

SECTION 10 21 13
DesignRite® Partitions
(Solid Phenolic Partitions)

Part 1 – General

1.01 Summary

Specifier Note: This product guide specification must be reviewed and edited to meet the project requirements, building codes, and to select product options. This section includes DesignRite® solid phenolic partitions and screens as manufactured by Spec-Rite Designs, LLC. Consult with Spec-Rite Designs, Design Engineers for assistance in editing this specification for specific applications.

A. Section includes: Design Rite® Partitions and urinal screens.

Specifier Note: The following section refers to products that match Design Rite Partition's aesthetic and performance characteristics and are typically required for similar applications and environments.

B. Related Sections:

1. Specialties: Division 10 Lockers. Design-Tec® Lockers
2. Specialty Casework: Division 12. DesignLine® Cabinets

1.02 Submittals

- A. Submittals:** Comply with procedures and quantities as specified in Division 1 Submittal Procedure Section.
- B. Shop Drawings:** Submit shop drawings indicating elevations of partitions, thickness of solid phenolic material, fastenings, proposed method of anchoring, size and spacing of anchors, details of construction, hardware, fittings, mountings, and other related items and installation details.
- C. Product Data:** Submit manufacturer's technical data for materials, fabrication, finishing, fastening, hardware, and installation details.
- D. Samples:** Submit samples of edge details, colors, patterns, finishes and textures.

- E. Closeout Documents:** Submit the following:
1. Operation and Maintenance data
 2. Warranty

1.03 Quality Assurance

A. Qualifications:

1. Fabricator shall have 10 years or more experience in fabrication of solid phenolic materials and shall be experienced in performing work of similar size and scope.
 2. Fabricator shall be capable of providing field service representation.
 3. Installer shall be approved by the manufacturer and be experienced in performing work of similar size and.
- B. Pre-installation Meeting:** Conduct pre-installation meeting (2) (_____) weeks prior to installation to verify project requirements and conditions.

1.04 Delivery, Storage and Handling

- A. Ordering:** Comply with supplier's ordering and lead-time guidelines to avoid delays.
- B. Delivery:** Deliver materials in the manufacturer's original protective packaging.
- C. Storage and Handling:** Store materials in an enclosed shelter providing protection from damage, temperature, humidity, and exposure to the elements.

1.05 Coordination and Project Conditions

- A. Field Measurements:** Before material fabrication, verify actual field measurements and show actual measurements on shop drawings.
- B. Coordination:** Coordinate field measurements with fabrication schedule construction progress to avoid construction delays.

1.06 Warranty

- A.** Submit executed copy of Spec-Rite Designs 10-year warranty against defects in material and 2 years against workmanship signed by an authorized representative of Spec-Rite Designs.

Part 2 – Products

2.01 Solid Phenolic Partitions:

A. **Basis of Design:** Drawings and specifications are based on DesignRite® Partitions

B. **Manufacturer and Fabricator:**

Spec-Rite Designs, LLC
1054 Central Industrial Drive
St. Louis, MO 63110 P
Phone: 314-633-4978
Fax: 314-771-4597
Email: info@specritedesigns.com

Specifier Note: Edit the following model descriptions to select the type(s) of partitions and screens.

C. **Model:** (DesignRite Partitions fabricated from solid phenolic composite material).

1. Toilet Partitions:

a. Overhead Braced partitions consisting of solid phenolic pilasters, panels and doors; plated steel leveling devices with stainless steel covers; aluminum overhead bracing, and stainless steel fittings, hardware, and fastenings necessary for complete installation and structural support from the floor as well as additional to the upper pilasters.

b. Floor to Ceiling Anchored partitions consisting of solid phenolic pilasters, panels and doors; plated steel and aluminum leveling devices with stainless steel covers; and stainless steel fittings, hardware, and fastenings necessary for a complete installation and structural support from the floor and ceiling.

c. Ceiling Hung partitions consisting of solid phenolic pilasters, panels and doors; aluminum leveling devices with stainless steel covers; and stainless steel fittings, hardware, and fastenings necessary for complete installation and structural support from the ceiling only.

Spec-Rite Designs has added an exception to the warranty of our ceiling hung DesignRite® Partitions. In order to uphold the integrity of our design, we must clearly state the way in which these partitions should be hung in order to uphold the intended design of the partition, while allowing us to warranty the craftsmanship. Spec-Rite Designs will continue to design and manufacture our line of ceiling hung DesignRite Partitions and our warranty for ceiling hung partitions.

d. Floor Anchored partitions consisting of solid phenolic pilasters, panels and doors; aluminum leveling devices stainless steel covers; and stainless steel fittings, hardware, and fastenings necessary for complete installation and structural support from the floor only.

2. Urinal Screens

a. Wall Supported urinal screens consisting of solid phenolic screen panels, stainless steel fittings, and fastenings necessary for a complete installation supported from the wall only.

b. Standard Floor Anchored urinal screens consisting of solid phenolic pilasters and screen panels; plated steel leveling devices with stainless steel covers; stainless steel fittings, and fastenings necessary for a complete installation supported from the floor and wall.

c. Floor Post to Ceiling urinal screens consisting of solid phenolic screen panels, square aluminum pilaster, stainless steel fittings, and fastenings necessary for a complete installation supported from the floor, ceiling, and wall.

d. Designer Floor Anchored urinal screens consisting of solid phenolic screen panels with integral leg (no pilaster); aluminum leveling devices with stainless steel covers; stainless steel fittings, and fastenings for a complete installation supported from the floor and wall.

2.02 Materials

A. Panel Material:

1. Decorative papers impregnated with phenolic resin on the faces with a clear protective melamine overcoat and integrally compression molded with a core consisting of phenolic impregnated kraft papers.

Specifier Note: Panel Material is available in Class B or Class A fire rating (ASTM E84). Select from either option. Class A is available made to order at extended lead time.

2. Panel material shall meet fire resistance per ASTM E84 [Class B] [Class A].
3. Colors:
 - a. Core: Black
 - b. Core: Brown

Specifier Note: Doors, panels, and pilasters are available in quick ship color collection or extended lead time color collection. A quick ship color collection range is available in shorter lead time. Consult with manufacturer to avoid construction delays.

B. Panels and Screens:

1. **Material:** ½" (13mm) thick solid phenolic composite material
2. **Corners:** Rounded
3. **Edges:** Crescent profile; machine polished and free from tooling imperfections.

C. Doors and Pilasters:

Specifier Note: Doors and pilasters are available in two thicknesses. Material ¾" thick is standard; ½" thick material is a cost effective option without sacrificing performance.

1. **Material:** [¾" (19mm)] [½" (13mm)] thick solid phenolic composite material.
2. **Corners:** Rounded
3. **Edges:** Crescent profile; machine polished and free from tooling imperfections.

D. Stainless Steel: ASTM A167, TYPE 304.

E. Concealed Fasteners and Leveling Devices: Chrome plated zinc, galvanized, cadmium-coated steel or aluminum.

- F. Overhead Bracing:** Clear anodized aluminum, anti-grip profile.
- G. Brackets and Hinges:** Type 304 Stainless steel.
- H. Latch and Keeper:** Type 304, surface mounted latch unit designed for physical disability accessibility with combination rubber-faced door strike and keeper.
- I. Coat Hook:** Type 304 stainless steel hook not to exceed projection of 1-1/4”.
- J. Door pull:** Type 304 stainless steel.
- K. Door stop:** Type 304 stainless steel with rubber-tipped bumper.
- L. Fasteners:** Type 18/8 stainless steel, tamper resistant.
- M. Hinge Type:**

Specifier Notes: Select from the following hinge types.

1. Standard Hinge: Heavy duty, surface or pivot mounted, type 304 cast stainless steel, self-closing type.

2. Piano Hinge: Surface mounted, brushed No. 4 stainless steel, piano hinge featuring self-closing stainless steel springs with lifting feature for emergency access.

- O. Bracket Type:**

Specifier Notes: Select from the following bracket types.

1. Standard Brackets: Provide two (2) or three (3) U-brackets for attaching each panel to pilaster and two (2) double-eared brackets for attaching panels and urinal screens to the wall.

3. Optional Brackets: Provide a continuous U-shaped bracket for attaching each panel to pilaster and continuous bracket for attaching panels and urinal screens to the wall. Angles and brackets shall not be lighter than 18-gauge stainless steel.

2.03 Fabrication

A. Panels and Urinal Screens:

1. Height and width: As indicated in shop drawings.
2. Corners: Rounded.
3. Edges: Crescent profile; machine polished and free from tooling imperfections.

B. Pilasters and Doors:

1. Door Dimensions: Unless otherwise indicated, furnish 24” wide in-swing doors for standard toilet partitions; 36” wide opening out-swing doors when located at the end or when located at the side, and for partitions equipped for use by the physically disabled.

2. Pilaster Dimensions: Pilaster width shall be a minimum of 3” and a maximum of 24” and shall be calculated from field dimensions and indicated on the shop drawings.

3. Panel Dimensions: Panel dimensions shall be calculated from field dimensions and indicated on the shop drawings.

4. Exposed Corners: Rounded.

5. Edges: Crescent profile; machine polished and free from tooling imperfections.

Part 3-Execution

3.01 Examination

- A. Before covering wall and ceiling framing with finish materials, examine framing to ensure that backing plates and structural framing have been installed in such position as to receive all attachment screws.
- B. Verify spacing of plumbing fixtures to ensure compatibility with installation of partitions
- C. Do not start the work of this section until all deficiencies have been corrected.

3.02 Installation

- A. **General:** Install toilet partitions and urinal screens as shown on the shop drawings and in accordance with the manufacturer's specifications and printed installation instructions. Install toilet compartments and doors in a rigid and substantial manner, straight and plumb, with horizontal lines level.
- B. **Pilasters:** Secure pilasters to supporting members. Level, plumb, and tighten the anchorage devices for a complete installation.
- C. **Panels and Urinal Screens:** Secure panels and doors to pilasters so that exterior faces are flush. Provide clearances of not more than 1/2 inch between pilasters and panels, and 1 inch between panels and walls. Secure panels and urinal screens to walls with wall brackets. At light gauged steel-framed walls, fasten brackets with toggle or molly bolts into metal studs or backing plates fastened directly to the studs. At wood framed walls, fasten brackets with wood screws into wood studs or blocking fastened directly to the studs. At concrete or masonry walls, fasten brackets with screws and expansion anchors.

3.03 Adjusting and Cleaning

- A. **Hardware Adjustment:** After installation, carefully adjust hardware for proper operation. Set hinges on in-swing doors to hold open approximately 30 degrees from the closed position when unlatched (institutional hinges to be fully closed). Set hinges on out-swing doors to return to the fully closed position. Adjust pilasters so that bottoms of doors are level in the closed position.
- B. **Cleaning:** Clean partitions and doors upon completion and leave free from imperfections.

End of Section