Part Number: 816G0101

INSTALLATION INSTRUCTION - INSTRUCCIONES DE INSTALACIÓN FOR PELLA® PRECISION FIT®, CASEMENT, RENOVATION POCKET REPLACEMENT AND FIXED WINDOW REPLACEMENT

Lea las instrucciones en español en el reverso.

Important! The Pella Precision Fit Casement Replacement Window is designed to replace older style double-hung windows. The original window frame will remain in place and only the existing sash will be removed. The Pella Precision Fit Casement Fixed Window is a companion to the Precision Fit Casement and is designed to replace the fixed center window that shares a common stool and sloped sill with the adjacent windows and has removable interior stops. This application is typically found in older homes. The original window frame will remain in place and only the existing sash, glass and existing stops must be removed. These instructions are not to be used with any other construction methods. Read these instructions thoroughly before beginning. Failure to install as recommended will void any warranty, express or implied. For types of installation other than shown, contact your local Pella representative or visit 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)
- Wood blocking and bracing
- Closed cell foam backer rod/sealant backer (12 to 30 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

Installation will require two or more persons for safety reasons.

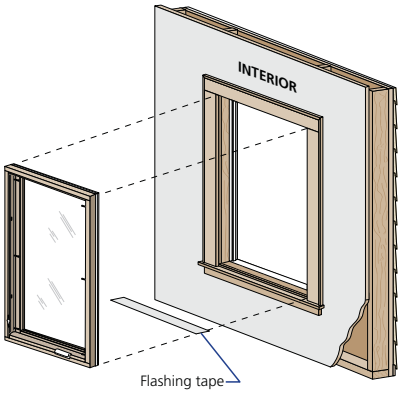
TOOLS REQUIRED:

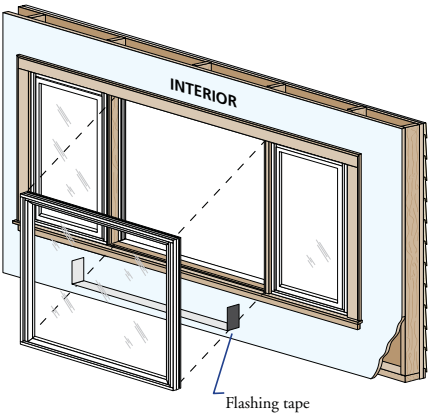
- Tape measure
- Level
- Square
- Hammer
- Utility knife
- Sealant gun
- Screwdrivers (#2 Phillips and Flat blade)
- Rotary cutting tool w/ cut-off wheel (if existing window has press fit pulleys)
- Drill
- Pliers
- Putty Knife
- Pry bar
- T-25 TORX® Driver
- Chisel

REMEMBER TO USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.

20|10 WARRANTY 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.***

CAUTION: Many windows in older homes are painted with lead-based paint. Removal of old windows may disturb this paint. Proper precautions must be taken to minimize exposure to dust and debris. Consult state or local authorities for more information.





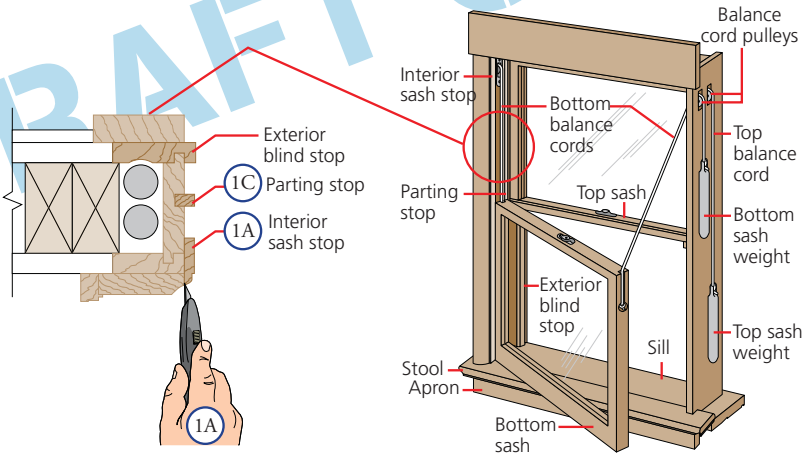
Pocket Replacement – Go to Step 1 SASH REMOVAL

Fixed Window Replacement – Go to Step 6 FIXED SASH REMOVAL on page 7

POCKET REPLACEMENT:

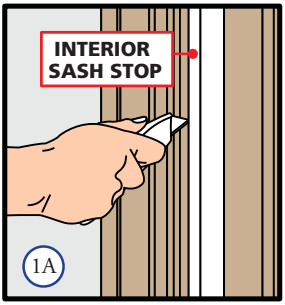
1 SASH REMOVAL

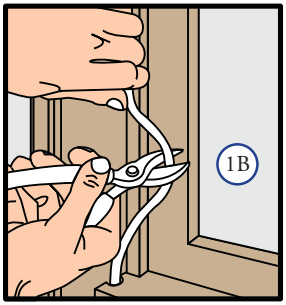
Note: Verify the opening and window dimensions prior to removing the existing window sash.

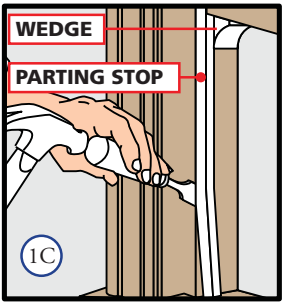


A. **Score paint or varnish along interior sash stops with a sharp utility knife.** Remove the interior sash stops at jambs (sides) and head (top) using a putty knife and pry bar.

1 SASH REMOVAL (CONTINUED)



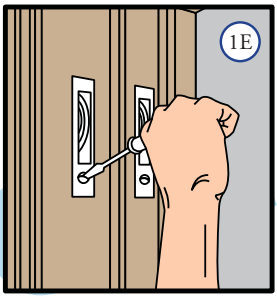




B. **Cut the balance cords on the bottom sash and lift out the sash.** Allow weights to fall to the bottom of the weight pocket.

C. **Remove the parting stops** by prying them out or by pulling them out with a channel lock. There may be a small wedge of wood at the bottom of the upper sash that is next to the parting stops. To make it easier to remove the parting stop, use a chisel to knock off the wedge.

D. **Lower the top sash and cut the balance cords** allowing the balance weights to fall into the weight pocket. Remove the top sash.



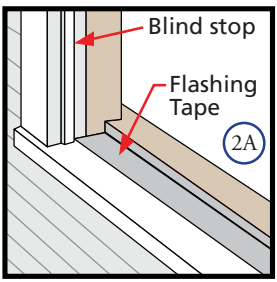
E. **Remove the balance cord pulleys.** Unscrew and remove the balance cord pulleys. If the pulleys are press-in fit type, follow these steps:

1. Cut off accessible portions of the collars using a rotary cutting tool with cut-off wheel.
2. Bend up the remaining areas of the collars.
3. Knock the pulleys into the balance cavity. (The pin will fall with the pulleys.)
4. If desired, remove pulleys via bottom balance access panel.

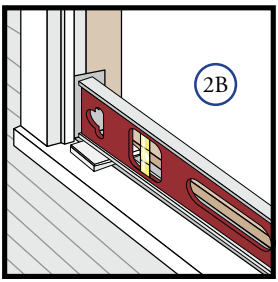
NOTE: If the pulleys and pins are not removed, they may interfere with the replacement window's attachment screws.

F. **If desired, insulate the weight chamber** by filling it with low pressure window and door insulating foam.

2 PREPARE THE OPENING



A. **Apply one piece of sill flashing tape to the sill of the existing window.** Cut the tape the same length as the width of the existing window sill. Place one side of the tape against the vertical leg of the stool, and work the tape into the corner before applying to the sill. Press down firmly. **DO NOT** allow the flashing tape to extend past the blind stops.



B. **Check to ensure the existing sill is level and not bowed (humped) upward.** If necessary, place shims on the bottom of the window opening 1/2" from each side. Shim sill only at the jambs. Once level, attach shims to prevent movement.

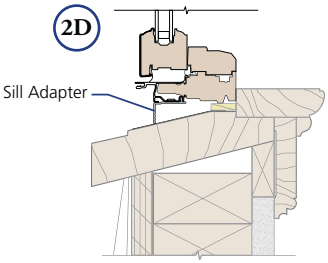
Note: Improper placement of shims may result in bowed (humped) sill.

2 PREPARE THE OPENING (CONTINUED)

C. **Remove plastic wrap and card board packaging from window. DO NOT** remove plastic shipping spacers located between the window sash and frame. The shipping spacers will help keep the window square during installation. **DO NOT** unlock or open window until it is fully fastened in the opening.

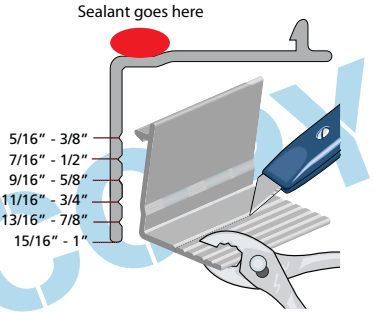
Note: If screens, grilles or hardware are removed from the window at this time, label them and store them in a protected area.

D. **Test fit the window.** The window should be approximately 1/2" smaller than the opening in both width and height. Measure the distance between the frame and the sloped sill, this will be the height to which to cut the sill adapter. Check to ensure the window rests against the exterior blind stops and will make contact with the sealant to be applied in steps 3 A, B, and C. Confirm the installation screws will fasten into solid wood. If not, repair the existing frame to ensure there is solid wood at the installation screw locations.

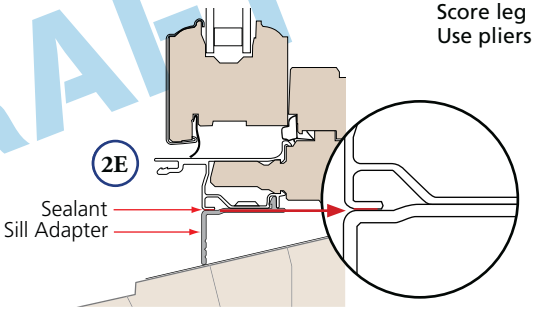


E. **Trim the sill adapter** to the proper height by breaking off the grooved leg at the desired dimension (see chart). Once trimmed, apply a bead of sealant to the sill adapter. Attach the sill adapter into the sill by using a board and hammer.

Note: Scoring the leg groove multiple times at the desired dimension with a utility knife will help the leg break easier. The sill adapter may also be trimmed to correct dimension using a table saw.



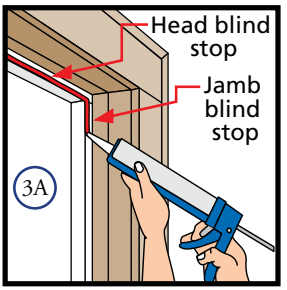
Score leg at desired dimension. Use pliers to break off leg.



3 SEALING AND FASTENING THE WINDOW

A. **Apply a 3/8" continuous bead of sealant** to the interior face of the existing blind stops at the head and both jambs.

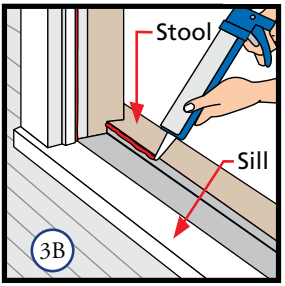
Note: Sealant bead placement is critical to ensure contact with replacement window



3 SEALING AND FASTENING THE WINDOW (CONTINUED)

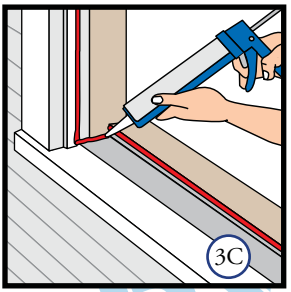
B. **Place a bead of sealant** where the existing stool meets the existing frame sill and jambs.

Note: Sealant bead placement is critical to ensure contact with replacement window

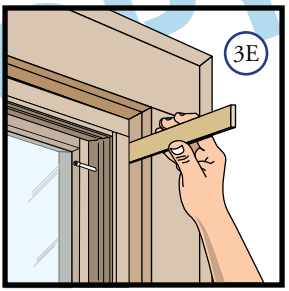


C. **Place a bead of sealant** where the jamb and sill meet.

D. **Insert the window into the opening.** Set the bottom of the window in first and tilt the top into place. Make sure the window is centered in the opening and is pressed firmly against the exterior blind stops.

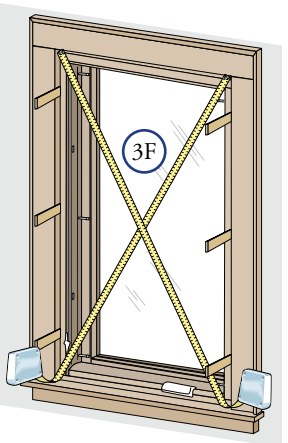


E. **Place a shim at each of the top corners** slightly above the partially driven (factory supplied) attachment screws in the jambs. **NOTE: If the shims are aligned with the attachment screws, the frame may bow away from the shims when driving the screws.** Drive each top attachment screws halfway in to hold the window in place while shimming it plumb and square.



F. **Place shims approximately 5"** up from the bottom of window to plumb and square the window. Check for squareness by making sure the diagonal measurement from corner to corner is within 1/16" in both directions.

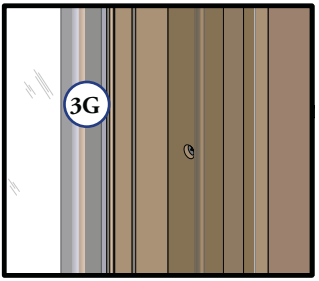
For windows over 40-1/4" tall: Place an additional shim slightly above the center anchor screws. This will prevent the screw from cracking or breaking the shim when driving the attachment screw.



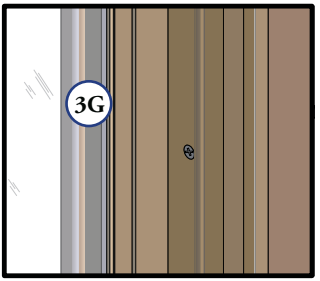
3 SEALING AND FASTENING THE WINDOW (CONTINUED)

G. Finish driving all the installation screws through the wood frame jamb, ensuring the head of the screws is flush with the surface of the wood frame.

DO NOT drive screws below flush with the surface of the frame.



Improper screw depth, screw head driven below the surface of frame.



Proper screw depth, screw head flush with surface of frame.

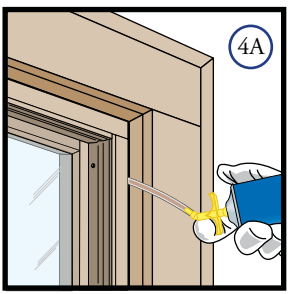
H. **Check window operation** (vent units only). Unlock the window by lifting the lock handle up. Open the window by rotating the crank handle. Remove the shipping spacers. Open and close the window a few times to check for proper operation. Close and lock the window.

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

4 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 insulation foam.** 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. 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 and existing window frame. DO NOT completely fill the space from the back of the blind stops to the interior face of the opening.

B. **Check window operation** by opening and closing the window.

Note: If the window 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.

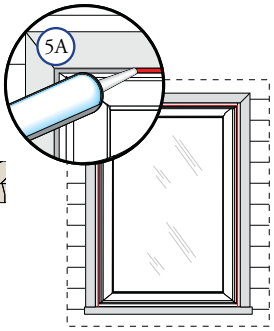
C. **Inspect the foam after it has cured.** Fill any voids with foam prior to installing interior trim.

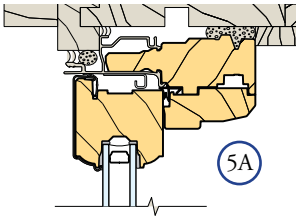
D. **Reinstall the existing interior sash stops** or new trim as desired.

5 EXTERIOR SEAL

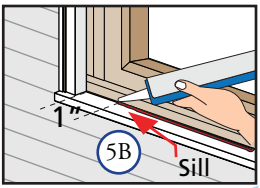
A. **Place a corner bead of sealant at the jambs and head** connecting the existing frame and the replacement window frame.

Caution: DO NOT seal the bottom exterior to allow for incidental water to weep.





B. **Optional: Place a bead of sealant** where the sill adapter meets the sill. If sealant is placed on the sill leave at least 1" of sill adapter unsealed at each end. This sill allow for incidental water to weep.



Go to page 11 and 12 for Interior and Exterior Finishing Information.

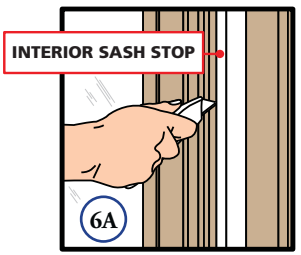
FIXED WINDOW REPLACEMENT:

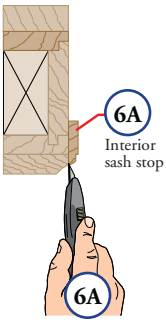
6 FIXED SASH REMOVAL

Note: Confirm the opening and window dimensions prior to removing the existing window sash.

A. **Score paint or varnish along interior sash stops** with sharp utility knife. Carefully remove the interior sash stops at jambs (sides) and head (top) using a putty knife and pry bar. Set aside for reuse.

B. **Remove the old sash.** Remove other trim, stops, flashing or brickmould as required.





C. **Clean opening thoroughly** and repair or replace any rotted or damaged framing if required.

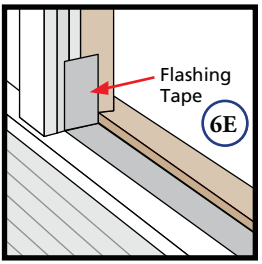
Note: The end result should be a clean flat uninterrupted surface on the bottom, top and sides of the opening where the new window will be installed.

D. **Test fit the window,** make any adjustments to opening as needed.

6 FIXED SASH REMOVAL (CONTINUED)

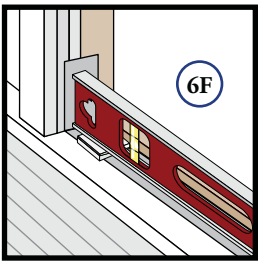
E. **Apply sill flashing tape.** Cut a piece of flashing tape 12" longer than the opening width. Apply at the bottom of the opening as shown (2A). Do not allow the flashing tape to extend past the new window depth.

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



F. **Check to ensure the existing sill is level.** If necessary, place shims on the bottom of the window opening 1/2" from each side. Shim sill only at the jambs. Once level, attach shims to prevent movement.

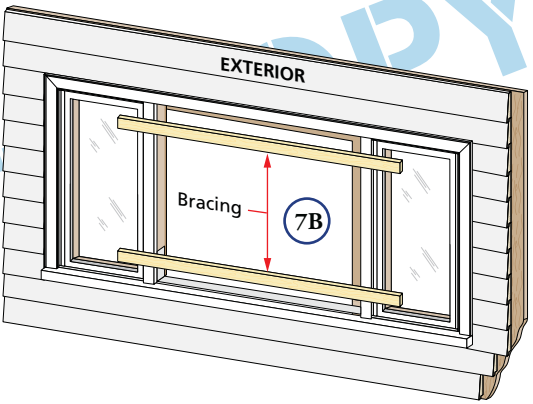
Note: Improper placement of shims may result in bowing the bottom of the window.



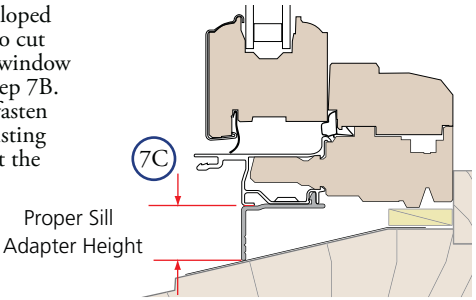
7 PREPARE THE OPENING

A. Remove plastic wrap and cardboard packaging from window. Remove the wood spacers on the frame.

B. **Attach bracing** to the top and bottom of the exterior frame to prevent the replacement window from falling out of the opening during installation.



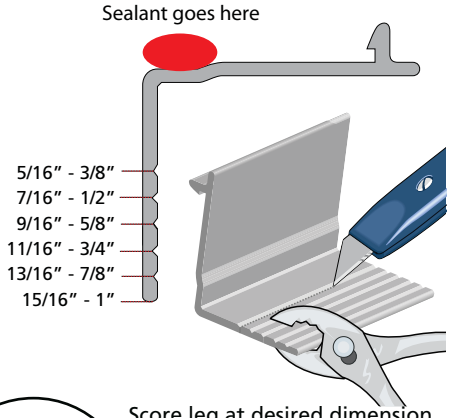
C. **Test fit the window.** The window should be approximately 1/2" smaller than the opening in both width and height. Measure the distance between the frame and the sloped sill, this will be the height to which to cut the sill adapter. Check to ensure the window rests against the bracing applied in step 7B. Confirm the installation screws will fasten into solid wood. If not, repair the existing frame to ensure there is solid wood at the installation screw locations.



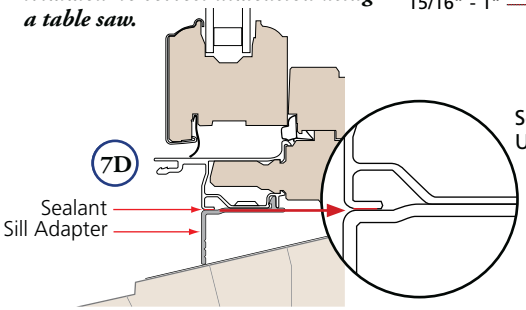
7 PREPARE THE OPENING (CONTINUED)

D. **Trim the sill adapter** to the proper height by breaking off the grooved leg at the desired dimension (see chart). Once trimmed, apply a bead of sealant to the sill adapter. Attach the sill adapter into the sill by using a board and hammer.

Note: Scoring the leg groove multiple times at the desired dimension with a utility knife will help the leg break easier. The sill adapter may also be trimmed to correct dimension using a table saw.



Score leg at desired dimension. Use pliers to break off leg.



8 SEALING AND FASTENING THE WINDOW

A. **Apply a 3/8" continuous bead of sealant** to the interior face of the existing blind stops at the head and both jambs.

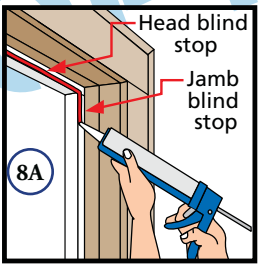
Note: Sealant bead placement is critical to ensure contact with replacement window

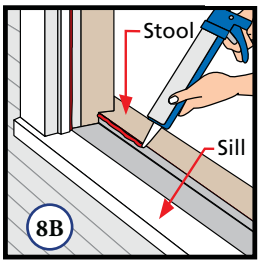
B. **Place a bead of sealant** where the existing stool meets the existing frame sill and jambs

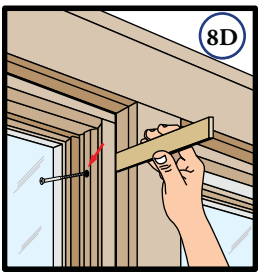
C. **Insert window into the opening,** placing the bottom of the window on the spacers at the bottom of the opening and tilting the top into place. Make sure the window is up against the existing stool. Center the window between the sides of the opening to allow clearance for shimming and partially drive one of the top attachment screws (factory provided in the unit) halfway in to hold the window in place while shimming it plumb and square.

D. **Place shims 1" from the bottom and top of the window** between the window and the sides of the opening. Adjust the shims as needed to plumb and square the window in the opening. Also shim slightly above the partially driven (factory supplied) attachment screws in the jambs. ***If the shims are aligned with the attachment screws, the frame may bow away from the shims when driving the screws.***

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



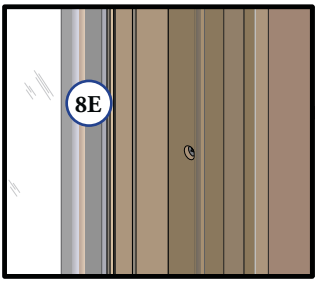




8 SEALING AND FASTENING THE WINDOW (CONTINUED)

E. **Finish driving all the installation screws through the wood frame jamb,** ensuring the head of the screws is **flush** with the surface of the wood frame.

DO NOT drive screws below flush with the surface of the frame.



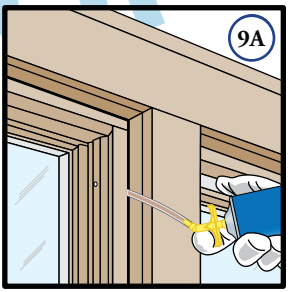
Improper screw depth, screw head driven below the surface of frame.

Proper screw depth, screw head flush with surface of frame.

9 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 insulation foam.** 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 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.

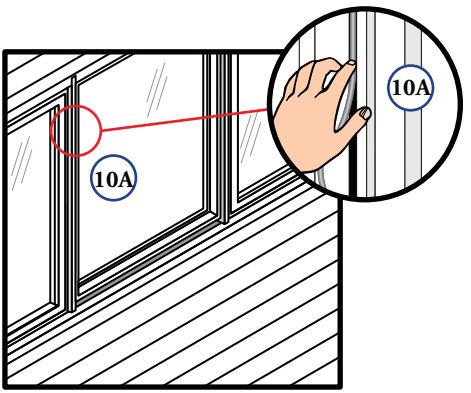


Note: It may be necessary to squeeze the end of the tube with pliers to be able to insert into the space between the new and existing window frame. DO NOT completely fill the space from the back of the backer rod to the interior face of the opening.

10 EXTERIOR SEAL

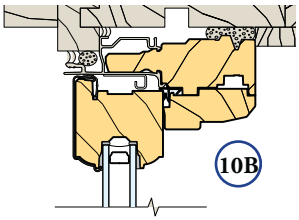
A. **Insert backer rod** into the space around the exterior of the window at the head and jambs, deep enough to provide at least a 1/2" clearance between the backer rod and the exterior face of the window.

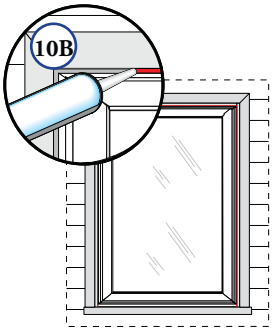
Note: Backer rod adds shape and depth for the sealant line.



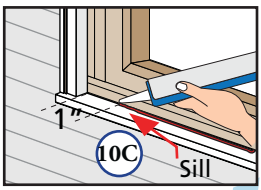
10 EXTERIOR SEAL (CONTINUED)

B. **Apply a bead of high quality exterior grade sealant** to the head and jambs.





C. **Optional:** Place a bead of sealant where the sill adapter meets the sill. If sealant is placed on the sill leave at least 1" of sill adapter unsealed at each end. This sill allow for incidental water to weep.



INTERIOR FINISH

Note: The information below is effective September 15, 2007. This information may be different than the printed instruction.

If products cannot be finished immediately, cover with clear plastic to protect from dirt, damage and moisture. Remove any construction residue before finishing. Sand all wood surfaces lightly with 180 grit or finer sandpaper. **DO NOT** use steel wool. **BE CAREFUL NOT TO SCRATCH THE GLASS.** Remove sanding dust.

Pella products must be finished per the below instructions; failure to follow these instructions voids the Limited Warranty.

- On casement and awnings, it is optional to paint, stain or finish the vertical and horizontal sash edges.
- On single-hungs and double-hungs, do not paint, stain or finish the vertical sash edges, any finish on the vertical sash edges may cause the sash to stick; it is optional to paint, stain or finish the horizontal sash edges.
- On patio doors, it is optional to paint, stain or finish the vertical and horizontal panel edges.

Note: To maintain proper product performance do not paint, finish or remove the weather-stripping, mohair dust pads, gaskets or vinyl parts. Air and water leakage will result if these parts are removed. After finishing, allow venting windows and doors to dry completely before closing them

Pella Corporation is not responsible for interior paint and stain finish imperfections for any product that is not factory-applied by Pella Corporation. Use of inappropriate finishes, solvents, brickwash, or cleaning chemicals will cause adverse reactions with window and door materials and voids the Limited Warranty.

For additional information on finishing see the Pella Owner's Manual or go to ***www.pella.com.***

EXTERIOR FINISH

The exterior frame and sash are protected by aluminum cladding with our tough EnduraClad® or EnduraClad Plus baked-on factory finish that needs no painting. Clean this surface with mild soap and water. Stubborn stains and deposits may be removed with mineral spirits. **DO NOT** use abrasives. **DO NOT** scrape or use tools that might damage the surface.

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

CARE AND MAINTENANCE

Care and maintenance information is available in the Pella Owner's Manual. You can obtain an owner's manual by contacting your local Pella retailer. This information is also available on ***www.pella.com.***

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 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.