

Sentinel Series 400 - Overhead Braced

1 Inspection

The components for this project have been custom fabricated. They are guaranteed with respect to manufacture and workmanship and were inspected at the factory. Before beginning work, the units should be inspected. If damage occurred in transit, report immediately to the freight company or other agencies that may have caused the damage.

2 Layout

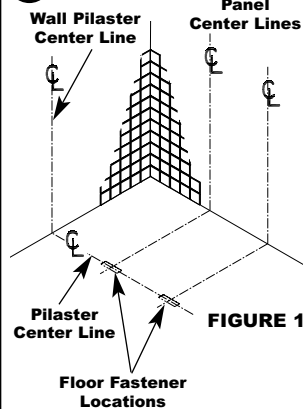


FIGURE 1

- Review the shop drawings and packing lists that have accompanied this job.
- Before proceeding, confirm that backing of walls and floor is adequate to support secure mounting of the toilet compartment units.
- Establish and mark pilaster center line from back wall.
- Establish and mark panel center lines for wall brackets.
- Establish pilaster floor fastener locations from side wall according to shop drawings.
- Mark wall for bracket holes using single or double ear brackets as templates.

3 Wall Brackets & Floor Brackets

- Drill holes for wall brackets and floor fasteners of appropriate size for the fasteners supplied.
- Insert anchoring devices in walls and secure wall brackets.
- Insert expansion shields or other floor fasteners and position 3/8" threaded rods, each secured with a flat washer and anchor nut at floor level. See figure 5.

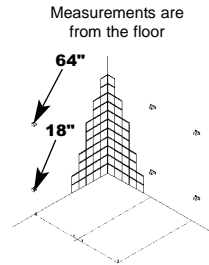


FIGURE 2

4 Position Panel

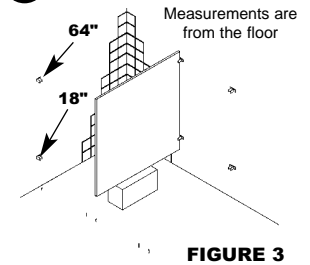


FIGURE 3

- Place panel on a support, 12" above the floor.
- Set it into wall brackets, but do not fasten panel at this time.

5 Pilaster Preparation

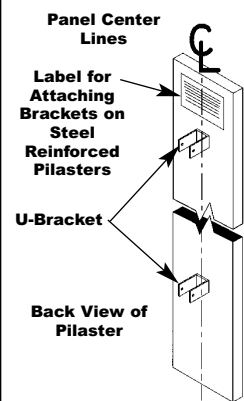


FIGURE 4

- Align U-brackets in position on rear of pilasters. Refer to layout drawings.
- Fasten U-brackets to pilasters with sheet metal screws.
- Pilasters at wall do not require U-brackets, but should be prepared for wall (or floor fastening) as required by compartment layout. If floor fastening is omitted, three wall brackets should be used.

6 Install Pilasters

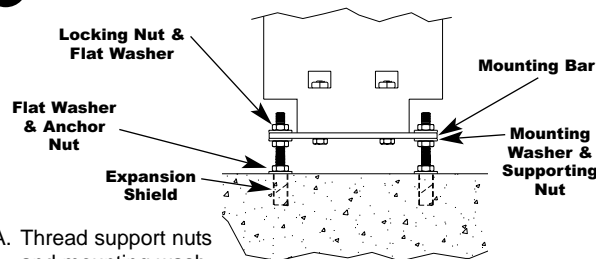


FIGURE 5

- Thread support nuts and mounting washers over threaded rods to support pilaster mounting bar.
- Position pilaster and mounting bar on threaded rods, and attach lightly with flat washer and locking nut.

Note: For pilasters against a wall attach one shoe end to the pilaster before assembly into the wall brackets.

7 Securing Pilasters

Pilasters must be both plumb and level. To assist in leveling, headrail may be lightly positioned across adjacent pilasters.

- Plumb pilaster and fasten pilaster to panel using through-bolts with barrel nuts.
- Establish bottom door opening by setting pilaster mountings to desired position.

8 Headrail & Panel Fastening

- Level the pilasters from one compartment to the next by adjusting the support nuts on the threading rods. See figure 5.
- Tighten #14 x 5/8" screws on top of pilaster mounting bars.
- Establish top door opening by drilling holes through rear of headrail into pilasters, and secure with screws.
- Fasten panel to wall brackets using #14 x 5/8" sheet metal screws.
- Remove panel support device.
- To ensure rigidity, install headrail between end pilaster and wall by securing U-brackets above end panel to inner surface of headrail and on the opposing wall surface.

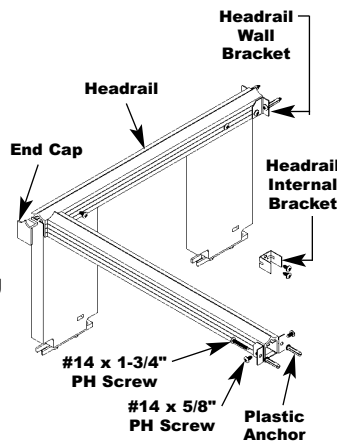


FIGURE 6

9 Door Assembly for Hanging

The door hinge assembly consists of separate door and pilaster hardware. Identical assemblies are provided for the top and bottom hinge.

- Insert a top nylon cam into the upper and lower door hinge closure bracket as illustrated so that cam base is flush with inner bracket surface. See figure 7.
- Insert each door hinge closure bracket (with top cam in place) into the upper and lower openings in the door, anchoring with #10 x 1" screw. See figure 7.
- Insert bottom nylon cam into the pilaster portion of the hinge bracket assembly. See figure 7.

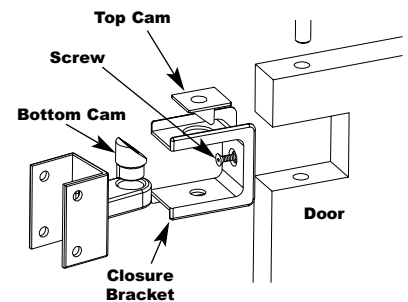


FIGURE 7

Sentinel Series 400 - Overhead Braced continued

10 Hinge Assembly

- A. The cam should be set to same desired position on upper and lower hinge assemblies. See figure 8.
- B. Connect the pilaster portions to the door portions of hinges by inserting the hinge pin through the top and bottom of the door until the pin is flush with the door edge. See figure 9.
- C. With hinges in place, position door so that upper portion of hinge bracket is on pilaster at desired height. Insert a tamper proof through-bolt.
- D. Insert the balance of the through-bolts and barrel nuts and complete installation by securely fastening.

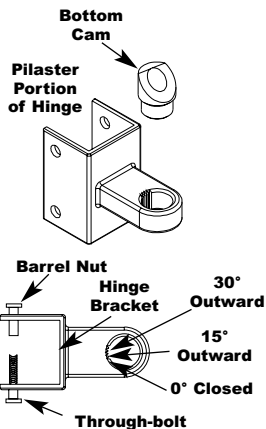


FIGURE 8

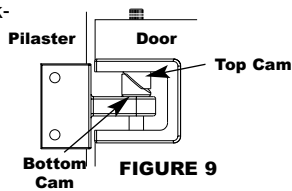


FIGURE 9

11 Slide Latch Assembly

Install slide latch on door opposite the hinge side of door. All slide latches should be mounted at midpoint of the door.

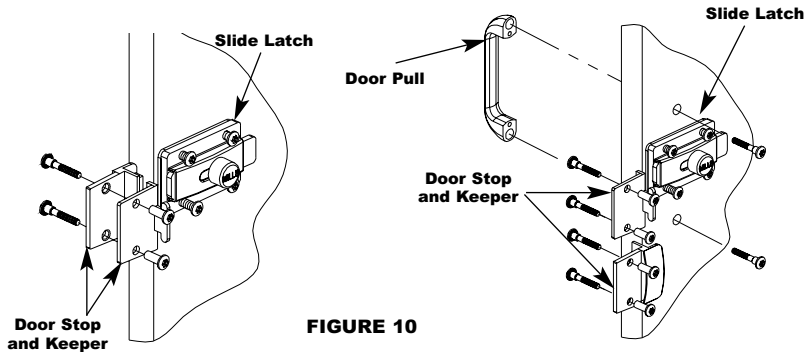


FIGURE 10

Inswing Doors

Mount the slide latch with plastic slide latch spacer (if req.) on to the door with four #10 x 1" one way sheet metal screws. Install keeper on the inside, and the bumper on the outside, with two (2) 1/4 - 20 x 1-1/4" step bolts and two (2) 1/4 - 20 x 3/8" barrel nuts. Be sure that the keeper is set so that the slide latch bar is only 1/4" (.250) below the top edge of the keeper.

Outswing Doors

Mount the slide latch with plastic slide latch spacer (if required) on the inside with four #10 x 1" one way sheet metal screws. Mount the bumper and keeper on the inside. Use (4) 1/4 - 20 x 1-1/4" step bolts at the front holes, and use (4) 1/4 - 20 x 3/8" barrel nuts for the back holes. Be sure that the keeper is set so that the slide latch bar is only 1/4" (.250) below the top edge of the keeper. Mount door pull using (2) 1/4 - 20 x 1-1/4" step bolts from the back holes.

Emergency Access

Lift door causing latch bolt to clear keeper and open.

12 Miscellaneous Hardware

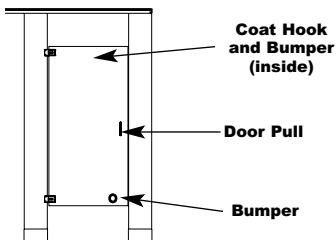


FIGURE 11

- A. Install coat hooks with rubber tips for inswing doors, inside center of door appr. 4" down from top. (Use coat hooks w/out rubber tips for outswing doors.)
- B. For ADA compartments mount door hook, center of door, 48" to 52" off of finished floor. (recommended only)
- C. Install door bumper for outswing doors on the outside of the door, lower corner opposite the hinge side or on adjacent wall.

13 Installation Pilaster Shoes

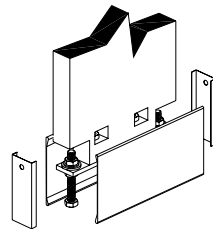


FIGURE 12

Note: Insertion of the screws can be facilitated by pre-drilling with a 7/32 dia. drill.

- Obtain appropriate length shoe faces and insert a shoe end to the pair of faces making a three sided box.
- Position this box around the pilaster.
- Slide remaining shoe end into the open side of the shoe faces.
- Attach shoe faces to pilaster using #14 x 3/4" tamper resistant screws.

14 Care & Maintenance of Toilet Partitions

In order to provide toilet partitions with the proper care and maintenance, the following instructions must be followed.

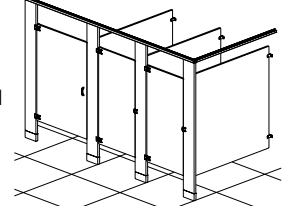


FIGURE 13

- All surfaces must be kept clean with water and a mild soap solution only. The finish must be wiped dry following cleaning.
- In high humidity areas, the rooms must be properly ventilated.
- Hosing down or wet washing of these units may cause water absorption and damage.
- For maximum protection periodic application of any standard furniture wax will be beneficial.

WARNING

Under no circumstances should these components be subjected to:

- Abrasive powders or pads - Water closet cleansers - Ceramic tile cleansers
- Solutions containing more than 1% by volume of ammonia
- Solutions containing acids or lye - Solutions containing enzymes

Attention to work progress during new construction or renovation is important. Other trades and cleaning services may use agents for ceramics and tiles that will damage these components.