



Patio Door Installation Instructions

Before getting started: Read instructions thoroughly. Be sure that you have the necessary tools and materials before starting the installation. Consult your local building code official for all applicable building codes and regulations. Should any of your local building codes or regulations conflict with this manual, consult with the manufacturer before proceeding.

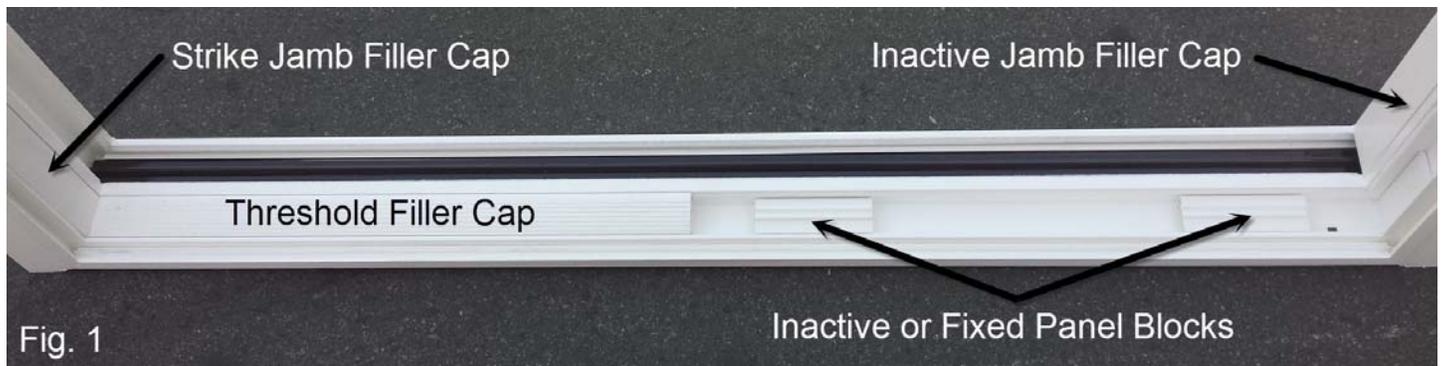
It is highly recommended that the roof loads be applied prior to the installation of the windows & doors. This will help ensure that any possible header deflection will have occurred, making the framed opening more stable.

Inspect the door frame & panels for any damage. If any damage is present, notify manufacturer prior to installation. Failure to notify manufacturer prior to installation could affect the warranty of the product.

Measure the frame size & verify that it will fit the opening. Verify that the opening is plumb, level & square. If the opening is not plumb, level & square, it will limit the amount of adjustments that can be made to the door prior to panel installation.

If any of the frame work, including the sill, is not level or free from sags & crowns, it will seriously impact the ability to fully adjust the finished patio door.

The sill needs to be level & free from any debris. The threshold of the door must be completely supported by the sill of the opening. Sill pans (done by others) are recommend on all installations. Sill pans must be done before the opening is flashed. Flashing is to be done in accordance with AAMA 2400.



Use liberal amounts of polyurethane sealant behind the nail-fin. **Sealant to be spec'd & approved by the flashing manufacturer.** Before securing the nail-fin it is important to shim the jamb & head at least every 24". Shims should be positioned & adjusted insuring that the patio door frame is plumb & level. Please note, shimming behind the keeper is critical for years of service free operation. Filler caps can easily be removed & replaced (Fig. 1). Behind those filler caps is an ideal place to hide your shim fasteners.

Secure nail-fin with at least a #8 x 1½" screws or ring shank nails. Larger fasteners may be used. Only use the pre-punched holes or predrill with a 3/16" drill bit. Be sure to only tighten or nail fastener until the head is flush with the nail-fin. Do not over tighten or crater the nail-fin. Locate the fasteners every 8" on center.

With the head, threshold & strike jamb filler caps removed, the inactive panel is to be positioned on the panel blocks. Block position should be near the corner / edge of the panel (see Fig. 1). Once set, push the panel into the pocket of the Inactive jamb. Please note, if screws were used to secure the jamb it can cause a slight bind. From the middle parting



Patio Door

Installation Instructions (continued)

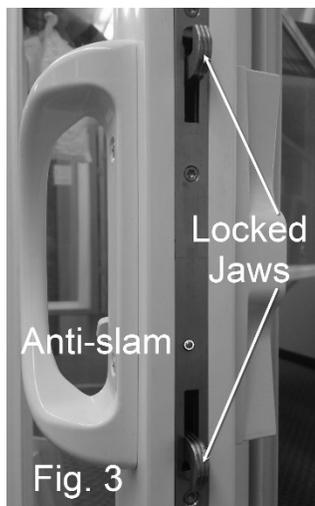
bead, the panel should be recessed into the pocket $3/4''$ to $7/8''$.

From the interior side of the door, install the active panel. It may be necessary to lower the rollers prior to setting the active panel. Do not install the keeper until final adjustment to the door are made. Install the handle & escutcheon hardware using the hardware manufacturer's installation instructions. Do not use a screw gun or impact driver, as it may damage the hardware.

Now that the frame & panels are installed, it is time to adjust the rollers. Remove the $3/8$ hole plugs at the bottom of the panel. They can be found from the interior side of the patio door. Adjust the roller as high as they will go. Do not adjust the roller using a screw gun or impact driver, as it may damage the roller. It may be difficult to adjust the roller up with the weight of the panel on the roller. It is easier to lift the panel & take the weight off of the panel as you are adjust them up. Slide the door open & closed. If any restriction is felt now is the time to identify it.

Slide the panel until the edge of the sash is $1/4''$ from the jamb. Take a look at the reveal. If the reveal is off you will want to adjust the appropriate roller down until the reveal is correct. Next open the panel all of the way and check the reveal against the interlock of the inactive panel. If this reveal is off it will need to be adjusted by shimming out the inactive panel accordingly.

Give the door a couple open & close motions to ensure that everything is adjusted. Once you have verified everything is good, replace the $3/8$ hole plugs in the bottom of the active panel. Next install 3 screws to lock in the inactive panel securely into the frame. From the interior of the door, behind the Inactive Jamb Filler Cap (Fig. 2), you need to put three screws through the parting bead & into the inactive panel. One should be $4''$ down from the top, one in the center and the last one should be $4''$ up from the bottom. Once they are in, you can replace the Inactive Jamb Filler Cap.



While pressing the anti-slam button on the lock, put the lock in the locked position. (Fig. 3) Using a pencil, mark the height location of the locked jaws. While centering in the pocket, secure the keeper. Having solid shims behind the keeper is critical for years of service free operation. Don't forget to unlock the lock. Test the operation of the lock. Remember that the end users experience with the door will come from the ease of locking & unlocking, as well as the sliding of the door.

Before installing the screen, it may be necessary to retract the roller on top and bottom. Once the screen is installed raise the roller all the way up & check the sliding motion. Check the reveal to the Strike Jamb & adjust the rollers in the same method used for the active panel. When you have confirmed the reveal & function of the screen, install the keeper.

Once panels are installed and the door is adjusted to fit and operate correctly in your opening, it may be necessary to trim the filler caps to fit. It is also a good practice to caulk those joints with silicone or Cosmofen. You also will want to caulk the seam from the Inactive Panel to the frame both inside & outside. (Fig. 4)

