

SECTION 10155

TOILET PARTITIONS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Baked enamel steel toilet compartments.

1.2 RELATED SECTIONS

- A. Section 05120 - Structural Steel: Supports for ceiling hung compartments.
- B. Section 10800 - Toilet, Bath, and Laundry Accessories.

1.3 REFERENCES

- A. ANSI/ICC A117.1 - Accessible and Usable Buildings and Facilities.
- B. ASTM A 167 - Standard Specification for Stainless and Heat Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
- C. ASTM A 879, 879M - Standard Specification for Steel Sheet, Electrolytic Zinc-Coated, for Light Coating Weight (Mass) Applications.
- D. ASTM A 653 – Steel Sheet, zinc-coated (galvanized) or zinc iron alloy-coated, galvanized by hot dip process.
- E. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's product data for materials, fabrication, and installation including catalog cuts of anchors, hardware, fastenings, and accessories., including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Shop Drawings:
 - 1. Provide shop drawings for fabrication and installation of compartment assemblies that are not fully described by architectural drawings.
 - 2. Provide template layouts and installation instructions for anchorage devices built into other work.

- D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns. Submit manufacturer's standard color selector.
- E. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum 5 years manufacturing toilet partitions.
- B. Installer Qualifications: Minimum 2 years experience installing toilet partitions.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits. Manufacturer's storage and handling instruction shall be reviewed and maintained.
- B. Field Measurements: Take field measurements prior to component fabrication to ensure proper fitting of work.
- C. Coordination: Furnish inserts and anchorages that will be built into other work for installation of toilet compartments and related items.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Ampco Products, LLC.; 11400 N. W. 36th Ave., Miami, FL 33167. ASD. Tel: (305) 821-5700. Fax: (305) 507-1414. Email: info@ampco.com. Web: <http://www.ampco.com>
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 COMPARTMENTS AND SCREENS

- A. General: Doors, panels, screens, and pilasters assembled into complete compartment system, with cutouts and drilled holes to receive hardware as indicated; processed and fabricated in a craftsmanlike manner; complying with ANSI/ICC A117.1, Americans with Disabilities Act (ADA), and as follows:
- B. Toilet Compartments: Overhead braced.

1. Compartment Depth and Width: As indicated on drawings.
 2. Door Width: 24 inches (610 mm), minimum; at wheelchair accessible compartments, 32 inches (813 mm), inside clear minimum.
 3. Doors and Panels:
 - a. Top at 70 inches (1778 mm) above finished floor.
 - b. Bottom at 12 inches (305 mm) above finished floor.
 4. Pilaster Width: As required to fit space; minimum 3 inches (76 mm).
 5. Pilaster Height: 82 inches (2083 mm) including head rail.
- C. Toilet Compartments: Floor mounted.
1. Compartment Depth and Width: As indicated on drawings.
 2. Door Width: 24 inches (610 mm), minimum; at wheelchair accessible compartments, 32 inches (813 mm), inside clear minimum.
 3. Doors and Panels:
 - a. Top at 70 inches (1778 mm) above finished floor.
 - b. Bottom at 12 inches (305 mm) above finished floor.
 4. Pilaster Width: As required to fit space; minimum 3 inches (76 mm).
 5. Pilaster Height: 70 inches (1778 mm).
- D. Toilet Compartments: Ceiling hung.
1. Ceiling Height: 96 inches (2440 mm) typical. Varies.
 2. Compartment Depth and Width: As indicated on drawings.
 3. Door Width: 24 inches (610 mm), minimum; at wheelchair accessible compartments, 32 inches (813 mm), inside clear minimum.
 4. Doors and Panels:
 - a. Top at 70 inches (1778 mm) above finished floor.
 - b. Bottom at 12 inches (305 mm) above finished floor.
 5. Pilaster Width: As required to fit space; minimum 3 inches (76 mm).
 6. Bottom of Pilasters: At 12 inches (305 mm) above finished floor.
- E. Toilet Compartments: Floor to ceiling pilasters.
1. Ceiling Height: 96 inches (2440 mm). Varies
 2. Compartment Depth and Width: As indicated on drawings.
 3. Door Width: 24 inches (610 mm), minimum; at wheelchair accessible compartments, 32 inches (813 mm), inside clear minimum.
 4. Doors and Panels:
 - a. Top at 70 inches (1778 mm) above finished floor.
 - b. Bottom at 12 inches (305 mm) above finished floor.
 5. Pilaster Width: As required to fit space; minimum 3 inches (76 mm).
- F. Modesty Panels: Floor mounted.
1. Style: Floor leg integral with panel.
 2. Style: Floor mounted pilaster.
 3. Style: Floor to ceiling pilaster.
 4. Depth: As indicated on drawings.
 5. Other dimensions same as toilet compartments.
- G. Urinal Screens:
1. Style: Floor leg integral with panel.
 2. Style: Pilaster supported.
 3. Style: Wall mounted.
 4. Depth: 12 inches (305 mm).
 5. Depth: 18 inches (457 mm).
 6. Depth: 24 inches (610 mm).

7. Height: Top at 70 inches (1778 mm) and bottom at 12 inches (305 mm) above finished floor.
8. Height: Top at 60 inches (1524 mm) and bottom at 18 inches (458 mm) above finished floor.

2.3 BAKED ENAMEL PANEL COMPONENTS

- A. Doors, Panels, and Pilasters: Baked enamel steel sheets, complying with ASTM A 879 Class C and ASTM A-653; galvanized, bonderized, and electrostatically applied powder coat paint finish; bonded to kraft honeycomb core, impregnated with sound-deadening resin; edges with continuous rolled-formed interlocking strip; corners welded and ground smooth, mechanical corner fastenings not acceptable.
 1. Color: To be selected from manufacturer's standard colors.
 2. Color: _____.
 3. Door and Panel Thickness: 1 inch (25 mm).
 4. Pilaster Thickness: 1-1/4 inches (32 mm).
- B. Fabrication:
 1. Furnish standard doors, panels, screens and stiles fabricated for compartment system. Furnish units with cutouts and drilled holes to receive compartment hardware as indicated.
 2. Metal, Powder Coated Baked Enamel: One-piece face sheets shall be bonded to core material. Edges shall have a continuous rolled- formed interlocking strip. Corners shall be welded and ground smooth. Mechanical corner fastenings will not be acceptable.
- C. Hardware Set - Standard:
 1. Brackets: Type 304 cast stainless steel pivot hinge with Number 4 satin finish hardware.
 2. Hinges: Heavy duty cast stainless steel, Type 304 with Number 4 finish; two per door.
 - a. Top Hinge: Opposing nylon gravity-acting cam allowing door to be set in various positions.
 - b. Bottom Hinge: Free swinging.
 - c. Emergency access feature for outside access.
 3. Latch and Keeper: Type 304 cast stainless steel with Number 4 finish; slide latch with combination stop and emergency release feature.
 4. Coat Hook: Type 304 cast stainless steel with Number 4 finish; combination hook and bumper on inswinging doors.
 5. Door Pull: Type 304 cast stainless steel with Number 4 finish.
- D. Hardware Set - Stainless Steel:
 1. Brackets: Type 304 stamped stainless steel with number 4 satin finish.
 2. Brackets: Continuous aluminum 54-1/2 inches length (1384 mm) clear satin anodized
 3. Brackets: Continuous stamped stainless steel 54-1/2 inches length (1384 mm) number 4 satin finish.
 4. Hinges: Cast Type 304 stainless steel with number 4 finish with gravity acting cam allowing doors to be set at various positions.
 5. Hinges: Continuous stainless steel cam 1/4 inch (6 mm) pin- 54-1/2 inches length (1384 mm). Allows doors to fully close for any outswing or handicapped accessible compartments. Inswing doors shall remain open at 20 degrees in rest position.
 6. Hinge: Clear satin anodized aluminum continuous adjustable spring tension hinge 54-1/2 inches length (1384 mm). Cover caps conceal the mounting fasteners.
 7. Latch and Keeper: Type 304 cast stainless steel with Number 4 finish; slide latch with combination stop and emergency release feature.
 8. Coat Hook: Type 304 cast stainless steel with Number 4 finish; combination hook and bumper on inswinging doors.

9. Door Pull: Type 304 cast stainless steel with Number 4 finish.

2.4 ACCESSORY MATERIALS

- A. Pilaster Shoes, and Caps: 20 gage (0.9 mm) thick ASTM A 167, Type 304 stainless steel; not less than 3 inches (76 mm) high; Number 4 satin (brushed) finish.
- B. Overhead Bracing: Continuous extruded aluminum, anti-grip profile, with clear satin anodized finish, with returns and anchors.
- C. Anchorages and Fasteners: Manufacturer's standard chromium-plated exposed fasteners finished to match hardware with theft-resistant type heads (one-way).
 1. Concealed Steel Fasteners: Zinc-plated, rust-resistant, protective coating.
 2. Overhead Braced: Galvanized steel supports and leveling bolts at pilasters to suit floor conditions as recommended by manufacturer; provisions for setting and securing overhead bracing at top of each pilaster; pilaster shoe to conceal supports and leveling mechanism.
 3. Floor Mounted: Galvanized steel anchorage devices with threaded rod, lock washers, and leveling adjustment nuts at pilasters to permit structural connection at floor; pilaster shoe to conceal supports and leveling mechanism.
 4. Ceiling Hung: Galvanized steel anchorage devices with threaded rod, lock washers, and leveling adjustment nuts at pilaster connection for structural support above finished ceiling; devices designed to support pilasters from structure without transmitting load to finished ceiling; pilaster shoe to conceal anchorages.
 5. Floor to Ceiling: Galvanized steel supports and/or threaded rod, lock washers, and leveling adjustment nuts at pilasters as required; pilaster shoe to conceal anchorages.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. General: Install in accordance with manufacturer's instructions.
 1. Install compartment units rigid, straight, plumb and level.
 2. Provide clearance of not more than 1/2 inch (12 mm) between stiles and panels and not more than 1 inch (25 mm) between panels and walls.
 3. Secure panels to walls with not less than two brackets attached near top and bottom of panel.
 4. Locate wall brackets so holes for wall anchorages occur in masonry or tile joints.

5. Secure panels to stiles with not less than two brackets located to align with brackets at wall.
 6. Secure panels in position with manufacturer's recommended anchoring devices.
 7. Level, plumb, and tighten installation with devices furnished.
- B. Overhead Braced Compartments:
1. Secure stile to floor.
 2. Secure overhead brace to each stile with fasteners supplied.
 3. Hang doors and adjust so tops of doors are parallel with overhead brace when doors are in closed position.
- C. Floor Mounted Compartments:
1. Set stile units with anchorages having not less than 2 inches (51 mm) penetration into structural floor, unless otherwise recommended by manufacturer.
 2. Hang doors and adjust so tops of doors are level with tops of stiles when doors are in closed position.
- D. Ceiling Hung Compartments:
1. Secure stiles to supporting structure.
 2. Hang doors and adjust door so door bottoms are level with bottoms of stiles when doors are in closed position.
- E. Floor to Ceiling Compartments:
1. Secure divider panels to built-in anchorage devices using concealed fasteners.
 2. Hang doors and adjust so door bottoms are 12 inches (305 mm) off floor when doors are in closed position.
- F. Screens:
1. Attach with anchoring devices as recommended by manufacturer to suit supporting structure.
 2. Set unit to provide support and to resist lateral impact.
- G. EuroLine Compartments:
1. Install compartment units rigid, straight, plumb and level.
 2. Provide clearance of not more than 1/4 inch (6 mm) between pilasters and panels and not more than 3/8 inch (10 mm) between panels and walls.
 3. Secure panels to walls with three stirrup brackets.
 4. Secure panels to pilasters with three stirrup brackets to align with stirrup brackets at wall.
 5. Secure pedestals to floor and level, plumb, and tighten installation with devices furnished.
 6. Secure overhead brace to each pilaster.
 7. For screens: set units to provide support and to resist lateral impact.
- H. Hardware Adjustment: Adjust and lubricate hardware for proper operation. Set hinges on inswing doors to hold open approximately 30 degrees from closed position when unlatched. Set hinges on out-swing doors (and entrance swing doors) to return to fully closed position.

3.4 ADJUSTING AND CLEANING

- A. Hardware Adjustment: Adjust and lubricate hardware for proper operation. Set hinges on inswing doors to hold open approximately 30 degrees from closed position when unlatched. Set hinges on out-swing doors (and entrance swing doors) to return to fully closed position.

- B. Clean and Protect: Clean exposed surfaces of compartment systems using materials and methods recommended by manufacturer, and provide protection as necessary to prevent damage during remainder of construction period.

END OF SECTION