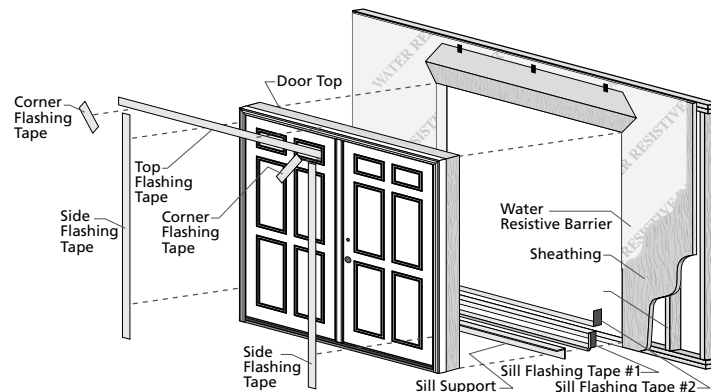




INSTALLATION INSTRUCTION ENTRY DOOR - WOOD DOUBLE DOOR









Always read the Pella® Limited Warranty before purchasing or installing Pella products. 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.pella.com>.



Installation Instructions for Typical Wood Frame Construction.

These instructions were developed and tested for use with typical wood frame wall construction in a wall system designed to manage water. **These instructions are not to be used with any other construction method.** Installation instructions for use with other construction methods may be obtained from Pella® Corporation, a local Pella retailer, or by visiting <http://www.pella.com>. 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.

YOU WILL NEED TO SUPPLY:

- Cedar/impervious shims/spacers (12 to 20) 
- 2" galvanized roofing nails (1/4 lb.) or 2-1/2" decking screws 
- 1 16d nail 
- 10d x 2-1/2" finish nails or 3" screws rated for exterior 
- Closed cell foam backer rod/sealant backer (19 to 30 ft.) 
- Pella® SmartFlash™ foil backed butyl window and door flashing tape or equivalent 
- 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. 
- High quality exterior grade polyurethane sealant (2 to 3 tubes per door) 
- Pella aluminum sill support or 2 x 4 wood blocking
- Interior trim and/or jamb extensions (20 to 40 ft.)
- Aluminum head flashing (wood doors only)

TOOLS REQUIRED:

- Tape measure 
- 6' Level 
- Square 
- Drill 
- Stapler 
- Scissors or utility knife 
- Screwdrivers (#2 Phillips & small flat blade) 
- Hammer 
- Sealant gun 

Installation will require two or more persons for safety reasons.

REMEMBER TO USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.

1 ROUGH OPENING PREPARATION

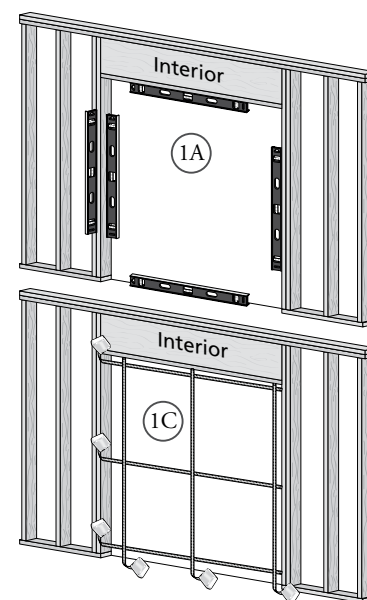
A. Verify the opening is plumb and level.

Note: It is critical that the bottom is level.

B. Determine the finished floor height. If the finished floor height will be more than 1" higher than the surface the door will be set on, add a filler board under the sill. The top of the filler board should be within 1" of the finished floor height.

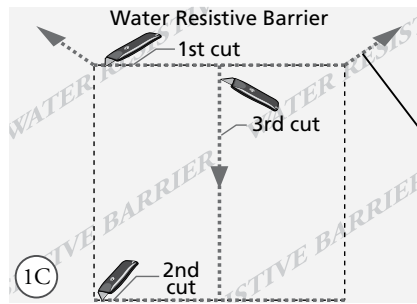
C. Verify the door will fit the opening. Measure all four sides of the opening to make sure it is 3/4" larger than the door in width and 1/2" larger in height. Measure the opening width in several places to ensure the studs are not bowed (1C).

Note: 1-1/2" or more of solid wood blocking (studs) is required around the perimeter of the opening. Fix any problems with the rough opening before proceeding.

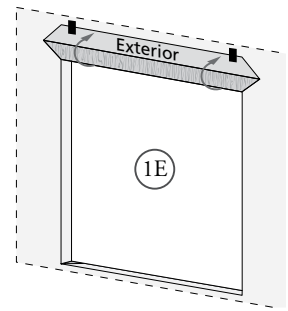


D. **Cut the water resistive barrier, if applicable** (1D).

E. **Fold the water resistive barrier** (1E). Fold side and bottom flaps into the opening and staple to inside wall. Fold top flap up and temporarily fasten with flashing tape.



4th cut: Make a 6" cut up from each top corner at a 45° angle to allow the water resistive barrier to be lapped over the fin at the head of the door.



F. **Apply sill flashing tape #1.** Cut a piece of flashing tape 12" longer than the opening width. Apply at the bottom of the opening as shown (1F) so it overhangs 1" to the exterior.

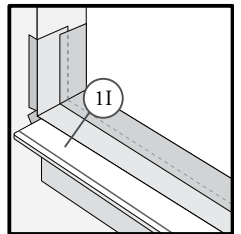
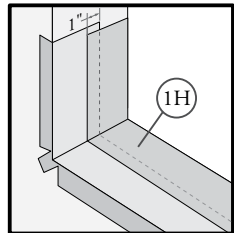
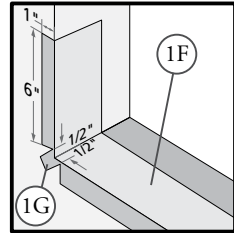
Note: The tape is cut 12" longer than the width so that it will extend 6" up each side of the opening.

G. **Tab the sill flashing tape and fold.** Cut 1" wide tabs at each corner (1/2" from each side of corner) (1G). Fold tape to the exterior and press firmly to adhere it to the water resistive barrier.

H. **Apply sill flashing tape #2.** Cut a piece of flashing tape 12" longer than the opening width. Apply at the bottom, overlapping tape #1 by at least 1". Do not allow the tape to extend past the interior face of the framing (1H). If the wall depth is greater than 5", add a third piece of flashing tape. The flashing tape should come to within 1" of the interior face of the framing.

Note: The flashing tape does not need to extend all the way to the interior of the framing.

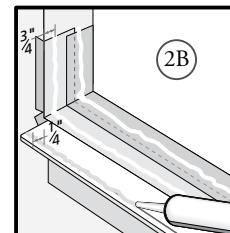
I. **When required for adequate sill support,** attach the optional aluminum sill support or wood blocking to the exterior of the box plate to support the edge of the door sill (1I). Place the sill support flush with the subfloor.



2 SETTING AND FASTENING THE DOOR

A. **Remove packaging from door frame.**

B. **Place three 3/8" beads of sealant along the bottom of the opening.** The first bead should be approximately 3/4" from the exterior of the rough opening (2B). The second bead should be placed so it is under the wood interior threshold of the door. Place a third bead of sealant in the groove of the sill support or 1/4" from the exterior edge of the wood blocking.



TWO OR MORE PEOPLE WILL BE REQUIRED FOR THE FOLLOWING STEPS

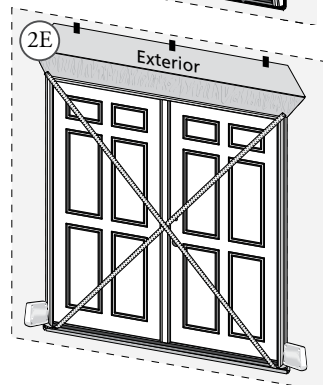
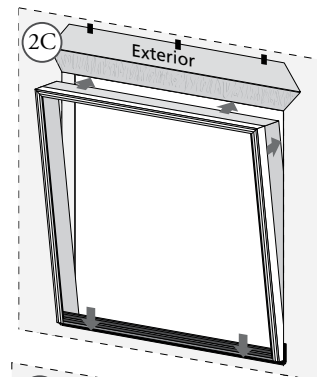
C. **Insert the door frame from the exterior of the building.** DO NOT slide the bottom of the door into the opening (2C). (Sliding will damage the sealant lines.) Place the bottom of the door at the bottom of the opening, then tilt the top into position. Center the door between the sides of the opening to allow clearance for shimming. Insert one 10d finish nail or 3" screw through each hinge jamb into the structural framing near the mid point door frame jamb.

Note: The nails/screws are used to hold the door in place while shimming it plumb and square. Pre-drilling is recommended when using screws.

D. **Install door panels.** Align the hinge knuckles of the hinge leaves attached to the panel and frame; insert the hinge pin fully. Secure the inactive panel in the frame by engaging the top and bottom flush bolts.

E. **Plumb and square door.** Place shims at each hinge location between the door and the sides of the opening. Insert shims in other locations as needed starting up 6" from the bottom of the door to square it in the opening (2E). On double doors, make sure that panels are even across the top and bottom and that the reveal between the active and inactive panels are even.

Note: DO NOT over shim. (DO NOT bow the jambs inward.)



F. **Insert a long screw (provided) into the open hole in the top hinge on both jambs.** Make sure the screw passes through the shims and into the structural framing.

G. **Check for even contact between** active door panel and weatherstrip on the astragal and the head jamb. If space exists between the weatherstrip and door panel at top, shift the bottom of the jamb out. If space exists at the bottom, shift the top of the jamb out.

Note: Astragal weatherstrip should meet the door from top to bottom.

H. **Place shims at the top of the door frame** near the center strike plate. Secure the shims by inserting a 16d galvanized finish nail into the upper door frame through the shims and into the structural framing.

I. **On the remaining hinges insert a long screw** (provided) into the open screw hole. Make sure that the screw passes through the shims and into the structural framing.

J. **Fasten the door to opening.** Fasten the frame through the jamb and the shims to the rough opening using 10d finish nails or 3" screws, (three places per side on 6' 8" doors, four on 8' 0" doors).

Note: Pre-drilling holes in the frame is recommended when using screws to fasten the door to the opening.

K. **Install flushbolt strike plates.** Mark on the sill cap and head jamb where the flushbolts will engage (tip: coloring the end of the flushbolt with a lead pencil and extending it may help). Drill a 5/16" hole through the head jamb and sill cap. Align the strike plates and mark the screw locations. Pre-drill the screw holes with a 1/16" bit, and install the strikes using the screws provided.

L. **Install adhesive corner seal pads** at the bottom of each frame jamb, and the bottom of the astragal. Remove the release paper from the back of the corner seal pad and tuck the raised fin under the door weatherstrip. Position the pad so that it contacts the door sill at the jambs and on the astragal. Make sure the bottom edge of the pad is even with the bottom edge of the astragal. Press firmly on the pad to adhere it to the door frame or astragal.

M. **Check door operation. Open and close the door to check for proper operation.**

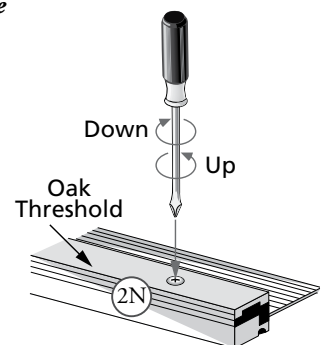
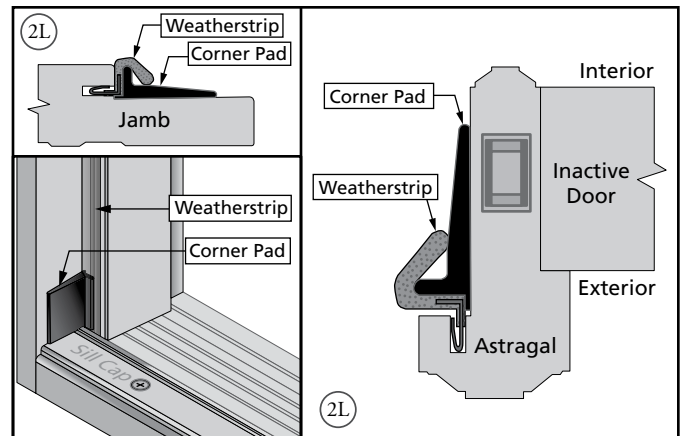
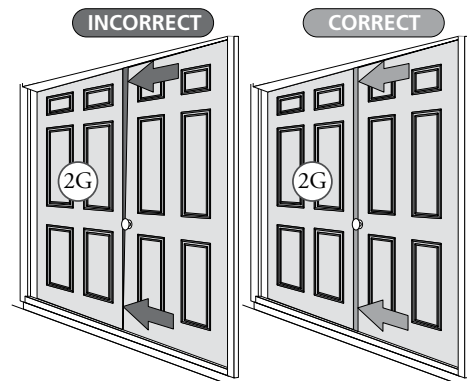
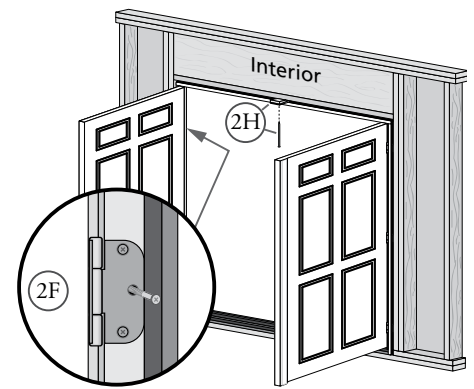
Note: If there are any problems with the operation, recheck and adjust the reveal. Plastic "E" shaped hinge shims may be placed behind the hinge leaves to adjust the reveal between the door panel and door frame.

N. **If needed, the height of the threshold can be adjusted** to achieve appropriate contact with the door sweep(s). Using a #3 Phillips screwdriver, turn the adjustment screws clockwise to lower the threshold and counter clockwise to raise the threshold.

O. **Install the handle and lock.** Refer to the manufacturer's instruction included with the hardware.

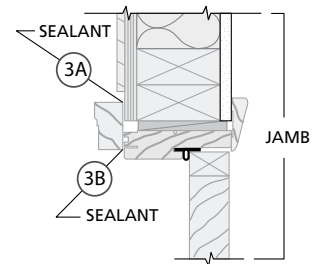
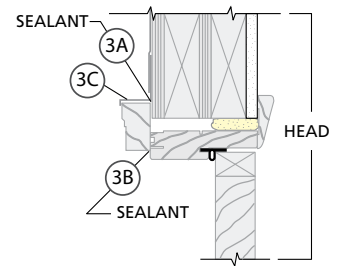
P. **Cut and apply brickmould (if needed).** Cut the brickmould to the desired length using 45 degree miter cuts on the top and side pieces. The brickmould should overhang the exterior frame edge by approximately 1-1/4" for optimum reveal. Attach exterior brickmould to the door frame with 1-1/4" galvanized finish nails, placing them 1" from each end and approximately every 12".

Note: The brickmould for square-top units is packaged separately to avoid damage in shipping and for easy application on the job site.



3 INTEGRATING THE DOOR TO THE WATER RESISTIVE BARRIER

- A. Place a corner bead of sealant between the brickmould and the exterior wall.
- B. Place a bead of sealant at the point the brickmould attaches to the door frame.
- C. Install aluminum flashing over the top of the head brickmould. Seal both ends of the flashing to the top brickmould and the wall.
- D. Install top flashing tape. Cut one piece of flashing tape 2" wider than the width of the top brickmould. Apply the top flashing tape so that it extends 1" beyond the end of the top brickmould. Position the tape so that it covers the vertical leg of the aluminum flashing and laps onto the sheathing above the door.
- E. Fold down the top flap of the water resistive barrier. Cut the barrier so it covers the vertical leg of the aluminum flashing, however does not lap onto the horizontal leg of the flashing.
- F. Apply flashing tape to the diagonal cuts. Cut pieces of flashing tape at least 1" longer than the diagonal cut in the water resistive barrier. Apply the tape covering the entire diagonal cut at both upper corners of the door. Press the tape down firmly.



4 INTERIOR SEAL

Caution: Ensure use of low pressure polyurethane window and door insulation 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 to bow and hinder operation.

- A. Apply insulating foam. From the interior, insert the nozzle of the applicator approximately 1" deep into the space between the door and the rough opening and apply a 1" deep bead of foam. This will allow room for expansion of the foam and will minimize squeeze out. If using insulating foam other than Great Stuff™ Window and Door Insulation Foam by the Dow Chemical Company, allow the foam to cure completely (usually 8 to 24 hours) before proceeding to the next step.

Note: DO NOT completely fill the space from the back of the brickmould to the interior face of the opening. Over filling the space may cause the door frame to bow.

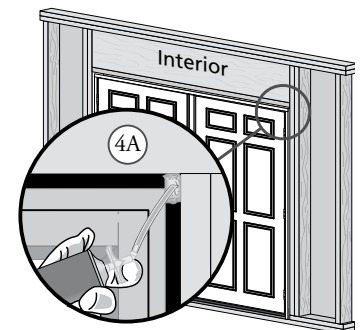
- B. Check the door operation by opening and closing the door.

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.

- C. Replace the short screws that hold the flushbolt strike plates (top and bottom) with the 2-1/4" screws provided.

Caution: DO NOT bow the frame head or threshold when installing the screws.

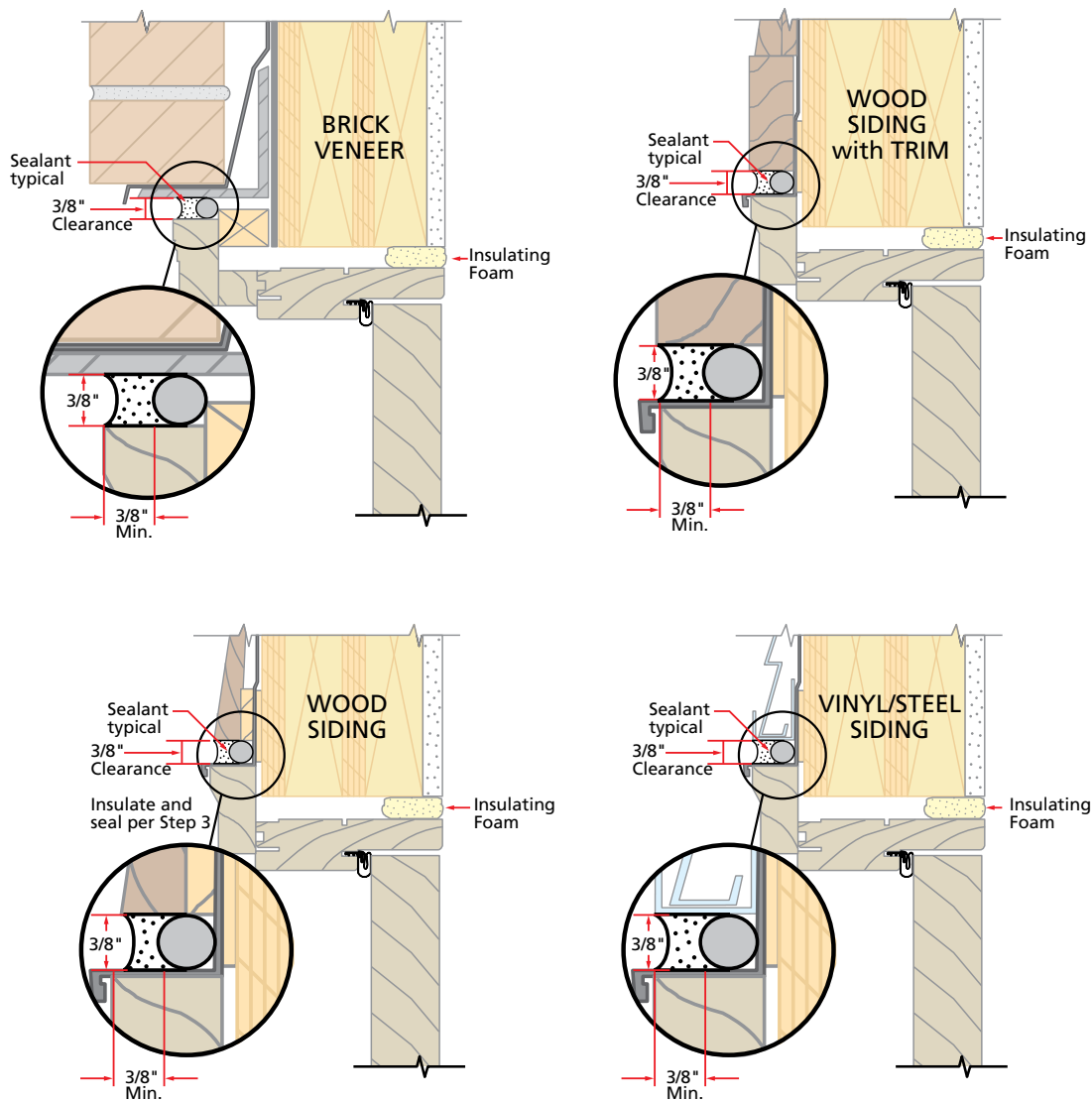
- D. Apply interior trim as desired.



5 SEALING THE DOOR TO THE EXTERIOR WALL CLADDING

When applying siding, brick veneer or other exterior finish materials, leave adequate space between the door frame and the material for sealant. Refer to the illustration that corresponds to your finish material.

Note: The sealant details shown are standard recommendations from the sealant industry. Contact your sealant supplier for recommendations and instructions for these and any other applications.



A. Insert backer rod into the space around the door as deep as it will go. This should provide at least a 3/8" clearance between the backer rod and the brickmould (5A).

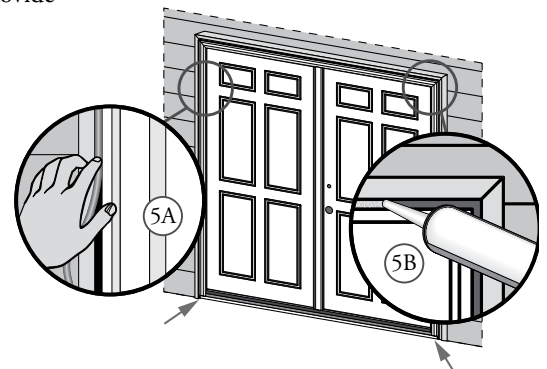
Note: Backer rod adds shape and depth for the sealant line.

B. Apply a bead of high quality exterior grade sealant to the entire perimeter of the door. At each end of the bottom of the door, insert sealant into the spaces between the bottom of the door and the sill and connect it to the perimeter sealant.

C. Apply a bead of sealant between the exterior edge of the sill and the sill support.

D. Shape, tool and clean excess sealant.

Note: This method creates a more flexible sealant line capable of expanding and contracting.



FINISHING INSTRUCTIONS

Note: DO NOT paint, stain or finish weatherstrip or vinyl parts! If paint, stain or finish gets on the mohair weatherstripping, wipe it off immediately with a damp cloth. To maintain proper product performance, do not remove weatherstrips or foam corner seal wedges. Air and water leakage may result if these factory-installed items are removed. After finishing, allow doors to dry completely before closing them. Pella will not be responsible for finishing imperfections. The use of unapproved finishes, solvents or cleaning chemicals may cause adverse reactions with door materials. Pella will not be responsible for problems caused by the use of unapproved materials. If in doubt, contact your local retailer or representative.

Use of inappropriate finishes, solvents, brickwash or cleaning chemicals will cause adverse actions with door materials and voids the Limited Warranty.

Door must be finished prior to or immediately after installation to help prevent damage caused by the elements. All exposed surfaces, including the top, side edges and cutouts for hardware must be finished and sealed equally to ensure lasting performance.

Apply stain (if desired) and three (3) coats of exterior grade clear coat of polyurethane or equivalent finish, with UV inhibitors. Sand before staining and between finish coats with a fine-grit sandpaper.

Exposure to the sun will break down the door's finish. Inspect the exterior finish at least once a year, evaluating the exterior finish by comparing it to the interior finish. If the exterior finish appears to have lost its gloss compared to the interior, apply a new top coat to the exterior of the door.

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's 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 to 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 on 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's installation instructions.**

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