

SECTION 10165

STAINLESS STEEL TOILET COMPARTMENTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Stainless steel toilet compartments, floor-anchored, overhead-braced.
2. Stainless steel urinal screens, wall hung.

B. Related Sections:

1. Section 05500 -Miscellaneous Metal Fabrications: For bracing of panels.
2. Section 09310 - Ceramic Tile: Ceramic tile floor and wall substrates.
3. Section 10800 - Toilet Room Accessories.

1.2 SUBMITTALS

A. Product Data: Submit manufacturer's specifications for materials, fabrication, and installation. Include details of anchors, hardware, fastenings, and accessories.

B. Shop drawings: Submit dimensioned layout drawings for fabrication and erection of toilet compartment assemblies, templates, and instructions for installation of anchorage devices built into other work.

C. Samples:

1. For Selection: Submit full range of available standard finishes for type of unit required.

1.3 QUALITY ASSURANCE

A. Accessibility: Provide compartments indicated to be accessible, including doors and hardware, that comply with 28 CFR Part 36 "ADA Accessibility Guidelines for Buildings and Facilities". Notify the Architect of any observed conflicts between requirements indicated for this Project and the ADA Guidelines.

B. Field Measurements: Take field measurements prior to preparation of shop drawings and fabrication where possible to ensure proper fitting of work. However, allow for adjustments where taking of field measurements before fabrication might delay work.

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

D. Warranty: Provide manufacturer's standard warranty

1.4 DELIVERY STORAGE AND HANDLING

- A. Provide PVC film on all finished components for protection during shipment and installation.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. **Available Manufacturers:** Subject to compliance with requirements, manufacturers offering products which may be incorporated in the Work include, but are not limited to, the following:
 - 1. Mills/Bradley, Inc.
 - 2. Accurate Partitions Corp.
 - 3. Global Steel Products
 - 4. Hadrian Inc.
 - 5. Bobrick Washroom Equipment, Inc.
 - 6. Columbia Partitions (Partitions Systems, Inc.)
 - 7. General Partitions Manufacturing Corp.

2.2 MATERIALS

- A. **General:** Provide materials, which have been selected for surface flatness and smoothness. Exposed surfaces, which exhibit pitting, seam marks, roller marks, stains, discolorations, telegraphing of core material, or other imperfections on finished units are not acceptable.
 - 1. Doors, panels, pilasters, and urinal screens shall be manufactured with a double-faced honeycomb core that is bonded under pressure to the stainless steel with a non-toxic adhesive to ensure solid construction and sound attenuation. All the stainless steel components shall be assembled with a continuous roll-formed interlocking, 22-gauge stainless steel crown molding welded and ground smooth at the corners.
- B. **Stainless Steel Sheet:** ASTM A 666, Type 302 or 304, stretcher-leveled flatness, finished to No. 4 directional polish (as per NAAMM) in the following minimum thickness:
 - a. Pilaster: 0.036-inch.
 - b. Panels and Screens: 0.040-inch.
 - c. Doors: 0.029-inch.
- C. **Reinforcement for Metal Partitions:**
 - 1. **Concealed Anchorage Reinforcement:** Minimum 0.105 inch (12 gage), galvanized steel sheet or 3" x 7/8" particle board across panel.
 - a. Concealed Tapping Reinforcement: Minimum 0.075 inch (14 gage) galvanized steel sheet or 3" x 7/8" particle board across panel.

- D. **Pilaster Shoes and Caps:** ASTM A 167, Type 302/304 stainless steel, not less than 3 inches high, 0.0396 inch thick (20 gage), finished to match hardware.
- E. **Stirrup Brackets:** Cast brackets for attaching panels to walls and pilasters, either stainless steel or chromium-plated brass alloy.
- F. **Hardware and Accessories:** Shall be heavy duty cast stainless steel or chromium-plated cast brass alloy.
- G. **Pilaster Anchors:** Furnish galvanized or zinc-plated steel anchorage devices complete with threaded rods, lock washers, and leveling adjustment nuts at pilasters to provide structural connection at supporting construction. Provide shoe or cap at each pilaster to conceal anchorage.
- H. **Overhead Bracing:** Continuous extruded aluminum, anti-grip profile, with clear anodized finish.
- I. **Anchorage and Fasteners:** Manufacturer's standard exposed fasteners of stainless steel, chromium-plated or zinc-plated steel, or brass, finished to match hardware, with theft-resistant-type heads and nuts. For concealed anchors, use hot-dip galvanized, zinc-plated, or other rust-resistant protective-coated steel.

2.3 FABRICATION

- A. **General:** Furnish standard doors, panels, screens, and pilasters fabricated for compartment system. Furnish units with cutouts, drilled holes, and internal reinforcement to receive partition-mounted hardware, accessories, and grab bars, as indicated.
- B. **Door Dimensions:** Unless otherwise indicated, furnish 24-inch wide in-swinging doors for ordinary toilet stalls and 32-inch wide (clear opening) out-swinging doors for stalls equipped for use by handicapped.
- C. **Panels:** The faces of all panels 58" or less in width shall be formed from a single sheet of steel and be free of any seams.
- D. **Overhead-Braced Compartments:** Furnish galvanized steel pilaster anchor at each pilaster as recommended by manufacturer to suit floor conditions. Make provisions for setting and securing continuous, extruded aluminum, anti-grip, overhead bracing at top of each pilaster.
- E. **Wall-Hung Screens:** Furnish panels of same construction and finish as toilet compartments. Provide a minimum of two (2) wall brackets at each screen with vandal-resistant fasteners.
- F. **Locking Devices:** Furnish flush, screw driver-operated cam locks of number required to hold door in flush, smooth plane when closed.
- G. **Hardware:** Furnish hardware for each compartment to comply with ANSI A117.1 for handicapped accessibility and as follows:
 - 1. **Hinges:** Cutout inset type, adjustable to hold door open at any angle up to 90 degrees. Provide gravity type, spring-action cam type, or concealed torsion rod type to suit manufacturer's standards.

2. Latch and Keeper: Recessed latch unit, designed for emergency access, with combination rubber-faced door strike and keeper.
 - a. Latch and Keeper (Handicapped): Recessed latch unit with oversized handle similar to Accurate ADA "Paddle" handle, designed for handicapped accessibility and emergency access, with combination rubber-faced door strike and keeper.
3. Coat Hook: Manufacturer's standard unit, combination hook and rubber-tipped bumper, sized to prevent door hitting mounted accessories.
4. Door Pull: Manufacturer's standard unit for out-swinging doors. Provide pulls on both faces of handicapped compartment doors.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. **General:** Comply with manufacturer's recommended procedures and installation sequence. Install compartment units rigid, straight, plumb, and level. Provide clearances of not more than ½ inch between pilasters and panels, and not more than 1 inch between panels and walls. Secure panels to walls with not less than two stirrup brackets attached near top and bottom of panel. Locate wall brackets so that holes for wall anchorages occur in masonry or tile joints. Secure panels to pilasters with not less than two stirrup brackets located to align with stirrup brackets at wall. Secure panels in position with manufacturer's recommended anchoring devices.
- B. **Overhead-Braced Compartments:** Secure pilasters to floor and level, plumb, and tighten installation with devices furnished. Secure overhead brace to each pilaster with not less than two fasteners. Hang doors and adjust so that tops of doors are parallel with overhead brace when doors are in closed position.
- C. **Screens:** Attach with anchoring devices as recommended by manufacturer to suit supporting structure. Set units to provide support and to resist lateral impact.

3.2 ADJUST AND CLEAN

- A. **Hardware Adjustment:** Adjust and lubricate hardware 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 (and entrance swing doors) to return to fully closed position.
- B. **Cleaning:** Clean exposed surfaces of partition systems using materials and methods recommended by manufacturer, and provide protection as necessary to prevent damage during remainder of construction period.

3.3 COMPLETION

- A. **Workmanship:** Compartments shall be securely attached, straight, level and plumb. Surfaces shall be clean, uniform, and undamaged, with plastic laminate fully adhered and without telegraphing. Hardware and fittings shall be complete and rigidly attached. Fasteners shall be snug and free of burred and damaged heads. Remove markings used for locating and installing compartments.

- B. **Repairs and Replacements:** Remove and replace with new material damaged and defective items. Repair, or remove and replace, other work, which is damaged as a result of toilet partition work.

END OF SECTION