INSTALLATION INSTRUCTIONS - INSTRUCCIONES DE INSTALACION ADVANCED PERFORMANCE AND HURRICANESHIELD® IMPACT RESISTANT CLAD FRAME AND CIRCLE HEAD WINDOWS IN WOOD FRAME CONSTRUCTION

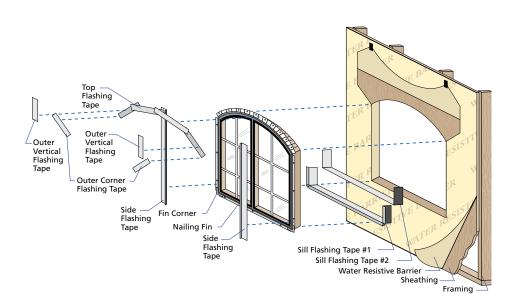
Part Number: 80G70102

These instructions were tested and are Dade County certified for single laminated glass and ASTM (Hallmark) certified for laminated insulating glass.

Important Safety Information:

Pella® HurricaneShield® products have been tested in accordance with the large missile impact testing requirements of ASTM E 1886 and ASTM E 1996. Pella HurricaneShield products are neither hurricane proof nor are they shatter proof. Severe wind and rain may produce temporary conditions which exceed product performance standards. When these units are subjected to intense storms or extreme conditions, which exceed the intended design pressures, air, water and flying debris infiltration may occur. The performance of any building is dependent upon the design, installation, and workmanship of the entire building system. Pella Corporation strongly recommends consulting an experienced architect, contractor, or structural engineer prior to installation of Pella products.

The individual (building owner, architect, contractor, installer and/or consumer) responsible for the project must take into account local conditions, building codes, inherent component limitations, the effects of aging and weathering on building components, and other design issues relevant to each project. The determination of the suitability of all building components for each project, as well as the design and installation of flashing and sealing systems, are the responsibility of the building owner, architect, contractor, installer and/or consumer.



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 Pella installation and maintenance instructions may void your Pella product warranty. See Limited Warranty for complete details at *http://warranty.pella.com*.

YOU WILL NEED TO SUPPLY:

- Cedar or Impervious shims/spacers (12 to 20)
- 2" galvanized roofing nails (1/4 lb.)
- #10 x 3-1/2" corrosion resistant wood screws (12 to 20) a
- Closed cell foam backer rod/sealant backer (12 to 30 ft.)
- 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
- Interior trim and/or jamb extensions (15 to 40 ft.)

TOOLS REQUIRED:

- •Tape measure
- Level
- Square
- Hammer 💳
- Stapler 📥
- Sealant gun
- Scissors or utility knife
- Small flat-blade screwdriver
- Drill bits 13/64" and 1/8"
- Drill
- Power screwdriver with #2 Phillips bit

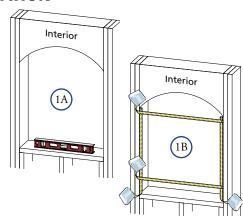
REMEMBER TO USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.

ROUGH OPENING PREPARATION

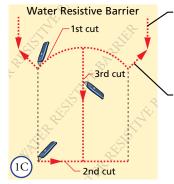
- A. Verify the opening is plumb and level.

 Note: It is critical that the bottom is level.
- B. **Verify the window will fit** the opening. Measure all four sides of 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 at least three places to check for bowed header or studs.

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.

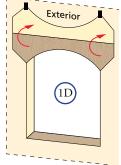


C. Cut the water resistive barrier (1C).



5th cut: Cut down 6" (must be 6" above the tallest point of the opening) to meet the 6" 45° cut on each corner.

4th cut: Make a 6" cut up from each top corner at a 45° angle to allow the water resistive barrier to be lapped over the fin at the head of the window.



Note: Additional cutting patterns are shown on the last page of this instruction.

D. **Fold the water resistive barrier** (1D). Fold the side flaps into the opening and staple to inside wall. Fold top flap up and temporarily fasten with flashing tape.

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E. **Apply sill flashing tape #1.** Cut a piece of flashing tape 12" longer than the opening width. Apply at the bottom of the opening as shown (1E) so it overhangs 1" to the exterior.

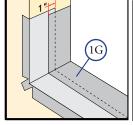
Note: The tape is cut 12" longer than the width so that it will extend 6" up each side of the opening.

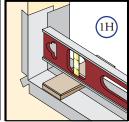
- F. **Tab the sill flashing tape and fold.** Cut 1" wide tabs at each corner (1/2" from each side of corner) (1F). Fold tape to the exterior and press firmly to adhere it to the water resistive barrier.
- G. **Apply sill flashing tape #2.** Cut a piece of flashing tape 12" longer than the opening width. Apply at the bottom, overlapping tape #1 by at least 1". DO NOT allow the tape to extend past the interior face of the framing (1G).

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

H. Install and level sill spacers. Place
1" wide by 1/4" thick spacers on the bottom of the window opening 1/2" from each side. Spacers are also required at points where windows are joined in multiple window applications. Add shims as necessary to ensure the spacers are level. Once level, attach spacers and shims to prevent movement.

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





6

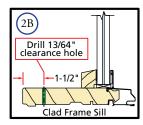
2 WINDOW PREPARATION

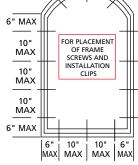
A. Remove plastic wrap and cardboard packaging from window.

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

For installation using installation clips, preceed to Step C.

B. 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, jambs and sill.

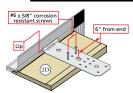




C. Fold out installation fin to 90°. Be careful not to remove or tear the fin corners.

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

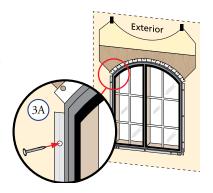
D. **Windows using Installation Clips:** Install installation clips. Place the clip so that the lip is facing up and against the installation fin, at the locations shown in the placement diagram. Secure the clip by driving #6 x 5/8" corrosion resistant screws through the outer two holes of the three bales shown



holes shown.
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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 on the spacers at the bottom of the opening, then tilt the top into position. Center the window between the sides of the opening to allow clearance for shimming, and insert one roofing nail in the first hole from the top of each jamb nailing fin. These are used to hold the window in place while shimming it plumb and square.

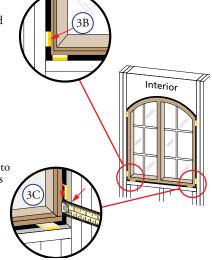


B. **Plumb and square window.** Place shims between the window frame and the rough opening at each installation screw hole. Adjust the shims as required to plumb and square the window in the opening.

Note: DO NOT over shim.

C. 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.

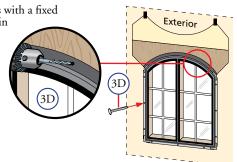
Note: If the dimensions are not equal, check to make sure the fins are folded out to 90° at all points.



D. **Fasten the window to opening.** On windows with a fixed extruded fin, drill 1/8" diameter holes in the fin every 12". Drive a 2" galvanized roofing nail into each of the pre-punched and pre-drilled holes.

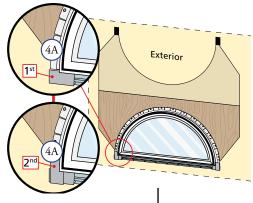
For flexible fins: Drive nails until the head contacts the fin, however DO NOT sink the head. This allows for movement of building materials.

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

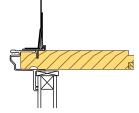


4 INTEGRATING THE WINDOW TO THE WATER RESISTIVE BARRIER

A. Units that do not have pre-applied fin corners: Cut four pieces of flashing tape 1-1/2" long. Apply one piece of flashing tape to each end of the sill fin so that it extends 1-1/2" past the end of the sill fin. Apply one piece of flashing tape to the bottom end of each flexible vinyl fin, beginning 1-1/2" from the end of the fin, and lapping over the flashing tape that extends from the end of the sill fin.



Note: The flashing tape must be applied approximately 1/2" onto the frame cladding at the jambs and head. Pre-folding the tape at 1/2" before removing the paper backing will make it easier to apply the tape correctly. If the siding is less than 1/2" thick, adjust the dimension of the fold so the exterior sealant line will cover the exterior edge of the tape.



Exterior

B. **Apply side flashing tape.** Cut two pieces of flashing tape 5" longer than the frame height of the window. Position the tape so it laps 1/2" onto the frame cladding, covers the fin and laps onto the water resistive barrier. The tape should extend 2" above the top of the window and 3" below the bottom of the window. Press the tape down firmly while folding down the excess tape at the top and bottom of the window.

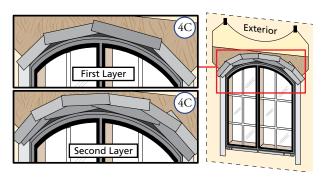
Note: DO NOT tape or seal the bottom nailing fin.

C. Circle top window:

Apply top flashing tape. First layer: 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 weatherstrip. 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.

Second layer: Apply a second layer of tape just above and overlapping the first layer of flashing tape by 1" and offsetting the seams of the first layer. Press the tape down firmly.



C1. Rectangular window:

Apply top flashing tape. Cut two pieces of flashing tape long enough to go across the top of the window and extend 1" past the flashing tape on both sides. Apply one piece of tape lapping it 1/2" onto the frame cladding, covering the fin and lapping onto the water resistive barrier. Fold the overlapping tape down, and press all tape down firmly. Apply the second piece of tape just above and overlapping the first piece of flashing tape by 1". Press the tape down firmly.

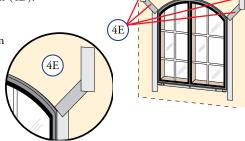
C2. Angle top window:

Apply top flashing tape. On the short side of a trapezoid window, DO NOT allow the side flashing tape to extend higher than the top tape will cover.

D. **Fold down top flap** of water resistive barrier (4D).

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 resistive water barrier at both upper corners of the window.

Note: Be sure to overlap the top corners (4E).



Exterior

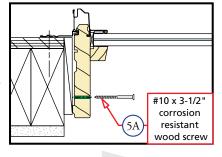
Note: If installing the window using installation clips, proceed to Step 6 - Installation Clip Method.

5 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.

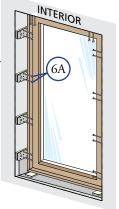
Proceed to Step 7.



6 INSTALLATION CLIP METHOD

A. **Fasten the window to the opening** by driving two #6 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. For masonry openings use two 3/16" x 1-1/2" masonry screws per clip. Pre-drill the masonry before attempting to drive the screws in.



7 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.

Interior

6A

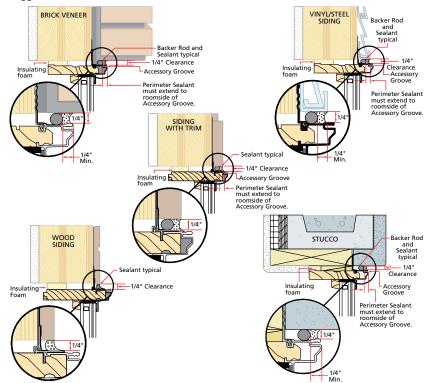
A. **Apply insulating foam sealant.** From the interior, insert the nozzle of the applicator approximately 1" deep into the space between the window and the rough opening and apply a 1" deep bead of foam. This will allow room for expansion of the foam and will minimize squeeze out. If using foam other than Great Stuff TM 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.

8 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.



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SEALING THE WINDOW TO THE EXTERIOR WALL CLADDING (continued)

A. **Insert backer rod** into the space around the window to provide approximately 1/4" clearance between the backer rod and the exterior face of the window.

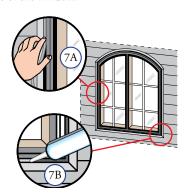
Note: Backer rod adds shape and depth for the sealant line.

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

Note: For wood siding applications, when using the flexible fin, ensure the sealant head covers the exterior edge of the fin weather-strip.

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.



9 INTERIOR FINISH

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 stain or finish the vertical and horizontal sash edges.
- On single-hung and double-hung, 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 weatherstripping, 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 got 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*.

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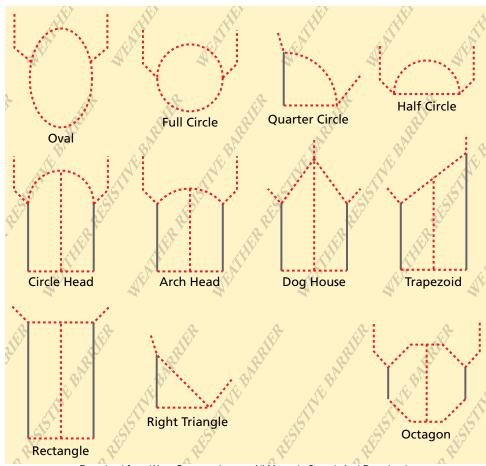
IMPORTANT NOTICE

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 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 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 installation instructions.

Product modifications that are not approved by Pella Corporation will void the Limited Warranty.

ADDITIONAL CUTTING PATTERNS



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