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For more information, contact Partition Systems International of South Carolina®, 825 Garland St., Columbia, SC 29201; Phone: (866) 337-7286; Fax: (866) 337-7291; Website: www.psisc.com; Email: Spec@psisc.com.

For information about MasterSpec, contact Avitru at (800) 424-5080 or visit avitru.com.com.

SECTION 102113.17 - PHENOLIC-CORE TOILET COMPARTMENTS

TIPS:

To view non-printing **Editor's Notes** that provide guidance for editing, click on MasterWorks/Single-File Formatting/Toggle/Editor's Notes.

To read **detailed research, technical information about products and materials, and coordination checklists**, click on MasterWorks/Supporting Information.

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:

1. Phenolic-core toilet compartments configured as **[toilet enclosures]** **[entrance screens]** **[and]** **[urinal screens]**.

- B. Related Requirements:

1. Section 055000 "Metal Fabrications" for supports that attach [**ceiling-hung compartments**] [**floor-and-ceiling-anchored compartments**] [**and**] [**post-to-ceiling screens**] to overhead structural system.
2. [**Section 061000 "Rough Carpentry"**] [**Section 061053 "Miscellaneous Rough Carpentry"**] for [**blocking**] [**overhead support of floor-and-ceiling-anchored compartments**] [**and**] [**overhead support of post-to-ceiling screens**].
3. Section 102800 "Toilet, Bath, and Laundry Accessories" for toilet tissue dispensers, grab bars, purse shelves, and similar accessories mounted on toilet compartments.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for toilet compartments.
- B. Sustainable Design Submittals:
 1. Product Data: For recycled content, indicating postconsumer and preconsumer recycled content and cost.
- C. Shop Drawings: For toilet compartments.
 1. Include plans, elevations, sections, details, and attachment details.
 2. Show locations of cutouts for compartment-mounted toilet accessories.
 3. Show locations of centerlines of toilet fixtures.
 4. Show locations of floor drains.
 5. Show[**ceiling grid, ceiling-mounted items, and**] overhead support or bracing locations.
- D. Samples for Initial Selection: For each type of toilet compartment material indicated.
 1. Include Samples of hardware and accessories involving material and color selection.
- E. Samples for Verification: For the following products, in manufacturer's standard sizes unless otherwise indicated:
 1. Each type of material, color, and finish required for toilet compartments, prepared on **3-inch- (76-mm-)** square Samples of same thickness and material indicated for Work.
 2. Each type of hardware and accessory.
- F. Product Schedule: For toilet compartments, prepared by or under the supervision of supplier, detailing location and selected colors for toilet compartment material.

1.4 INFORMATIONAL SUBMITTALS

- A. Product Certificates: For each type of toilet compartment.

1.5 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For toilet compartments to include in maintenance manuals.

1.6 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
1. Door Hinges: [**One**] <Insert number> hinge(s) with associated fasteners.
 2. Latch and Keeper: [**One**] <Insert number> latch(es) and keeper(s) with associated fasteners.
 3. Door Bumper: [**One**] <Insert number> door bumper(s) with associated fasteners.
 4. Door Pull: [**One**] <Insert number> door pull(s) with associated fasteners.
 5. Fasteners: [**Ten**] <Insert number> fasteners of each size and type.

1.7 PROJECT CONDITIONS

- A. Field Measurements: Verify actual locations of toilet fixtures, walls, columns, ceilings, and other construction contiguous with toilet compartments by field measurements before fabrication.

1.8 WARRANTY

- A. Manufacturer's Warranty: Manufacturer agrees to replace phenolic-core toilet compartment components that fail in materials or workmanship within specified warranty period.
1. Warranty Period: [**Five**] [**10**] [**25**] <Insert number> years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
1. Flame-Spread Index: [**25**] [**75**] [**200**] or less.
 2. Smoke-Developed Index: 450 or less.
- B. Recycled Content: Postconsumer recycled content plus one-half of preconsumer recycled content not less than <Insert value> percent.
- C. Regulatory Requirements: Comply with applicable provisions in [**the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines for**

Buildings and Facilities] [and] [ICC A117.1] for toilet compartments designated as accessible.

2.2 PHENOLIC-CORE TOILET COMPARTMENTS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Partition Systems International of South Carolina®; **[58000 Series Class B Solid Phenolic] [68000 Series Class A Solid Phenolic]** or a comparable product by one of the following:
1. Bobrick Washroom Equipment, Inc.
 2. Bradley Corporation.
 3. Scranton Products.
 4. **<Insert manufacturer's name>**.
- B. Toilet-Enclosure Style: **[Overhead braced] [Floor anchored] [Ceiling hung] [Floor and ceiling anchored]**.
- C. Entrance-Screen Style: **[Overhead braced] [Floor anchored] [Ceiling hung] [Floor and ceiling anchored]**.
- D. Urinal-Screen Style: **[Wall hung] [Floor anchored] [Overhead braced] [Post to ceiling]**.
- E. Door, Panel[, **Screen**], and Pilaster Construction: Solid phenolic-core panel material with melamine facing on both sides fused to substrate during panel manufacture (not separately laminated), and with eased and polished edges[**and no-sightline system**]. Provide minimum **3/4-inch- (19-mm-)** thick doors and pilasters and minimum **1/2-inch- (13-mm-)** thick panels.
- F. Pilaster [**Shoes**] [**and**] [**Sleeves (Caps)**]: Formed from stainless steel sheet, not less than **0.0478-inch (1.21-mm)** nominal thickness and **3 inches (76 mm)** high, finished to match hardware.
- G. Urinal-Screen Post: Manufacturer's standard post design of [**monolithic phenolic urinal screen cutout at bottom to form a post**] [**material matching the thickness and construction of pilasters**] [**or**] [**1-3/4-inch- (44-mm-)** square, aluminum tube with satin finish] **<Insert requirement>**; with shoe[**and sleeve (cap)**] matching that on the pilaster.
- H. Brackets (Fittings):
1. Stirrup Type: Ear or U-brackets, [**clear-anodized aluminum**] [**stainless steel**].
 2. Full-Height (Continuous) Type: Manufacturer's standard design; [**stainless steel**] [**aluminum**].
- I. Phenolic-Panel Finish:
1. Facing Sheet Finish: [**One color and pattern**] [**Two colors and patterns**] in each room.
 2. Color and Pattern: [**As indicated by manufacturer's designations**] [**As selected by Architect from manufacturer's full range**] **<Insert color and pattern>**, with manufacturer's standard [**black core**] [**through-color core matching face sheet**].

3. Edge Color: [**Manufacturer's standard black**] [**Through-color matching facing sheet color**].

2.3 HARDWARE AND ACCESSORIES

A. Hardware and Accessories: Manufacturer's standard operating hardware and accessories.

1. Material: [**Clear-anodized aluminum**] [**Stainless steel**] [**Cast stainless steel**].
2. Hinges: Manufacturer's standard [**paired, 0.0781 inch (2.0 mm), 14-gauge, stainless steel, self-closing type that can be adjusted to hold doors open at any angle up to 90 degrees**] [**continuous, 0.0781 inch (2.0 mm), 14-gauge, stainless steel, cam type that swings to a closed or partially open position**] [**continuous, 0.0781 inch (2.0 mm), 14-gauge, stainless steel, spring-loaded type**] <Insert requirement>, allowing emergency access by lifting door.
3. Latch and Keeper: Manufacturer's standard surface-mounted latch unit designed for emergency access and with combination rubber-faced door strike and keeper. Provide units that comply with regulatory requirements for accessibility at compartments designated as accessible.
4. Coat Hook: Manufacturer's standard combination hook and rubber-tipped bumper, sized to prevent in-swinging door from hitting compartment-mounted accessories.
5. Door Bumper: Manufacturer's standard rubber-tipped bumper at out-swinging doors[**and entrance-screen doors**].
6. Door Pull: Manufacturer's standard unit at out-swinging doors that complies with regulatory requirements for accessibility. Provide units on both sides of doors at compartments designated as accessible.

B. Hardware and Accessories: Manufacturer's heavy-duty operating hardware and accessories.

1. Hinges: Manufacturer's minimum **0.0781-inch- (1.98-mm-)** thick stainless steel [**paired, self-closing type that can be adjusted to hold doors open at any angle up to 90 degrees**] [**continuous, cam type that swings to a closed or partially open position**] [**continuous, spring-loaded type**] <Insert requirement>, allowing emergency access by lifting door. Mount with through-bolts.
2. Latch and Keeper: Manufacturer's heavy-duty surface-mounted cast stainless steel latch unit designed to resist damage due to slamming, with combination rubber-faced door strike and keeper, and with provision for emergency access. Provide units that comply with regulatory requirements for accessibility at compartments designated as accessible. Mount with through-bolts.
3. Coat Hook: Manufacturer's heavy-duty combination cast stainless steel hook and rubber-tipped bumper, sized to prevent in-swinging door from hitting compartment-mounted accessories. Mount with through-bolts.
4. Door Bumper: Manufacturer's heavy-duty rubber-tipped cast stainless steel bumper at out-swinging doors[**and entrance-screen doors**]. Mount with through-bolts.
5. Door Pull: Manufacturer's heavy-duty cast stainless steel pull at out-swinging doors that complies with regulatory requirements for accessibility. Provide units on both sides of doors at compartments designated as accessible. Mount with through-bolts.

C. Overhead Bracing: Manufacturer's standard continuous, extruded-aluminum head rail with antigrip profile and in manufacturer's standard finish.

- D. Anchorages and Fasteners: Manufacturer's standard exposed fasteners of stainless steel, finished to match the items they are securing, with theft-resistant-type heads. Provide sex-type bolts for through-bolt applications. For concealed anchors, use stainless steel, hot-dip galvanized-steel, or other rust-resistant, protective-coated steel compatible with related materials.

2.4 MATERIALS

- A. Aluminum Castings: ASTM B26/B26M.
- B. Aluminum Extrusions: **ASTM B221** (**ASTM B221M**).
- C. Stainless Steel Sheet: ASTM A666, Type 304, stretcher-leveled standard of flatness.
- D. Stainless Steel Castings: ASTM A743/A743M.

2.5 FABRICATION

- A. Fabrication, General: Fabricate toilet compartment components to sizes indicated. Coordinate requirements and provide cutouts for through-partition toilet accessories where required for attachment of toilet accessories.
- B. Overhead-Braced Units: Provide manufacturer's standard corrosion-resistant supports, leveling mechanism, and anchors at pilasters to suit floor conditions. Provide shoes at pilasters to conceal supports and leveling mechanism.
- C. Floor-Anchored Units: Provide manufacturer's standard corrosion-resistant anchoring assemblies with leveling adjustment nuts at pilasters for structural connection to floor. Provide shoes at pilasters to conceal anchorage.
- D. Ceiling-Hung Units: Provide manufacturer's standard cast stainless steel anchoring assemblies with leveling adjustment nuts at pilasters for connection to structural support above finished ceiling. Provide assemblies that support pilasters from structure without transmitting load to finished ceiling. Provide sleeves (caps) at tops of pilasters to conceal anchorage.
- E. Floor-and-Ceiling-Anchored Units: Provide manufacturer's standard cast stainless steel anchoring assemblies with leveling adjustment nuts at tops and bottoms of pilasters. Provide shoes and sleeves (caps) at pilasters to conceal anchorage.
- F. Urinal-Screen Posts: Provide manufacturer's standard corrosion-resistant anchoring assemblies with leveling adjustment nuts at [**tops and**] bottoms of posts. Provide shoes [**and sleeves (caps)**] at posts to conceal anchorage.
- G. Door Size and Swings: Unless otherwise indicated, provide **24-inch- (610-mm-)** wide in-swinging doors for standard toilet compartments and **36-inch- (914-mm-)** wide out-swinging doors with a minimum **32-inch- (813-mm-)** wide clear opening for compartments designated as accessible.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for fastening, support, alignment, operating clearances, and other conditions affecting performance of the Work.
 - 1. Confirm location and adequacy of blocking and supports required for installation.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. General: Comply with manufacturer's written installation instructions. Install units rigid, straight, level, and plumb. Secure units in position with manufacturer's recommended anchoring devices.
 - 1. Maximum Clearances:
 - a. Pilasters and Panels: **1/2 inch (13 mm)**.
 - b. Panels and Walls: **1 inch (25 mm)**.
 - 2. Stirrup Brackets: Secure panels to walls and to pilasters with no fewer than [**two brackets attached**] [**three brackets attached at midpoint and**] near top and bottom of panel.
 - a. Locate wall brackets so holes for wall anchors occur in masonry or tile joints.
 - b. Align brackets at pilasters with brackets at walls.
 - 3. Full-Height (Continuous) Brackets: Secure panels to walls and to pilasters with full-height brackets.
 - a. Locate bracket fasteners so holes for wall anchors occur in masonry or tile joints.
 - b. Align brackets at pilasters with brackets at walls.
- B. Overhead-Braced Units: Secure pilasters to floor and level, plumb, and tighten. Set pilasters with anchors penetrating not less than **1-3/4 inches (44 mm)** into structural floor unless otherwise indicated in manufacturer's written instructions. Secure continuous head rail to each pilaster with no fewer than two fasteners. Hang doors to align tops of doors with tops of panels, and adjust so tops of doors are parallel with overhead brace when doors are in closed position.
- C. Floor-Anchored Units: Set pilasters with anchors penetrating not less than **2 inches (51 mm)** into structural floor unless otherwise indicated in manufacturer's written instructions. Level, plumb, and tighten pilasters. Hang doors and adjust so tops of doors are level with tops of pilasters when doors are in closed position.

- D. Ceiling-Hung Units: Secure pilasters to supporting structure and level, plumb, and tighten. Hang doors and adjust so bottoms of doors are level with bottoms of pilasters when doors are in closed position.
- E. Floor-and-Ceiling-Anchored Units: Secure pilasters to supporting construction and level, plumb, and tighten. Hang doors and adjust so doors are level and aligned with panels when doors are in closed position.
- F. Urinal Screens: Attach with anchoring devices to suit supporting structure. Set units level and plumb, rigid, and secured to resist lateral impact.

3.3 ADJUSTING

- A. Hardware Adjustment: Adjust and lubricate hardware according to hardware manufacturer's written instructions for proper operation. Set hinges on in-swinging doors to hold doors open approximately 30 degrees from closed position when unlatched. Set hinges on out-swinging doors[**and doors in entrance screens**] to return doors to fully closed position.

END OF SECTION 102113.17