

This is the most popular style of partitions. It is attached to the floor and stabilized at the top of the pilaster with anti-grip headrail. Floor-mounted overhead-braced material is recommended for heavy traffic or vandalism-prone areas. It does not require any special floor or ceiling construction which makes it suitable for new or existing construction.

Construction

Doors consist of two sheet metal faces insulated with a moisture-resistant honeycomb core that is adhered to the inner surface and set under pressure to cure. Manufactured from 300 Series stainless steel with a #4 satin brushed finish. Panels and pilasters are manufactured from natural granite.

Permaseal™ Edge

Mills is the only manufacturer to offer the Permaseal Edge. Edges are formed to interlock together to provide a watertight fit without crown molding and the corners are brazed and finished smooth. This technique prevents moisture penetration and allows Mills to offer a 15-year rust-out warranty. All panels, doors and pilasters are fabricated using this technique.

Panels

Pre-drilled panels are 1 3/16" (3cm) thick, constructed from natural granite.

Doors

Doors are 1" thick, constructed from 22 gauge stainless steel. Each door includes internal 16 and 14 gauge welded reinforcements at the top and bottom hinge locations with a factory installed concealed true gravity cam. The closing position of each hinge is fully adjustable. A pre-punched hole permits field installation of the ADA-compliant concealed slide latch.

Pilasters

Pre-drilled pilasters are 1 3/16" (3cm) thick, constructed from natural granite. The floor edge of the pilaster shall be provided with 12 gauge mounting brackets (attached in the field with thru bolts provided) that will accept a 3/8" zinc-plated jack bolt for leveling.

Hardware

Mills standard hardware is constructed from stainless steel. Compartments are provided with all hardware and stainless steel fasteners to complete installation for applications with concrete floors and masonry block walls.

Door Hardware

Wraparound hinges are thru-bolted to the pilasters and the concealed slide latch includes an emergency egress feature. The slide latch does not require a twisting motion and complies with all Federal ADA guidelines. The strike/keeper is wraparound. Doors 32" wide or less are provided with a combination coat hook/bumper. Doors 34" wide or 36" wide are provided with an individual coat hook, door bumper and door pull. Theft-resistant fasteners are supplied with all hardware.

Brackets

U-brackets and undrilled "L" brackets are provided with torx-head fasteners.

Headrail

Etched and anodized aluminum headrail is extruded with an anti-grip profile. It clamps over the pilaster and is secured at the wall with stainless steel brackets.

Shoes

Shoes are 4" high 300 Series stainless steel with #4 satin brushed finish and are secured by clear silicone caulk (provided by others).



Standard Selections

Door

- 5WL
- LTH (Leather Grain)
- Satin

Granite Colors

- Golden Garnet
- New Spring Green
- Luna Pearl
- Tropical Brown

Optional Selections

Hinges

- Stainless Steel Wraparound Gravity Hinge (STD)

Door Hardware

- Stainless Steel Concealed Slide Latch and Keeper (STD)

Brackets

- Continuous Stainless Steel Brackets (STD)

Verify all rough-in dimensions prior to installation.

Consult local and national codes. Conformity and compliance to local and national codes is the responsibility of the installer.

Sample Specification

Part 1 – General

1.1 Summary

This section includes:

- A. Fusion toilet partitions, hardware and structural accessories.

1.2 Related Sections

- A. Section 10800: Toilet and Bath Accessories

1.3 Submittals

- A. Shop drawings: Layout of toilet partitions.
- B. Product data: Manufacturer's catalog cuts of typical panel, pilaster, door, hardware and fastening.
- C. Finishes: Stainless steel, 300 Series, with #4 satin brushed finish doors. Natural granite pilasters and panels.

1.4 Quality Assurance

- A. Components of toilet partitions shall be sourced from one single-source manufacturer who certifies that materials meet or exceed specifications.
- B. Installation: Installer shall have a history of completed jobs of similar size and scope, and shall be qualified.

1.5 Delivery, Storage and Handling

- A. Pre-finished materials shall be delivered to the job site in original, unopened cartons or other packaging materials necessary to protect finishes. Materials shall be stored in manufacturer's packaging until installation. Partitions shall be stored in horizontal position with adequate support to ensure flatness and to prevent damage to pre-finished surfaces.

1.6 Project Conditions

- A. Building shall be enclosed and provide complete protection from outside weather. Temperature within building shall be above a minimum of 60°F.

1.7 Warranty

- A. Manufacturer shall provide a 15-year warranty against rusting of doors from the inside.
- B. Manufacturer shall provide a 15-year warranty for all granite components.
- C. Manufacturer shall provide a lifetime warranty for stainless steel hardware.

Part 2 – Products

2.1 Manufacturer

- A. Provide products manufactured by The Mills Company, subsidiary of Bradley Corp., Menomonee Falls, WI.

2.2 Equipment

- A. Sentinel Floor Mounted Overhead-Braced Series 400 toilet partition system.

2.3 Components

- A. Permaseal edges shall be formed as a two-piece unit to interlock together to provide a watertight fit. Corners are to be brazed and finished smooth. Permaseal components shall not utilize crown molding.
 - 1. Permaseal Doors: 1" thick doors shall be manufactured from 22 gauge stainless steel, spaced and insulated with a moisture-resistant honeycomb core, adhered to the inner surfaces and set under pressure to cure. 16 and 14 gauge welded reinforcements shall be provided at top and bottom hinges. Concealed molybdenum cam to be factory installed. Door top to be drilled to receive top hinge pin providing three-point anchor. Slide latch holes to be pre-punched to permit field installation of concealed ADA-compliant slide latch.
- B. Granite Pilasters: 1 $\frac{3}{16}$ " (3cm) thick pilasters shall be manufactured from natural granite. The floor edge of the pilaster shall be provided with 12 gauge

mounting brackets (attached in the field with thru bolts provided) that will accept a $\frac{3}{8}$ " zinc-plated jack bolt for leveling.

- C. Granite Panels: 1 $\frac{3}{16}$ " (3cm) thick panels shall be manufactured from natural granite.
 - D. Headrail of etched and anodized aluminum shall be extruded with "anti-grip" profile clamps over pilasters and shall be secured to the wall with stainless steel brackets.
 - E. 4" high one-piece shoe of 300 Series stainless steel shall be secured by clear silicone (provided by others).
 - F. Hardware: Mills stainless steel hardware and fasteners necessary to complete an installation shall be provided.
 - 1. Hinges shall be wraparound and thru-bolted to the pilasters and shall have true gravity cams concealed within the door. The closing position of each hinge shall be fully adjustable.
 - 2. Concealed slide latch shall provide emergency egress, shall not require any twisting motion and shall be ADA compliant.
 - 3. Strike and keeper to be provided as wraparound.
 - 4. Coat hook and wall bumper shall be provided for in-swing doors. Door pulls shall be added for outswing doors.
 - 5. U-brackets and undrilled "L" brackets shall be provided at appropriate locations.
 - 6. Fastener for hinges, slide latch and keeper shall be stainless steel with theft-resistant heads.
 - 7. Fastener for brackets shall be stainless steel with torx-heads.
- #### 2.4 Finishes
- A. Stainless steel doors shall be covered with self-adhesive coating for protection from scratches during installation.

Part 3 – Execution

3.1 Inspection

- A. Before installation, the installer shall inspect the site to ensure that no defects or conditions exist which would result in an unsatisfactory installation of the partitions. Measurements should also be taken at this time to further ensure correct installation.

3.2 Installation

- A. Install partitions, screens, dressing compartments and enclosures in accordance with shop drawings and manufacturer's current installation instructions. Leave partitions complete, clean and free from defects in workmanship. Self-adhesive protective plastic shall be removed from all stainless steel material.
- B. Doors and hardware shall be thoroughly adjusted and left in proper working condition. Set doors in open or closed position as required.
- C. Outswing doors of more than 105° must have a wall or panel to stop door travel. (Note: Failure to follow manufacturer's recommended installation procedures voids warranty.)

3.3 Cleaning

- A. All rubbish and cartons generated by installer shall be removed and area left broom clean.

Verify all rough-in dimensions prior to installation.

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