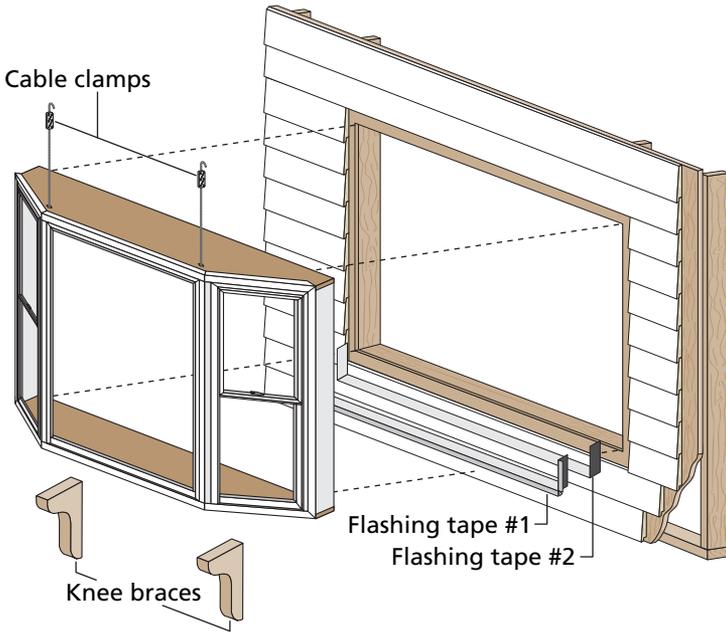


**INSTALLATION INSTRUCTION - INSTRUCCIONES DE INSTALACIÓN
FOR REPLACEMENT BAY AND BOW WINDOW
WITH SEAT BOARD**



Read these instructions thoroughly before performing any steps.



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 bay and bow windows that have a head and seat board. Support cables are installed in factory assembled bay and bow combinations.

Caution: The factory-installed support cables must be attached to members capable of supporting 1,300 lbs. If the members are not capable of supporting 1,300 lbs., knee braces must be used in addition to the cables. Bay and bow units are not intended to support any roof structure. Consult an architect, engineer or construction professional if the ability of the members to support the bay or bow is not known.

Installation Instructions for Typical Wood Frame Construction or Concrete Block.

These instructions were developed and tested for use with typical wood frame wall construction in a wall system designed to manage water. Installation instructions for use with other construction methods, multiple units or bow and bay windows, 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 shims/spacers (12 to 20) 
- #8 x 2-1/2" flat head corrosion resistant wood screws (16 to 20) 
- 3/16" x 2-1/2" concrete screws (for masonry installation)
- Closed cell foam backer rod/sealant backer (12 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 or silicone sealant (1 tube per window) 

TOOLS REQUIRED:

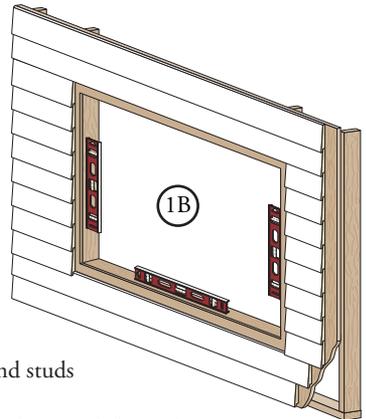
- Tape measure 
- Level 
- Square 
- Hammer 
- Stapler 
- Scissors or utility knife 
- Drill with a #2 Phillips and #3 square drive bit 
- 1/2" open end wrench 
- 3/16" wrench or socket 
- Sealant Gun 

Installation will require two or more persons for safety reasons.

REMEMBER TO USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.

1 ROUGH OPENING PREPARATION

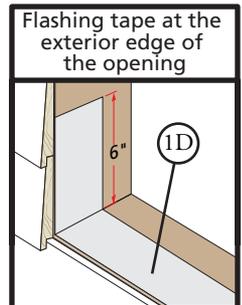
- Remove** the existing trim, window, insulation and sealant from the opening.
- Confirm** the opening is plumb and level.
Note: It is critical the bottom is level.
- Confirm the window will fit the opening.** Measure all four sides of the opening to make sure it is 1/2" larger than the window in both width and height. Measure the width and height in several places to ensure the header and studs are not bowed.



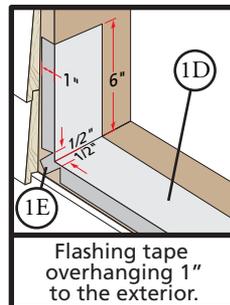
Note: 1-1/2" or more of solid wood blocking is required around the perimeter of the opening. Fix any problems with the opening before proceeding. If installing new blocking, install the blocking so it's flush with the exterior sheathing of the house. DO NOT attempt to install a window in an under size opening.

- Apply sill flashing tape #1.** (Wood wall construction only). Cut a piece of flashing tape 12" longer than the opening. Apply it at the bottom up to the exterior edge of the opening as shown. If the sheathing or water barrier is exposed, apply at the bottom, overlapping as shown (1D) so it overhangs 1" to the exterior.

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



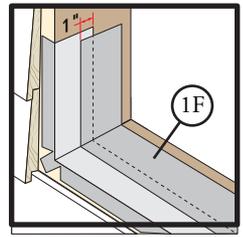
- Tab the sill flashing tape and fold** (If tape #1 overhangs 1" to the exterior). Cut 1" wide tabs at each corner (1/2" from each side of the corner) (1E). Fold tape to the exterior and press firmly to adhere it to the water resistive barrier.



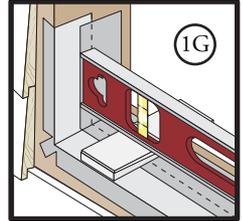
Flashing tape overhanging 1" to the exterior.

- F. **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 opening.

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



- G. **Install and level sill spacers.** Place 1" wide by 1/4" thick spacers on the bottom of the opening 1/4" from each side. Add shims as necessary to ensure the spacers are level. Once level, attach spacers and shims to prevent movement.

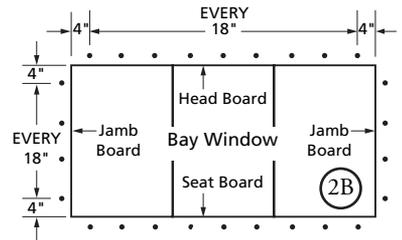


2 PREPARING AND SETTING THE WINDOW

TWO OR MORE PEOPLE WILL BE REQUIRED FOR THE FOLLOWING STEPS

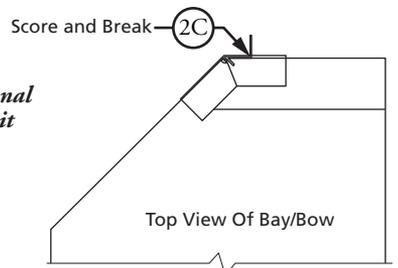
- A. **Remove all packaging from the window,** including the wooden shipping gussets. The hung sashes of the window may be removed to make the window easier to handle.

- B. **Drill 1/8" diameter installation holes** 2" from the interior edges of the head board, seat board, and jamb boards. Holes should be placed 4" from each end and no more than 18" on center.



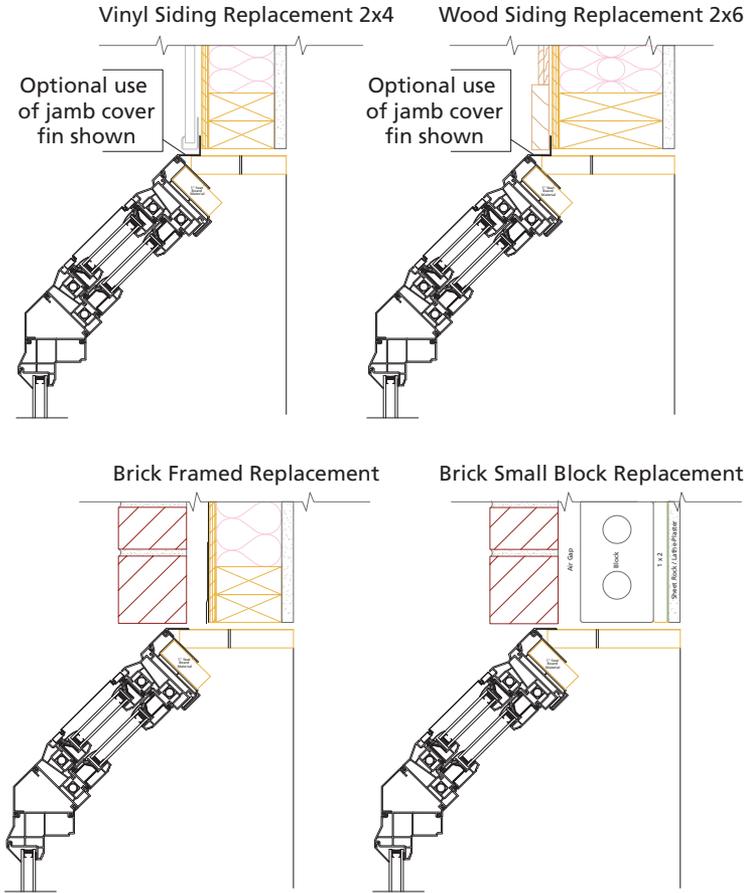
- C. **If jamb return fin must be removed** to fit installation, score the fin along the inside corner with a utility knife and break off.

Note: The jamb cover fin may be used as an optional installation if siding materials will accommodate it (brickmould, vinyl j-channel, etc.).



D. **Insert the window** from the interior or exterior of the building (exterior only if using jamb cover fin). Place the seat of the window at the bottom of the opening and slide the top into position. Center the window between the sides of the opening to allow clearance for shimming. Set the window in the opening as shown.

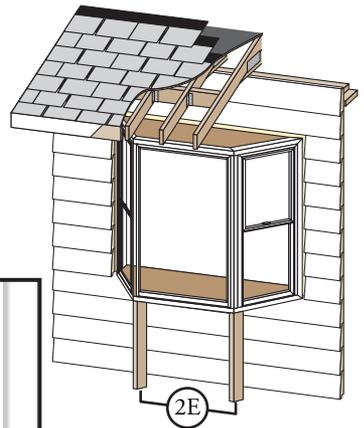
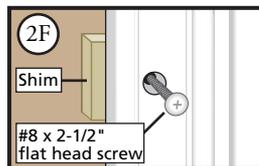
Note: Common installation conditions shown in diagrams below.



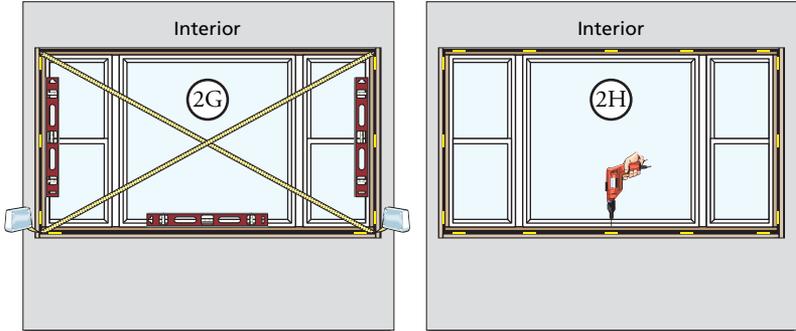
Note: If cross bracing is required for soffit installation of the cable systems, proceed to Step 3A and install cross bracing before unit is inserted into the rough opening.

E. **Place temporary bracing** under the seat of the window to raise the unit level.

F. **Place a shim** near the top of one jamb board, in line with the top pre-drilled holes in the jamb board. Partially insert a #8 x 2-1/2" flat head screw (not provided). Repeat for the other jamb.



- G. Continue placing shims at each pre-drilled installation screw hole in jamb boards as needed to plumb and square the window. Check window for squareness by making sure diagonal measurement for corner to corner is within 1/8" in both directions. Insert a #8 x 2-1/2" flat head wood screw into each pre-drilled hole in the jamb boards. Finish inserting the top screw in each jamb board.

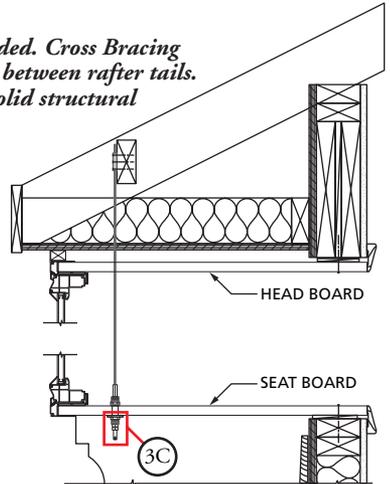
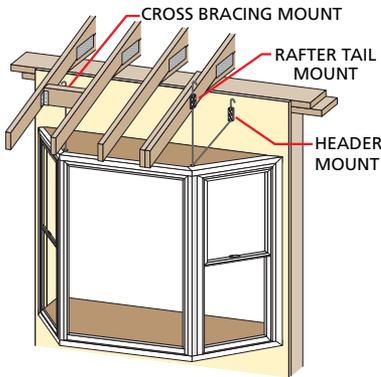


- G. Place shims between the head and seat boards at each pre-drilled installation screw hole, and install a #8 x 2-1/2" flat head wood screw in each hole.

3 CABLE CLAMP INSTALLATION

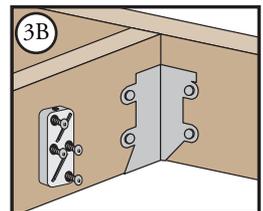
Install Cable Clamps based on type of installation needed. Cross Bracing Installation consists of attaching 2" x 6" cross bracing between rafter tails. Header Mount Installation consists of attaching to a solid structural member - header, sill plates or wall stud.

CROSS BRACING MOUNT OF CABLE CLAMPS

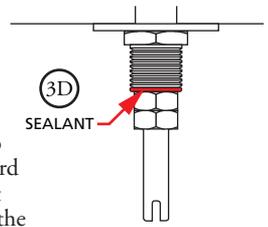


- Install 2" x 6" cross braces between rafter tails, directly above the cable holes in the bay/bow head board.
- Install the cable clamps directly above the "T" nuts where adequate support is available. Holding the clamp parallel to the up-running cable, drive the #12 x 3-1/4" square screws part way into the mounting surface using a #3 square drive bit.
- Run the cable up through the bottom of the cable clamp. Hold the cable up tight above the clamp and drive the two center clamp screws all the way in, locking the cable in place. Drive the remaining #12 x 3-1/4" square screws all the way.

Note: Make sure all four screws are driven in at maximum torque. Additional tensioning may be done with the nuts on the opposite end of the cable at the bottom of the bay/bow unit.



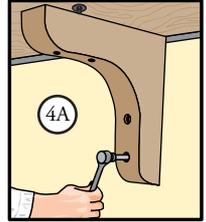
D. **Apply sealant** to where the cable goes through the bottom of the hex bushing, before tightening the two nuts.



E. **Installation of knee braces is recommended** to help support the weight of the bay/bow unit. Weight calculations must take into account the weight of the items that may be placed on the seat board of the unit. Knee braces are required if more than 800 pounds (not including the weight of the window) will need to be supported by the window seat board.

4 LIMITED OVERHEAD CLEARANCE INSTALLATION

A. If there is not adequate clearance for the overhead cable installation, knee braces **MUST** be installed for additional support.



5 FASTENING THE WINDOW

A. **Tighten the top hex nut on both cable ends.** Using a 3/16" wrench or socket, hold the cable end in position while tightening the top hex nut with a 1/2" wrench or socket. This will keep the cable from twisting as the hex nuts are tightened with a wrench.

B. **Remove the temporary bracing.** Check the window for level, plumb, sash reveal and operation. Readjust, if needed.

Note: Be sure to use the temporary support when readjusting the nuts.

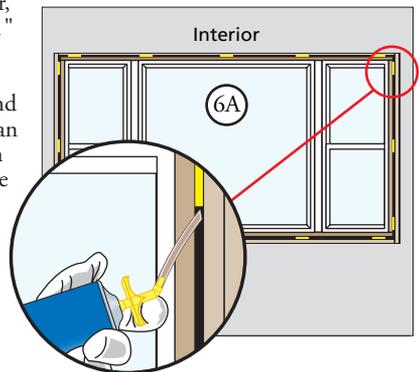
C. **Tighten the locking (bottom) nut on both cable ends** and remove the temporary support once the final position is found. **DO NOT** cut the threaded end off the cable as this will prevent future adjustment should it be needed.

6 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 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: It may be necessary to squeeze the end of the tube with pliers to be able to insert into the space between the jamb boards and the rough opening, and between the bead and seat board and the rough opening.

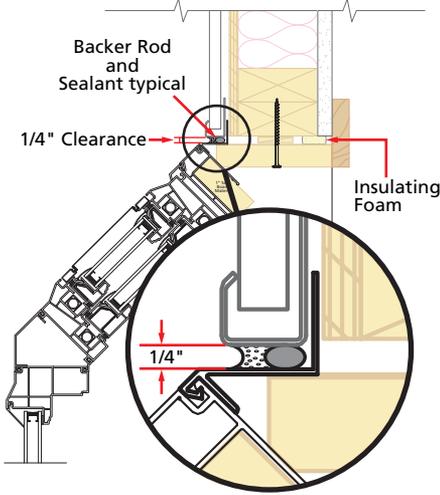


7 SEALING THE WINDOW TO THE EXTERIOR WALL CLADDING

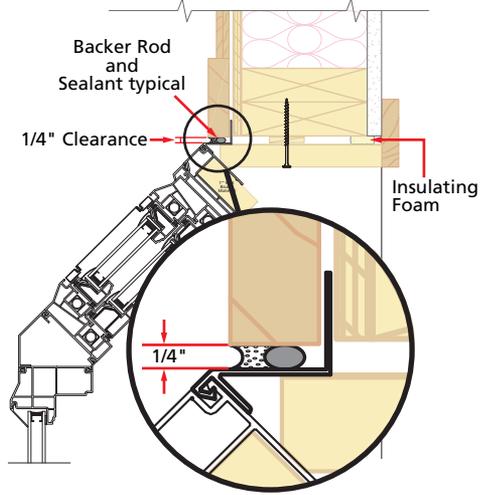
When applying siding, brick veneer or other exterior finish material, leave adequate space between the window frame and the material for sealant. Refer to the illustration that corresponds to your finish material.

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.

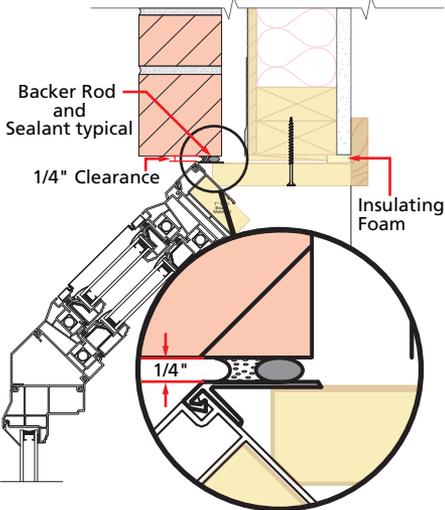
VINYL SIDING REPLACEMENT 2X4



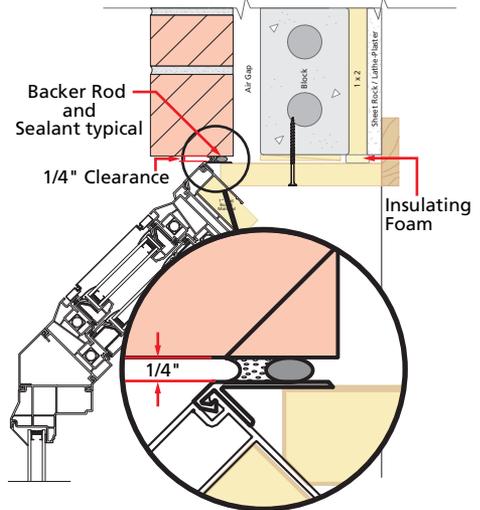
WOOD SIDING REPLACEMENT 2X6



BRICK FRAMED REPLACEMENT



BRICK SMALL BLOCK REPLACEMENT



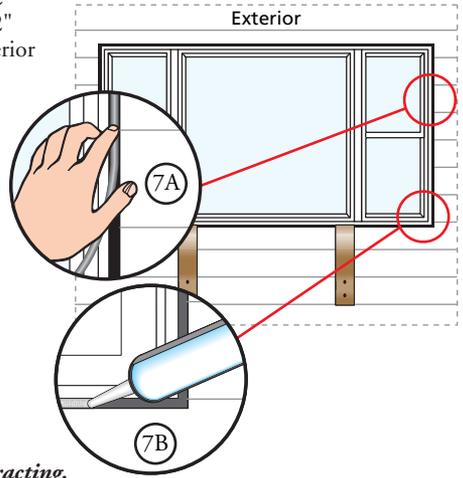
- A. **Insert backer rod into the space around the window** deep enough to provide at least a 1/2" clearance between the backer rod and the exterior face of the wall sheathing.

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

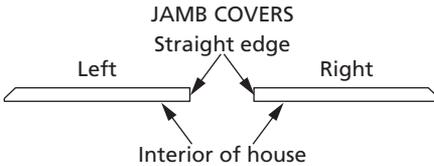
- B. **Apply a bead of high quality exterior grade sealant** to the entire perimeter of the window.

- C. **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.



8 INSTALLING WOOD JAMB COVERS



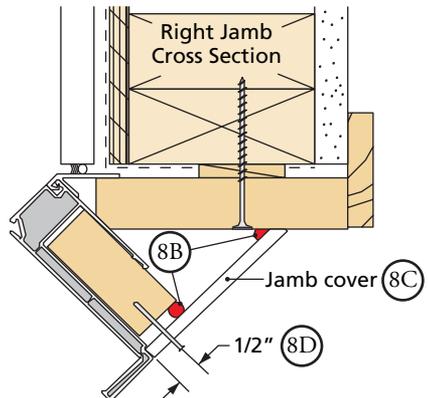
- A. **Properly identify the right and left jamb covers.** Dry fit each jamb cover by placing the straight edge in the step of the vinyl frame and the angled edge against the board to confirm proper fit and to determine the location of the sealant bead to be applied in Step 8B. Remove the jamb cover. If needed, trim the jamb cover for proper fit.

- B. **Place two beads of polyurethane sealant the full length of each jamb** as shown below. Sealant will be behind the installed covers.

- C. **Install the wood jamb covers** by placing the straight edge into the step in the vinyl frame. Firmly seat the jamb cover against the vinyl frame and the jamb to avoid gaps.

- D. **Secure in place** by inserting one finish nail 1/2" over from the edge of the jamb cover (as shown) and 4" from each cover end, then every 18" on center along the length of the cover.

Note: Caulking or wood filler may be used if any gaps appear around the jamb cover.



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.