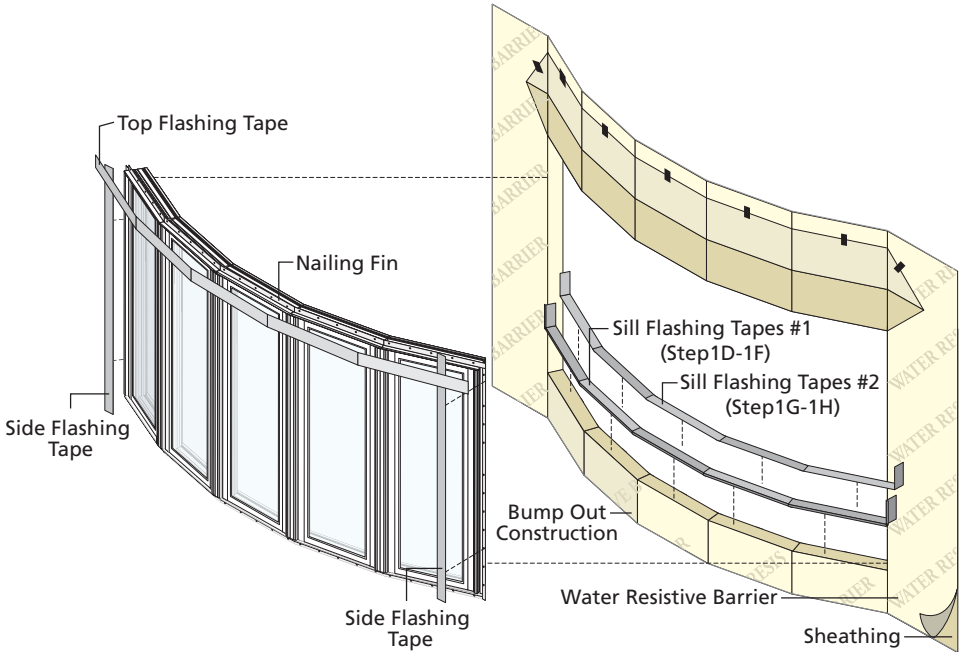


## INSTALLATION INSTRUCTION - INSTRUCCIONES DE INSTALACIÓN FOR BOW WINDOWS WITHOUT HEAD AND SEAT BOARD

*Note: These instruction may be used for Vinyl Pella Bow windows that do not have a seat board and/or head board.*

*Read these instructions thoroughly before performing any steps.*



*Note: 5 Unit Bow is shown; process is the same for 3 and 4 wide bow units.*






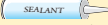



Always read the Vinyl Window and Door Limited Warranty before purchasing or installing Vinyl Windows and Doors manufactured by Pella Corporation. By installing this product, you are acknowledging that this Limited Warranty is part of the terms of the sale. Failure to comply with all Pella installation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








*Note: These instructions may be used for vinyl Pella bow windows that do not have a seat board and/or head board.*

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, or multiple units, 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 or Impervious shims/spacers (12 to 20) 
- #8 x 3" corrosion resistant flat head screws (10 to 20 per bow) 
- 2" galvanized roofing nails (1/4 lb.) 
- Closed cell foam backer rod/sealant backer (20 to 35 ft.) 
- Pella® SmartFlash™ foil backed butyl window and door flashing tape or equivalent 
- High quality exterior grade polyurethane or silicone sealant (1 tube per window) 
- 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 
- Jamb covers (2)
- Interior trim and/or jamb extensions (25 to 40 ft.)
- 2" x 6" Wood (2) long enough for each jamb

## TOOLS REQUIRED:

- Tape measure 
- Level 
- Square 
- Hammer 
- Stapler 
- Sealant gun 
- Scissors or utility knife 
- Table saw
- Chop saw

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.*

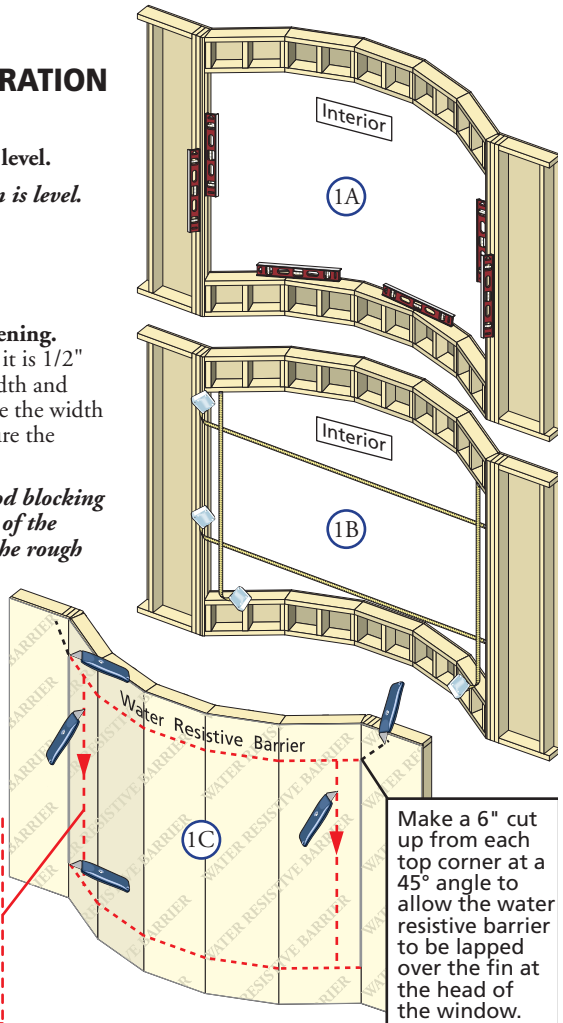
## B. Verify the window will fit the opening.

Measure the opening to make sure it is 1/2" larger than the window in both width and height. On larger openings measure the width and height in several places to ensure the header or studs are not bowed.

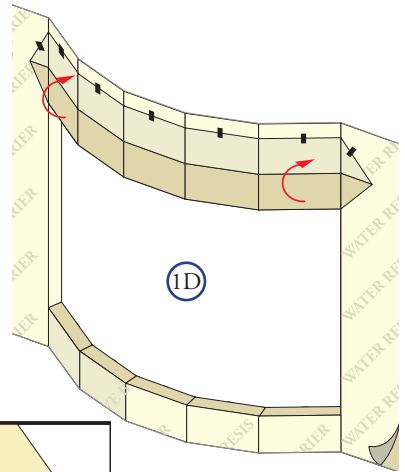
*Note: 1-1/2" or more of solid wood blocking is required around the perimeter of the opening. Fix any problems with the rough opening before proceeding.*

## C. Cut the water resistive barrier.

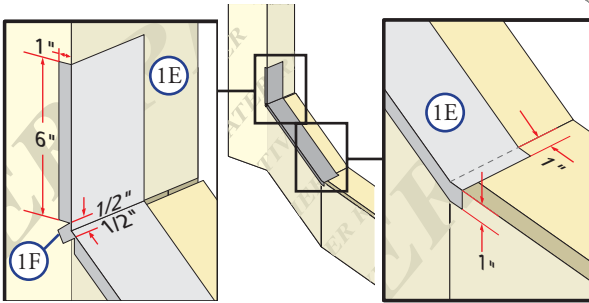
When cutting at the jambs, make allowance for the water resistive barrier to be folded into the opening and stapled to the inside wall.



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

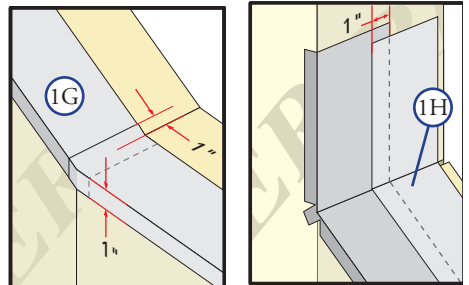


E. **Apply sill flashing tapes #1.** Starting with the flashing tape for one sill end, cut a piece 8" longer than the end unit width. Apply at the bottom of the opening so it extends 6" up the side, overhanging 1" to the exterior and laps over approximately 1" onto the sill section for the next unit as shown. Repeat this step for the other sill end.



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

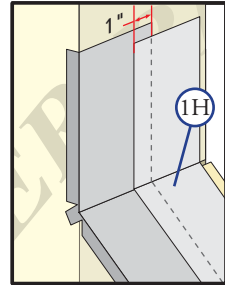
G. **Cut the remaining sill flashing tapes #1.** Cut the flashing tape 2" longer than the sill section for the next unit. Apply at the bottom of the opening so it overhangs 1" to the exterior and laps over approximately 1" onto the sill section for the previous and next unit.



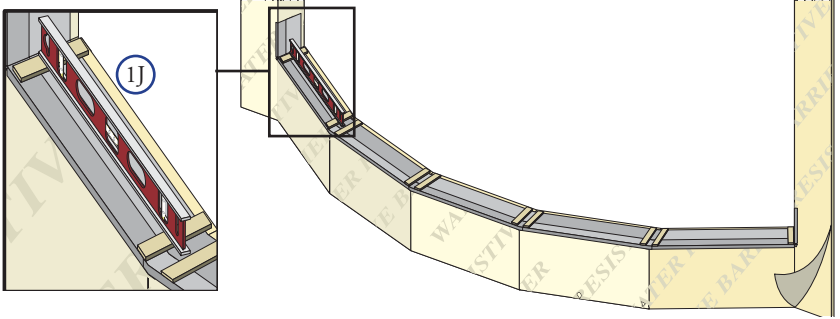
H. **Apply sill flashing tapes #2.** Starting with the flashing tape for one sill end, cut a piece 8" longer than the end unit width. Apply at the bottom of the opening so it extends 6" up the side, overlapping tape #1 by at least 1" and laps over approximately 1" onto the sill section for the next unit as shown. DO NOT allow the tape to extend past the interior face of the framing. Repeat this step for the other sill end.

*Note: The flashing tape may not fully cover the framing members.*

I. **Cut the remaining sill flashing tapes #2.** Cut the flashing tape 2" longer than the sill section for the next unit. Apply at the bottom, overlapping tape #1 by at least 1" and lapping over approximately 1" onto the sill section for the previous and next unit.



- J. **Install and level sill spacers.** Place 1" wide by 1/4" thick spacers on the bottom of the opening 1/2" from each side and at each section of the sill where the unit jambs will set. Add shims to ensure the spacers are level. Once level, attach spacers and shims to the opening to prevent movement.

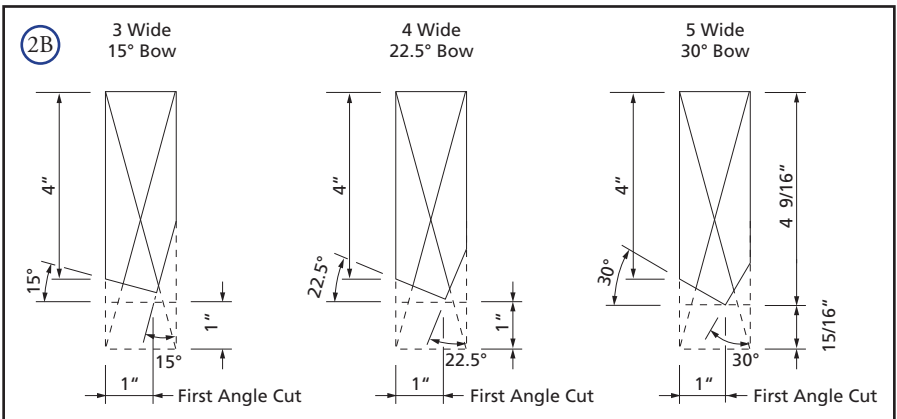


- K. **Remove plastic wrap, plywood, blocking and handles from window.** DO NOT unlock or open the windows until it is shimmed square and plumb in the opening.

*Note: If screens, grilles or hardware are removed from the unit at this time, label them and store them in a protected area.*

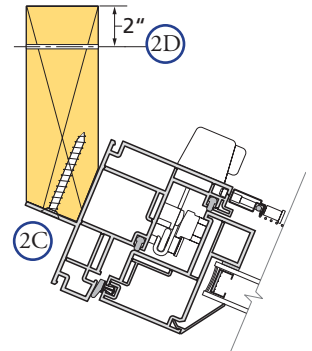
## 2 PREPPING THE WINDOW

- A. **Cut two 2" x 6" boards** to a length of the height of the rough opening minus 1/2".
- B. **Cut the profile on each board** as shown in the diagram based on the bow unit being used.



- C. **Place the board firmly against the jamb fin (use clamps if needed) and attach with screws** through the pre-punched holes in the fin. Attach the other 2" x 6" on the other jamb in the same manner.

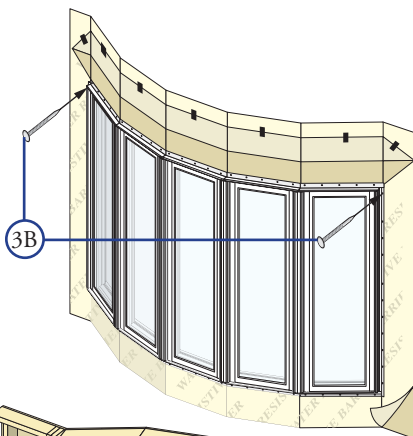
- D. **Drill 1/8" diameter clearance holes** through each jamb board. Place the clearance holes 2" from the interior edge of the board, 4" from each end and 12" on center.



# 3 SETTING THE WINDOW

*TWO OR MORE PEOPLE WILL BE REQUIRED FOR THE FOLLOWING STEPS.*

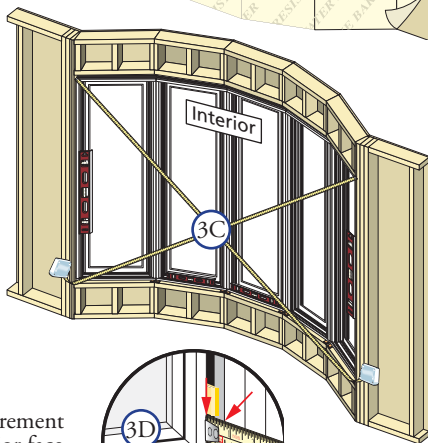
- A. **Insert the window from the exterior of the building.** Place the bottom of the window at the bottom of the opening and slide into position. Center the window between the sides of the opening to allow clearance for shimming.



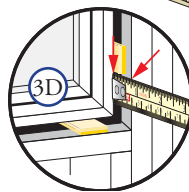
- B. **Insert one roofing nail in the first hole** from the corner of each end of the top nailing fin of the two outside windows. These nails are used to hold the window in place while shimming plumb and square.

- C. **Plumb and square window.** Place shims 1" from the bottom and top of the window between the window and the sides of the opening. Adjust the shims as required to plumb and square the window in the opening. Place shims at the midpoint of the window sides.

*Note: DO NOT shim above the windows or in the space between the spacers at the bottom of the windows.*



- D. **Check the interior reveal.** Make sure the measurement from the interior face of the window to the interior face of the wall is equal at several points around the window.

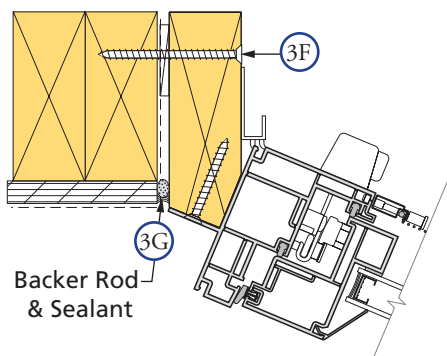


- E. **Check window operation (vent units only).** Unlock the window by lifting the lock handle up. Open the window by rotating the crank handle. Open and close the window a few times to check for proper operation. Close and lock the window.

*Note: If there are any problems with the operation of the window, recheck shim locations and adjust for plumb and square.*

- F. **Fasten the window to opening** by driving 2" galvanized roofing nails into each pre-punched hole in the top and nailing fin. Make sure there are shims at each clearance hole location. Drive a #8 x 3" corrosion resistant flat head screw through each clearance hole in each jamb.

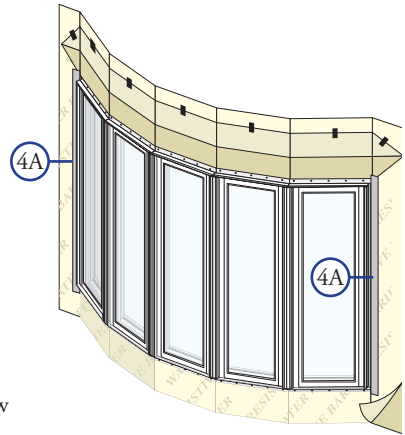
*Note: Make sure the fin corner is lying as flat as possible.*



- G. **At each jamb, insert backer rod** in the space between the rough opening and the bow approximately 3/8" deep. Apply a bead of high quality exterior grade sealant over the backer rod.

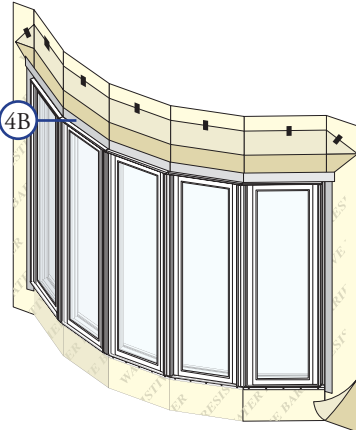
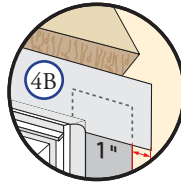
# 4 INTEGRATING THE WINDOW TO THE WATER RESISTIVE BARRIER

- A. **Apply side flashing tape.** Cut two pieces of flashing tape 4" longer than the frame height of the window. Apply one piece to each side over the nailing fin and onto the water resistive barrier. The tape should extend 2" above the top of the window and 2" below the bottom of the window. Press the tape down firmly.



- B. **Apply top flashing tape.** Cut a piece of flashing tape long enough to go across the top of the window and extend at least 1" past the side flashing tape on both sides. Apply the tape over the top nailing fin as shown. Press the tape down firmly.

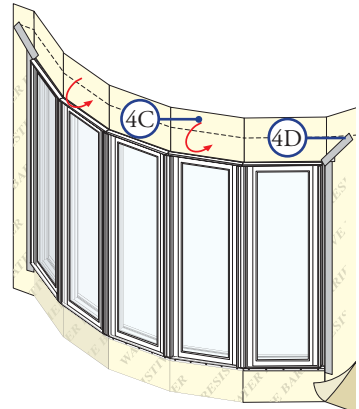
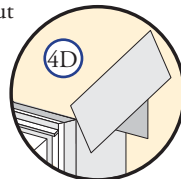
*Note: DO NOT tape or seal the bottom nailing fin.*



- C. **Fold down the top flap** of the water resistive barrier.

- D. **Apply flashing to the diagonal cuts.** Cut pieces of flashing tape at least 1" longer than the diagonal cuts in the water resistive barrier. Apply the tape, covering the entire diagonal cut in the water resistive barrier at both upper corners of the window. Press the tape down firmly.

*Note: Be sure to overlap the top corners.*

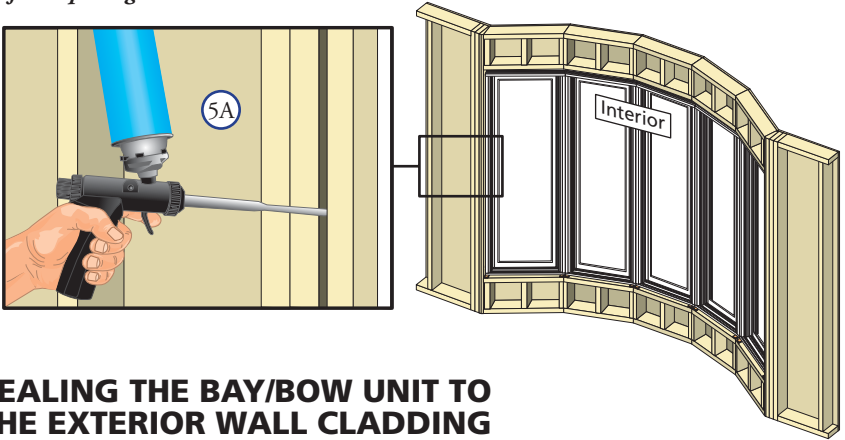


# 5 INSULATING FOAM APPLICATION

**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 window 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 window 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 foam other than Great Stuff™ Window and Door Insulating Foam Sealant 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 fin to the interior face of the opening.



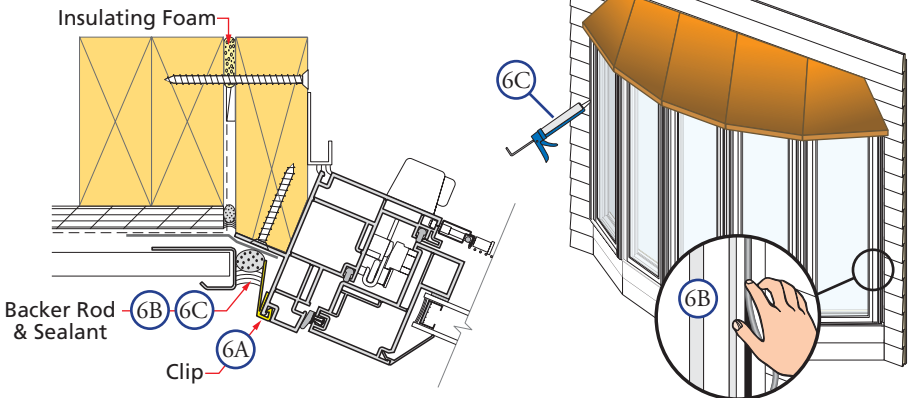
# 6 SEALING THE BAY/BOW UNIT TO THE EXTERIOR WALL CLADDING

**When applying siding, brick veneer or other exterior finish material, leave adequate space between the window frame and the material for sealant.**

- A. **Install clips** into the jamb accessory grooves.
- B. **Insert backer rod into the space around the window** so there is approximately 3/8" clearance between the backer rod and the exterior face of the window.

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

- C. **Apply a bead of high quality exterior grade sealant** to the entire perimeter of the window.



D. **Shape, tool and clean excess sealant.** When finished, the sealant should be the shape of an hourglass.

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

E. **Install roofing material** per the manufacturer's instructions.

## 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 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'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 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.