

Assembly Instructions ■

Unite® Panel System

Hinge Door

November 2024

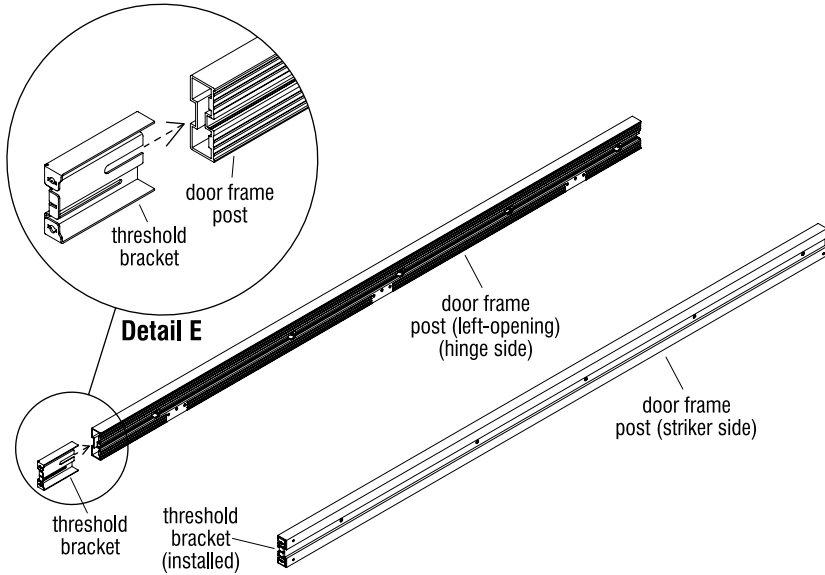
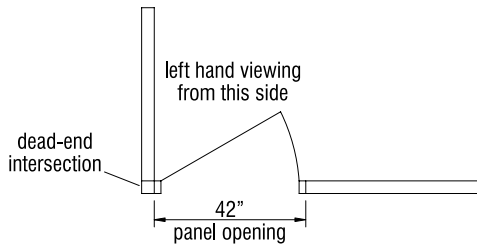
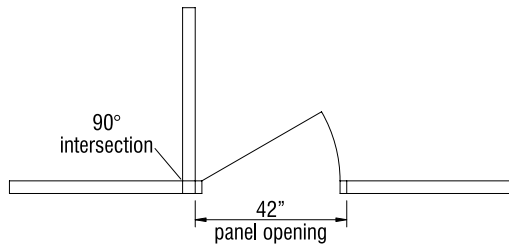


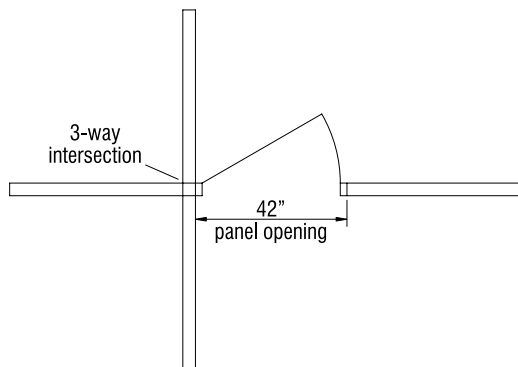
Figure 1



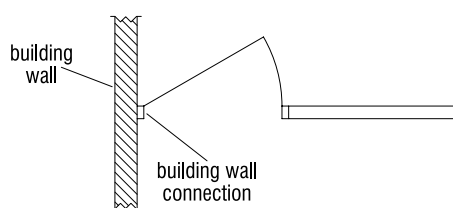
Detail A - Dead-End Configuration
(requires preconfigured 2-Way 90°, "L" Corner Intersection)



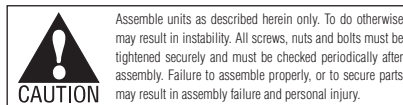
Detail B - 90° Configuration
(requires preconfigured 2-Way 180°, In-Line Intersection)



Detail C - 3-Way Configuration
(requires preconfigured 3-Way 90°, "T" Corner Intersection)



Detail D - Building Wall Configuration



Hinge Door Overview

The hinge door is only available in 42" width. The height is designed to work with standard Unite panels, with a maximum panel height of 80". With header installed, this leaves an open height of 80". Unite panels require a stacking section to configure up to 80" high panels.

Tools Required

- $\frac{9}{16}$ " deep-well socket (mounting bolts)
- T30 Torx drive bit (frame assembly)
- #2 Phillip drive bit (hinge assembly)
- Soft rubber mallet (trim assembly)
- $\frac{5}{16}$ " socket (threshold bracket)

Door Frame Assembly

Note: The following instructions illustrate a "left-opening" door attached to a "dead-end configuration" (see Detail A). Your configuration may vary (Details B, C, or D).

1. Identify the striker- and hinge-side of both door frame posts, then carefully lay the door posts onto a soft, protective surface as illustrated in Figure 1.

Note: Threshold brackets must be installed at the bottom of each door frame post at this stage to help ease the installation of the door threshold. If threshold brackets are not installed at this time, disassembly and reassembly will be required.

2. Slide the threshold brackets completely into the bottom of each door frame post as shown (Figure 1 & Detail E).

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Rare Earth Magnets used with this product. The magnets can be harmful to pacemaker wearers and others with medical devices. **Pacemaker wearers should stay at least one foot away from the steel tiles.**

Door Frame Installation

Note: The following instructions show the installation of the Unite Hinge Door Kit to a Unite Panel System. The panel system is not included with the door kit, but is shown for reference. To assemble the Unite Panel System, refer to the Unite Panel System Assembly Instructions (KI-62383) before proceeding to the next step on this page.

Note: Stacking sections with "top frame" (aluminum frame) contain either glass, steel or perforated steel inserts (Detail F). Stacking sections (steel frame) utilize exterior-mounted tiles of either fabric, markerboard or slat wall (Detail G). The configuration shown in Figure 2 consists of a stacking section (aluminum frame) with a glass top frame insert, and the panel adjacent to it includes a stacking section (steel frame). Your configuration may vary (Details F & G).

3. Prior to installation of the door frame assembly, remove tiles and/or top frames from stacking sections and panel frames adjacent to the door frame location. Set tiles and/or top frames aside until reassembly at a later time (Figure 2).
4. Ensure that the door frame opening between panel frames is exactly 42" wide. Adjust if necessary for correct fit (Figure 2).
5. Ensure that all intersection connector blocks are installed. If an intersection configuration is being assembled, make sure a light shield is snapped onto the blocks (Figure 2).

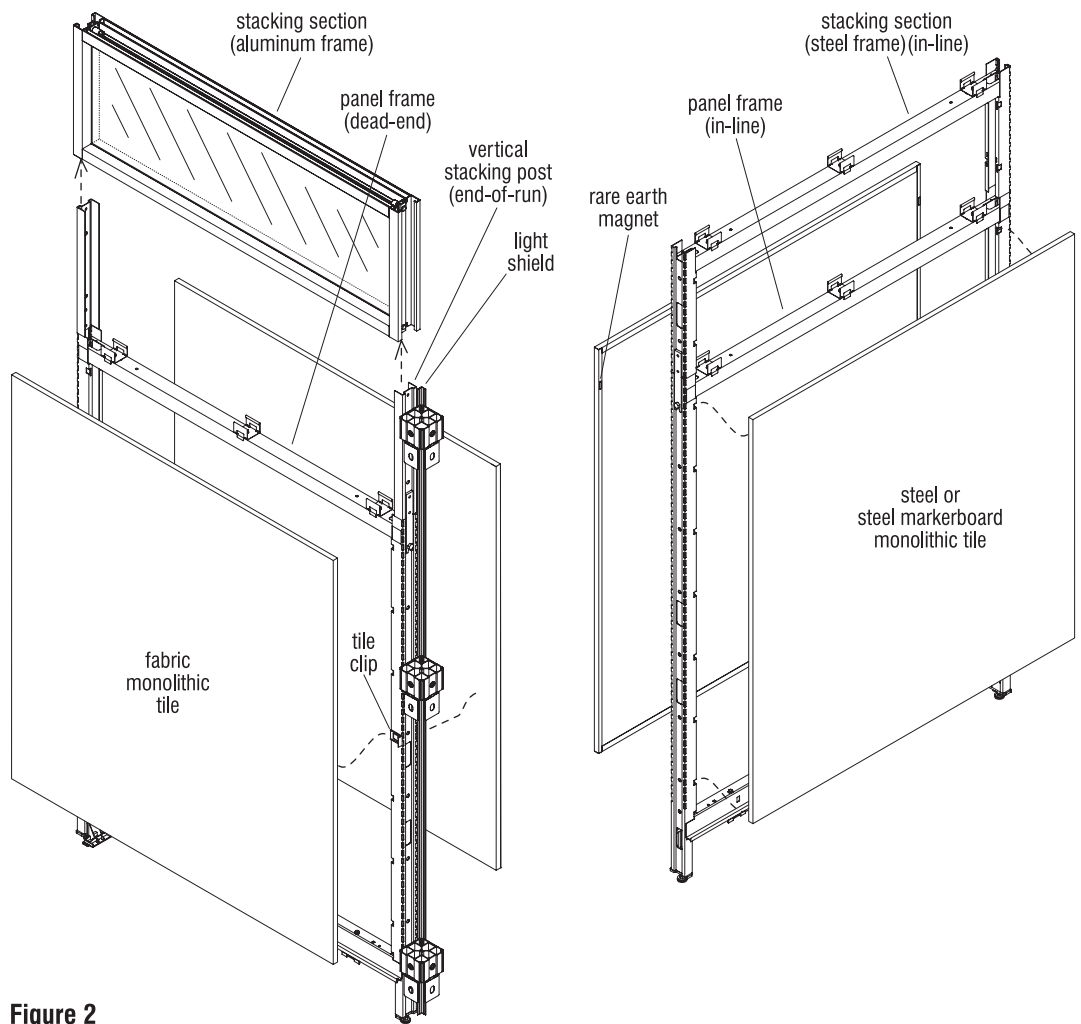
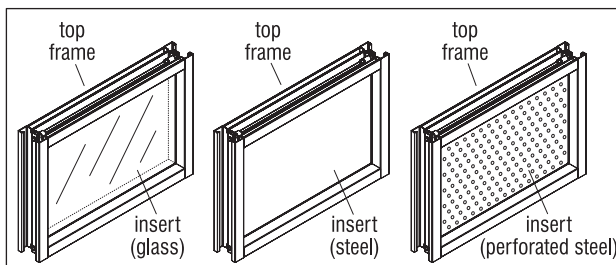
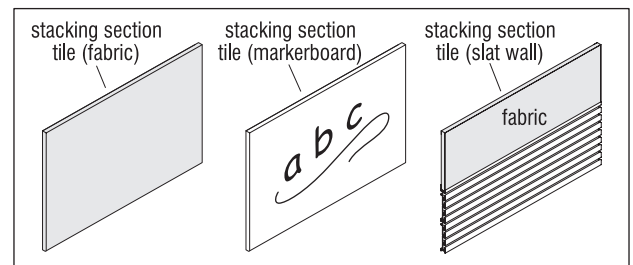


Figure 2



Detail F - Stacking Sections (aluminum frame) - Top Frames



Detail G - Stacking Section (steel frame) - Tiles



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6. Begin preparation to install the door posts to panel frame assemblies by first placing a $\frac{5}{16}$ " (smaller size) washer onto each $\frac{3}{8}$ -18 x $1\frac{1}{2}$ " bolt as illustrated. The smaller washers fit through the inside access hole. All bolts install from inside the door frame (Figure 3, Details H & I).

Note: Do not insert bolts with washers into the top connector block or top access hole on the vertical panel frame post until instructed at a later step. The bolts that are used to secure the door frame post to the vertical frame post/connector block are also used to secure the door frame header to the door frame posts.

7. At the door frame post that attaches to the connector blocks, carefully set the appropriate door frame post into position. Insert bolts with washers through the vertical door frame post and into the two lower connector blocks, then tighten (Figure 3 & Detail I).
8. At the door frame post which attaches to a panel frame, carefully set the appropriate door frame post into position. Insert bolts with small washers through the inside of the door frame post and through the vertical panel frame post, then place a $\frac{3}{8}$ " (larger size) washer onto each exposed bolt end and secure using $\frac{3}{8}$ -16 k-lock nuts as illustrated (Figure 3 & Detail I).
9. Position the door threshold as illustrated, onto the floor and outside of the door frame area. At the hinge side door frame post, identify the side of the post where the hinges mount to. This side of the door frame post is the "closed-door side". The door threshold must be installed under both door posts, and be off-center to the closed-door side. With the door threshold on the floor near the door posts, use a screwdriver or prybar to assist and carefully lift up each threshold bracket and slide both ends of the door threshold under the door posts such that the door threshold tabs nest into the slots, off-center and under the closed-door side of both door frame posts (Detail J). Then allow each threshold bracket to slide down, so the closed-door side slots of both threshold brackets nest into the tabs on the door threshold at each side (Figure 3 & Detail J).
10. After both threshold brackets have dropped down and are nested over the tabs on each end, insert and tighten a #12 x $\frac{3}{4}$ " slotted hex washer head thread-cutting screw into the hole on backside of each vertical door frame post to lock the threshold in place (Figure 3 & Detail J).

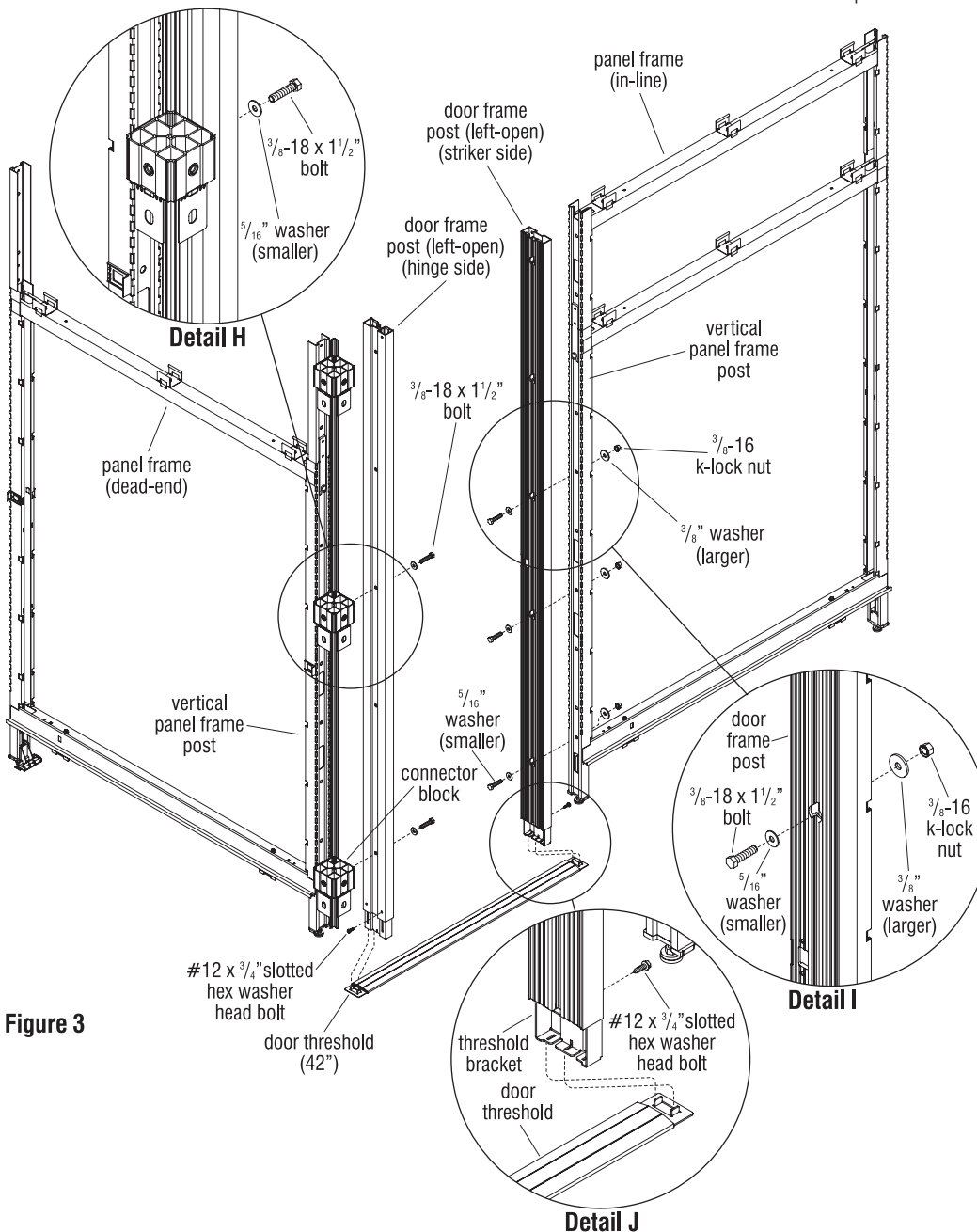


Figure 3

■ **Unite® Panel System - Hinge Door**
Assembly Instructions



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11. Position the door frame header over the top of the door frame posts and insert the door frame header brackets into the cavities at the top of each installed post (Figure 4 & Detail K).
12. At the connector block side of the door frame, insert a $\frac{3}{8}$ -18 x $1\frac{1}{2}$ " bolt with washer through the door frame post, door frame header and into the top connector block, then tighten. At the panel frame side of the door frame, insert a bolt with small washer through the inside of the top access hole in the door frame post, the door frame header and through the vertical panel frame post, then place a $\frac{3}{8}$ " (larger) washer onto the exposed bolt and secure using a $\frac{3}{8}$ -16 k-lock nut as illustrated (Figure 4 & Detail K).

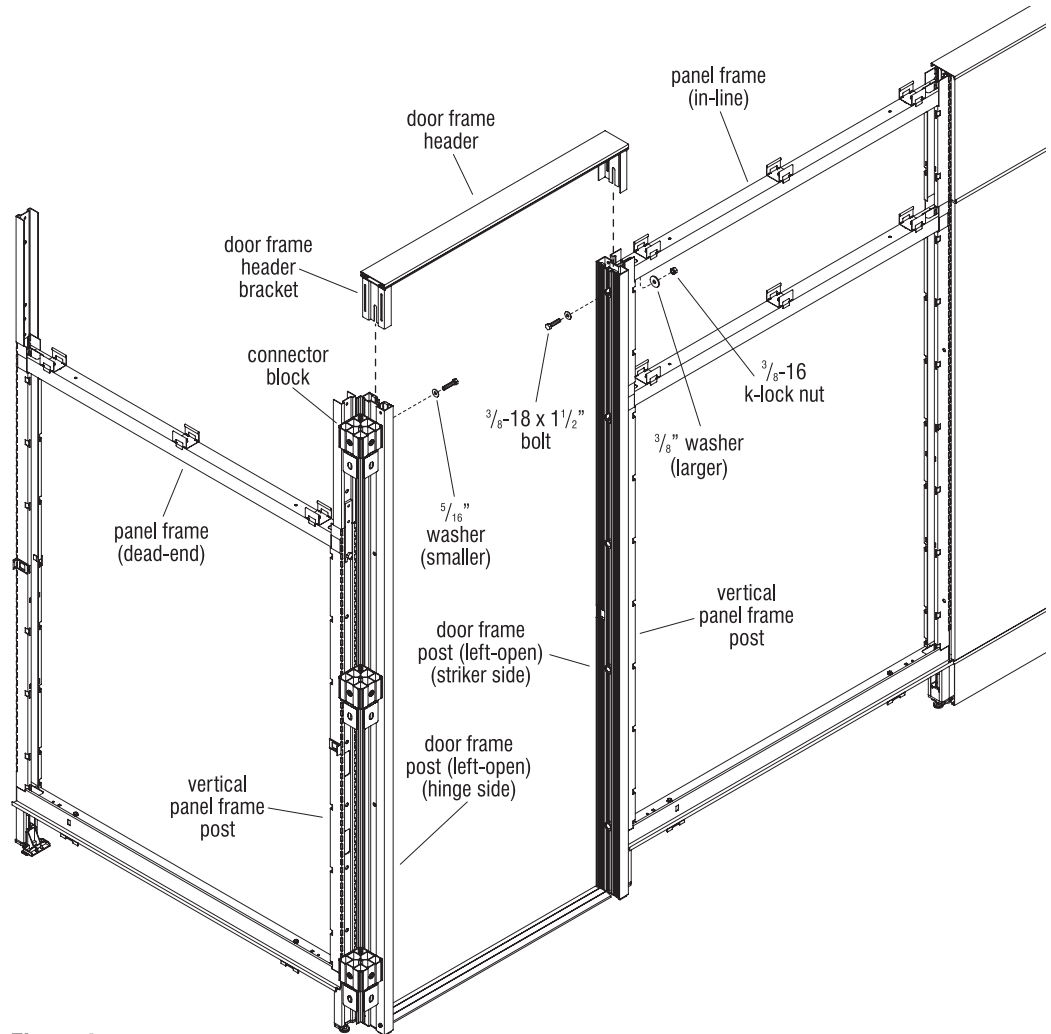
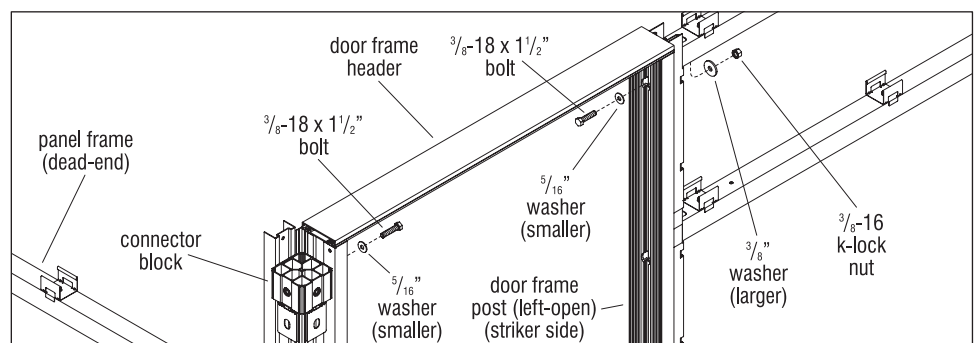


Figure 4



Detail K



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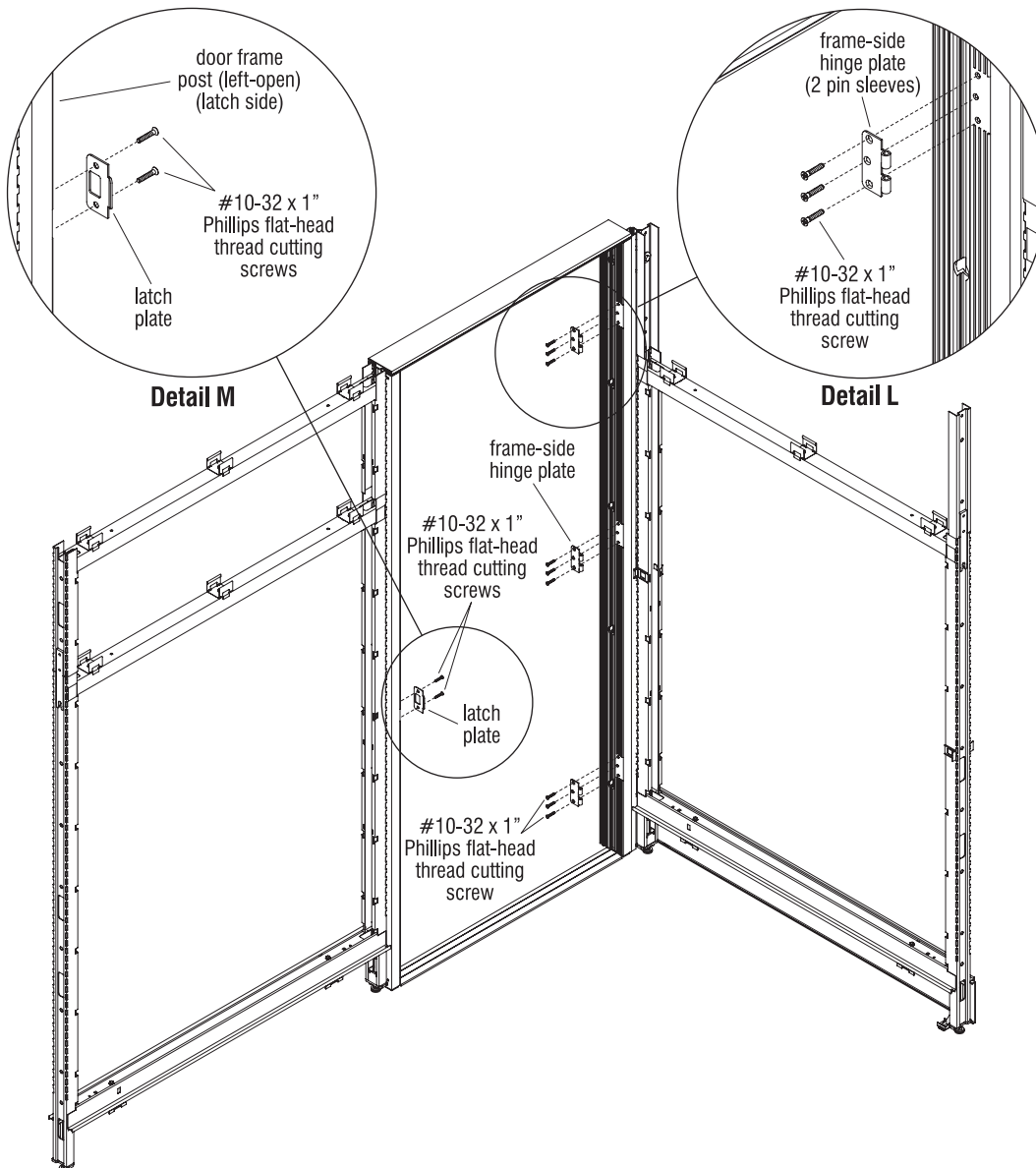


Figure 5

13. Install three frame-side hinge plates (with two pin sleeves - Detail L) using #10-32 x 1" Phillips flat head thread-cutting screws provided. Be sure to secure screws tight into frame, but take care to not strip the threads (Figure 5 & Detail L).

14. Position latch plate to the other door frame post as illustrated, at the same side that hinges are installed to on the opposite door frame post, then install with two #10-32 x 1" Phillips flat head-thread cutting screws (Figure 5 & Detail M).

Note: It is recommended to install thread cutting screws using drill driver and #2 Phillips drive bit.

15. All tiles and stacking sections may now be re-installed prior to door installation for easier tile assembly.

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16. Install three door hinge plates (with three pin sleeves - Detail N) into pockets of door edge as illustrated using #9 x 1" flat-head wood screws. Do not over-tighten which may strip wood out (Figure 6 & Detail N).

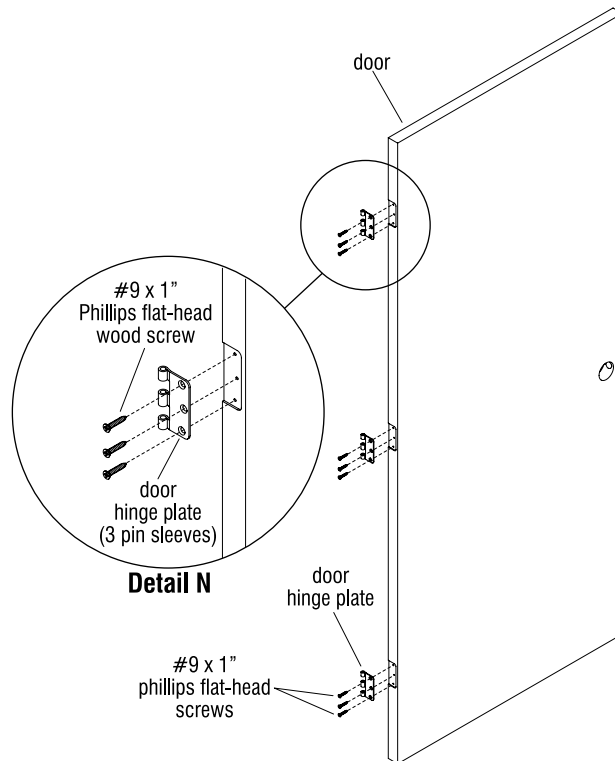


Figure 6



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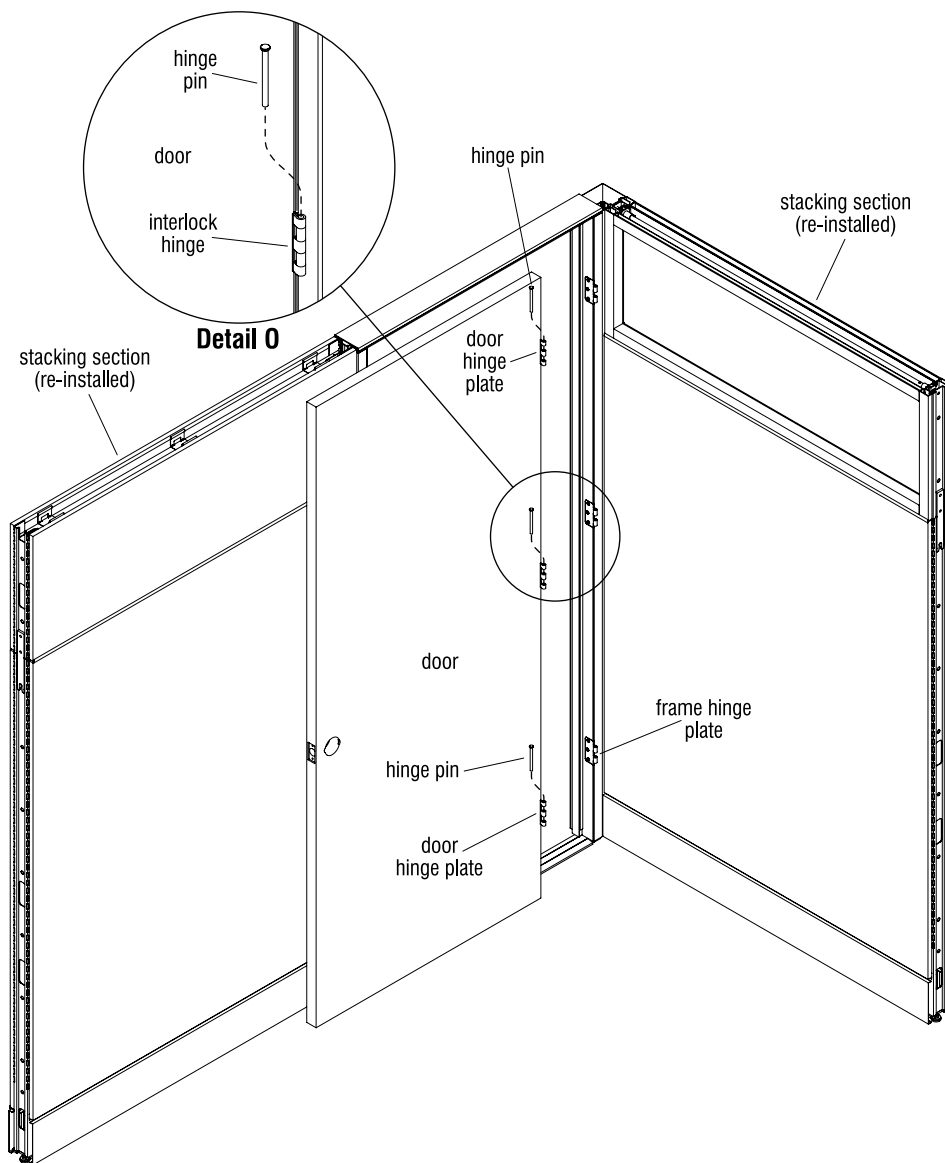


Figure 7

Note: Prior to the installation of the door, tiles and/or top frames from stacking sections and panel frames adjacent to the door frame location must be re-installed before proceeding to the next step on this page.

17. Carefully place door inside of the room which will receive it. Lift door into position and interlock the door hinge pin sleeves with the frame hinge pin sleeves. Install hinge pins into each interlocked hinge from the top down as illustrated (Figure 7 & Detail O).

Note: If only one person is installing door, a shim can be used under the door to help support the door while inter-locking hinges and installing the hinge pins.



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18. Locate and identify both the hinge-side, and the latch-side vertical trim (Figure 8). Position molding clips evenly and press them onto the vertical trim rib of both vertical trim pieces as illustrated (Figure 8 & Detail P).

Note: It is important to **attach the molding clips to the vertical trim rib** (as illustrated), rather than into the door frame channel, for ease of installation.

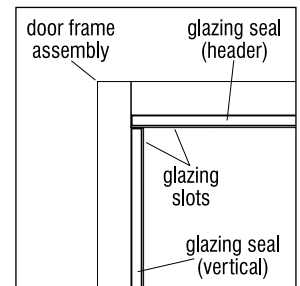
Note: To help identify where to tap the vertical trim into the door frame channel once the molding clips are installed, a pencil mark may be applied to the opposite side of the trim, at the installed molding clip locations.

19. One at a time, position vertical trim up to the appropriate side at the interior of the door frame. Take care to space hinge and door latch openings of trim evenly around installed hinges and latch plate. Using a soft rubber mallet, firmly tap trim to snap into place. Trim should sit flush at all edges when installed properly (Figure 8).
20. The previously removed top caps, horizontal splice plates, intersection caps and 90° vertical trim may now be re-installed (Figure 8).
21. The door glazing seal must be installed around the perimeter of the door frame, into the glazing slot in both vertical trim, as well as the header. Double-sided clear tape (provided in a 20' long roll) is used to adhere the glazing seal in place. Two pieces of glazing seal are provided at 120" in length and must be cut to fit. The D-shaped glazing seal has a flat, hard side and a softer bulb side. The flat side is designed to fasten to the double-sided tape and fit into the glazing slot (Detail Q).
22. Unroll the double-sided tape as you go. Carefully press the adhesive side of the tape into the glazing slot along the top horizontal header, as

well as the two vertical trim glazing slots at the side of the door frame. Cut to fit at the ends (Figure 8 & Detail Q).

Note: The glazing seal must be cut to size and applied to the header first, then to the vertical trim, such that the header seal crosses over the top of the vertical trim seals at the sides (Detail R).

backer off the installed double-sided tape and install the glazing seal to the horizontal header first. The glazing seal for vertical trim on each side must be cut to 79" and installed in the same way. Take care to make sure no gaps are left and that the seal is seated firmly into the glazing slot and secured to the double-sided tape (Figure 8 & Details Q & R).



Detail R - Side View

23. To install glazing, cut a length of glazing seal to 39 1/4". Peel the

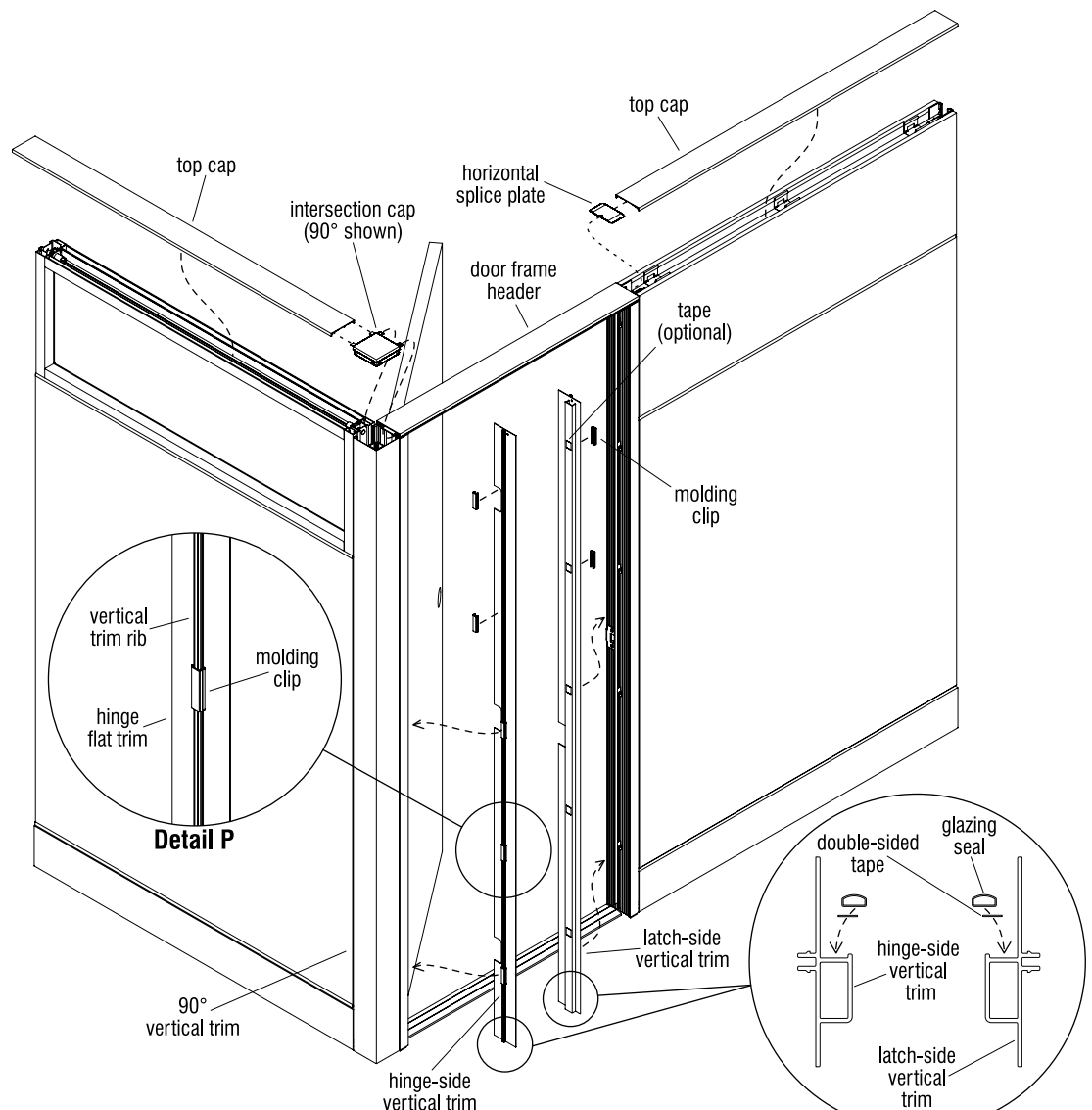


Figure 8

Detail Q - Top View



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24. Instructions for door handle installation should be located inside the handle kit. Two types of handles are available: (1) Passage and (2) Key Lock. If key entry is used, determine which side the key should be located (typically the outside) and install appropriately according to instructions (Figure 9).

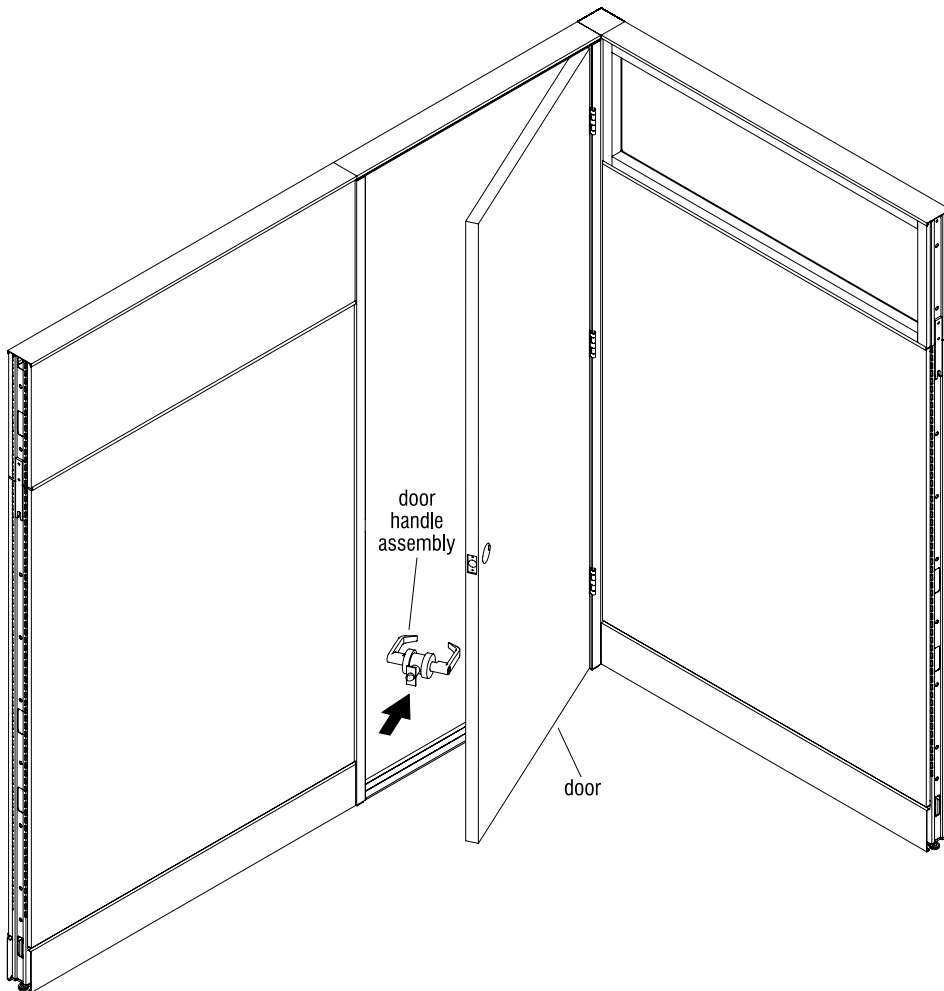


Figure 9



Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Retrofit Door Threshold Installation

Note: 42" door threshold kit can be installed separately. If system panels are insufficiently constrained, the door frame may spread open at the bottom. This could cause uneven door alignment and impair the function of the door latch. Thresholds are designed to maintain the proper door width at the bottom of the door frame.

25. Begin threshold installation by first removing the 90° corner vertical trim from the hinge side, then flip open the base raceway cover from the panel frame adjacent to the latch side (Figure 10).
26. Locate the previously installed threshold brackets at the bottom of the vertical frame posts (see Figure 1) and remove the retaining screw (#12 x 3/4" slotted hex washer head bolt) at each threshold bracket (Figure 10).
27. Position the door threshold as illustrated, onto the floor and outside of the door frame area. Noting the side of the door frame that the door is installed to, identify this side of the door frame as the "closed-door side". The door threshold must be installed under both door posts, and be off-center to the closed-door side. With the door threshold on the floor near the door posts, use a prybar or screwdriver to assist and carefully lift up each threshold bracket and slide both ends of the door threshold under the door posts such that the door threshold tabs nest into the slots, off-center and under the closed-door side of both door frame posts (Detail S). Then allow each threshold bracket to slide down, so the closed-door side slots of both threshold brackets nest into the tabs on the door threshold at each side (Figure 10 & Detail S).

28. After both threshold brackets have dropped down and are nested over the tabs on each end, re-insert and tighten the #12 x 3/4" slotted hex washer head thread-cutting screw into the hole on backside of each vertical door frame post to lock the threshold in place (Figure 10 & Detail S).

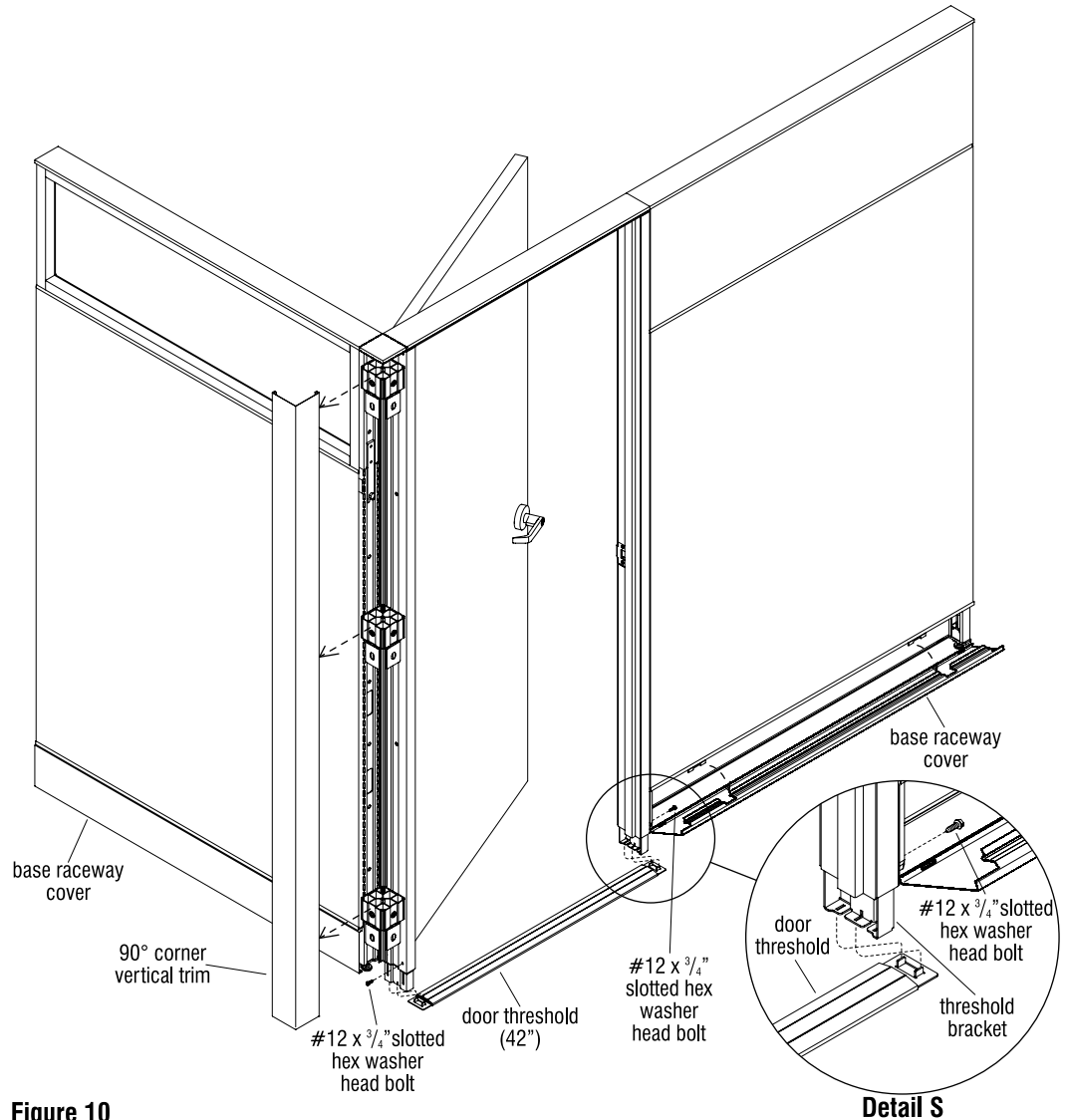


Figure 10

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