



# 4-LITE PATIO DOOR

## INSTALLATION INSTRUCTIONS



**IMPORTANT: Read the instructions and familiarize yourself with the door parts and pieces before beginning assembly and installation.**

**NOTE: Only the 5-0 x 6-8 and 6-0 x 6-8 doors are field reversible!**

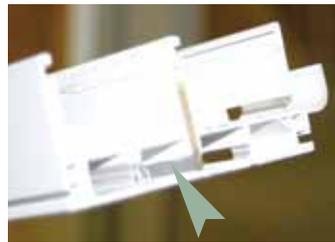
**TOOLS NEEDED:**

- Tape Measure
- 4' Level
- #2 Phillips Bit (4" in length)
- #3 Phillips Screwdriver
- Small Rubber Mallet
- Cordless Screw Gun
- 1/8" Drill Bit (4" in length)
- 3/32" Drill Bit
- Caulk Gun and Color-matched Silicone Caulk

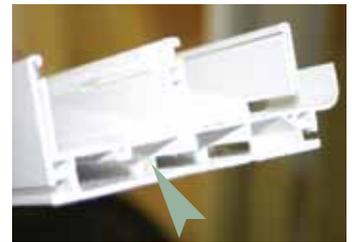
**1** Prepare a clean flat work space for the door assembly. Remove the door frame and hardware from the packaging.



**2** Remove all parts and pieces from the head, sill and jambs. Lay the frame out with the exterior side up, so it will be in the order it is going to be assembled. **NOTE: Make sure center reinforcement on sill does NOT cover the weep hole!**



Covered weep hole.



Correct placement of reinforcement.

**3** Remove protective cover from the gasket on each end of the side jambs. Once the cover has been removed inspect gasket for damage. If gasket is damaged call your Simonton Dealer for further instructions.



**4** Attach each jamb to the sill and head with three (3) #8 x 2-1/2" pan head screws through pre-drilled holes. Start screws in each pre-drilled screw hole by hand to assure proper screw alignment and prevent damage to the gasket. Be careful that you do not over tighten the screws, which could damage the frame.



- 5** Check opening for proper size before installing frame. Check to see if the sill is level. If the sill is not level, correct at this time.



- 6** Install frame into opening. Shim frame so that it is plumb, level and square. Attach frame to opening using provided installation screws, No. 10 x 2-1/2" Phillips flat head. Place screws in each of the six (6) pre-punched installation holes. Screws are required to have an embedment of 1-1/2" in wood or 1-1/4" in a masonry structural member. Shims should be placed at all anchorage locations of the jamb to prevent bowing of the frame.



- 7** Install the aluminum sill inserts in the exterior track so that it fits under the fixed panels. Locate the inserts 1-1/2" from the end of the sill. Fasten each insert to the sill using six (6) - #8 x 1-1/4" flat head screws.



- 8** Install the aluminum jamb inserts in the exterior track of the side jambs on the fixed panel sides. Center the sill from top to bottom. Fasten jamb inserts to jamb using ten (10) - #8 x 1-1/4" flat head screws.



- 9** Install door roller track. Before placing roller track in the sill, pre-drill six holes with a 1/8" drill bit—two (2) on the left 2" from the end, two (2) on the right 2" from the end and two (2) in the center, one on each side of the raise roller rail. Center the roller track in the pocket along the length of the sill and fasten with six (6) - #6 x 1/2" screws. **Make sure not to cover weep holes in sill!**



**NOTE:** Remove roller track from the sill before pre-drilling the screw holes to prevent accidentally drilling completely through the frame.

# 10

To install the fixed panels, lift the top into the outer track of the head. Swing the bottom of the panel in and place into the sill track. Push panel into jamb making sure it is fully seated in the track. Repeat on the opposite side.

**NOTE: The four (4) weep holes have may have been punched in only one end of each fixed panel. This end will always be installed toward the sill. The glazing bead around the perimeter of the glass will be toward the exterior.**



# 11

Install the L brackets on the fixed panels using No. 10 x 1/2" screws supplied.

**NOTE: Make sure frame is square and sill and head are parallel before anchoring L-brackets.**



Fin seal pad



# 12

Install interlocks on fixed panels. Pre-drill 3/32" holes in interlock through panel, 2" from top/ bottom and 11" to 12" on center between. Use #8 x 7/8" self-drilling screws with #6 flat head screws supplied to fasten interlock to panel. Install screw cover by squeezing snap legs together slightly to get started into screw groove. Install fin seal pads at top and bottom of interlock on fixed panel trimming to fit if necessary.



Fin seal pad



**13**

After the fixed panels are in place, drill 1/8" pilot holes into the weather-strip track starting 6" from each end, with a maximum 12" spacing between the remaining screws. The drill bit needs to be a minimum of 4" in length to prevent damage to the frame. Install #8 x 7/8" self-drilling screws with a #6 flat head into each pilot hole.

**14**

Install rollers in the bottom of operating panel using two (2) - #8 x 1/2" flat head screws in each roller. Locate the roller so the roller adjustment screw is toward the edge of panel. The back of the roller housing sets against an aluminum reinforcement in the roller cutout. Make sure the roller sets flat against the aluminum. If it does not, the panel could become difficult to operate.

**15**

To install the operating panels, lift the top into the interior track of the head. Swing the bottom of the panel in and place it into the interior track of the sill (make sure the rollers are completely retracted before attempting to install).

**16**

Adjust the rollers using a standard Phillips head screwdriver so that the panel is centered from top to bottom and the lock side of the panel is parallel with the side jamb. This adjustment may be easier if panel is lifted or temporarily shimmed to take weight off of roller. Check the operation of the operating panel to see if any further adjustments are necessary. After final adjustment, install hole covers.



- 17** Install astragal on the edge of the secondary operating panel. Caulk the astragal on the inside corner before attaching it to the panel. Position astragal in place then pre-drill 5/32" holes in panel before installing screws. Locate screws 4" from top and bottom, then 12" OC. Avoid having screws in the keeper location.



- 18** Install the multi-point mortise latch into the cutout located in the edge of the primary operating panel (without the astragal), using two (2) - #8 x 3/4" flat head screws. Make sure the holes in the face of the panel line up with the receivers for the handle set before fastening the mortise latch to the panel.



- 19** Install active lock handle assembly on primary operating panel. Refer to the instructions in the Handle Set package.



- 20** Install inactive door handle on secondary operating panel.



**21**

Install the keeper on the astragal of the secondary panel using four (4) - #8 x 1-3/4" pan head truss screws. The top and bottom screws should be installed first, located at the dimple areas. Adjust as needed for the lock to work properly and then install the remaining two screws.

Install pre-cut jamb covers in the interior track of the side jambs on the fixed panels sides of the frame.

**22**

Install pre-cut 4 1/2" bumper stops in interior track of head and sill. Caulk where the panel stop meets the side jamb at the sill.

**23**

Install foot bolt on secondary operating panel (with astragal) according to package installation instructions.

**24**

Install screens. Lay screen track into outside accessory track, making sure slots in track line up with weeps in track. Insert top of screen into head track, and then using an appropriate tool, insert bottom of screen into track. Adjust top and bottom rollers so screen is plumb and rolls freely. Repeat for second screen.



**25** Install screen astragal onto screen, using supplied screws.



**26** Install screen lock keeper onto screen astragal.



**27** Install pre-cut sill and head covers over the non-operating sides of the door—top and bottom.



**NOTE: THE SILL THRESHOLD COVER COULD BE VINYL OR ALUMINUM, DEPENDING ON THE DOOR MODEL OR COLOR.**



**28** Install pre-cut sill and head cover on fixed panel sides, top and bottom.

**29** Finish off the installation of the door's exterior by caulking around the perimeter of the door using a premium silicone caulk. Do not leave any gaps where water or outside elements can penetrate into the home. Pay close attention to not caulk over weeps when caulking across the sill.



**30** Finish off the installation of the door's interior by loosely inserting insulation between the door frame and the opening. Do not over pack the insulation or the frame could become bowed or twisted.

**31** Remember: The homeowner is the final inspector. Clean the door well and remove all debris from the job site. Be sure the homeowner is familiar with the proper operation of door.



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