

SECTION 10155

TOILET PARTITIONS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Ambienta G - Glass 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 591 - 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.
- F. ASTM C 1036 – Standard Specification for Flat Glass
- G. ASTM C1048 – Standard Specification for Heat Strengthened & Tempered Glass
- H. ASTM C1172 – Standard Specification for Laminated Architectural Glass
- I. ASTM C158-02 – Standard Test Method for Strength of Glass by Flexure
- J. ASTM C1279-09 – Standard Test Method for Non-Destructive Photo-elastic Measurement of Edge and Surface Stresses in Annealed, Heat Strengthened and Fully Tempered Flat Glass..

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, in addition to:
 - 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 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.

1.6 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: Ambienta Global LLC • Web: <http://www.ambientausa.com>
PO Box 831, Placida, FL 33946
Tel: (855) 966-3925

Substitutions: Not permitted.

Distributed by:

- B. Substitutions: No Substitutions Permitted.

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: Ambienta G – Glass Cubicles.
 - 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. Pedestal fastened to floor with concealed anchors.
 - C. 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 GLASS PANEL COMPONENTS

- A. Doors, Panels, and Pilasters: two layers of 1/4" (6mm) crystal glass either side of decorative interlayer. All edges polished
 - 1. Color / Specie: Decorative Interlayer to be selected from manufacturer's standard species & colors.
 - 2. Color/Specie: _____.
 - 3. Edges: Polished.
 - 4. Thickness: Doors and Pilasters, 1/2 inch (12 mm); Panels and Urinal Screens, 1/2 inch (12 mm) minimum.
 - 5. Thickness: 1/2 inch (12 mm), door finished.
 - 6. Thickness: 1/2 inch (12 mm) panels.
 - 7. Thickness: 1/2 inch (12 mm) pilaster.
- 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.
- C. Hardware Set – Ambienta G:
 - 1. Material: stainless steel.

2. Hinges: Fully adjustable self closing, with hinges set to allow door to fall open.
3. Latch and Keeper/Indicator Bolt: Slide bar on interior with exterior indicator to indicate occupancy; also provide door bumper.
4. Coat Hook: Wall bumper and garment hook on interior of door with rubber bumper.
5. Door Pull.
6. 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).
7. Exposed Fasteners: stainless steel.

2.4 ACCESSORY MATERIALS

- A. Overhead Bracing: Continuous extruded aluminum, anti-grip profile, with clear satin anodized finish, with returns and anchors.

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. Ambienta G 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.
- C. 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-