

SECTION 10170
PLASTIC TOILET COMPARTMENTS

PART 1 - GENERAL

1.01 PROVISIONS INCLUDED

- A. The general provisions of the Contract, including General and Supplementary Conditions and Division 1 General Requirements, apply to this Section.

1.02 SUMMARY

- A. This Section includes toilet compartments and screens fabricated from plastic panels, floor supported and overhead braced.
- B. Related Work Specified in Other Sections:
 - 1. Toilet accessories: Section 10810.

1.03 DEFINITION

- A. "Accessible": Accessible to and individual in a wheelchair, and conforming to the Americans with Disabilities Act (ADA) "Architectural Guidelines," ANSI A117.1.
 - 1. Where stalls are shown as oversize (5' x 5' or larger), provide accessible hardware whether or not units are called out as "accessible" on the Drawings.

1.04 SUBMITTALS

- A. Product Data: Submit manufacturer's illustrated product data, including specifications for materials and fabrication, installation instructions, and details of anchors, hardware, fastenings, and accessories.
- B. Shop drawings for fabrication and erection of toilet compartment assemblies not fully described by product drawings. Include plans, elevations, sections, details, and attachment to other work. Show locations of reinforcement and cutouts for compartment-mounted toilet accessories.
- C. Samples: For color selection submit sections of actual units showing full range of colors, textures, and patterns available. For verification after color selection has been made, submit 6-inch-square samples of each color.

1.05 QUALITY ASSURANCE

- A. Field Measurements: Verify dimensions in areas of installation by field measurements before fabrication and indicate measurements on Shop Drawings.
 - 1. Where field measurements cannot be made without delaying the Work, establish dimensions and proceed with fabricating units without field measurements. Coordinate

supports, adjacent construction, and fixture locations to ensure actual dimensions correspond to established dimensions.

- B. Coordination: Furnish inserts and anchors which must be built into other work for installation of toilet compartments and related items. Coordinate delivery with other work to avoid delay.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Manufacturer: Comtec Industries, Inc., to match existing partitions.

2.02 COMPONENTS

- A. General: Provide materials that have been selected for surface flatness and smoothness. Exposed surfaces that exhibit pitting, seam marks, roller marks, stains, discolorations, telegraphing of core material, or other imperfections on finished units are unacceptable.
- B. Panels: High density polyethylene resin (HDPE) with homogenous color throughout, incorporating at least 20% recycled plastic. Provide material not less than 1 inch (25 mm) thick, with seamless construction and eased edges.
 - 1. Color: Furnish color selected by the Architect from manufacturer's full range.
- C. Pilaster Shoes and Sleeves (Caps): ASTM A 666, Type 302 or 304 stainless steel, not less than 0.0312 inch (0.8 mm) thick and 3 inches (75 mm) high, finished to match hardware.
- D. Full-Height (Continuous) Brackets: For attaching panels and screens to walls and pilasters, furnish full-height aluminum brackets.
- E. Overhead Bracing: Continuous extruded aluminum, antigrip profile, with clear anodized finish.
- F. Heat-Sink Strip: Manufacturer's standard continuous, extruded-aluminum strip in manufacturer's standard finish.
- G. Anchorages and Fasteners:
 - 1. Exposed: Stainless steel, finished to match hardware, with theft-resistant-type heads. Provide sex-type bolts for through-bolt applications.
 - 2. Concealed anchors: Hot-dip galvanized, cadmium-plated, or other rust-resistant protective-coated steel.
- H. Door Hardware: Aluminum hardware of the following types:
 - 1. Hinges: 8" high aluminum hinges, self-closing, adjustable to hold door open at any angle up to 90 degrees.
 - 2. Latch and Keeper: Manufacturer's standard surface-mounted latch unit with combination rubber-faced door strike and keeper designed for emergency access. Provide units that

comply with ANSI A117.1 and with MAAB at compartments indicated to be "accessible."

3. Coat Hook: Manufacturer's standard combination hook and rubber-tipped bumper, sized to prevent door from hitting compartment-mounted accessories.
4. Door Bumper: Manufacturer's standard rubber-tipped bumpers.
5. Door Pull: Manufacturer's standard unit that complies with accessibility requirements of authorities having jurisdiction.

2.03 FABRICATION OF TOILET PARTITIONS

- A. General: Furnish standard doors, panels, screens, and pilasters fabricated for compartment system. Furnish units with cutouts and drilled holes to receive partition-mounted hardware, accessories, and grab bars, as indicated.
- B. Solid-Plastic, Polymer-Resin Compartments and Screens: Provide aluminum heat-sink strips at exposed bottom edges of HDPE units to prevent burning.
- C. Overhead-Braced-and-Floor-Anchored Compartments: Provide manufacturer's standard corrosion-resistant supports, leveling mechanism, fasteners, and anchors at pilasters to suit floor conditions. Make provisions for setting and securing continuous head rail at top of each pilaster. Provide shoes at pilasters to conceal supports and leveling mechanism.
 1. Headrail: Extruded aluminum with anti-grip configuration.
- D. Floor-Anchored Screens: Provide pilasters and panels of same construction and finish as toilet compartments. Provide manufacturer's standard corrosion-resistant anchoring assemblies complete with threaded rods, lock washers, and leveling adjustment nuts at pilasters for structural connection to floor. Provide shoes at pilasters to conceal anchorage.
- E. Doors: Unless otherwise indicated, provide 24-inch-wide in-swinging doors for standard toilet compartments and 36-inch-wide out-swinging doors with a minimum 32-inch-wide clear opening for compartments indicated to be "accessible" or wheelchair accessible.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. General: Comply with manufacturer's written installation instructions. Install units rigid, straight, plumb, and level. Provide clearances of not more than 1/2 inch between pilasters and panels and not more than 1 inch between panels and walls. Secure units in position with manufacturer's recommended anchoring devices.
 1. Secure panels to walls and pilasters with continuous brackets. Locate wall brackets so holes for wall anchors occur in masonry or tile joints. Align brackets at pilasters with brackets at walls.

- B. Overhead-Braced-and-Floor-Anchored Compartments: Secure pilasters to floor and level, plumb, and tighten. Secure continuous head rail to each pilaster with not less than 2 fasteners. Hang doors and adjust so tops of doors are parallel with overhead brace when doors are in closed position.
- C. Screens: Attach with anchoring devices according to manufacturer's written instructions and to suit supporting structure. Set units level and plumb and to resist lateral impact.

3.02 ADJUST AND CLEAN

- A. Hardware Adjustment: Adjust and lubricate hardware according to manufacturer's written instructions for proper operation. Set hinges on in-swinging doors to hold open approximately 30 degrees from closed position when unlatched. Set hinges on out-swinging doors to return to fully closed position.
- B. Clean exposed surfaces of partition systems using materials and methods recommended by manufacturer.
- C. Protect toilet partitions from damage and deterioration until the time of Substantial Completion.

END OF SECTION 10170