Clad Patio Sliding Door Installation Instructions

Please read installation instructions carefully before starting.

This section includes installation instructions for 2-panel and 4-panel doors.

Installation of Unit:

1. Check rough opening to insure that opening is level, plumb and square. Verify that width and height dimensions are correct. Rough opening should be 3/4" wider than overall frame width and 3/4" greater than overall frame height. Sill plate should be flat and level. Make sure opening, specifically the subfloor, is dry, clean and free of dirt and debris.

✔ **Note:** Flashing and/or an appropriate method of sealing shall be designed as a part of an overall weather resistive barrier system. It is not the responsibility of the window manufacturer to design or recommend a flashing system appropriate for each job condition.

✔ **Note:** Self-adhered flashing material is recommended to be at least 9" wide.

Caution: Any variance from this installation procedure signifies that proper waterproofing becomes the responsibility of the design professional and/or the installer.

2. Sill Pan. Sierra Pacific strongly recommends the use of a sill pan. A rigid or flexible membrane pan may be used depending upon project specifications and installation conditions. Installation should be compliant with ASTM E 2112 "*Standard Practice for Installation of Exterior Windows, Doors and Skylights.*" Figures 3, 4 and 5 illustrate installation using a rigid sill pan.

3. An overview of the proper flashing sequence is shown in Figure 1.

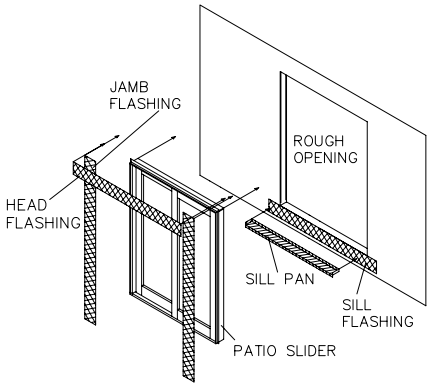

Figure 1

4. Begin flashing of the rough opening (RO) by applying flashing material along the exterior edge of the sill plate (see figure 2). Make sure that the flashing extends 8 1/2" beyond both sides of the RO. Next, apply two continuous beads of polyurethane sealant across the width of the sill, approximately 1/2" - 1" in from the interior and exterior edges of the RO (see figure 3). The sealant should extend 6" up each side of frame members. One additional bead should be applied along the exterior vertical edge of the sill plate as shown. This will create a seal between the sill pan and the sill. Set the sill pan in place (see figure 4) and make sure that it is fully seated in the sealant, especially the front lip.

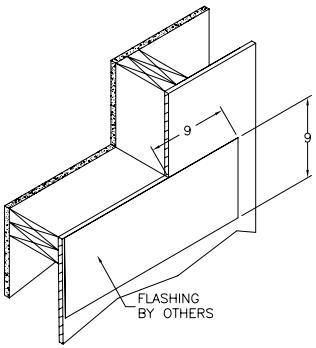

Figure 2

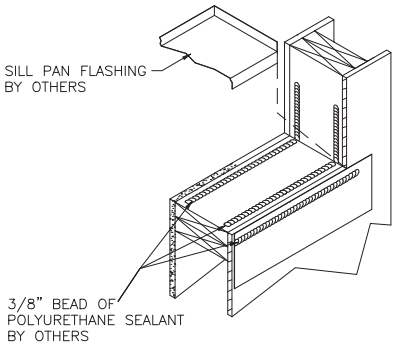

Figure 3

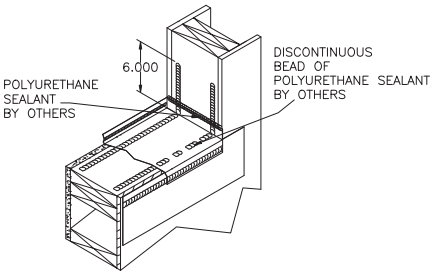

Figure 4

5. Once in place, apply a bead of sealant across the vertical back leg of the sill pan. The bead should be continuous and extend the entire length of the sill pan. A discontinuous bead should then be applied near the exterior edge of the sill pan. Complete the sealant application by applying a bead along the top lip of the sill pan end to seal between the pan and the rough framing (see figure 5).

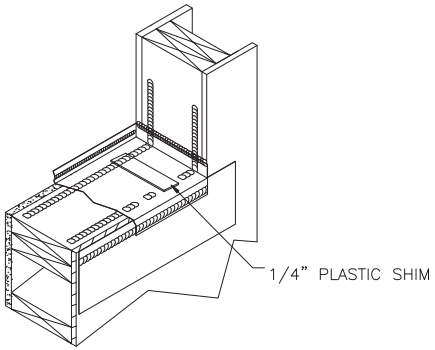

Figure 5

6. Prior to setting the door into the sill pan, place 1/4" non-compressible, plastic shims onto the sill pan as shown (see figure 5). Space shims 1 to 2 inches from each end and then approximately every 12 inches thereafter.

7. Apply a continuous nominal bead of sealant along the backside of the nailing flange along both side jambs and head. Run additional sealant across the 45° joint where the flanges meet (see figure 6).

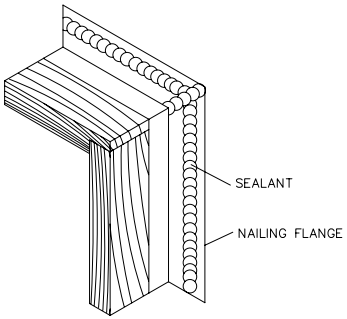

Figure 6

8. Insert and center the door in the rough opening. When doing so, tilt the door back so that the sill can be set into the opening and onto the sealant and not scrape it off the sill pan (see figure 7).

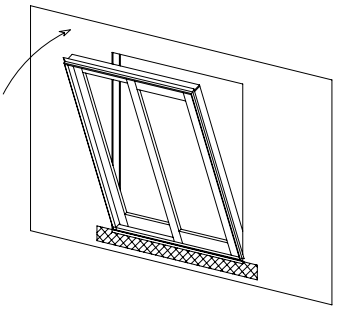

Figure 7

9. With the door set into the rough opening, check to make sure it is centered. Tack the door in place with one 1-1/2" stainless steel screw (or equivalent) in the top nailing flange within 3" - 6" of each corner. Make sure that the sill is straight, flat and level. Use a tape measure to check the diagonal dimensions of the frame to ensure the frame is square (see figure 8). Diagonal measures should be within 1/8". This measure should be double-checked by using a framing square. Shim at the top of the side jambs as required. Use a level or straight edge to ensure the jambs are straight. Also, check frame width across top, middle and bottom. Width measures should be within 1/16".

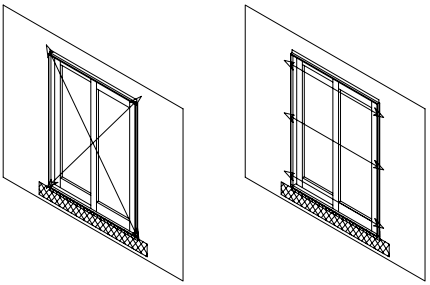

Figure 8

Important: Proper shimming is required to ensure the unit will perform properly.

10. Place a shim behind each keeper slot of the strike plate on the lock side jamb (2-panel door only). Place a #8x3" stainless steel screw (provided) into each hole at both ends of each keeper slot (see figure 9). #8x7/8" stainless steel screws are inserted into the remaining screw holes in the strike plate. It is recommended that the holes be pre-drilled into the framing. Make sure that the door is fully seated in the opening before inserting screws.

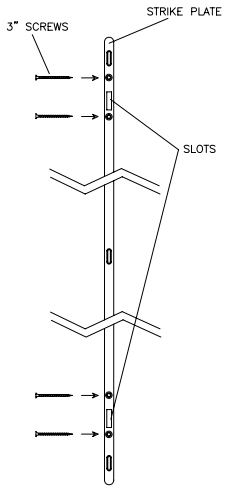

Figure 9

11. Use a 1/8" drill bit to pre-drill into the header through the holes in both halves of the head track. Insert 3" stainless steel screws. Do not over-tighten. Check to make sure frame head is level. The active panel(s) will have to be opened completely to expose the empty holes in the head track (see figures 10 & 11). When unlocking without the use of the handle set, use a standard screwdriver to activate the lock. The door will not lock unless the active panel(s) is (are) closed completely.

✔ **Note:** For installations with transom windows mulled directly to the top of a patio sliding door, replace the 3" screws with 1-7/8" stainless steel screws.

Figure 10

Figure 11

12. Adjust door panel and striker bar to ensure proper operation and locking. Complete the fastening of the door to the structure using stainless steel screws (or equivalent) and securing the nailing flange to the sheathing. Fasteners should be spaced every 12" - 14".

13. If required, attach a support block made from pressure treated or decay resistant wood (not provided) underneath the exterior lip of the sill (see figure 12).

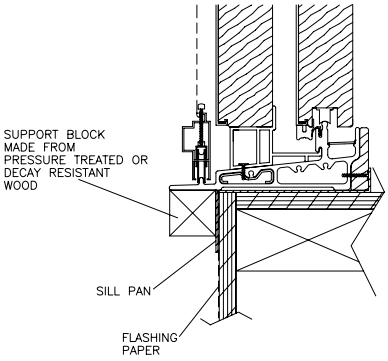

Figure 12

14. With the unit completely secured to the structure, apply a bead of sealant at the edge of the head jamb nailing flange where it meets the sheathing. Also, apply similar beads of sealant between the edge of the side jamb nailing flange and the flashing material. Tool the sealant into the joint to ensure the joint is filled.

15. Apply a layer of flashing over the side jamb nailing flange. The length of the flashing should equal the height of the RO + (2x width of the flashing material) –1". Install the flashing so that the edge contacts the inside corner of the nailing flange. The top of the flashing should extend only 8-1/2" above the top edge of the door frame. Make sure that the side flashing overlaps and covers the ends of the sill flashing. Repeat for opposite side (see figure 13).

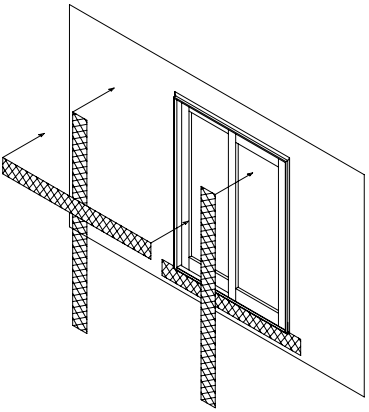

Figure 13

16. The length of the head flashing should equal width of RO + (2x width of the flashing material) + 2". Extend 1 inch beyond edge of each side flashing (see figure 14). Attach top edge of flashing to the wall.

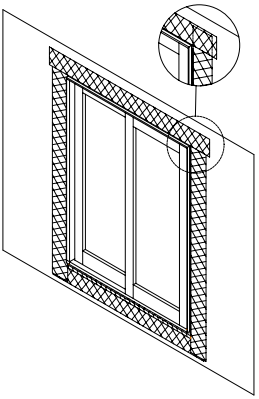

Figure 14

17. Complete installation by applying sealant around the perimeter of the unit after the exterior wall finish has been applied.

Removing the Operating Panel:

1. Remove the interior head stop (located at the head jamb). Gently pull downward, starting from one end and release from kerf fastener (see figure 15).

Figure 15

2. Remove the bumper stop block from the stationary side of the head jamb (see figure 16).

Figure 16

3. The head track is installed in two pieces (four pieces on the 4-panel door). Begin by removing the stationary side head track by removing the screws. With the operating panel completely closed, remove this piece of head track (see figures 17 & 18). Take care to note from which side each head track piece was removed. It is important to replace each track piece in the same location from where it was removed.

Figure 17

Figure 18

4. Slide the operating panel into the open position so that it is against the stationary side jamb.

Caution: Take care to support the top of the operating panel so it does not fall.

Remove the screws from the operating side head track. Then while moving the operating panel toward the closed position, slide the head track back through the plow at the top of the operating panel (see figure 19).

Figure 19

For 4-panel door:
Operator side head track can be pulled straight down after removing screws. You do not have to slide the track over top of the panel.

5. Slide the operating panel into the closed position and remove the remaining head track piece from the head jamb (see figure 20).

Figure 20

Caution: Take care to support the top of the operating panel so it does not fall.

6. With both tracks removed, tilt the top of the panel toward the interior and carefully lift it off the roller track (see figure 21).

Figure 21

Caution: Lift with care. Panels are very heavy. Use two people to remove panel.

7. Set the panel down carefully to avoid damage to the panel extension at the exterior side of the panel bottom.

Installing the Operating Panel:

1. Remove the interior head stop (located at the head jamb). Gently pull downward, starting from one end and release from kerf fastener (see figure 22).

Figure 22

2. Remove the bumper stop block from the stationary side of the head jamb (see figure 23).

For 4-panel door:
Repeat opposite side.

Figure 23

3. Remove the stationary and operating sides of the head tracks from the head jamb by removing the screws. Take care to note from which side each head track piece was removed. It is important to replace each track piece in the same location from where it was removed.

4. Set the bottom of the operating panel onto the sill making sure that the rollers are properly aligned and sitting on the roller track.

Caution: Lift with care. Panels are very heavy. Use two people to install panel.

5. Once the rollers are on the track, tilt the panel into place and hold in position. Carefully slide the panel a few inches to ensure the rollers are tracking properly.

Caution: Take care to support the top of the operating panel so it does not fall.

The panel should roll easily. If it does not, reposition until rollers are on the track.

6. Slide the operating panel into the closed position. Slide the operating side head track through the plow at the top of the panel while slowly moving the panel into the open position. Pull the head track piece over the panel and position against the side jamb. Again, make sure that the correct track piece is inserted and screw into place (see figure 24). Be careful not to pinch the bulb weather-strip between the head track and side jamb.

For 4-panel door:
Slide the panel into the closed position and engage the operating panel interlock with the stationary panel interlock. While holding the active panel in place, insert the stationary side head track into the plow and secure into place with screws.

Figure 24

7. With the operating panel in the closed position, place the stationary side head track into the head jamb. Secure the stationary side head track with screws (see figure 25).

For 4-panel door:
Slide the operating panel into the open position and place the operating side head track into the head jamb. Screw the track into place.

Figure 25

For 4-panel door:
Repeat steps 6 and 7 to install the second operating panel.

8. Re-apply the head stop onto the exposed kerf fastener. Re-apply the bumper stop block.

Panel Height Adjustment: The height of the operating panel can be adjusted by accessing the height adjustment screw on each roller. To access the screw, remove the cap from both holes at the bottom of the panel on the interior side. Insert a large slotted or phillips screwdriver into the screw and turn counter - clockwise to adjust the panel upward (see figure 26). Adjust the rollers as needed to ensure a proper fit between the panel and frame.

For 4-panel door:
Adjust the rollers on the second active panel, in the same manner as the first. The panels should be set to the same height and must be parallel with one another.

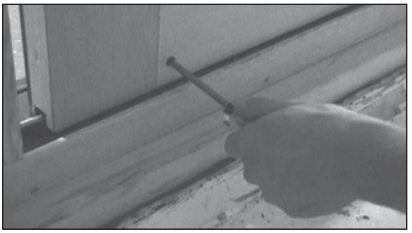

Figure 26

Strike Bar Adjustment: The strike bar can be adjusted via the slotted holes in the base plate (see figure 27). By slightly loosening the screws, the bar can be adjusted up or down to achieve correct alignment with the lock mechanism. Do not over tighten.

Figure 27

Handle Set Installation: Separate handle set installation instructions are supplied with the hardware set.

Flushbolt Adjustment (4-panel door): The position of the strike plate for the flushbolt (installed on the head track above the panel) can be adjusted for proper alignment with the flushbolt. The plate is adjusted via the slotted screw holes on either side of the flushbolt hole.

Foot Operated Lock (4-panel door): See separate installation instructions.