

## SECTION 10155

### TOILET PARTITIONS

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. High pressure plastic laminate 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 E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- D. NEMA LD 3 - High Pressure Decorative Laminates.

##### 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 4 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. Manufacturers' 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 Florida (Miami), Ampco Texas (Sanger), and Ampco Washington (Auburn) ASD. T. (305) 821.5700. F. (305) 507.1414. E. 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: Overhead braced, Euroline.
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, Panels, and Pilasters:
    - a. Top at 78 inches (1981 mm) above finished floor.
    - b. Bottom at 6 inches (152 mm) above finished floor.
  4. Pilaster Width: As required to fit space; minimum 3 inches (76 mm).
  5. No sight gaps on hinge side or lock side of door.
  6. All fasteners and reinforcing concealed from view from outside compartment.
  7. Pedestal fastened to floor with concealed anchors.
- D. 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).
- E. 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.
- F. 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).
- G. 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.
- H. 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.
- I. Hardware Set - Euroline:
1. Material: Powder Coated Stainless Steel finished aluminum.
  2. Material: Powder coated aluminum (white).
  3. Hinges: Fully adjustable self closing, with hinges set to allow door to fall open.
  4. Latch and Keeper/Indicator Bolt: Slide bar on interior with exterior indicator to indicate occupancy; also provide door bumper.
  5. Coat Hook: Wall bumper and garment hook on interior of door with rubber bumper.
  6. Door Pull.
  7. Pedestals: One adjustable height pedestal per side panel of compartment, with ground clearance of 5-1/5 inches (140 mm) to 6-11/16 inches (170 mm).
  8. Exposed Fasteners: Chrome plated brass or stainless steel.

## 2.3 HIGH PRESSURE DECORATIVE LAMINATE PANEL COMPONENTS

- A. Doors, Panels, and Pilasters: One-piece high pressure plastic laminate surface complying with NEMA LD 3, Grade GP 50, 0.050 inch (1.27 mm) nominal thickness, bonded to 45 pcf (720 kg/c m) density particleboard core with polyvinyl acetate adhesive.
1. Particleboard: 45 pcf (720 kg/c m) density particleboard core, bonded with polyvinyl acetate adhesive.
  2. Marine Grade Plywood: C-C grade, plug and touch sanded.
  3. Color: To be selected from manufacturer's standard colors.
  4. Color: \_\_\_\_\_.
  5. Edges: Laminate, applied before face laminate and bonded with thermo-setting resin glue under continuous heat and pressure.
  6. Edges: Stainless steel finished laminate edge, applied before face laminate and bonded with thermo-setting resin glue under continuous heat and pressure.
  7. Thickness with Particleboard Core: Doors and panels 7/8 inch (22 mm); pilasters 1-1/4 inches (32 mm).
  8. Thickness with Particleboard Core: 1 inch (25 mm) doors, panels and screens.
  9. Thickness with Marine Grade Plywood Core: 7/8 inch (22 mm) doors, panels and screens.
  10. Pilaster: Steel core reinforced on both edges of stiles.
- B. Fabrication:
1. Furnish standard doors, panels, screens and pilasters fabricated for compartment system. Furnish units with cutouts and drilled holes to receive compartment hardware as indicated.
  2. High Pressure Plastic Laminate: One-piece seamless face sheets shall be pressure laminated to core material. Edges shall be applied prior to face sheets. Woodgrain panels over 60 inches (1524 mm) deep require seaming.
- C. Hardware Set - Standard:
1. Brackets: Cast chrome plated non-ferrous.

2. Hinges: Gravity-acting cam allowing all doors to be set at various positions.
  3. Latch and Keeper: Cast chrome plated non-ferrous slide latch and combination stop with emergency release.
  4. Coat Hook - Outswinging Doors: Cast chrome plated non-ferrous coat hook.
  5. Coat Hook - Inswinging Doors: Combination coat hook and door bumper.
  6. Door Pull: Cast chrome plated non-ferrous metal.
- D. Hardware - Euroline:
1. Material: Stainless steel finished aluminum hardware.
  2. Material: Powder coated aluminum.
  3. Pedestals: Adjustable height, with ground clearance of 5-1/5 inches (140 mm) to 6-11/16 inches (170 mm); one pedestal per side panel of compartment.
  4. Hinges: Fully adjustable self closing, with hinges set to allow door to fall open.
  5. Latch and Keeper/Indicator Bolt: Slide bar on interior with exterior indicator to indicate occupancy; also provide door bumper.
  6. Coat Hook: Wall bumper and garment hook on interior of door with rubber bumper.
  7. Door Pull.
- E. 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.
  10. Exposed Fasteners: Chrome plated brass or stainless steel.
- F. Grab Bar Reinforcing: Wood reinforcement of panels for grab bars consists of 5.5" (140mm) wide by 15/16" (24mm) thick solid poplar that runs the length of the panel. The load bearing quality is subject to the grab bar itself, the fasteners used, and the blocking in the wall that supports the panel. Note: Grab bars, fasteners, and blocking supplied by others.

## 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 pilaster to floor.
  2. Secure overhead brace to each pilaster 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 pilaster 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 pilaster to supporting structure.
  2. Hang doors and adjust door so door bottoms are level with bottoms of pilasters 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 in-swing 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