

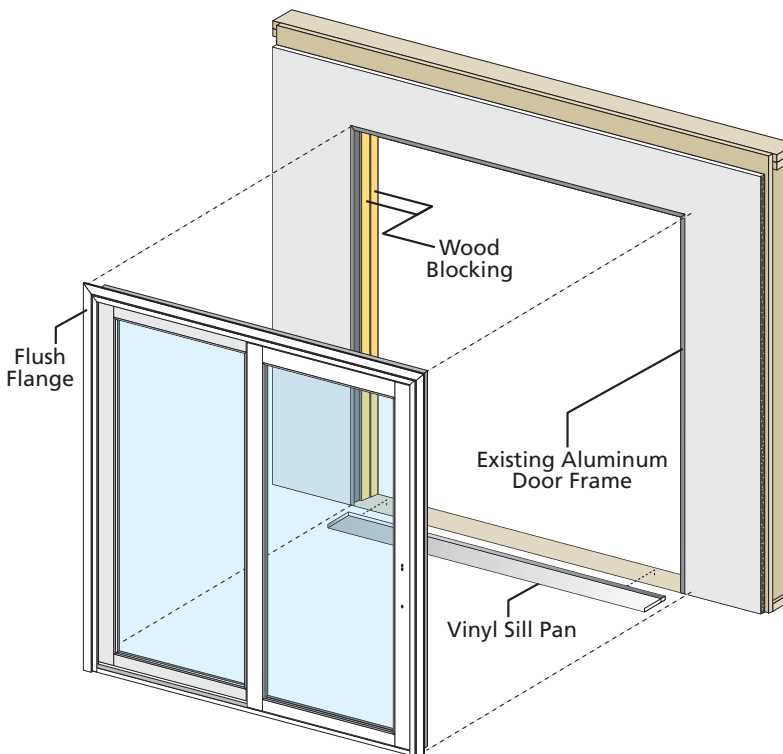
## INSTALLATION INSTRUCTION - INSTRUCCIONES DE INSTALACION DOOR REPLACEMENT USING FLUSH FLANGE

*Lea las instrucciones en español en el reverso*

### *Installation Instructions for Replacement of Aluminum Sliding Doors in Hard Coat Stucco Applications.*




These instructions are designed for typical California hard coat stucco exterior applications. The installation must leave the existing aluminum sliding door frame and weep system in place. **These instructions are not to be used with any other construction method and rely on the integrity of the existing aluminum sliding door frame and flashing system.** Building designs, construction methods, building materials, and site conditions unique to your project may require an installation method different from these instructions and additional care. Determining the appropriate installation method is the responsibility of you, your architect, or construction professional. If you have questions, please contact your local Pella retailer.

**REMEMBER TO USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.**



Always read the Vinyl Window and Door Limited Warranty before purchasing or installing Vinyl Windows and Doors manufactured by Pella Corporation. By installing this product, you are acknowledging that this Limited Warranty is part of the terms of the sale. Failure to comply with all Pella installation and maintenance instructions may void your Pella product warranty. See Limited Warranty for complete details at <http://warranty.thermestar.com>.

## YOU WILL NEED TO SUPPLY:

- Cedar or Impervious shims/spacers (12 to 20) 
- High quality exterior grade polyurethane or silicone sealant (3 to 4 tubes per door) 
- Great Stuff™ Window and Door Insulating Foam Sealant by the Dow Chemical Company or equivalent low pressure polyurethane window and door foam - DO NOT use high pressure or latex foams. 
- Wood blocking, 2" x 4" x 96" (2 or 3 pieces)

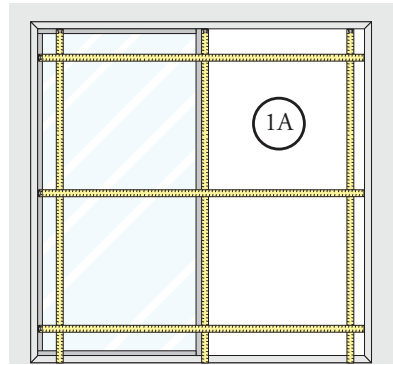
## TOOLS REQUIRED:

- Tape measure 
- Level 
- Sealant gun 
- Square 
- Hammer 
- Screwdriver 
- Utility knife 
- Wide jaw pliers 
- Hacksaw 
- 1/8" and 1/4" drill bit
- Drill 

*Installation will require two or more persons for safety reasons.*

# 1 BEFORE YOU START

- A. **Remove the vent panel from the existing door frame.** Check the dimensions of the existing door and the new door to make sure the new door will fit correctly. The opening must be 1/2" larger than the new door frame in both width and height. Also measure the stucco flange of the existing door frame. DO NOT install this door if the exterior face of the existing door frame is less than 1/2".



## TWO OR MORE PERSONS ARE REQUIRED FOR THE FOLLOWING STEPS.

- B. **Remove the packing material** from the door. The vent panel may be removed to make the door lighter and easier to handle.
- C. **Relocate the vent panel bumper.** Remove the bumper located at the top of the fixed jamb, and install in the fixed jamb against the sill track.
- D. **Remove the vent panel.** Grasp both sides of the vent panel and slide the panel approximately 24" open. Lift up on the panel until the bottom of the panel will clear the bottom track. Tilt the bottom of the panel to the interior and slide the top of the panel down until it will clear the top track. Set the panel aside in a safe place.

*Note: Check the new door for any cracks or damage to the frame. DO NOT install damaged units.*

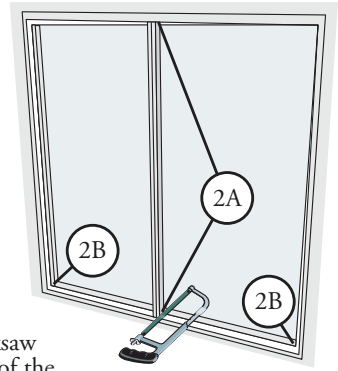


- E. **Cut the nailing fin off the sill** of the sliding door. Lay the door exterior side down on a smooth clean surface. Using a utility knife, score the nailing fin (two or three times) as close to the frame sill as possible. Grasp the fin on one end, and pull it off the frame sill.

## 2 OPENING PREPARATION

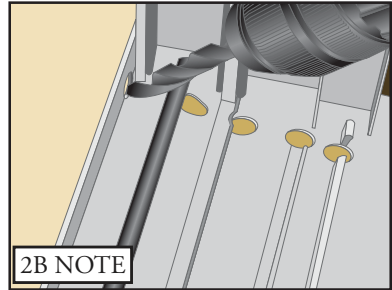
- A. **Prepare the door opening** by removing the venting panel and the glass from the existing fixed side of the aluminum door frame.

*Note: It may be necessary to cut the divider between the venting panel and fixed glass areas with a hacksaw. The existing aluminum frame is left in place so as not to disturb the existing exterior stucco flashing or drainage system.*



- B. **Cut the existing door sill out of the opening.** Using a hacksaw or side grinder, cut the existing sill as close to the longest leg of the jamb extrusion as possible.

*Note: Be careful to avoid damage to the interior flooring materials. Drilling holes in the sill prior to cutting may make the removal of the existing sill easier. If existing sill has a stainless steel cap on the sill, removing the cap prior to cutting will make cutting easier.*



- C. **Clean old sealant and other debris** from the door opening.

- D. **Remove the door lock strike** from the lock jamb of the existing door frame.

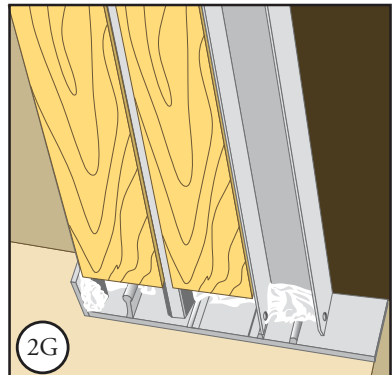
- E. **Place a bead of sealant at each joint** where the existing door frame jambs meet the existing door sill pieces. Fill any holes in the jamb and head with sealant.



- F. **If the weep holes of the existing sill have been cut away, drill new weep holes** in the existing door jambs. Be sure to drill weep holes in all vertical jamb legs, except the most interior leg.

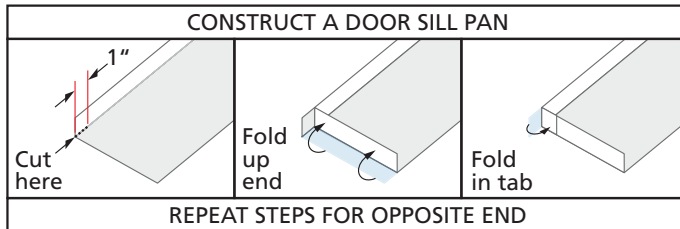
*Note: Ensure that all new or existing weep holes are open before proceeding with the installation.*

- G. **Cut wood blocking to fill the vent and fixed panel cavities** in the head and jamb of the existing door frame. The depth of the blocking should be the same height as the tallest leg of the existing jamb extrusion. Cut the head blocking to fill the entire length of the head in both channels. Cut the jamb blocking to fill both jamb channels to within approximately 1" of the bottom of the jamb.



- H. **Install the wood blocking in the head existing door frame.** Place a 3/16" bead of sealant in the door panel cavities, then insert the wood blocking into the head cavities. Next insert the wood blocking into the jamb panel cavities of the existing door frame.

- I. **Construct a door sill pan from the vinyl "L" channel** provided with the door. Measure the distance between the cut ends of the existing door sill and add 2". Measure 1" from each end and cut through the vertical leg of the pan material. Bend bottom flaps of the pan material up, then bend the back leg around the end of the pan.



**TWO OR MORE PERSONS ARE REQUIRED FOR THE FOLLOWING STEPS.**

- J. **Dry fit the sill pan and the door** into the opening.

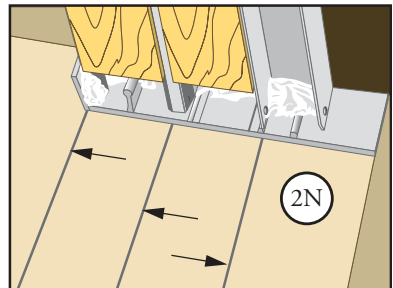
*Note: If the new door frame is deeper than the existing door frame, it will be necessary to cut the interior flooring material back to allow the door flush flanges to contact the existing aluminum door frame.*

- K. **From the exterior, set the door into the opening.** Set the sill of the door on the sill panel and tilt the door into position.

- L. **Insert shims around the door temporarily** while you verify that the door will fit into the opening and that the door flanges will overlap the stucco or existing aluminum door frame by a minimum of 3/4" on all sides.

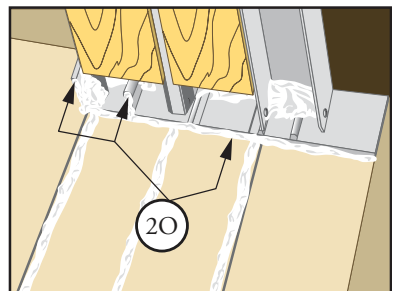
*Note: Fix any problems with the opening before proceeding.*

- M. **Using a pencil, mark the interior and exterior edges of the sill pan** on the sill of the rough opening. Remove the door and sill pan.



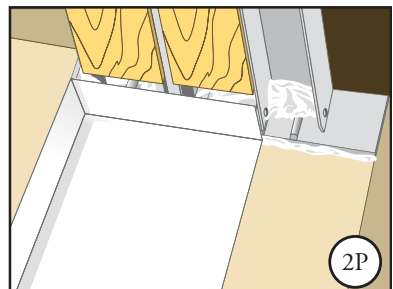
- N. **Place a 1/4" diameter bead of sealant in the following locations:**

- The exterior side of the interior pencil mark.
- The interior side of the exterior pencil mark.
- Midway between the exterior and interior sealant beads.



- O. **Place a bead of sealant across the ends of the three sealant beads**, connecting the three beads and sealing the exposed ends of the existing aluminum sill. Also place a bead of sealant on the vertical legs of the existing sill.

- P. **Install the sill pan** into the opening, aligning the interior and exterior edges with the pencil marks from Step M. Press down on the sill pan to seal it into the opening.



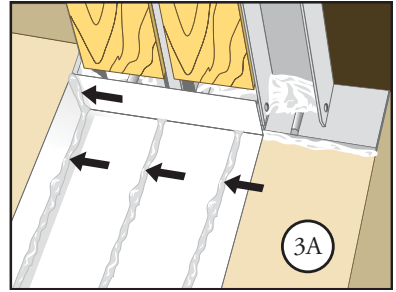
- Q. **Check all visible sealant lines for voids** and fill any voids with sealant.

# 3 SETTING AND FASTENING THE DOOR

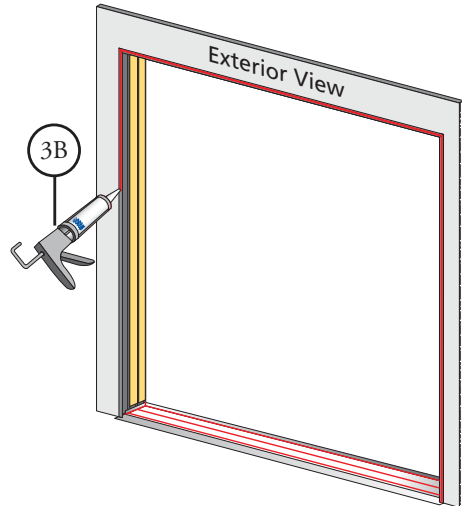
A. Place one 1/4" diameter bead of sealant in the following locations:

- In the bend at the back of the sill pan.
- 1/2" from the exterior edge of the sill pan.
- Midway between the interior and exterior beads of sealant.

Also seal the joint between the back and side legs of the sill pan with sealant.

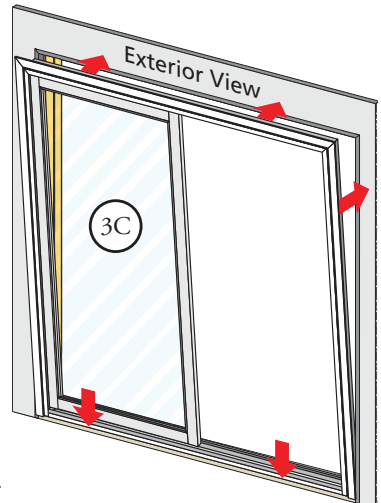


B. Place a 1/4" diameter continuous bead of sealant on the face of the existing door frame jambs and head.



**TWO OR MORE PERSONS ARE REQUIRED FOR THE FOLLOWING STEPS.**

C. **From the exterior, set the door into the opening.** Set the sill of the door onto the sill pan and tilt the door into position, centering it in the opening. **DO NOT** slide the door on the sill pan.



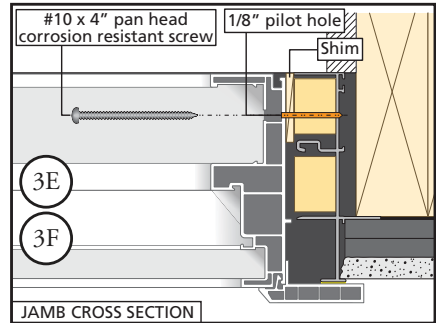
D. **Insert shims** between the door and the sides of the opening at the top two anchor hole locations in the door.

*Note: Keep the exterior of the door pressed against the existing door frame to ensure a good sealant line.*

E. **At the top pre-drilled installation hole of each jamb, drill a 1/8" pilot hole** through the shims, wood blocking and aluminum door frame.

F. **Drive #10 x 4" pan head corrosion resistant screw (provided) into the rough opening** at the installation hole locations.

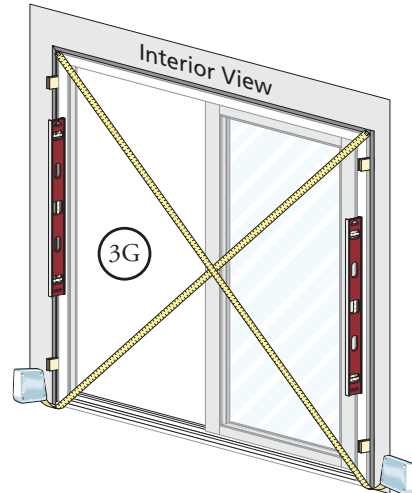
*Note: There will be two screws in the head at each side of the interlocker and five or six screws in each jamb.*



G. **Plumb and square the door.** Insert shims between the new door frame and the existing door frame at the anchor hole locations in the door sides and head. Move the door in the opening until the flanges are tight against the existing aluminum door frame. Also shim between the top of the door and the rough opening above the fixed interlocker and at the mid-point between the fixed interlocker and the lock jamb.

*Note: DO NOT over shim.*

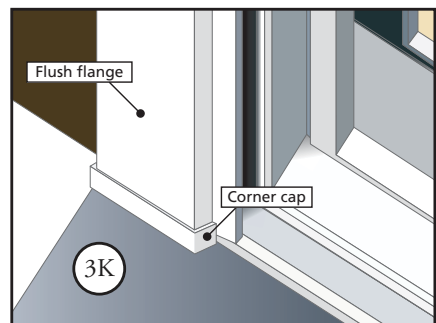
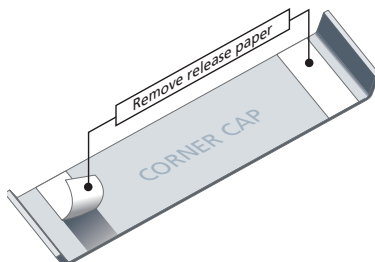
H. **Drill a 1/8" pilot hole** through the door frame, shims, blocking and aluminum frame at each pre-drilled installation screw hole location.



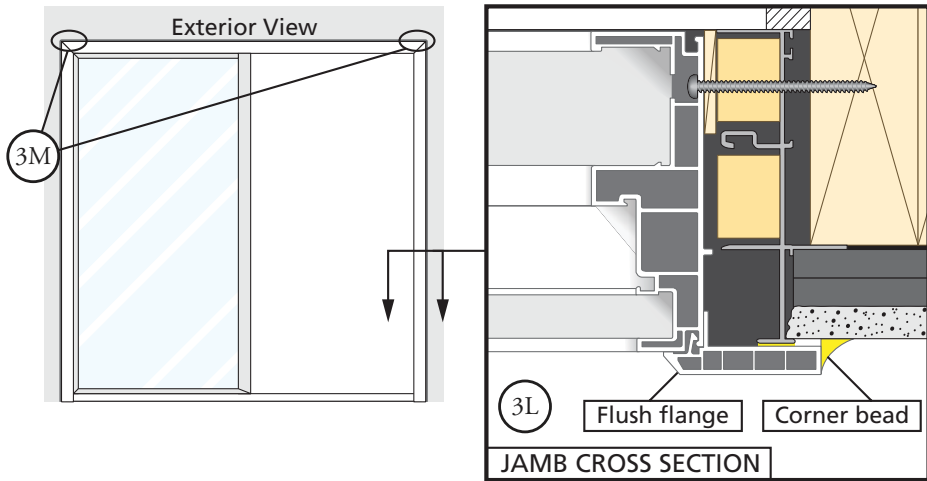
I. **Drive a #10 x 4" pan head corrosion resistant screw (provided) into the rough opening** at the installation hole locations.

J. **Insert a plastic screw hole plug (provided) into each installation screw hole.**

K. **For a door without the flush flange at the sill, install a corner cap at the bottom of each jamb flush flange.** Remove the release paper from the adhesive strips on the back of the corner cap, and press the corner cap onto the bottom of the jamb flush flange.



- L. **Place a corner bead of sealant** on the edge of the door flush flange on top and sides. **DO NOT** seal the sill of the door frame to the opening.



- M. **Seal the exterior drainage weeps at the head only** with high quality exterior grade sealant. **DO NOT** seal the drainage weeps at the sill.

## 4 REINSTALL THE SLIDING PANEL

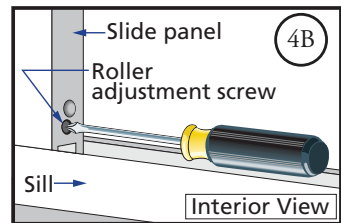
**TWO OR MORE PEOPLE WILL BE REQUIRED TO HANDLE THE PANEL SAFELY.**

- A. **Insert the door panel.** From the interior of the building, tilt the top of the panel toward the door frame and insert the top of the door panel into the top track. Move the bottom of the panel toward the door frame until it is vertical. Gently set the panel down into the bottom track.

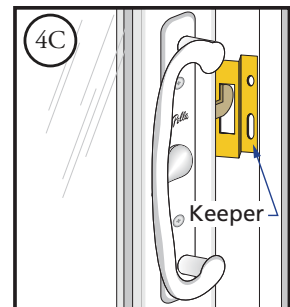
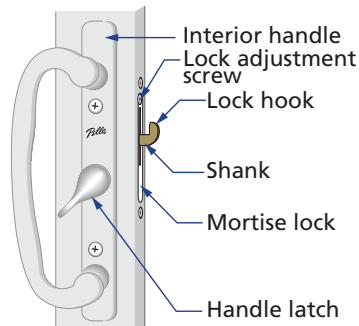
*Note: Make sure the top of the panel clears the anti-lift clip before attempting to place the panel on the bottom track.*



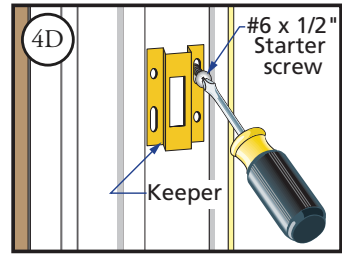
- B. **Adjust the rollers** so that the slide panel runs freely and is parallel to the fixed interlocker. Rotate roller adjustment screws clockwise to raise the panel or counter-clockwise to lower the panel. They are located at the bottom of the slide panel at both ends. Once plumb, adjust the slide panel to the proper height to attain even coverage of the weatherstrip at both the top and bottom as viewed from the exterior.



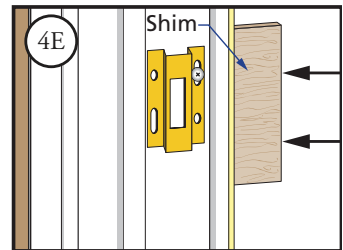
- C. **Position the keeper** by opening the panel a few inches, and extending the lock hook. With a pencil, mark the location on the jamb directly across from the top of the shank. Place the keeper on the jamb so that the top of the slot is aligned with the pencil mark.



D. **Attach the keeper** to the door jamb by inserting a #6 x 1/2" starter screw into each slotted hole of the keeper.

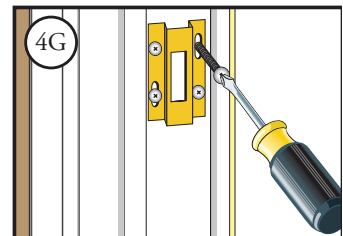


E. **Insert a shim** between the frame jamb and the existing frame at the keeper location.

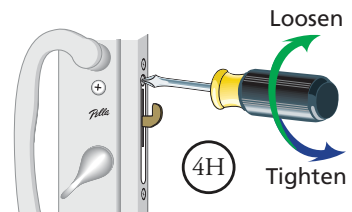


F. **Using a 1/8" drill bit, pre-drill the keeper screw holes** through the new door frame, shims, blocking and the existing aluminum door frame. **DO NOT** drill into the rough opening.

G. **Install the keeper** by inserting 3" long screws (provided) through the keeper holes, the shim and into the rough opening frame members. Remove the starter screw and replace it with a 3" long screw.



H. **Adjust the lock hook** by turning the door lock adjustment screw clockwise to loosen or counter-clockwise to tighten, until the mortise lock is aligned properly, the door locks easily, and there is less than 1/16" movement when the door is locked.



I. **Install the screen** by inserting the top of the screen into the screen pocket located at the exterior head of the patio door. Compress the top rollers just enough to allow the bottom of the screen to be inserted onto the bottom screen track. Adjust the screen rollers by turning the adjustment screw located at the top and bottom until the screen operates smoothly and is plumb and centered from top to bottom. Install the screen keeper if desired.

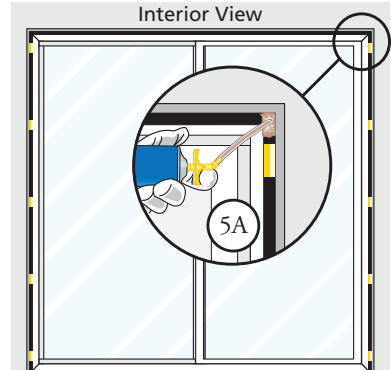


# 5 INTERIOR SEAL

**Caution:** *Ensure use of low pressure polyurethane window and door insulating foams and strictly follow the foam manufacturer's recommendations for application. Use of high pressure foams or improper application of the foam may cause the door frame to bow and hinder operation.*

- A. **Apply insulating foam sealant.** From the interior, insert the nozzle of the applicator approximately 1" deep into the space between the new door and the existing door frame and apply a 1" deep bead of foam at the head and jambs. Ensure the foam sealant at the bottom of the jambs contacts the sill sealant lines. This will allow room for expansion of the foam and will minimize squeeze out. If using insulation foam other than Great Stuff™ Window and Door Insulation Foam by Dow Chemical Company, allow the foam to cure completely (usually 8 to 24 hours) before proceeding to the next step.

**Note:** *It may be necessary to squeeze the end of the tube with pliers to be able to insert into the space between the new door frame and the existing door frame. DO NOT completely fill the space from the back of the flange to the interior face of the door frame.*



- B. **Check door operation** by opening and closing the door.

**Note:** *If the door does not operate correctly, check to make sure it is still plumb, level, square and that the sides are not bowed. If adjustments are required, remove the foam with a serrated knife. Adjust the shims and reapply the insulating foam sealant.*

## CLEANING INSTRUCTIONS

Remove labels and clean the glass, using a soft, clean, grit-free cloth and mild soap or detergent. Be sure to remove all liquid by wiping dry or use a clean squeegee. The vinyl frame may be cleaned as described above. For stubborn dirt, a "non-abrasive" cleaner such as Bon-Ami® or Soft Scrub® may be used. DO NOT use solvents such as mineral spirits, toluene, xylene, naphtha or muriatic acid as they can dull the finish, soften the vinyl and/or cause failure of the insulated unit seal. Keep door tracks clear of dirt and debris. Keep weep holes open and clear of obstructions.

## IMPORTANT NOTICE

Because all construction must anticipate some water infiltration, it is important that the wall system be designed and constructed to properly manage moisture. Pella Corporation is not responsible for claims or damages caused by anticipated and unanticipated water infiltration; deficiencies in building design, construction and maintenance; failure to install Pella® products in accordance with Pella installation instructions; or the use of Pella products in wall systems which do not allow for proper management of moisture within the wall systems. The determination of the suitability of all building components, including the use of Pella products, as well as the design and installation of flashing and sealing systems are the responsibility of the Buyer or User, the architect, contractor, installer, or other construction professional and are not the responsibility of Pella.

Pella products should not be used in barrier wall systems which do not allow for proper management of moisture within the wall systems, such as barrier Exterior Insulation and Finish Systems, (EIFS) (also known as synthetic stucco) or other non-water managed systems. Except in the states of California, New Mexico, Arizona, Nevada, Utah, and Colorado, **Pella makes no warranty of any kind and assumes no responsibility for Pella windows and doors installed in barrier wall systems. In the states listed above, the installation of Pella products in barrier wall or similar systems must be in accordance with Pella installation instructions.**

Product modifications that are not approved by Pella Corporation will void the Limited Warranty.