

TECHNICAL SPECIFICATIONS, SECTION 10155-TOILET COMPARTMENTS PART I – GENERAL

1.1 RELATED DOCUMENTS

A. **Drawings and General Provisions of Contract**, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. **This section includes manufactured toilet compartments.**

B. **Types of toilet compartments include:**

Solid Phenolic Core

C. **Construction styles of toilet compartments include:**

1. Overhead Braced (XLFH)
2. Floor Mounted (XLF)
3. Ceiling Hung (CHF)
4. Floor to Ceiling Supported (XLFC)

D. **Construction styles of entrance and urinal screens include:**

1. Floor Supported (FX)
2. Wall Hung (WH)

1.3 SUBMITTALS

- A. **General:** Submit the following in accordance with Conditions of Contract and Division 1 Specification sections.
- B. **Product data** for materials, fabrication, and installation including catalog cuts of anchors, hardware, fastenings, and accessories.
- C. **Shop drawings** for fabrication and installation of compartment assemblies that are not fully described by architectural drawings. 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 Tex-Lam's standard color selections.

1.4 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.

PART 2 – PRODUCTS

2.1 MANUFACTURERS:

Subject to compliance with requirements, provide products by:

- A. **Tex-Lam Manufacturing, Inc.**, Houston, Texas 77091 (713) 695-5975.

2.2 MATERIALS

- A. **General:** Provide material that has been selected for surface flatness and smoothness. Exposed surfaces that exhibit seam marks, roller marks, discoloration, telegraphing of core, or other imperfections on finished units are not acceptable.
- B. **Select from the following:**
1. **Solid Phenolic Core:**
Tex-Lam's Solid Phenolic Core High Pressure Decorative Laminate with textured finished surfaces shall have a minimum Class B fire rating. All edges shall be polished black. Pilasters have a 1-inch or ¾-inch thickness, panels ½-inch, and doors ¾-inch.

- C. **Pilaster shoes:** Shall be 18 gage Type 304 stainless steel, not less than 5-inch high, Number 4 Satin (brushed) finished.
- D. **Brackets:** Tex-Lam's standard design for attaching panels to walls, pilasters to walls, and panels to pilasters of the following material:
 - 1. Solid Phenolic shall be Type 304 stainless steel with Number 4 Satin finish hardware.
- E. **Overhead Bracing:** Continuous extruded aluminum, anti-grip profile, with clear commercial anodized finish. Head rail returns as shown on shop drawings.
- F. **Anchorage and Fasteners:** Standard chromium-plated or stainless steel exposed fasteners are finished to match hardware. All concealed steel fasteners shall have a zinc-plated, rust-resistant, coating. Exposed fasteners for Solid Phenolic Core shall be stainless steel.

1.3 FABRICATION

- A. **General:** Furnish standard doors, panels, screens and pilasters fabricated for compartment system. Furnish units with cutouts as required to receive accessories as indicated.
- B. **Door Dimensions:** Unless otherwise indicated, furnish 24-inch wide in-swing doors for ordinary toilet compartments and minimum 34-inch wide out-swing doors for compartments that meet the requirements of the Americans with Disabilities Act (ADA).
- C. **Restroom Compartments, Entrance and Urinal Screens:**
 - 1. **Solid Phenolic Core:** Solid Phenolic Core Panels are composed of melamine-impregnated decorative surface papers superimposed over a varying number of kraft phenolic core sheets to achieve a desired thickness. Phenolic Core Fire Resistance Characteristics per ASTM E84. Standard product has Class "B" rating. Flame Spread Index of 35/Smoke 100.
- D. **Construction Types of Toilet Compartments, Entrance Screens and Urinal Screens:**
 - 1. **Overhead Braced (XLFH):** Furnish aluminum supports and leveling bolts at pilasters to suit floor conditions. Make provisions for setting and securing overhead bracing at the top of each pilaster. Provide 5-inch height shoe at each pilaster to conceal supports and leveling mechanism.
 - 2. **Floor Mounted (XLF):** Furnish aluminum anchorage devices complete with threaded rod and leveling adjustment nuts at pilasters to permit structural connection at floor. Provide 5-inch height shoe at each pilaster.
 - 3. **Ceiling Hung (CHF):** Furnish aluminum anchorage devices complete with threaded rods and leveling adjustment nuts at pilaster connection for structural support above finished ceiling. Furnish devices that are designed to support pilasters from structure without transmitting load to finished ceiling. Provide 5-inch height shoe at each pilaster to conceal anchorages.
 - 4. **Floor to Ceiling (XLFC):** Furnish aluminum supports and/or threaded rod and leveling adjustment nuts at pilasters as required. Provide 5-inch height shoes at each pilaster to conceal anchorages.
- E. **Hardware:** Furnish hardware to comply with ANSI A117.1 and Title III of the Americans with Disabilities Act (ADA) as follows:
 - a. **Hinges:** Supply minimum stainless steel piano hinge Type 304 with Number 4 finish for Solid Phenolic. Emergency access is available for outside access.
 - b. **Latch and Keeper:** Type 304 stainless steel with Number 4 finish. Latching device shall consist of a slide latch with combination stop and emergency release feature.
 - c. **Coat Hook:** Type 304 stainless steel with Number 4 finish coat hook and/or combination coat hook and door bumper.
 - d. **Door Pull:** Type 304 cast stainless steel with a Number 4 finish.

PART 3 – EXECUTION

1.1 INSTALLATION

- A. **General:** Comply with manufacturer's recommended procedures and installation sequence. Install compartment units rigid, straight, plumb and level. Provide clearance 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 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 brackets located to align with brackets at wall. Secure panels in position with manufacturer's recommended anchoring devices.
- B. **Overhead Braced Compartments (XLFH):** Secure pilaster to floor and level, plumb and tighten installation with devices furnished. Secure overhead brace to each pilaster with fasteners supplied. Hang doors and adjust so that tops of doors are parallel with overhead brace when doors are in a closed position.
- C. **Floor Mounted Compartments (XLF):** Set pilaster units with anchorages having not less than 2-inch penetration into structural floor. Level, plumb and tighten installation with devices furnished. Hang doors and adjust so that tops of doors are level with tops of pilasters when doors are in closed position.
- D. **Ceiling Hung Compartments (CHF):** Secure pilasters to supporting structure and level, plumb and tighten installation with devices furnished. Hang doors and adjust so door bottoms are level with bottoms of pilasters when in a closed position.
- E. **Floor to Ceiling Compartments (XLFC):** Secure divider panels to built-in anchorage devices using concealed fasteners. Level, plumb and tighten installation with devices furnished. Hang doors and adjust so that bottoms of doors are 12-inch off floor when doors are in a closed position.
- F. **Screens:** Attach with anchoring devices as recommended by manufacturer to suit supporting structure. Set unit to provide support and to resist lateral impact.

1.2 ADJUST AND CLEAN

- A. **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 to return to a 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.