

SECTION 10150  
TOILET COMPARTMENTS

GENERAL

1.1 SECTION INCLUDES

- A. Solid surface material toilet compartments.
- B. Solid surface material veneered toilet compartments.
- C. Solid high density polyethylene toilet compartments.
- D. Solid phenolic core plastic laminate veneered toilet compartments.
- E. High pressure plastic laminate toilet compartments.
- F. Melamine surfaced panel toilet compartments.
- G. Baked enamel steel toilet compartments.
- H. Stainless steel 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; 1998.
- B. ASTM A 167 - Standard Specification for Stainless and Heat Resisting Chromium-Nickel Steel Plate, Sheet, and Strip; 1999.
- C. ASTM A 591 - Standard Specification for Steel Sheet, Electrolytic Zinc-Coated, for Light Coating Weight (Mass) Applications; 1998.
- D. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2001.
- E. NEMA LD 3 - High Pressure Decorative Laminates; 2000.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product data for materials, fabrication, and installation including catalog cuts of anchors, hardware, fastenings, and accessories.
- 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. Samples of full color range for each required unit type. Submit Ampco's standard color selector.

#### 1.5 QUALITY ASSURANCE

- A. Field Measurements: Take field measurements prior to component fabrication to ensure proper fitting of work.
- B. Coordination: Furnish inserts and anchorages that must be built into other work for installation of toilet compartments and related items.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.

### PRODUCTS

#### 1.7 MANUFACTURERS

- A. Acceptable Manufacturer:
  1. Ampco Florida, Miami, Florida, 33054. (305) 821-5700.
  2. Ampco Southwest, Sanger, Texas, 76266. (940) 458-7401.
  3. Ampco Northwest, Auburn, Washington 98001. (253) 852-5900.
  4. Ampco Tennessee, Morristown, Tennessee 37814. (423) 586-3993.
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

#### 1.8 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: Headrail 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), 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).
- C. Toilet Compartments: Headrail 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), 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 between panels, pilasters, and doors.
  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), minimum.
  3. Doors and Panels:
    - a. Top at 60 inches (1524 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: 60 inches (1524 mm).
- E. Toilet Compartments: Ceiling hung.
1. Ceiling Height: 96 inches (2440 mm).
  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), minimum.
  4. Doors and Panels:
    - a. Top at 60 inches (1524 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).
  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), minimum.
  4. Doors and Panels:
    - a. Top at 60 inches (1524 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 54 inches (1372 mm) and bottom at 12 inches (305 mm) above finished floor.

#### 1.9 SOLID SURFACING MATERIAL PANEL COMPONENTS

- A. Doors, Panels, and Pilasters: Polyester and/or acrylic non-porous solid surfacing material with aluminum trihydrate filler, impervious to water, moisture, and heat; matte finish; joints tightly bonded minimizing visible seams; edges polished, chamfered and free of milling marks.
  1. Acceptable Panel Products: Formica Surell; Wilsonart Gibraltar; L.G. Decorative Surfaces; or Avonite Formstone.
  2. Material: Flame spread index of 25, maximum; smoke developed index of 450, maximum; when tested in accordance with ASTM E 84 (Class A).
  3. Color: To be selected from manufacturer's standard colors.
  4. Color: \_\_\_\_\_.
  5. Thickness: 3/4 inch (19 mm).
  6. Thickness: 1/2 inch (12 mm).
- B. Hardware - Standard:
  1. Brackets: Type 304 stainless steel with Number 4 satin finish hardware.
  2. Hinges: Heavy duty cast stainless steel, Type 304 with Number 4 finish; three per door.
    - a. Top Hinge: Opposing nylon gravity-acting cam allowing door to be set in various positions.
    - b. Bottom Hinge: Free swinging.
    - c. Emergency access feature for outside access.
  3. Latch and Keeper: Type 304 stainless steel with Number 4 finish; slide latch with combination stop and emergency release feature.
  4. Coat Hook: Type 304 stainless steel with Number 4 finish; combination hook and bumper on inswinging doors.
  5. Door Pull: Type 304 cast stainless steel with Number 4 finish.
  6. Exposed Fasteners: Chrome plated brass or stainless steel.
- C. Hardware - Euroline:
  1. Material: Stainless steel.
  2. Material: Powder coated aluminum.
  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.

#### 1.10 SOLID SURFACING MATERIAL VENEERED PANEL COMPONENTS

- A. Doors, Panels, and Pilasters: 1/8 inch (3 mm) thick mineral filled, cast acrylic sheet bonded with polyvinyl adhesive to 45 pcf (720 kg/cu m) density particleboard core; matte finish; joints tightly bonded minimizing visible seams; edges polished, chamfered and free of milling marks.
  1. Veneer: Flame spread index of 26, maximum; smoke developed index of 450, maximum; when tested in accordance with ASTM E 84 (Class B).
  2. Color: To be selected from manufacturer's standard colors.
  3. Color: \_\_\_\_\_.

4. Panel Edges: 1/8 inch (3.17 mm) thick solid surface veneer bonded to two part epoxy resin compound matching color to face and edge material.
5. Panel Edges: 1/8 inch (3.17 mm) thick solid surface veneer with matching color PVC bonded with a thermo-setting adhesive.
6. Door and Panel Thickness: 1 inch (25 mm).
7. Pilaster Thickness: 1-1/4 inch (32 mm).

B. Hardware - Standard:

1. Brackets: Type 304 stainless steel with Number 4 satin finish hardware.
2. Hinges: Cutout insert type heavy duty cast stainless steel hinges, Type 304 with Number 4 finish; two per door.
  - a. Top Hinge: Opposing nylon gravity-acting cam allowing door to be set in various positions.
  - b. Bottom Hinge: Free swinging.
  - c. Emergency access feature for outside access.
3. Hinges: Stainless steel cast surface mounted hinges; two per door.
  - a. Top Hinge: Opposing nylon gravity-acting cam allowing door to be set in various positions.
  - b. Bottom Hinge: Free swinging.
  - c. Emergency access feature for outside access.
4. Hinges: Continuous spring loaded stainless steel hinges.
5. Latch and Keeper: Type 304 stainless steel with Number 4 finish; slide latch with combination stop and emergency release feature.
6. Coat Hook: Type 304 stainless steel with Number 4 finish; combination hook and bumper on inswinging doors.
7. Door Pull: Type 304 cast stainless steel with Number 4 finish.
8. Exposed Fasteners: Chrome plated brass or stainless steel.

C. Hardware - Euroline:

1. Material: Stainless steel.
2. Material: Powder coated aluminum.
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.

### 1.11 SOLID POLYETHYLENE PANEL COMPONENTS

A. Doors, Panels, and Pilasters: High density polyethylene solid plastic; polymer resin construction; water and graffiti resistant; each panel one-piece construction without seams; seamless piece; edges free of milling marks.

1. Color: To be selected from manufacturer's standard colors.
2. Color: \_\_\_\_\_.
3. Doors, Panels Thickness: 1 inch (25 mm).
4. Height: 55 inches (1473 mm) net.

B. Hardware: Mounted with theft resistant thru-bolts.

1. Brackets: Satin anodized Type 6463-T5 aluminum hardware.
2. Hinges: Heavy duty extruded satin anodized Type 6463-T5 aluminum; two per door, except three for door widths exceeding 26 inches (660 mm); wrap around pilaster and door components, reinforced with steel supports, and fully adjustable for door positioning.

3. Latch and Keeper: Heavy duty extruded satin anodized Type 6463-T5 aluminum slide latch and keeper with emergency release.
4. Coat Hook: Cast chrome plated non-ferrous metal; combination hook and bumper for inswinging doors.
5. Door Pull: Heavy duty cast satin anodized aluminum.
6. Exposed Fasteners: Chrome plated brass or stainless steel.

#### 1.12 SOLID PHENOLIC CORE PANEL COMPONENTS

- A. Doors, Panels, and Pilasters: Solid phenolic core with one piece melamine sheets bonded to phenolic resin impregnated Kraft sheets; exposed edge components polished black, chamfered and free of milling marks.
  1. Veneer and Core: Flame spread index of 26, maximum; smoke developed index of 450, maximum; when tested in accordance with ASTM E 84 (Class B).
  2. Color: To be selected from manufacturer's standard colors.
  3. Color: \_\_\_\_\_.
  4. Edges: Polished black.
  5. Thickness: Doors and Pilasters, 3/4 inch (19 mm); Panels, 1/2 inch (13 mm); minimum.
  6. Thickness: 1/2 inch (13 mm), finished.
- B. Hardware - Standard:
  1. Brackets: Type 304 stainless steel with Number 4 satin finish hardware.
  2. Hinges: Heavy duty cast stainless steel, Type 304 with Number 4 finish; two per door.
    - a. Top Hinge: Opposing nylon gravity-acting cam allowing door to be set in various positions.
    - b. Bottom Hinge: Free swinging.
    - c. Emergency access feature for outside access.
  3. Latch and Keeper: Type 304 stainless steel with Number 4 finish; slide latch with combination stop and emergency release feature.
  4. Coat Hook: Type 304 stainless steel with Number 4 finish; combination hook and bumper on inswinging doors.
  5. Door Pull: Type 304 cast stainless steel with Number 4 finish.
  6. Exposed Fasteners: Chrome plated brass or stainless steel.
- C. Hardware - Euroline:
  1. Material: Stainless steel.
  2. Material: Powder coated aluminum.
  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.

#### 1.13 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. Color: To be selected from manufacturer's standard colors.
  2. Color: \_\_\_\_\_.
  3. Edges: Laminate, applied before face laminate and bonded with thermo-setting resin glue under continuous heat and pressure.

4. Edges: Stainless steel, applied before face laminate and bonded with thermo-setting resin glue under continuous heat and pressure.
  5. Edges: Laminate, applied after faces with thermosetting adhesive.
  6. Thickness: Doors and panels 7/8 inch (22 mm); pilasters 1-1/4 inches (32 mm).
  7. Thickness: 7/8 inch (22 mm) nominal.
- B. Hardware - 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.
- C. Hardware - Euroline:
1. Material: Stainless steel.
  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.

#### 1.14 MELAMINE PANEL COMPONENTS

- A. Doors, Panels, and Pilasters: One-piece melamine resin impregnated paper thermally fused to industrial grade particleboard or medium density fiberboard core.
1. Color: To be selected from manufacturer's standard colors.
  2. Color: \_\_\_\_\_.
  3. Edges: PVC with color matching face.
  4. Door and Panel Thickness: 3/4 inch (19 mm).
  5. Pilaster Thickness: 1-1/4 inches (32 mm).
- B. Hardware:
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: Cast chrome plated non-ferrous; combination hook and bumper on inswinging doors.
  5. Door Pull: Cast chrome plated non-ferrous metal.

#### 1.15 BAKED ENAMEL PANEL COMPONENTS

- A. Doors, Panels, and Pilasters: Baked enamel steel sheets, complying with ASTM A 591 Class C; galvanized, bonderized, and electrostatically applied powder coat paint finish; bonded to kraft honeycomb core, impregnated with sound-deadening resin; edges with continuous rolled-formed interlocking strip; corners welded and ground smooth, mechanical corner fastenings not acceptable.
1. Color: To be selected from manufacturer's standard colors.
  2. Color: \_\_\_\_\_.
  3. Door and Panel Thickness: 1 inch (25 mm).
  4. Pilaster Thickness: 1-1/4 inches (32 mm).

- B. Hardware:
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: Cast chrome plated non-ferrous; combination hook and bumper on inswinging doors.
  5. Door Pull: Cast chrome plated non-ferrous metal.

#### 1.16 STAINLESS STEEL PANEL COMPONENTS

- A. Doors, Panels, and Pilasters: Stainless steel sheets complying with ASTM A 167 Type 304, bonded to kraft honeycomb core, impregnated with sound-deadening resin; edges with continuous rolled-formed interlocking strip; corners welded and ground smooth, mechanical corner fastenings not acceptable.
1. Finish: Number 4 Satin (brushed).
  2. Stainless Steel Sheet Thickness:
    - a. Doors and Panels: 20 gage (0.9 mm), minimum.
    - b. Pilasters: 20 gage (0.9 mm), minimum (headrail braced, floor to ceiling).
    - c. Pilasters: 18 gage (1.2 mm), minimum (floor mounted, ceiling hung).
  3. Door and Panel Thickness: 1 inch (25 mm).
  4. Pilaster Thickness: 1-1/4 inches (32 mm).
- B. Hardware:
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: Cast chrome plated non-ferrous; combination hook and bumper on inswinging doors.
  5. Door Pull: Cast chrome plated non-ferrous metal.

#### 1.17 ACCESSORY MATERIALS

- A. Pilaster Shoes, and Caps: 20 gage (0.9 mm) thick ASTM A 167, Type 304 stainless steel; not less than 3 inches (76 mm) high; Number 4 satin (brushed) finish.
- B. Overhead Bracing: Continuous extruded aluminum, anti-grip profile, with clear satin anodized finish, with returns and anchors.
- C. Anchorages and Fasteners: Manufacturer's standard chromium-plated exposed fasteners finished to match hardware with theft-resistant type heads (one-way).
1. Concealed Steel Fasteners: Zinc-plated, rust-resistant, protective coating.
  2. Overhead Braced: Galvanized steel supports and leveling bolts at pilasters to suit floor conditions as recommended by manufacturer; provisions for setting and securing overhead bracing at top of each pilaster; pilaster shoe to conceal supports and leveling mechanism.
  3. Overhead Braced - Euroline: Adjustable pedestal with ground clearance of 5-1/5 to 6-11/16 inches (140 to 170 mm); provisions for setting and securing overhead bracing at top of each pilaster.
  4. Floor Mounted: Galvanized steel anchorage devices with threaded rod, lock washers, and leveling adjustment nuts at pilasters to permit structural connection at floor; pilaster shoe to conceal supports and leveling mechanism.
  5. Ceiling Hung: Galvanized steel anchorage devices with threaded rod, lock washers, and leveling adjustment nuts at pilaster connection for structural support above

finished ceiling; devices designed to support pilasters from structure without transmitting load to finished ceiling; pilaster shoe to conceal anchorages.

6. Floor to Ceiling: Galvanized steel supports and/or threaded rod, lock washers, and leveling adjustment nuts at pilasters as required; pilaster shoe to conceal anchorages.

## EXECUTION

### 1.18 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 (13 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 stile to floor.
  2. Secure overhead brace to each stile 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 stile 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 stiles to supporting structure.
  2. Hang doors and adjust door so door bottoms are level with bottoms of stiles 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 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.

#### 1.19 PROTECTION

- A. Clean exposed surfaces of compartment systems using materials and methods recommended by manufacturer, and provide protection for installed products as necessary until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION