

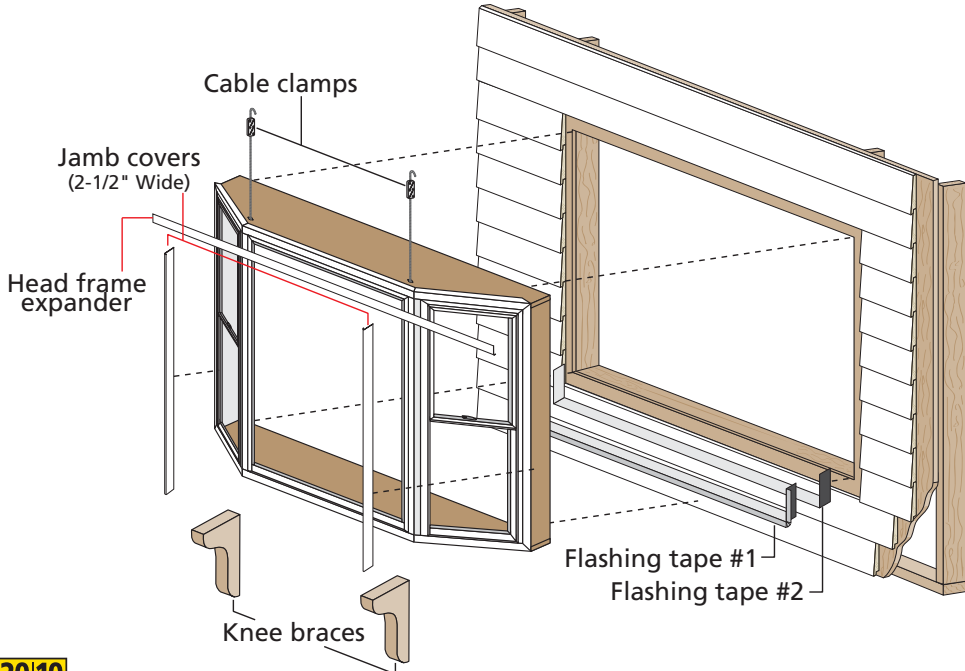


INSTALLATION INSTRUCTION - INSTRUCCIONES DE INSTALACIÓN FOR SQUARE DESIGN BAY AND BOW WINDOW WITH SEAT BOARD



Lea las instrucciones en español en el reverso.

Read these instructions thoroughly before performing any steps.



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>.

Note: *These instructions may be used for Square Design 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.*

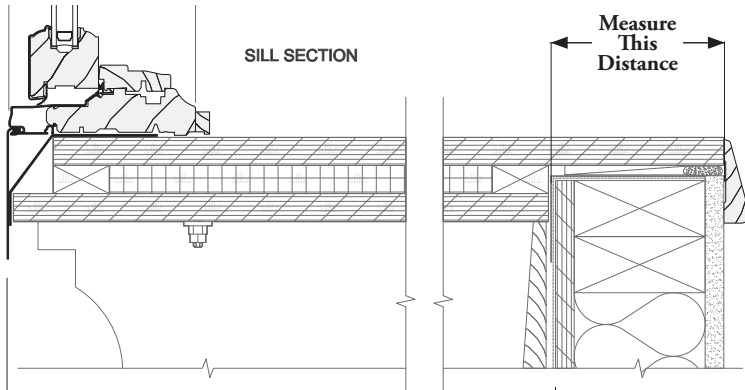
Installation Instructions for Typical Wood Frame Construction.

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, multiple units or other 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.

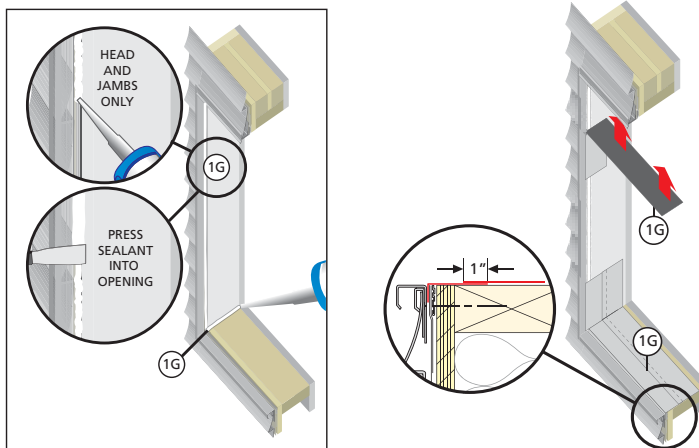
1

ROUGH OPENING PREPARATION (CONTINUED)

- F. **Confirm wall depth measurement.** Measure bottom board cutback on unit to make sure it is larger than the distance from the interior of wall to exterior of wall. If necessary, remove or cut siding.



- G. **REPLACEMENT APPLICATIONS: Seal between exterior cladding and wall.** If exterior cladding is siding, apply sealant between the siding and rough opening at the head and jambs and cover with flashing tape according to Express Replacement - No Siding Removal Opening Preparation for Siding: Vinyl, Steel, Aluminum.' If exterior cladding is brick, add blocking at jamb to close the cavity between the brick and rough opening. Apply sealant at each joint between the brick, blocking and rough opening and cover the joints with flashing tape.

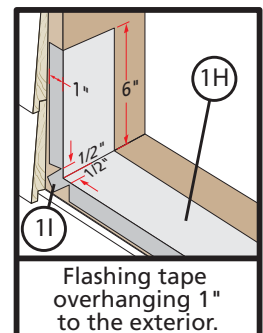
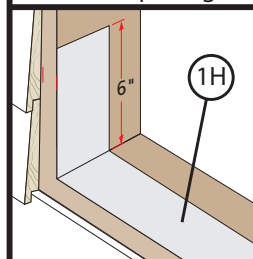


- H. **Apply sill flashing tape #1.** (Wood wall construction only). Cut a piece of flashing tape 12" longer than the opening. Apply at the bottom up to the exterior edge of the opening as shown. If the sheathing or water barrier is exposed, overlap 1" to the exterior as shown in (1I).

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

- I. **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) (1I). Fold tape to the exterior and press firmly to adhere it to the water resistive barrier.

Flashing tape at the exterior edge of the opening



Flashing tape overhanging 1" to the exterior.

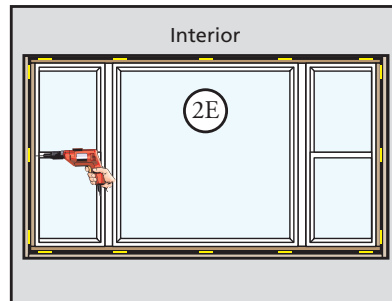
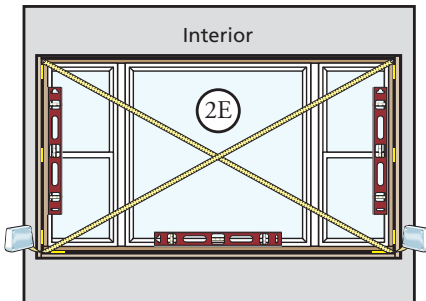
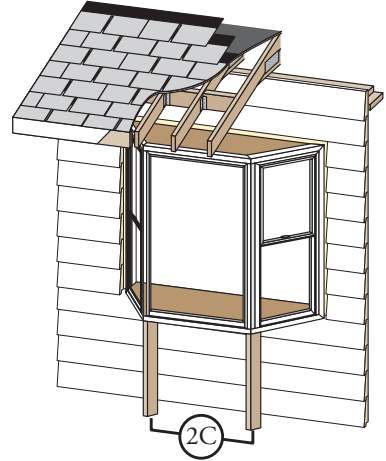
2 PREPARING AND SETTING THE WINDOW (CONTINUED)

TWO OR MORE PEOPLE WILL BE REQUIRED FOR THE FOLLOWING STEPS

- B. **Insert the window from the exterior of the building.** 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.

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.

- C. **Place temporary bracing** under the seat of the window to raise the unit level.
- D. **Place a shim** near the top of the one jamb board, aligned with the top pre-drilled hole in the jamb board. Drill a pilot hole and partially insert a #10 x 3" flat head screw provided. Repeat for the other jamb.
- E. **Continue placing shims at each pre-drilled installation screw hole in the jamb boards** 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 #10 x 3" flat head wood screw into each pre-drilled hole in the jamb boards. Finish inserting the top screw in each jamb board.

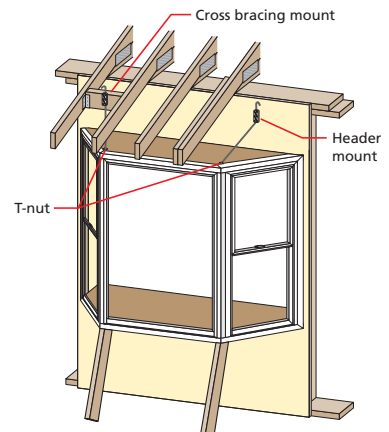


- F. **If desired, shim and fasten headboard to rough opening.** To keep plywood straight, center one finish head screw or 10D finish nail on units less than 10 feet wide and equally space two fasteners on units wider than 10 feet.

3 CABLE CLAMP INSTALLATION

Note: Support cables are installed in factory assembled bay and bow combinations.

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

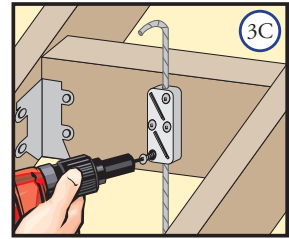
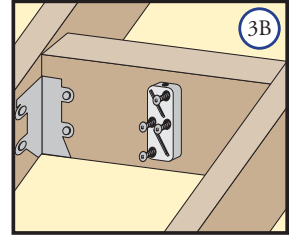


3 CABLE CLAMP INSTALLATION (CONTINUED)

CROSS BRACING MOUNT OF CABLE CLAMPS

- A. **Install 2" x 6" cross braces** between rafter tails, directly above the cable holes in the bay/bow head board.
- B. **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 drive screws part way into the mounting surface using a #3 square drive bit.
- C. **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.

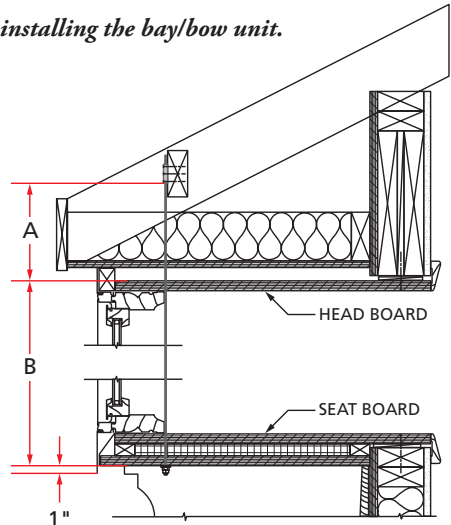
Note: Make sure all four screws are driven in at maximum torque. Additional tensioning may be done with the nuts on the opposite end of the cable at the bottom of the bay/bow unit.



CROSS BRACING MOUNT - NON ACCESSIBLE CABLE ATTACHMENT

Note: Install the cable clamp and cable prior to installing the bay/bow unit.

- A. **Install 2 x 6 cross braces** between the rafter tails, directly above the cable holes in the bay/bow head board.
- B. **Remove the cable from the bay/bow unit.** Measure the distance from the bottom of the cable clamp to the bottom of the header plus 3/8" head clearance (A dimension). Measure the height of the unit from the top of the head board to the bottom of the seat board (B dimension). Add "A" to "B" plus 1", to get the correct length of cable hanging from the bottom of the cable clamp. Insert the cable end through the round hole of the cable clamp. Ensure the correct length of cable is hanging below the bottom of the cable clamp. Tighten the two cable clamp corner screws. Insert one screw into each of the center holes in the cable clamp, and tighten to fully clamp the cable in position.



- C. **When the bay/bow unit is being installed,** thread the threaded end of the cable through the "T" nut, down the length of the bay/bow unit, and through the drilled hole in the seat board. Place a washer and two hex nuts on each cable end.

Note: The interior mullion cover can easily be removed for this purpose and must be reinstalled when installation is complete.

3 CABLE CLAMP INSTALLATION (CONTINUED)

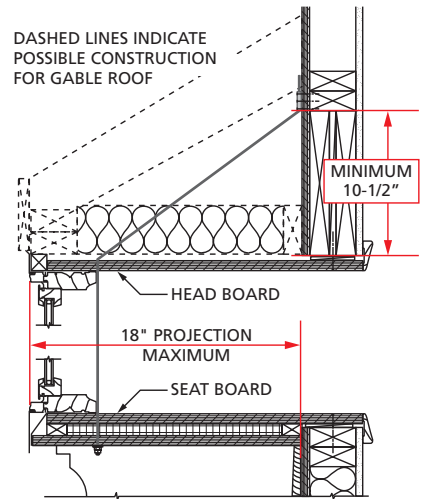
HEADER MOUNT OF CABLE CLAMPS

This method may only be used if the projection of the bay/bow is 18" or less. Use the Cross Bracing method if the projection of the bay/bow is more than 18".

Note: Be sure that the cable clamps are secured to a solid structural member - header, sill plates or wall stud. If the structural member or cable clamps are not securely attached, they may loosen during or after installation causing the bay/bow unit to sag.

- A. **Install the cable clamps.** Drive the #12 x 3-1/4" square screws part way into the mounting surface using a #3 square drive bit.
- B. **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 to lock the cable in place. Drive in the remaining #12 x 3-1/4" square screws all the way.

Note: Make sure all 4 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 window.

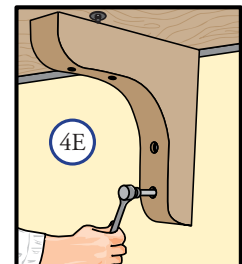


4 SUPPORTING THE WINDOW

- 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.
- 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 hex nuts.

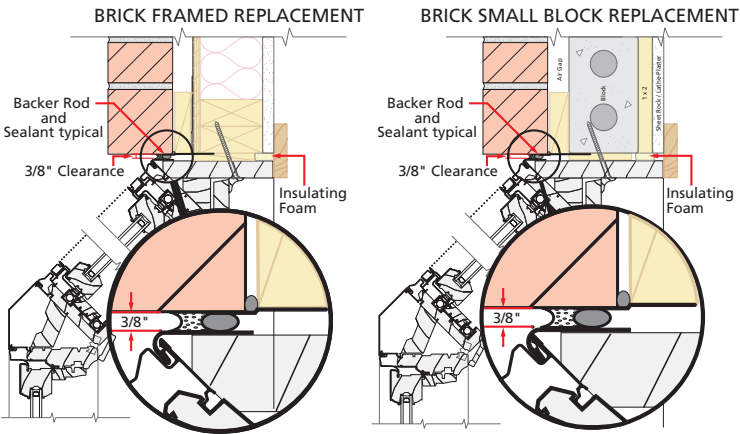
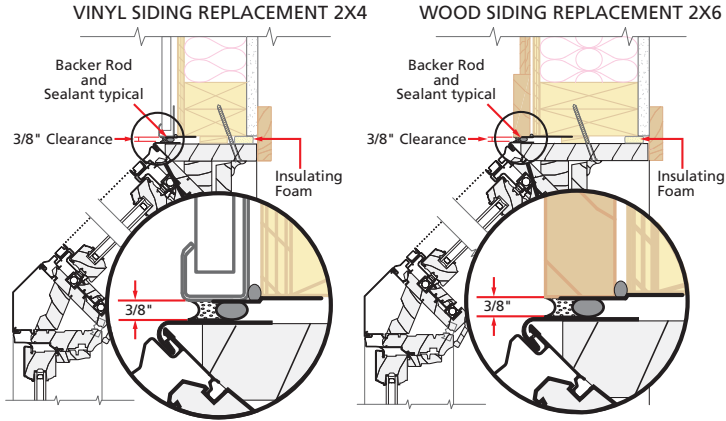
- C. **Remove blocking from under the seat board.**
- D. **Tighten the locking (bottom) nut on both cable ends and remove the temporary support** once the final position is found. DO NOT cut the threaded end off the cable as this will prevent future adjustment should it be needed.
- E. **Installation 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 bay/bow unit. If the upper roof/framing members are not capable of supporting 1,300 lbs. or if more than 500 lbs. will be put on the seat board, knee braces must be used in addition to the cables.



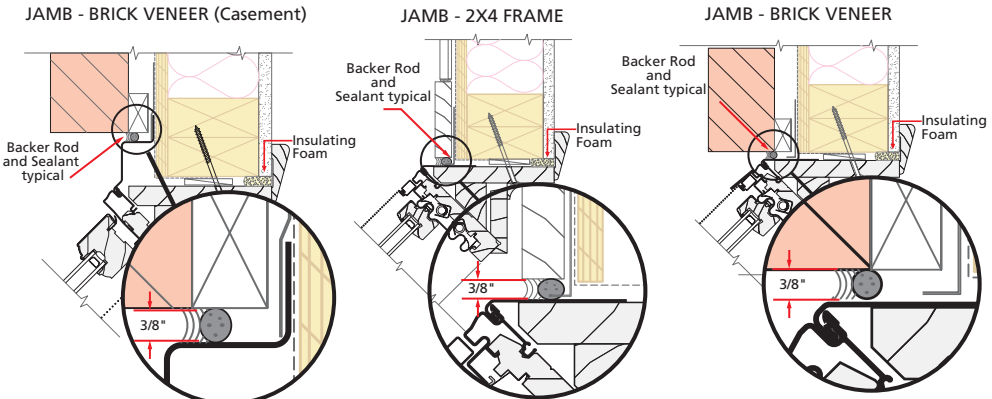
6 SEALING THE WINDOW TO THE EXTERIOR WALL CLADDING

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.

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Angle Jamb Cover

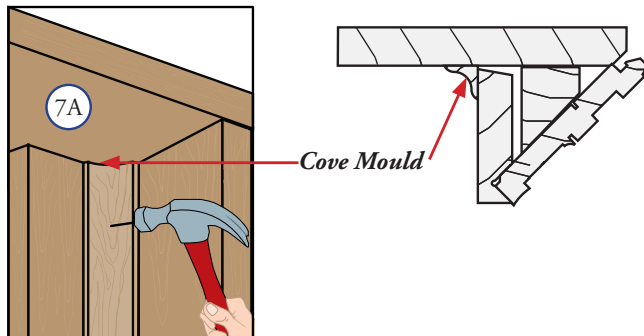
Square Jamb Cover

- L. **Insert backer rod and apply sealant.** Install siding, and insert backer rod between the each jamb cover and the exterior finish material as deep as it will go. Apply a bead of high quality exterior sealant on top of the backer rod and a corner bead to the top of the head frame expander. Shape, tool, clean excess sealant. When finished, the sealant should be the shape of an hourglass.

Note: Backer rod adds shape and depth for the sealant line. This method creates a more flexible sealant line capable of expanding and contracting.

7 INSTALLING INTERIOR JAMB COVE MOULD

- A. **Install the interior cove mould.** Remove cove mould from accessory package and dry fit over the installation screws. Install interior cove mould and secure with 1" brads into the jamb and trim.



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