minimum of 60 degrees Fahrenheit.

#### 1.6 SEQUENCING

A. Obtain accessory manufacturer's installation instructions and installation templates for toilet and bath accessories to be installed in compartment separation partitions; supply instructions and templates to installer before beginning construction activities of this Section.

### PART 2 PRODUCTS

#### 2.1 MANUFACTURERS

A. Acceptable Manufacturer: Global Steel Products, Inc.; 95 Marcus Blvd., Deer Park NY 11729-4595; telephone 516-586-3330, FAX 516-586-3455.

B. Substitutions: Not permitted.

C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

#### 2.2 SOLID POLYMER PLASTIC TOILET COMPARTMENTS

A. Acceptable Product: Embassy Solid Plastic Toilet Compartments.

- B. Acceptable Product: Floor-to-Ceiling Solid Plastic Toilet Compartments.
- C. Panels:
1. Nominal thickness: 1 inch, thickness tolerance plus or minus 0.03 inch.
  2. Construction: Single sheet solid-polymer plastic material, formed from waterproof, non-absorbent, high density polyethylene resins; mark-resistant self-lubricating surface; edges finished smooth.
- D. Pilasters:
1. Nominal thickness: 1 inch, thickness tolerance plus or minus 0.03 inch.
  2. Construction: Single sheet solid-polymer plastic material, formed from waterproof, non-absorbent, high density polyethylene resins; mark-resistant self-lubricating surface; edges finished smooth.
  3. Pilaster installation hardware preparation: Two holes, diameter to accept 3/8 inch threaded rod, drilled into core at pilaster base end, parallel to pilaster vertical axis, intersecting centerlines of two holes, diameter to accept Plug-Loc(tm) installation hardware, drilled through pilaster perpendicular to pilaster face and 1 inch from pilaster base end.
  4. Pilaster installation hardware preparation: Two holes each at top and bottom, diameter to accept 3/8 inch threaded rod, drilled into core parallel to pilaster vertical axis, intersecting centerlines of two holes, diameter to accept Plug-Loc(tm) installation hardware, drilled through pilaster perpendicular to pilaster face and 1 inch from pilaster ends.
- E. Doors:
1. Nominal thickness: 1 inch, thickness tolerance plus or minus 0.03 inch.
  2. Construction: Single sheet solid-polymer plastic material, formed from waterproof, non-absorbent, high density polyethylene resins; mark-resistant self-lubricating surface; edges finished smooth.
  3. Hinge preparation: Prepare doors for heavy-duty "bank vault" hinges.
- F. Color: Selected from manufacturer's full color palette.

## 2.3 SOLID PHENOLIC TOILET COMPARTMENTS

- A. Acceptable Product: Embassy Phenolic Toilet Compartments.
- B. Acceptable Product: Floor-to-Ceiling Phenolic Toilet Compartments.
- C. Panels:
  - 1. Nominal thickness: 1/2 inch.
  - 2. Core: Multiple layers phenolic resin impregnated Kraft papers bonded under heat and pressure.
  - 3. Face sheets: Decorative face papers, phenolic resin impregnated, bonded under heat and pressure integral with core.
  - 4. Edges: Finished smooth.
- D. Pilasters:
  - 1. Nominal thickness: 3/4 inches.
  - 2. Core: Multiple layers phenolic resin impregnated Kraft papers bonded under heat and pressure.
  - 3. Face sheets: Decorative face papers, phenolic resin impregnated, bonded under heat and pressure integral with core.
  - 4. Edges: Finished smooth.
  - 5. Pilaster installation hardware preparation: Two holes, diameter to accept 3/8 inch threaded rod, drilled into core at pilaster base end, parallel to pilaster vertical axis, intersecting centerlines of two holes, diameter to accept Plug-Loc(tm) installation hardware, drilled through pilaster perpendicular to pilaster face and 1 inch from pilaster base end.
  - 6. Pilaster installation hardware preparation: Two holes each, diameter to accept 3/8 inch threaded rod, drilled into core at pilaster ends, parallel to pilaster vertical axis, intersecting centerlines of two holes, diameter to accept Plug-Loc(tm) installation hardware, drilled through pilaster perpendicular to pilaster face and 1 inch from pilaster ends.
- E. Doors:
  - 1. Nominal thickness: 3/4 inches.
  - 2. Core: Multiple layers phenolic resin impregnated Kraft papers bonded under heat and pressure.

3. Face sheets: Decorative face papers, phenolic resin impregnated, bonded under heat and pressure integral with core.
4. Edges: Finished smooth.

F. Finish: Selected from manufacturer's full color palette.

## 2.4 ACCESSORIES

- A. Pilaster Shoes: Four-piece Type 304 stainless steel assembly, No. 4 satin finish, hemmed top and bottom edges.
- B. Pilaster Anchors: Manufacturer's standard floor anchor with leveling adjustment, concealed by pilaster shoe after installation.
- C. Pilaster Anchors: Manufacturer's standard floor and ceiling anchors with leveling adjustment, both concealed by pilaster shoe after installation.
- D. Head Rail: Manufacturer's standard anodized aluminum rail with anti-grip device.
- E. Brackets: Heavy duty extruded anodized aluminum, three brackets per connection.
- F. Urinal Screen Brackets: Manufacturer's standard full height 38-inch-long heavy duty anodized extruded aluminum, prepared for fastening hardware.
- G. Brackets: Die-cast No.304 stainless steel, No.4 satin finish, with throughbolts and fasteners of same material and finish with tamper-resistant heads.
- H. Urinal Screen Brackets: Manufacturer's standard die-cast No.304 stainless steel, No.4 satin finish, prepared for fastening hardware.
- I. Door Hardware:
  1. Top hinge: Heavy-duty "bank vault" type, die-cast aluminum alloy with brushed chrome-plated finish; wrap-around pilaster and door mounting, through-bolted.
  2. Bottom hinge: Same as top hinge, with gravity-acting cams.
  3. Latch: Non-ferrous, satin chrome-plated, slide latch, through-bolted.
  4. Strike and Keeper: Permitting emergency access by lifting the door until latch is clear of keeper; satin chrome-plated finish; through-bolted.

5. Coat Hook and Bumper: Non-ferrous, chrome-plated, with black rubber tip for door stop.
6. Fastening Hardware: Manufacturer's standard, No.304 stainless steel, No.4 satin finish, through-bolts and attachment fasteners with tamper-resistant heads.

J. Toilet and Bath Accessories for Installation in Compartment Separation Partitions: Specified Section 10800.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Verification of Conditions:
  1. Measure areas to receive compartments; verify area dimensions are in accordance with shop drawings.
  2. Verify built-in framing, anchorage, bracing, and plumbing fixtures are in correct location.
- B. Installer's Examination:
  1. Have installer of this section examine conditions under which construction activities of this section are to be performed, then submit written notification if such conditions are unacceptable.
  2. Transmit two copies of installer's report to Architect within 24 hr of receipt.
  3. Beginning construction activities of this section before unacceptable conditions have been corrected is prohibited.
  4. Beginning construction activities of this section indicates installer's acceptance of conditions.

### 3.2 PREPARATION

- A. Surface Preparation:
  1. Prepare openings in compartment separation partitions for toilet and bath accessories to be installed in partitions; marring of partition finish is prohibited.
  2. Locate openings in accordance with shop drawings and accessory manufacturer's installation instructions and templates.

### 3.3 INSTALLATION

- A. Install compartments to specified tolerances in accordance with shop drawings and manufacturer's printed installation instructions.
- B. Attach components to adjacent materials and to other components using purpose-designed fastening devices.
- C. Adjust pilaster anchors for floor variations; conceal anchors with pilaster shoes.
- D. Adjust pilaster anchors for floor variations; conceal anchors with lower pilaster shoes. Support pilasters from ceiling framing using two adjustable hanging studs; for vertical adjustment to level; conceal ceiling fasteners with upper pilaster shoes.
- E. Equip each compartment door with top and bottom hinges, and door latch.
- F. Install door strike keeper on pilasters in alignment with door latch.
- G. Equip each compartment door with one coat hook and bumper.
- H. Installation Tolerances:
  - 1. Maximum variation from plumb or level: 1/8 inch.
  - 2. Maximum displacement from indicated position: 1/8 inch.
  - 3. Clearance between wall surface and panels or pilasters: 1-1/2 inch maximum.

### 3.4 ADJUSTING

- A. Adjust door hardware for uniform clearance between doors and pilasters.
- B. Adjust door hinges to attain free movement, to locate in-swinging doors in partial open position when unlatched; and to return out-swinging doors to closed position.
- C. Adjust door hardware to align door strike keeper on each pilaster with door latch.

### 3.5 PROTECTION OF INSTALLED PRODUCTS

- A. Prevent damage to product finishes by subsequent construction activities.

- B. Replace components having damaged finish.
- C. Remove factory protective coverings and clean finish surfaces in accordance with manufacturer's instructions before final inspection.

3.6 SCHEDULE

- A. Men's Locker Room No. \_\_\_\_: Solid plastic toilet compartments and urinal screens; compartments floor-to-ceiling, urinal screens wall-mounted; compartment separation partitions \_\_\_\_\_ color, pilasters \_\_\_\_\_ color.
- B. Women's Locker Room No. \_\_\_\_:
  - 1. Solid plastic shower compartments; compartment separation partitions \_\_\_\_\_ color, pilasters \_\_\_\_\_ color.
  - 2. Phenolic dressing compartments, floor-mounted overhead-braced; compartment separation partitions \_\_\_\_\_ color, pilasters \_\_\_\_\_ color, doors \_\_\_\_\_ color.

END OF SECTION