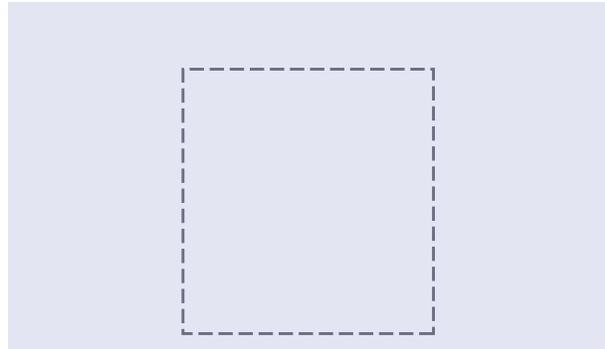
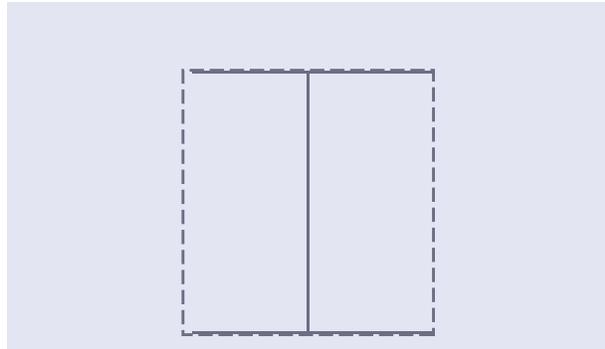


Patio Door Installation Instructions

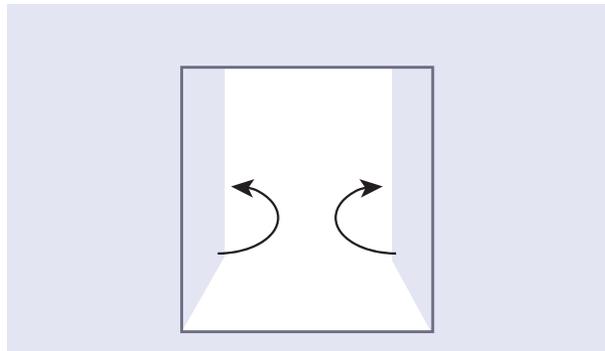
- 1 Cover walls with approved Weather Resistant Barrier (WRB). Check door for proper handing, color, grid type, and dimensions. Remove packaging from door. Remove screen and operable panel from frame.



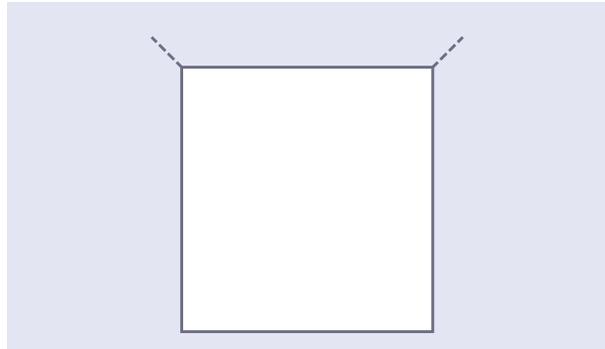
- 2 Cut out door opening in WRB using the I pattern as shown.



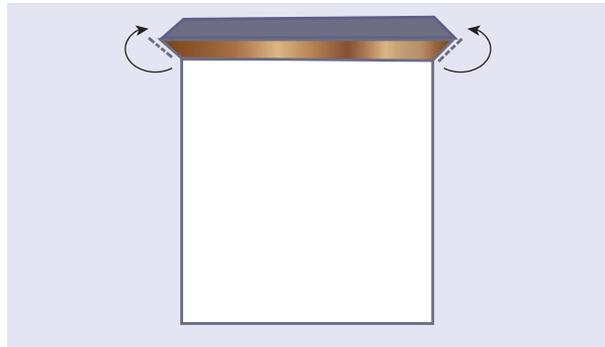
- 3 Wrap WRB into door opening as far as the inside face of the stud wall. Remove any excess wrap that extends beyond inside the face of the stud wall. At this time, temporarily place the door into the rough opening to check for proper fit. Modify the opening if needed. Ensure proper clearance at the head and jambs.



- 4 Cut a diagonal line at top corners of door opening to create a flap approximately 6" above the top of the window opening.

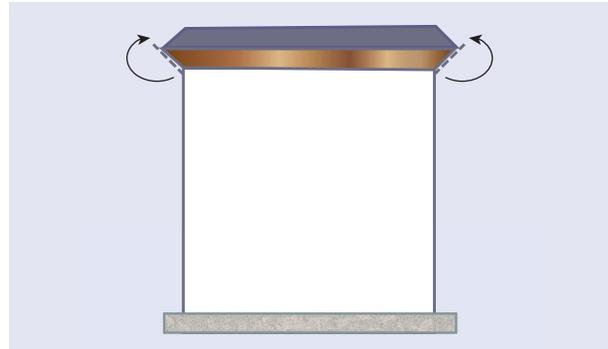


- 5 Fold flap up, exposing the sheathing below. Tape it temporarily until flashing can be installed.

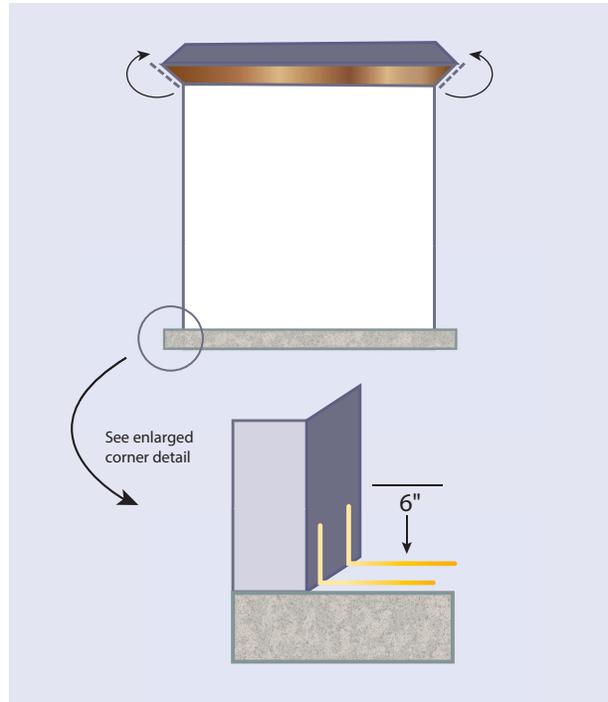


Patio Door Installation Instructions (page 2)

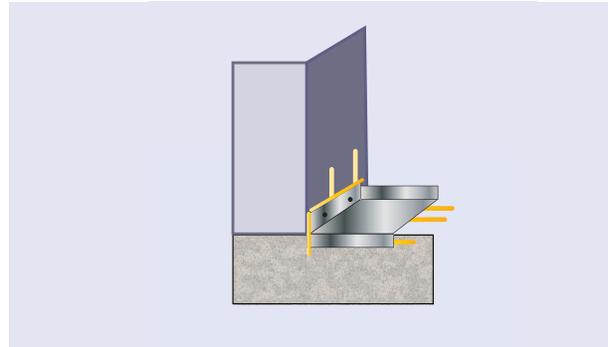
- 6** Install flexible flash tape evenly with the rough opening at the bottom, and extend the ends approximately 6" past the opening on either side.



- 7** Apply two parallel 3/8" nominal beads of an approved sealant continuously across the entrance and 6" up along each wall in preparation to install the sill pan. If the floor is out of level, shim below the sill pan, and apply sealant on both the top and bottom of the shims. Use a flat composite shim.

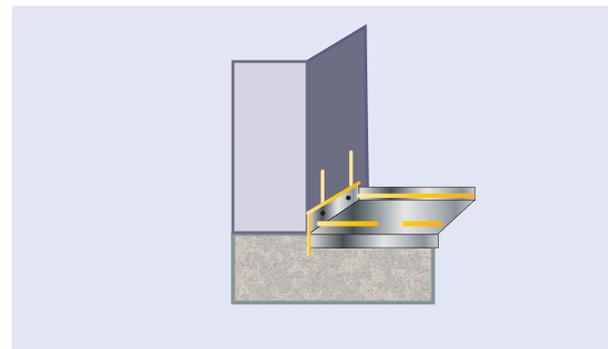


- 8** Apply an additional continuous 3/8" nominal bedding bead of sealant to the backside of the downturned leg of the sill pan, and place into the opening as shown. Anchor, seal exposed fastener heads, and seal perimeter of sill pan as shown. Tool away excess sealant as needed. Sill pan must have formed sides or end dams, and be made to fit snugly into the rough opening width. It should be sealed to the wall and at the corners where it meets the upturned leg in the rear - or sill dam leg. Minimum leg height of sill dam leg must be 1-5/8" in order to meet a DP50 or 7.5 PSF on the water infiltration test.



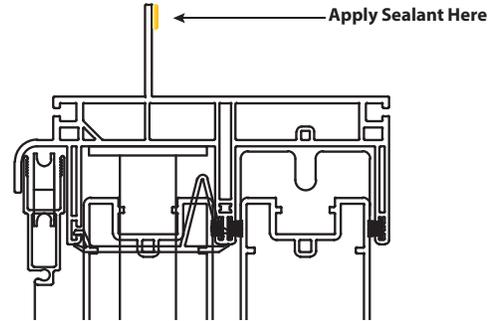
- 9** Just prior to installing the door, apply a 3/8" nominal continuous bedding bead of sealant to the upturned sill dam leg, and a second, discontinuous bedding bead of sealant toward the outboard side of the sill dam leg skipping about 2" of sealant 6" in from either end.

Note: If no sill pan is used, apply 3 continuous parallel beads of construction adhesive. The middle bead should be made in a zig-zag fashion.



Patio Door Installation Instructions (page 3)

- 10** Apply a 3/8" nominal thickness continuous bedding bead of sealant behind the nail fin of door at jambs and head, and place door into opening (begin at sill). Ensure that door frame is centered in the opening.



- 11** Secure nail fin of door in top corner. Replace the operable panel, head first, into the frame while gently lowering the bottom onto the roller tracks. Check for plumb, level, and square. Check diagonal measurements until they are within 1/16". Fasten using the slots in the nail fins with approximately 6" O.C. Spacing. Fasteners should be #8 stainless steel 300 Series, and long enough to penetrate the framing by 1" minimum. Tool away excess squeeze-out from sealant. When the operating panel is in a nearly-closed position, remove plug covers on exterior bottom rail of operable panel. Adjust for an even reveal of leading edge of door panel as it aligns with the frame by using a Phillips head screwdriver to raise or lower each roller assembly.

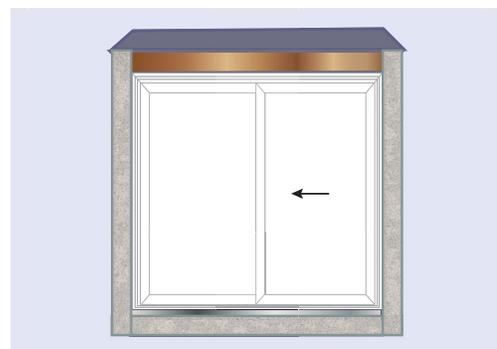
For Vinyl Sill Doors:

All impact 3-panel patio doors will need additional installation screws in the following two locations:

A. The first location for additional screws is in the 4-hole L-brackets found on the top and bottom of the fixed panel internal meeting stiles. The 2-panel door will have two brackets, and the 3-panel door will have four brackets. The bracket on the bottom of the fixed panel is located under the threshold cover, and the top bracket is located under the jamb track cover. Once the 4-hole brackets are located, remove the two screws closest to the interior side of the door. Apply caulk to cover holes, and insert #8 x 2-1/2" flat head Phillips screws so that they penetrate the framing member. If masonry, use Tapcon® #8 x 2-1/2" screws.

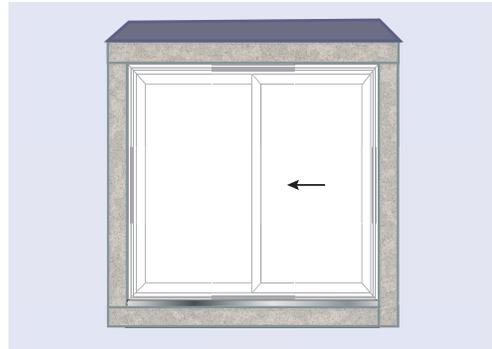
B. The second location for additional screws is in the patio door interlock. Remove the 8 screws securing the 12" aluminum reinforcement that is installed in the head above the operating panel, and replace with #8 x 2-1/2" flat head Phillips screws.

- 12** Apply jamb flashing in weatherboard fashion. Jamb flashing should be placed over the sill flashing and extend past the rough opening at the head. Make sure there are no wrinkles, gaps, or bubbles.

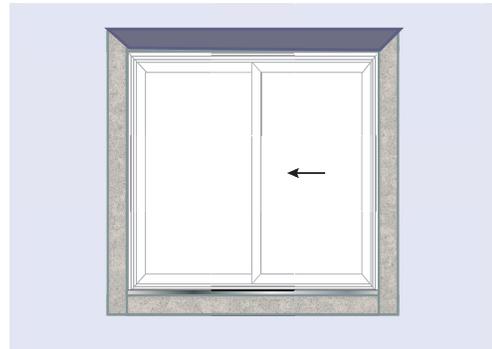


Patio Door Installation Instructions (page 4)

- 13** Install head flashing as shown.



- 14** Remove the tape that is holding the flap in place and bring down over flashing. Using approved WRB tape, secure flap edges.

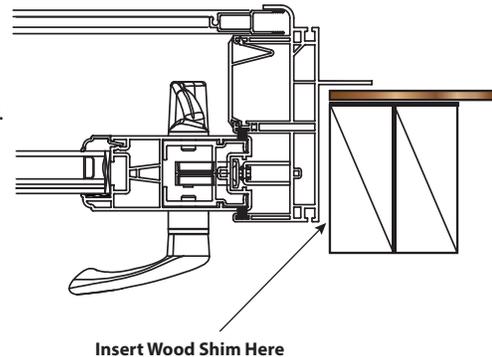


- 15** Install continuous wood blocking between the door frame and the wall the entire length of the lock strike. Number eight (#8) Phillips head flat screws are provided for the keeper. These will be adequate to penetrate the frame, the blocking, and at least 1" into the wall. Four-panel doors have an astragal into which the keeper should be screwed. If the hook on the lock fails to engage with the keeper, then adjust keeper height or door height using the roller adjustments until the lock is aligned.

For Impact Doors Only:

A. Impact clips will need to be adjusted at the head and threshold ends of the operable panels. Loosen the screw holding the lower impact clip in place. Then, adjust the lower impact clip all the way down to its lowest position possible while still allowing smooth door panel operation. Tighten the screw. Run the other two #8 A x 1-1/2" self-drilling, flat head Phillips screws provided into the other impact clip holes.

B. Loosen the screw holding the upper impact clip in place. Then, adjust the upper impact clip all the way up to its highest position possible while still allowing smooth door panel operation. Tighten the screw. Run the other two #8 A x 1-1/2" self-drilling, flat head Phillips screws provided into the other impact clip holes.



- 16** Fill in gap between the frame and the wall with an approved non-expanding foam, or precut pieces of loose fiberglass insulation. Do not overpack. If using fiberglass insulation, install backer rod, and caulk interior perimeter of frame at head and jambs.

