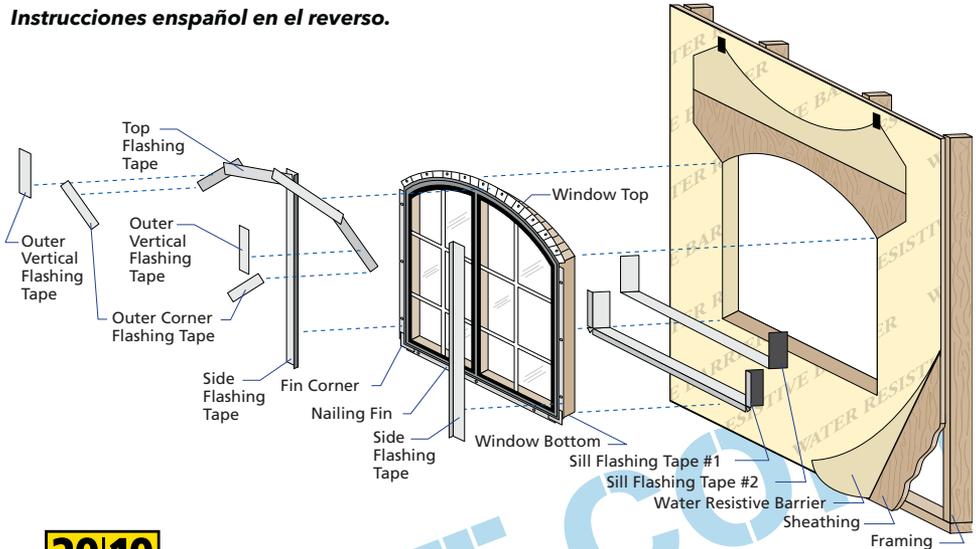




## INSTALLATION INSTRUCTION STANDARD, PERFORMANCE UPGRADE AND HURRICANESHIELD® IMPACT RESISTANT FOR FIXED FRAME DIRECT SET WINDOWS

*Instrucciones español en el reverso.*



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, 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 or Impervious shims/spacers (12 to 20) 
- 2" galvanized roofing nails (1/4 lb.) 
- Note: Performance Upgrade and HurricaneShield® units require use of installation clips or screws through the frame.
- Closed cell foam backer rod/sealant backer (12 to 30 ft.) 
- Pella® SmartFlash™ foil backed butyl window and door flashing tape or equivalent 
- Pella Window and Door Installation Sealant or equivalent high quality, multi-purpose sealant (1 tube per window) 
- Low expansion, low pressure polyurethane insulating window and door foam sealant - DO NOT use high pressure or latex foams 
- Interior trim and/or jamb extensions (15 to 40 ft.)

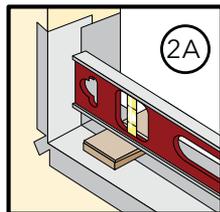
### TOOLS REQUIRED:

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



# 2 SETTING AND FASTENING THE WINDOW

- A. **Install and level shims.** Place 1" wide by 1/4" thick shims on the bottom of the opening, 2-1/2" from each side, beneath transition bars and mullion joints. Keep shims back 1/2" from interior face of window. Adjust shims as necessary to ensure the sill is level. Once level, attach shims to prevent movement.



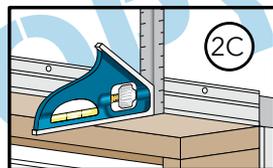
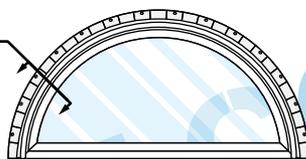
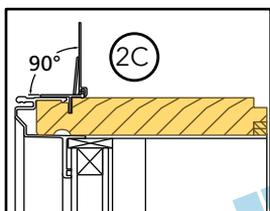
**Note:** Improper placement of shims may result in bowing the bottom of the window.

- B. **Remove plastic wrap and cardboard packaging from window.**

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

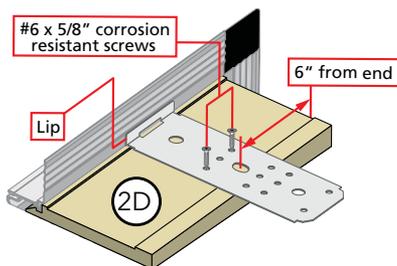
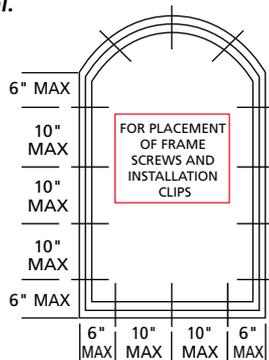
- C. **Units with fold-out installation fins:** Fold out fin to 90°. On units with pre-applied fin corners, be careful not to remove or tear the fin corners.

**Note:** If the fin is not at 90°, the window will not line up correctly on the interior.

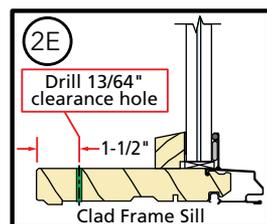


**Note:** Performance Upgrade and HurricaneShield® require use of installation clips or screws through the frame. Use of fins in addition to clips or screws is optional.

- D. **Windows using Installation Clips:** Install installation clips. If installation fins are used; place the clip so that the lip is facing up and against the installation fin, at the locations shown in the placement diagram. If installation fins are not used, the clip lip faces down and is inserted into a groove in the frame. Secure the clip by driving #6 x 5/8" corrosion resistant screws through the outer two holes of the three holes shown.



- E. **Windows using frame screws:** Pre-drill installation screw holes. On the room side of the window, drill 13/64" diameter clearance holes through the frame as shown on the placement diagram. Space the holes a maximum of 6" from each end and a maximum of 10" on center on the head, jamb and sill.

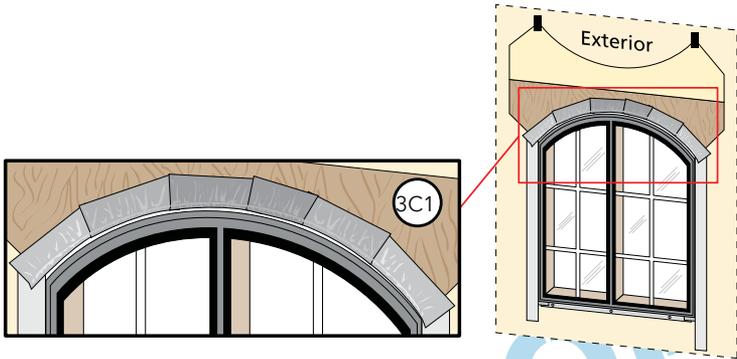






### 3 INTEGRATING THE WINDOW TO THE WATER RESISTIVE BARRIER (CONTINUED)

- C1. **Apply top flashing tape to circle top windows.** Several pieces of flashing tape will be needed to cover the top fin. Start taping from the sides of the window working toward the peak. To determine the length of cuts, hold the tape along the radius, and cut the tape just past where it leaves the top fixed extruded fin or for the flexible fin, just past the flexible weather strip. The top tape must overlap the one beneath it in order to divert water properly. The sharper the arc of the window, the shorter the pieces of tape will be.



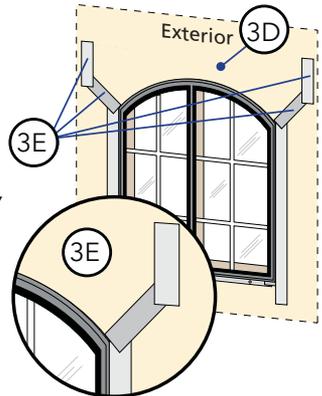
- C2. **Apply top flashing tape to an angle top window 1/2" up onto the frame cladding, over the top fin onto the sheathing.** On the short side of a trapezoid window, do not allow the side flashing tape to extend higher than what the top tape will cover. Fold the overlapping tape down, and press all tape down firmly.

- D. **Fold down top flap of water resistive barrier (3D).**

- E. **Apply flashing tape to 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. If vertical cuts were also made, apply flashing tape to them in the same manner.

**Note: The top tape must overlap the tape below it to divert water properly. Be sure to overlap the top corners (3E).**

**Note: If installing the window using installation clips, proceed to Step 5 - Installation Clip Method.**

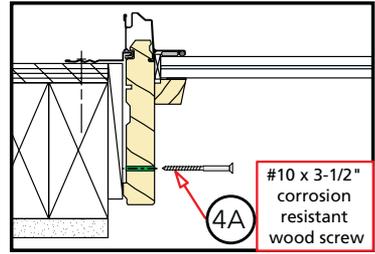


## 4 SECURING THE WINDOW

- A. **Install a #10 x 3-1/2" corrosion resistant wood screw** into each pre-drilled screw hole.

**Note: Minimum 1-1/4" embedment into the wall framing is required.**

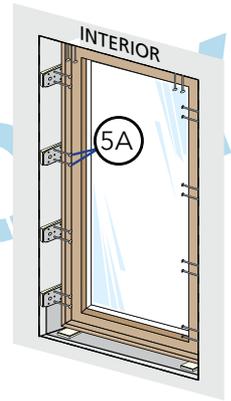
**Proceed to Step 6.**



## 5 INSTALLATION CLIP METHOD

- A. **Fasten the window to the opening** by driving two #6 x 1-1/2" or longer corrosion resistant screws into the pre-punched holes in the clips. If clips are bent and fastened to the interior stud/block, install the screws as close to the bend as possible.

**Note: DO NOT shim above the window.**



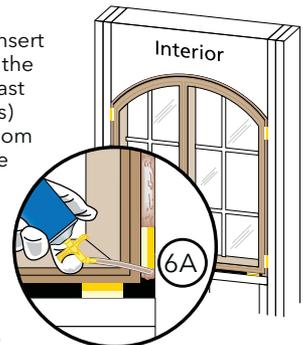
## 6 INTERIOR SEAL

**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 into the space between the window and the rough opening approximately 1" past the edge of the frame (and past the jamb extensions) and apply a 1" deep bead of foam. This will allow room for expansion of the foam and will minimize squeeze out. Apply sealant across the interior surface of the shims to create a continuous seal. Follow foam manufacturer's instructions.

**Note: DO NOT place any foam between jamb extensions and the rough opening.**

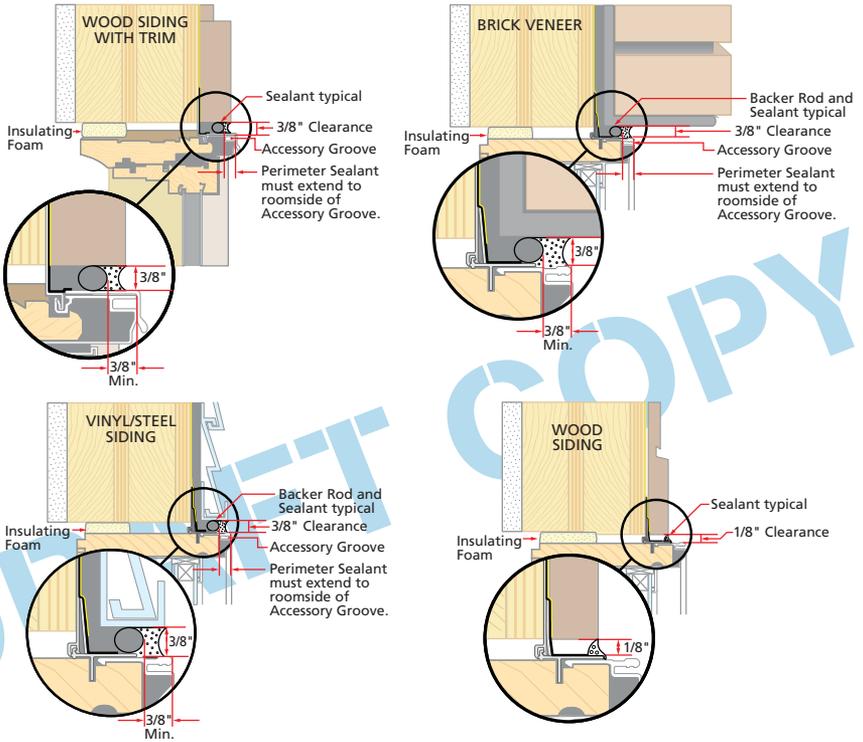
**Note: DO NOT completely fill the space from the back of the fin to the interior face of the opening.**



# 7 SEALING THE WINDOW TO THE EXTERIOR WALL CLADDING

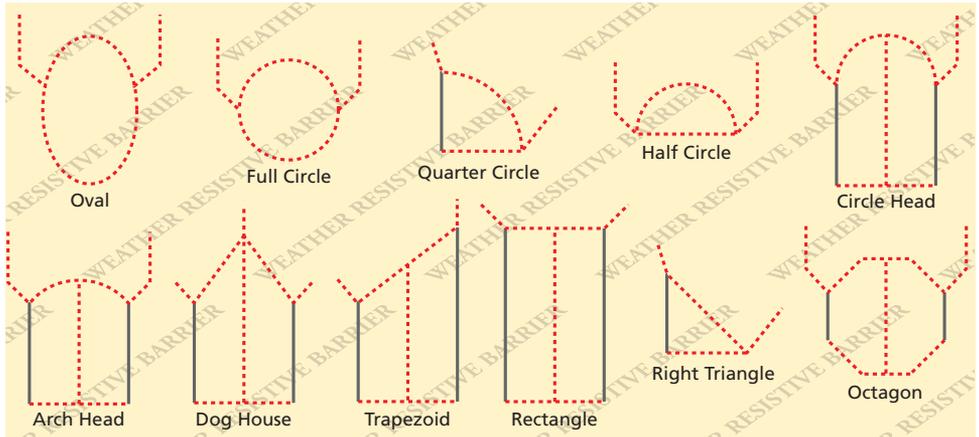
When applying siding, brick veneer or other exterior finish material, leave adequate space between the window frame and the material for sealant. Refer to the illustration that corresponds to your finish material.

**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.





## Additional cutting patterns



## EXTERIOR FINISH

The exterior frame and sash are protected by aluminum cladding with our 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](http://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.