

SECTION 10171**SOLID PHENOLIC COMPARTMENTS**

******* General Partitions manufacturers the following products from solid phenolic plastic panels:**

Toilet compartments:

Series 30 - Floor Supported

Series 40 - Floor Supported with Headrail

Series 50 - Ceiling Hung

Series 60 - Floor to Ceiling

Urinal screens:

WHS-6 - Wall Hung

WHF-6 - Wall Hung Flange

FBS-6 - Floor Braced Screen

FSH-6 - Floor Supported with Headrail

Floor to Ceiling

Privacy screens:

FBS-6 - Floor Braced Screen

FSH-6 - Floor Supported with Headrail

Floor to Ceiling

Shower cabinets:

Standard

Neo-corner

Handicapped

Shower and dressing compartments

This guide specification section can be used to specify all of the above solid phenolic products. The specifier will need to select the appropriate products and delete non-applicable models and options. Test in brackets denotes choices to be made. Refer to General Partitions product literature for hardware, colors, sizes, and other available options. If only solid phenolic shower compartments are being specified, the section title should be changed to SECTION 10171 - SOLID PHENOLIC SHOWER COMPARTMENTS.

General Partitions also manufacturers toilet compartments in four other materials. For these products use one of the following product specifications:

SECTION 10161 - STEEL TOILET COMPARTMENTS**SECTION 10162 - STAINLESS STEEL TOILET COMPARTMENTS****SECTION 10165 - PLASTIC LAMINATE TOILET COMPARTMENTS****SECTION 10172 - HIGH DENSITY POLYMER TOILET COMPARTMENTS**

PART 1 - GENERAL**1.1 SUMMARY**

A. Section includes: Solid phenolic [toilet compartments,] [urinal screens,] [privacy screens] [shower cabinets,] [and] [shower and dressing compartments] including required fittings, hardware, and accessories.

B. Related sections:

******* List other specification sections dealing with work directly related to this section such as the following. *******

1. Section 05500 - Metal Fabrications: Structural support system for ceiling hung toilet compartments.
2. Section 09255 - Gypsum Board Systems: Blocking in metal stud partitions for wall anchorage of toilet compartments.
3. Section 10810 - Toilet Accessories: Accessories mounted on toilet compartments.
4. Section 15400 - Plumbing Fixtures and Equipment: Shower head, valves, and plumbing for shower cabinets.

1.2 REFERENCES

****** List by number and full title reference standards referred to in remainder of specification section. Delete non-applicable references. ******

- A. Americans with Disabilities (ADA) Standards for Accessible Design.
- B. ANSI A117.1 - American National Standard for Buildings and Facilities - Providing Accessibility and Usability for Physically Handicapped People.
- C. ASTM A167 - Stainless and Heat Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
- D. ASTM E84 - Surface Burning Characteristics of Building Materials.

E. UFAS - Uniform Federal Accessibility Standards.

1.3 SUBMITTALS

A. Provide in accordance with Section 01330 - Submittal Procedures:

1. Product data for compartments, panels, finishes, hardware, and accessories.
2. Shop drawings showing partition plans, elevations, dimensions, door swings, details for supports, and method of anchorage.
3. Samples of manufacturer's finishes [for selection by Architect].
4. Installation instructions.
5. Maintenance instructions.
6. Copy of warranty required by Paragraph 1.5 for review by Architect.

1.4 QUALITY ASSURANCE

******* Barrier free requirements will depend on type of project and local jurisdiction. Edit and include the following paragraph if toilet and shower compartments need to accommodate persons with physical handicaps. *******

- A. Products and installation shall comply with [ADA Standards] [ANSI A117.1] [UFAS] [_____].

1.5 WARRANTY

- A. In accordance with Section 01770 - Closeout Procedures provide 10 years warranty to covers panels, doors, and pilasters against breakage, delamination, and corrosion.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. General Partitions Manufacturing Corporation, P. O. Box 8370, Erie, Pennsylvania; 814-833-1154.
- B. Manufacturers of equivalent products submitted and approved in accordance with Section 01630 - Product Substitution Procedures.

2.2 TYPE[S]

******* Select types and models of toilet compartment being specified and desired attributes from the following options. *******

- A. Toilet compartments: [Panels supported by pilasters anchored to floor; Series 30 - Floor Supported] [Panels supported by pilasters anchored to floor and braced overhead with headrail; Series 40 - Floor Supported with Headrail] [Panels supported by ceiling hung pilasters; Series 50 - Ceiling Hung] [Panels supported by pilasters anchored to floor and extending to ceiling; Series 60 - Floor to Ceiling] [Extra height panels mounted [3 inches] [76 mm] supported by pilasters anchored to floor [and braced overhead with headrail]; as manufactured by General Partitions Manufacturing Corporation.

***** **Screens can be placed between urinals or used to block view at toilet room entrance. Model FBS-6 - Floor Braced Screen, Model FSH-6 - Floor Supported with Headrail, and Floor to Ceiling Model are recommended for privacy screens at locations other than between urinals.** *****

- B. [Urinal] [and] [privacy] screens: [Screens hung from wall with brackets; Model WHS-6 - Wall Hung] [Screens hung from wall with continuous aluminum channel; Model WHF-6] [Screens attached to wall and braced by pilasters anchored to floor; Model FBS-6 - Floor Braced Screen] [Screens supported by pilasters anchored to floor and braced overhead with headrail; Model FSH-6 - Floor Supported with Headrail] [Screens supported by pilasters anchored to floor and extending to ceiling - Floor to Ceiling Model] as manufactured by General Partitions Manufacturing Corporation.

***** **General Partitions' Shower Cabinets can be installed as single units or as multiple units. Cabinets are provided with precast terrazzo receptors in three designs: Rectangular shape with a curb at opening, Standard Design; triangular shape for corner installation with a curb at opening, Neo-corner; and rectangular shape with a ramped design to accommodate persons with physical handicaps, Handicapped.** *****

- C. Shower cabinets: [Single] [Multiple] [three sided rectangular] [two sided triangular] cabinet[s] with precast terrazzo receptor[s] [designed to accommodate persons with physical handicaps]; Series [Standard] [Neo-corner] [Handicapped] Shower Cabinet as manufactured by General Partitions Manufacturing Corporation.

***** **Different configurations and sizes of shower and dressing compartments can be provided by General Partitions. Compartments can be combination shower and dressing configuration or designed only as a dressing compartment or a shower stall. Typically partitions are supported by pilasters anchored to floor and braced overhead with headrails. Options include shower curtains, doors, and seats. Contact General Partitions for assistance in design of shower and dressing compartments and selection of options.**

- D. [Combination] [shower] [and] [dressing] compartments: Formed from partitions supported by pilasters anchored to floor and braced overhead with headrails to configuration and sizes indicated on Drawings and provided with [shower curtain] [swinging doors] [shower seats] [_____]; [Shower] [and] [Dressing] Compartments

as manufactured by General Partitions Manufacturing Corporation.

2.3 PANELS

A. Material: Solid phenolic core made of multiple layers of phenolic resin impregnated kraft paper compressed under heat and pressure. Face with high pressure melamine sheet fusion welded to surface of core.

1. Resistant to delamination, water, steam, corrosion, soaps, detergents, and mildew.
2. Edges: Black solid phenolic resin, radiused and polished.
3. Fire hazard: Class B in accordance with ASTM E84 with 35 maximum flame spread and 100 maximum smoke development.

B. Minimum thickness:

1. Panels: [1/2 inch] [13 mm].
2. Doors: [3/4 inch] [19 mm].

***** Pilasters for Series 40 and Series 60 are 3/4 inch (19 mm) thick with 1 inch (25 mm) as an optional thickness. Series 30 and Series 50 are only available with 1 inch (25 mm) thickness. *****

3. Pilasters: [[3/4] [1] inch] [[19] [25] mm].

***** Include the following paragraph for Series 30 - Floor Supported and Model FBS-6 - Floor Supported Urinal Screen. *****

C. Equip bottom end of pilasters with [1/2 inch] [13 mm] thick steel bar anchored to solid phenolic core with threaded anchors, set pins, and metal spacers. Bar to accept two threaded steel studs and leveling nuts used for anchoring pilaster to floor.

***** Include the following paragraph for Series 50 - Ceiling Hung. *****

D. Equip top end of pilasters with [1/2 inch] [13 mm] thick steel bar anchored to high density polymer core with threaded anchors, set pins, and metal spacers. Bar to accept two threaded steel studs and leveling nuts used for suspending pilaster from ceiling support.

***** General Partitions provides standard panel sizes and custom designs. Contact General Partitions for availability and assistance in planning custom sizes and configurations.

It is often convenient to indicate panel sizes in Specifications rather than dimension

components on Drawings. Otherwise, dimensions can be shown on Drawings. However, in order to avoid potential conflicts do not list sizes in both Drawings and Specifications.

E. Sizes: [As indicated on Drawings.]

***** **General Partitions provides standard panel widths to construct toilet compartments 48, 54, 57, 60, 61-1/4, 66, 72, and 78 inches (1219, 1372, 1448, 1556, 1676, 1829, 1981 mm) deep. Standard panel height is 58 inches (1473 mm).**

General Partitions also provides Eastern Style toilet compartments in Series 30, Series 40, and Series 60. Panel height for Eastern Style toilet compartments is 67 inches (1702 mm). The panels are mounted 3 inches (76 mm) above floor providing greater privacy. Eastern Style toilet compartments are designed for use where standard height water closets are not installed. *****

1. Toilet compartment panel: [Width to suit compartment depth shown on Drawings] [[48] [54] [57] [60] [61-1/4] [66] [72] [78] [_____] inches wide] [[1219] [1372] [1448] [1556] [1676] [1829] [1981] [_____] mm wide] by [[58] [67] [_____] inches] [[1473] [1702] mm] high.

***** **Door height for Eastern Style toilet compartments is 67 inches (1702 mm). All other toilet compartment doors are 58 inches (1473 mm) high and standard width is 24 inches (610 mm). A 32 inches (813 mm) clear door opening and outswinging door is required for use by persons with physical handicaps. *******

2. Inswinging door: [24 inches] [610 mm] [_____] wide by [[58] [67] inches] [[1473] [1702] mm] high.
3. Outswinging door for use by persons with physical handicaps: Width to provide [32 inches] [813 mm] clear opening by [[58] [67] inches] [[1473] [1702] mm] high.

***** **Standard widths for urinal screens are 18 and 24 inches (457 and 610 mm). Standard height for WHS-6 and WHF-6 urinal screens is 42 inches (1067 mm) and for FBS-6, FSH-6, and Floor to Ceiling urinal screens is 58 inches (1473 mm). *******

4. Urinal screens: [[18] [24] [_____] inches] [[457] [610] mm] wide by [[42] [58] [_____] inches] [[1067] [1473] [_____] mm] high.

***** **Width of privacy screens at locations other than between urinals will vary with condition. Typical heights for privacy screens are 58 and 70 inches (1473 and 1778 mm). *******

5. Privacy screens: [[_____] inches] [[_____] mm] wide by [[58] [70] [_____] inches] [[1473] [1778] mm] high.

******* Panels for shower and dressing compartments will vary according to configuration and design. Typical heights are 58 and 70 inches (1473 and 1778 mm). *******

6. Shower and dressing compartment panels: [_____] inches wide by [[58] [70] [_____] inches] [[1473] [1778] mm] high.

******* Pilaster widths vary with compartment and door sizes. Minimum width for Series 30 and Series 50 is 8 inches (203 mm). Standard pilaster height for Series 30 and FBS-6 is 70 inches (1778 mm) and for Series 40, and Shower and Dressing Compartments is 82 inches (2083 mm). For Series 50, Series 60, and Floor to Ceiling urinal and privacy screens pilaster height will vary with ceiling height. *******

7. Pilaster: [Width to suit compartment size] [[_____] [inches] [mm] wide] by [[70] [82] [_____] inches] [1778] [2083] [_____] [mm] high.] [by height extending from floor to ceiling.]

******* Standard sizes for Standard Shower Cabinets are 32 inches (813 mm) wide by 32 inches (813 mm) deep by 82 inches (2083 mm) high and 36 inches (914 mm) wide by 36 inches (914) deep by 82 inches (2083 mm) high. Neo-corner Shower Cabinets are triangular in plan. Standard sizes is a right triangles with two sides at 40 inches (1016 mm) by 82 inches (2083 mm) high. Standard sizes for Handicapped Shower Compartments are 40 inches (1016 mm) wide by 40 inches (1016 mm) deep by 82 inches (2083 mm) high and 40 inches (1016 mm) wide by 48 inches (1219 mm) deep by 82 inches (2083) deep. *******

8. Shower cabinets: [32 inches wide by 32 inches deep by 82 inches high] [813 mm wide by 813 mm deep by 2083 mm high] [36 inches wide by 36 inches deep by 82 inches high] [914 mm wide by 914 mm deep by 2083 mm high] [Right triangle with two sides at 40 inches by 82 inches high] [Right triangle with two sides at 1016 mm by 2083 mm high] [40 inches wide by 40 inches deep by 82 inches high] [1016 mm wide by 1016 mm deep by 2083 mm high] [40 inches wide by 48 inches deep by 82 inches high] [1016 mm wide by 1219 mm deep by 2083 mm deep].

2.4 FITTINGS

******* Headrails are required for Series 40 toilet compartments, FSH-6 urinal screens and Shower and Dressing Compartments. If these products are not being used, delete the following paragraph.**

- A. Headrail: Extruded aluminum channel with anti-grip shape, designed to fit over top of pilasters, [1-7/8 by 1-25/32 inches] [48 by 45 mm].

******* Include the following for Shower Cabinets. *******

- B. Shower cabinet hardware: Provide extruded aluminum top cap and continuous corner connection fitting for field assembly of cabinets.

- C. Attachment hardware: Chrome plated, one-way vandal proof sex bolts and No. 14 stainless steel metal screws of length recommended by manufacturer.
- D. Connection brackets: Non-ferrous cast alloy, chrome plated.
- E. Pilaster trim: Minimum [3 inches high 0.031 inch thick] [76 mm by 0.76 mm thick] stainless steel shoe.

2.5 HARDWARE

******* Refer to General Partitions product literature for descriptions, illustrations, and selection guidelines for hardware items. Delete non-applicable hardware items.**

Standard hinges are pivot type. For heavy duty conditions, three types of full length hinges are available options. *****

- A. Hinges: [[8 inches] [203 mm] high extruded aluminum wrap around pivot hinges with nylon cams and adjustable for door closing position.] [Geared aluminum full length hinges.] [Stainless steel full length hinges.] [Spring loaded aluminum full length hinge.]

******* Two types of door bumper are provided by General Partitions. Select appropriate type. *******

- B. [Combination coat hook and rubber bumper] [Rubber tipped door bumper]: Cast alloy, chrome plated.
- C. Latch: Surface mounted, extruded aluminum slide latch that does not require twisting or turning of wrist to operate.
- D. Combination latch keeper and door stop with rubber bumper: Extruded aluminum.
- E. Door pull: Cast alloy, chrome plated, straight loop design.

2.6 ACCESSORIES

******* The following accessories are available for Shower Cabinets and Shower and Dressing Compartments. Receptors and curtain rods are standard accessories for Shower Cabinets. Shower curtains, curtain tracks, seats, clothes hooks, and soap dishes are optional accessories and will not be provided unless specified. Delete non-applicable items. *******

- A. Shower receptor:

******* Receptors are available as Standard Design; a triangular design for corner installation, Neo-corner; or with a ramped design, Handicapped, to accommodate persons with physical handicaps. *******

1. Type: Precast terrazzo, black and white color with [triangular design for corner installation] [ramped front to accommodate persons with physical handicaps,] brass drain, and stainless steel strainer; [Standard] [Neo-corner] [Handicapped] as manufactured by General Partitions Manufacturing Corporation.

***** **Standard** receptors are available in sizes 32 by 32 inches (813 by 813 mm) and 36 by 36 inches (914 by 914 mm). **Neo-corner** as a right triangle with two 40 inches (1016 mm) sides. **Handicapped** receptors are available in sizes 40 by 40 inches (1016 by 1016 mm) and 40 by 48 inches (1016 by 1219 mm).

2. Size: [32 inches wide by 32 inches deep] [813 mm wide by 813 mm deep] [914 mm wide by 914 mm deep] [Right triangle with two sides at 40 inches] [Right triangle with two sides at 1017 mm] [40 inches wide by 40 inches deep] [1016 mm wide by 1016 mm deep] [40 inches wide by 48 inches deep] [1016 mm wide by 1219 mm deep].

***** **Two types of shower curtain are provided as an optional accessory.** *****

- B. [Shower] [Dressing compartment] curtain: [Close weave, white duck fabric] [Heavy duty, translucent vinyl curtain] with grommets and hooks.

***** **Shower cabinets can be provided with curtain rods.** *****

- C. Provide shower cabinets with stainless steel round curtain rod.

***** **Shower and dressing compartments can be equipped with curtain track in headrail.** *****

- D. Provide extruded aluminum track in headrail of [shower] [and] [dressing] compartment. Provide with carriers for suspension of curtain.
- E. [Shower] [Dressing compartment] seat: [[1-1/4 inch] [32 mm] maple with urethane finish] [High density polymer], [1/4 inch] [6 mm] radiused edges, [10 inches] [254 mm] wide by length of compartment as indicated on Drawings.] [size and shape as indicated on Drawings.] Provide with brackets and supports.
- F. Clothes hooks: Double prong, non-ferrous cast alloy, chrome plated.
- G. Soap dish: Stainless steel.

2.7 FACTORY FINISHING

***** **General Partitions provides many standard melamine surface finish colors for solid phenolic toilet compartments. Contact General Partitions for standard colors and additional optional colors. Special request colors will increase delivery time. Single or multiple colors can be used. For multiple colors, specifier will need to list color for each**

component such as pilasters, doors, and urinal screens. *****

- A. Color: [[_____] as provided by General Partitions Manufacturing Corporation.]
[[Single color] [Maximum of [_____] colors] selected by Architect from
manufacturer's [standard] [full] range.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Coordinate requirements for blocking in stud walls to ensure proper support is provided for wall attachments.

******* Include the following paragraph for Series 50 - Ceiling Hung and Series 60 - Floor to Ceiling toilet compartments. *******

- B. Coordinate requirements for structural support members and bracing above ceiling for adequate [suspension of ceiling hung toilet compartments] [attachment of floor to ceiling pilaster].
- C. Coordinate requirements for piping, drains, and plumbing rough-ins for adequate installation of shower cabinets. Factory prepare shower panels to receive plumbing fittings.
- D. Verify that site conditions are ready to receive work and opening dimensions are as indicated on shop drawings.
- E. Verify correct spacing of plumbing fixtures.

3.2 INSTALLATION

- A. Install partitions [and shower cabinets] secure, plumb, and level in accordance with manufacturer's instructions.
- B. Maintain [3/8 to 1 inch] [10 to 25 mm] uniform space between wall and panels and between wall and end pilasters.
- C. Attach panel brackets securely to walls using anchor devices recommended by manufacturer.
- D. Attach panels and pilasters to brackets with sheet metal screws.

******* Include the following paragraph for Series 30 - Floor Supported and Model FBS-6 - Floor Braced Urinal Screen. *******

- E. Anchor pilaster to floor with two [3/8 inch] [10 mm] threaded steel studs and leveling nuts and washers. Adjust pilaster support to compensate for floor variations.

Conceal floor fastenings with pilaster shoes.

******* Include the following two paragraphs for Series 40 - Floor Supported with Headrail, Model FSH-6 - Floor Supported Urinal Screen with Headrail, and Shower and Dressing Compartments with Headrail. *******

F. Brace pilasters with overhead rail. Locate headrail joints at pilaster center lines.

G. Anchor pilaster to floor with heavy duty galvanized stainless steel angle plate, sheet metal screws, and anchors. Conceal floor fastenings with pilaster shoes.

******* Include the following paragraph for Series 50 - Ceiling Hung toilet compartments. *******

H. Suspend pilasters from auxiliary structural framing directly above finished ceiling. Attach with two [3/8 inch] [10 mm] threaded studs [5 inches] [127 mm] long. Use leveling nuts and washers to adjust position of pilaster. Conceal ceiling attachment with pilaster shoes.

******* Include the following paragraph for Series 60 - Floor to Ceiling toilet compartments. *******

I. Anchor pilaster to floor and to ceiling support with stainless steel angle plate, sheet metal screws, and anchors. Conceal floor and ceiling fastenings with pilaster shoes.

******* Include the following paragraph for Model WHF-6 - Wall Hung Flange Urinal Screen. *******

J. Anchor urinal screen panels to walls with continuous aluminum channel.

******* Include the following paragraph for toilet compartments or if shower and dressing compartments are equipped with doors. *******

K. Door installation: Hang doors from pilasters. Equip each door with [two pivot hinges,] [full length continuous hinge,] door latch, door strike and keeper, and [coat hook and bumper] [door bumper]. Install door pull on outswinging doors.

******* Include the following paragraph for Shower Cabinets. *******

L. Shower cabinets: Assemble with extruded aluminum corner connection fittings and top cap. Ensure that joints between panels, receptors, floor, and adjacent walls are properly sealed to prevent water leakage. Seal pipe and fastener penetrations through panels to prevent moisture migration into panel core.

3.3 ERECTION TOLERANCES

A. Maximum variation from true position: [1/4 inch] [6 mm].

- B. Maximum variation from plumb: [1/8 inch] [3 mm].

3.4 ADJUSTING

- A. Replace significantly damaged, deeply scratched, or broken panels.
- B. Adjust hinges to locate inswinging doors in partial open position and outswinging doors in closed position when unlatched.
- C. Adjust and align hardware to uniform clearance at vertical edge of doors.

3.5 CLEANING

- A. Clean surfaces with liquid spray furniture or counter top polish. Do not use abrasives.

END OF SECTION