SECTION 10155
TOILET COMPARTMENTS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Powder coated steel partitions.

1.2 RELATED SECTIONS

A. Section 05500 - Metal Fabrications: Concealed steel support members.

B. Section 06110 - Wood Framing: Concealed wood framing and blocking for compartment support.

C. Section 10800 - Toilet and Bath Accessories.

1.3 REFERENCES

A. ASTM International:
1. Standard Test Method for Surface Burning Characteristics of Building Materials.

2. ASTM D 1735 - Standard Practice for Testing Water Resistance of Coatings Using Water Fog Apparatus
3. ASTM D 2247 - Standard Practice for Testing Water Resistance of Coatings in 100 percent Relative Humidity

B. United States Green Building Council (USGBC): LEED Green Building Rating System.

1.4 SUBMITTALS

A. Submit under provisions of Section 01300.

B. [Product Data]: Manufacturer's data sheets on each product to be used, including:
1. Literature indicating typical panel, pilaster, door, hardware and fastening.
2. Preparation instructions and recommendations.
3. Storage and handling requirements and recommendations.
4. Installation methods.

C. Shop Drawings:
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 (bolt layouts) and methods for project conditions; indicate components required for installation, but not supplied by toilet compartment manufacturer.

D. Selection Samples: For each finish product specified, one complete set of color selection guides representing manufacturer's full range of available colors, textures and patterns.

E. Verification Samples: For each finish product specified, two samples representing actual product, color, texture and pattern.

F. LEED Green Building Rating System: Submit manufacturer's documentation of recycled content, in accordance with LEED credit calculations.

G. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver, store and handle materials and products in strict compliance with manufacturer's instructions and recommendations and industry standards.

B. Store products indoors in manufacturer's or fabricator's original containers and packaging, with labels clearly identifying product name and manufacturer. Protect from damage.

C. Lay cartons flat, with adequate support to ensure flatness and to prevent damage to pre-finished surfaces.

D. Do not store where ambient temperature exceeds 120 degrees F (49 degrees C).

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.

B. Do not deliver materials or begin installation until building is enclosed, with complete protection from outside weather, and building temperature maintained at a minimum of 60 degrees F (15.6 degrees C).

1.7 WARRANTY

A. Manufacturers Standard Warranty: Provide warranty for Powder Coated Steel Material against chipping, flaking, cracking, or discoloration for 3 years, assuming proper maintenance according to manufacturer's recommendations.

1.8 COORDINATION

A. Coordinate Work with placement of support framing and anchors in walls and ceilings.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Basis of Design: ASI Global Partitions, Integrated Privacy Compartments. which is located at: 900 Clary Connector; Eastanollee, GA 30538; Tel: 706-827-2700; Fax: 706-827-2710; Email: request info (sales@asi-globalpartitions.com); Web: http://asi-globalpartitions.com
   1. Other Acceptable Manufacturer: ASI Accurate Partitions; Burr Ridge IL; Tel: 708-442-6800; Web: http://www.asi-accuratepartitions.com.
   2. No other manufacturer will be accepted without construction performance compliance.

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

2.2 COMPARTMENTS AND SCREENS

A. Toilet Compartments: Floor Mounted.
   1. Compartment Depth and Width: As scheduled and indicated on Drawings.
   2. Door Width: 24 inches (610 mm), minimum; at ADA accessible compartments 36 inches (915 mm) minimum.
   3. Height Above Floor: 12 inches (305 mm).
   4. Door/Panel Height: 58 inches (1473 mm).

B. Privacy and Urinal Screens: Wall hung.
   1. Screen Panel Size: 24 inches (610 mm) wide by 48 inches (1219 mm) high.

2.3 POWDER COATED STEEL TOILET COMPARTMENTS

A. Doors, Panels, Screens, and Pilasters: Tension leveled, cold-rolled galvannealed steel face sheet, bonded under pressure to honeycomb core with non-toxic adhesive.
   1. Doors, Screens, and Panels: 1 inch (25 mm) thick; 22 gage (0.760 mm) steel.
   2. Pilasters: Floor Mounted, 1-1/4 inches (32 mm) thick, 18 gage (1.21 mm) steel.
   3. Edge Moldings: panels, pilasters: Continuous roll-formed interlocking, 22 gage (0.760 mm) steel crown molding.
   4. Edge Moldings Doors: Integrated sightline blocking molding affixed to door during fabrication. Formed by continuous roll form process 22-gauge steel.

B. Finish: Epoxy/polyester powder coat electrostatically applied to phosphate treated steel, baked to cure. Color as selected from manufacturer's standard colors.

C. No-Sight System: Integral to door construction required.
   1. Powder coated to match partition color concurrent with fabrication.
   2. Add on no sight strips not allowed.

D. Door Hardware: Attached with theft resistant barrel nuts and shoulder screws.
   1. Finish: Chromium plated Zamac or Type 304.
   2. Hinges: Top hinge recessed and interlocked in door, with nylon pin in the plane of the door, through-bolted. Bottom hinge recessed in door, with mating box and pintle nylon cams providing the bearing surface; adjustable to allow door to rest at any position within a 270-degree range; through-bolted.
   3. Strike and Keeper: Asi Privacy Indicator latch installed on factory prepared door. Emergency access provided by slotted occupancy indicator.
   4. Handicapped Access: Provided via slide latch functionality of Asi Privacy Indicator latch.
   5. Coat Hook and Bumper: Manufacturer's standard surface mounted. No tamper resistant screws required.
   6. Door Pull: Standard on ADA compartments. Two per ADA door.
   7. Fastening Hardware: Theft resistant heads.

E. Mounting Brackets: Chromium plated Zamac stirrup brackets with theft resistant screws.

F. Pilaster Shoes: Type 304 Stainless Steel, No. 4 satin finish. Minimum 4 inches (102 mm) high secured to floor w/internal clips.

G. Pilaster Anchors: Floor Mounted.
   1. 0.116 inches (2.9 mm) slotted stirrup bracket welded to bottom of pilaster, with two 3/8-inch (9.5 mm) diameter cadmium-plated studs anchoring bracket via wedge anchors to concrete floor.
   2. Concealed by pilaster shoe after installation.

PART 3 EXECUTION

3.1 EXAMINATION AND PREPARATION

A. Inspect and prepare substrates using the methods recommended by the manufacturer for achieving best result for the substrates under project conditions. Clean surfaces thoroughly prior to installation.

B. Do not proceed with installation until substrates have been prepared using the methods recommended by the manufacturer and deviations from manufacturer's recommended tolerances are corrected. Commencement of installation constitutes acceptance of conditions.

C. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.
   1. Verify dimensions of areas to receive compartments.
   2. Verify locations of built-in framing, anchorage, bracing, and plumbing fixtures.

3.2 INSTALLATION

A. Install in accordance with approved shop drawings and manufacturer's instructions.

B. Fasten components to adjacent materials and to other components using purpose-designed fastening devices.

C. Adjust pilaster anchors for substrate variations; conceal anchors with pilaster shoes.

D. Equip each compartment door with hinges and door latch.

E. Install door strike keeper on pilasters in alignment with door latch.

F. Equip each compartment door with one coat hook and bumper.

G. Installation Tolerances:
   1. Maximum variations from plumb or level: 1/8 inch (3 mm).
   2. Clearance between wall surface and panels or pilasters: 1-1/2 inch (38 mm) maximum.

3.3 ADJUSTING

A. Adjust and align hardware to uniform clearance at vertical edge of doors.

B. Adjust adjacent components for consistency of line or plane.

3.4 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Substantial Completion.

C. Remove factory protective coverings and clean finish surfaces in accordance with manufacturer's instructions before substantial completion.