# Pella

#### IMPORTANT SAFETY AND PRODUCT INFORMATION - WINDOW

**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 and/or go to www.epa.gov/lead for more information.



**WARNING:** To ensure safety and security and help prevent property damage, including possible damage to your window or door, close and lock windows and doors any time they are not being used for venting on a nice day, and particularly during high winds or rain.

# **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 warranty.

#### **Care and Maintenance**

Care and maintenance information is available by contacting your local Pella retailer. This information is also available at www.pella.com.

## **Cleaning Instructions**

GLASS: Remove any protective film and 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.

FACTORY FINISHED PRODUCT: Pella product that has been prefinished with stain or paint from the factory requires no additional finishing. Clean the surface with mild soap and water.

PELLA® ALUMINUM CLAD OR IMPERVIA FRAMES: The interior and exterior frame and sash are protected with a tough factory finish. 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.

ENCOMPASS BY PELLA®, PELLA® 150 SERIES AND PELLA® 250 SERIES AND WINDOWS FRAMES: The vinyl frame may be cleaned using the same method as the glass. 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. Do not use Isopropyl Alcohol on laminated surfaces as it will damage the finish. Keep door tracks clear of dirt and debris. Keep weep holes open and clear of obstructions.

DO NOT use abrasives. DO NOT scrape or use tools that might damage the surface.

**Notice:** DO NOT use inappropriate solvents or brickwash or cleaning chemicals. If you do, permanent damage can result and the product failure, loss or damage would not be covered by the Limited Warranty.

# **Interior Finish (Wood Windows)**

Paint or finish immediately after installation.

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.

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. If paint, stain or finish gets on the weatherstripping, wipe it off immediately with a damp cloth.

Window Cleaning and Prep Instructions for Unfinished or Primed windows: Dry wipe dust from windows gently. Examine window for possible smudges or fingerprints made from normal handling or construction. To remove smudges, lightly wipe surface with warm water. Scuff sand with light grade sand paper or abrasive pad (220 grit or higher). Rinse surface with warm water. Let window surfaces dry completely before applying finish.

Finish the windows as soon as possible after installation.

- 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.

Pella Corporation is not responsible for interior paint and stain finish imperfections for any product that is not factory-applied by Pella Corporation. For additional information on finishing see the Pella Owner's Manual or go to www.pella.com.

The use of unapproved finishes, solvents or cleaning chemicals may cause adverse reactions with door materials. Pella will not be responsible for problems caused by the use of unapproved materials. If in doubt, contact your local retailer or representative.

### **Exterior Finish of Existing Frame (Pocket Replacement)**

It is the responsibility of the homeowner, contractor or installer to ensure any exposed unfinished wood is covered or finished. Possible methods include, however are not limited to, covering with aluminum coil stock or painting.

**BMFF-2** Revised 03/31/2023 © 2019 Pella Corporation FF\_EEXT\_IRW



# FULL FRAME OR SASH REMOVAL WHEN PREPARING TO INSTALL A NEW WINDOW WITH BRICKMOULD OR FLUSH FLANGE

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 and/or go to www.epa.gov/lead for more information.

### REMEMBER TO USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.

Apply adhesive film or duct tape to the glass to prevent breakage.

# 1

# ALUMINUM SASH AND/OR FRAME REMOVAL

- A. Score the paint or varnish between the interior trim and the wall or between the drywall return and the window frame to minimize damage. (Frame removal only).
- B. Remove the interior trim.
- C. Score the sealant or paint between the exterior siding or brick and the window frame.
- D. Remove the screen and vent sash from the old window. If it is not removable, see steps G-I.
- E. Remove the division bar by removing the screws at the ends or cutting it with a reciprocating saw.
- F. Remove the other sash/panel. Remove any screws holding the fixed sash. Slide it and lift it out of the channel (sliding windows) or tilt it and release it from the balance assembly (hung windows).

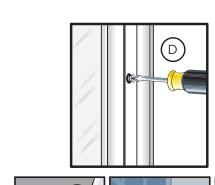
# If the sashes are not removable or the glass is sealed to the frame:

- G. Remove the glazing bead using a putty knife or small pry bar.
- H. For single pane windows with divided lights (grids). Use an angle grinder with a cut-off wheel to cut the end of the bars where they intersect with the sash or frame. This will allow the window glass to be removed more quickly.
- I. Heat the glazing seal using an electric heat gun.
- J. While applying heat, press a de-glazing wheel between the glass and sash or frame. Continue around the perimeter of the sash or panel. Apply light, constant pressure to separate the glass from the sash or frame. Dispose or recycle of the glass properly.

NOTE: Wear appropriate personal protective equipment and keep the heat source away from flammable materials.

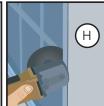
Stop here for pocket replacement, complete steps K-L for full frame replacement.

- K. Cut through the frame using a reciprocating saw.
- L. Pry the frame away from the brick or siding. Use a block of wood under the pry bar to protect interior or exterior finishes. Dispose or recycle of the frame materials properly.

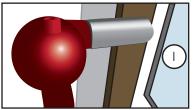




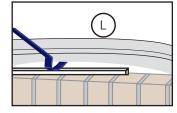














# 2

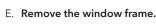
# **BRICKMOULD FRAME REMOVAL**

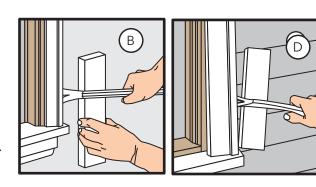
- A. Score paint or varnish between the interior trim and the wall with a sharp utility knife.

  NOTE: This will minimize the damage to the interior wall and trim.
- B. Remove the interior trim. Remove the interior trim from all the four sides of the window including the stool at the bottom of the window. If the interior trim is being reused, pull the nails out through the back side of the board with nipper pliers.
- C. Cut the exterior sealant line between the exterior brickmould or trim and the exterior siding or wall cladding.
- D. Remove the exterior brickmould or flat trim.

  CAUTION: Some windows may come out of the opening as the exterior trim is removed.

NOTE: DO NOT disturb existing head flashings.





Consult with local providers and authorities to recycle or properly dispose of old window components.

# PREPARING FOR BRICKMOULD OR FLUSH FLANGE WINDOW INSTALLATION



#### YOU WILL NEED TO SUPPLY:

- Moisture resistant shims/spacers
- Fasteners (see nail fin anchor instructions and tables at the end of this booklet)
- Closed cell foam backer rod/sealant backer
- Pella® SmartFlash™ foil backed butyl window and door flashing tape or equivalent
- Low expansion, low pressure polyurethane insulating window and door foam sealant. DO NOT use high pressure or latex foams.
- Pella Window and Door Installation Sealant or equivalent high quality, multi-purpose sealant



#### **TOOLS REQUIRED:**

- Tape measure Level Square Hammer
- Stapler
- Scissors or utility knife
- Small flat blade screwdriver
- Sealant Gun
- Screw Gun with a Phillips Driver bit
- Drill with 1/8", 5/32", 3/1 & 3/8" drill bits
- 1/8" Allen wrench

Other construction materials may be required. Read and understand the instructions and inspect the wall conditions before you begin.

Store windows in upright position, out of direct sunlight.

# INSTALLATION WILL REQUIRE (2) OR MORE PERSONS FOR SAFETY REASONS.

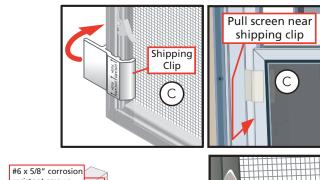
# **Preparing for Installation**

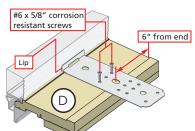
- A. Remove plastic wrap and cardboard packaging from the window. On laminate units, remove protective film from parts. Do not cut checkrail bands (if present) or remove plastic or foam shipping spacers located between the window sash and frame. DO NOT open the window until it is securely
- B. Inspect the product for any damage such as cracks, dents or scratches. DO NOT install damaged windows.
- C. Remove screens and hardware (if necessary). Label them and set aside in a protected area.

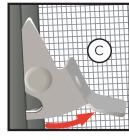
Windows with Half Screens: From the exterior, pull one side of the screen near the shipping clips until the clips disengage from the frame. Rotate the shipping clips toward the exterior of the screen until they snap free from the screen.

Half screens of some vinyl windows can be removed from the interior.

- D. Pre-Drill Installation holes or install clips (if necessary). See frame anchor instructions at the end of this booklet.'
- E. Before Installation, remove dirt and debris from all surfaces of the opening.
- F. Read the entire instruction before proceeding.



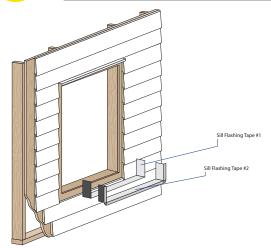




These instructions were developed and tested for use with wall systems designed to manage water. These instructions are not to be used with any other construction methods or window frame types. Installation instructions for use with other construction methods or frame types may be obtained from Pella Corporation, your local Pella retailer or www.installpella.com. Building designs, construction methods, building materials, and site conditions unique to your project may require an installation method different from these instructions and/or additional care. Determining the appropriate installation method is the responsibility of you, your architect, or construction professional.



# FULL FRAME REPLACEMENT WITH WOOD OR ENDURACLAD BRICKMOULD – FULL FRAME RE-PLACEMENT OF WOOD BRICKMOULD WINDOWS WITH NEW PELLA® ENDURACLAD® EXTERIOR TRIM OR WOOD BRICKMOULD PRODUCTS



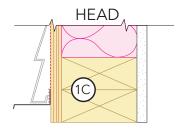
# 1 Prepare the Opening

Refer to the brickmould frame removal instructions at the beginning of this booklet.

- A. **Measure the width and height** of the brick/siding opening and the rough opening. The new brickmould must be 1/2" to 3/4" smaller than the brick/siding opening. The new window frame must be 1/2" to 3/4" smaller than the rough opening.
- B. Repair the wall surface around the opening (if necessary) by installing new blocking flush with the surface of the existing sheathing. Repair the existing building wrap with by cutting it flush with the rough opening and covering any gaps with flashing tape.

# **Applications with Building Wrap**

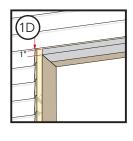
C. **Install head flashing** by applying sealant to the back of the upturned leg and inserting the upturned leg behind the building wrap as shown.

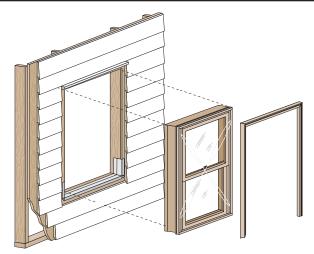


#### Applications without Building Wrap (steps D and E).

- D. Cut a piece of flashing tape equal to the width of the rough opening.
- E. Apply the tape across the top of the rough opening so it extends onto the surface of the wall at least 1".







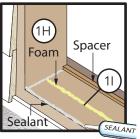
# Prepare the Opening (continued)

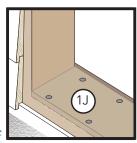
In place of the existing wood subsill, install a sloped sill. (Steps F-J).

- F. Cut an approx. 1/4" thick spacer equal to the width of the rough opening. Reduce the thickness (if necessary) to maintain enough opening height for window installation. Set the spacer along the interior of the sill.
- G. **Cut 3/4" thick blocking** (typically a 1x6) equal to the width of the rough opening.
- H. Apply a 1/4" diameter bead of sealant along the sides and front edge of the opening sill.

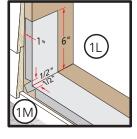


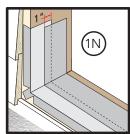
J. **Set and fasten the 3/4" thick blocking** on the spacer with nails or screws creating a sloped surface.





- K. Cut 2 pieces of flashing tape 12" longer than opening width.
- L. Apply sill flashing tape #1 at the sill extending 1" to the exterior and 6" up each jamb.
- M. Cut 1" wide tabs at each corner by tearing the foil 1/2" each way from corner.
- N. Apply sill flashing tape #2 overlapping tape #1 by 1" minimum. NOTE: Press all tape down firmly.







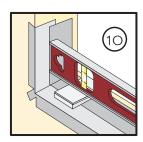


# Prepare the Opening (continued)

- O. Install and level wedge shaped sill shims.

  Place 1" wide x 1/4" to 3/8" thick shims 1/2" from each side. Place additional shims under each mullion. Keep shims back 1/2" from the interior face of the window. Use wedge shaped shims to make a level surface for the window to set on.
- P. Attach shims to prevent movement after they are level.

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

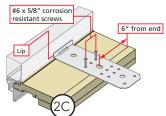


# **2** Prepare the Window

- A. Remove the packaging. Leave installation straps in place. (Enduraclad exterior trim only) Installation straps aide in pulling the brickmould tight against the wall surface.
- B. For frame screw attachment; drill pilot holes in the window frame.
- C. For installation clip attachment; use two #6 x 5/8" screws through the clip with the clip on its back.

Refer to the screw spacing instructions at the end of this booklet.





# 3 Set and Fasten the Winder

A. Place a continuous 3/8" bead of sealant on the surface of the wall where the brickmould will be placed. Leave 2" gaps near each jamb along the sill.



# **3** Set and Fasten the Window (Continued)

- B. Insert the window into the opening by placing the front edge of the window sill on the opening sill and tilting the window up. Center the window between jambs.
- C. Wood Brickmould units only: Drive 16d galvanized finished nails at each upper corner through the brickmould and into the wood buck.
- D. Cut the cord to free up the installation straps (Enduraclad exterior trim only) and use a quick grip clamp with reversed jaws to push against the wall and pull the window against the opening.
- E. Place sealant under each clip (if applicable).
- F. Place shims and begin driving screws at each predrilled hole in the window frame or each clip. Use the quick

grip clamp to fully embed the brickmould in the sealant and to make the distance from the interior of the new window to the surface of wall equal all around the window.

Refer to the anchor instructions at the end of this booklet.

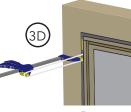
Keep shims 1/2" from the interior surface of the window to allow for a continuous interior seal.

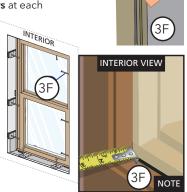
 ${\sf G.} \ \ \textbf{Check window operation.}$ 

**Vent Awning and Casement:** Refer to applicable hardware instructions. Unlock and open the window to remove the shipping spacers. Open and close the window to test for proper operation.

**Double-Hung:** Cut the checkrail bands (if applicable) and remove shipping spacers. Open, close and tilt the sashes to test for proper operation. Check for equal sash to frame reveal from top to bottom.

- H. Check for plumb, level, and square. Make any necessary adjustments to shims and finish installing frame screws or clip anchors.
- Install interior sealant. Refer to the interior sealant instructions at the end of this booklet. Use additional sealant around clips to prevent air and water infiltration (if applicable).
- J. Install exterior sealant between the edge of the brickmould and the finished wall material. Refer to the exterior sealant instructions at the end of this booklet









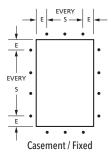
### ADVANCED PERFORMANCE AND IMPACT-RESISTANT

Pella® Impact-Resistant Products have been tested in accordance with the large missile impact testing requirements of ASTM E 1886 and ASTM E 1996. Pella Impact-Resistant 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.

Advanced performance and Impact-Resistant require the use of installation clips or screws through the frame. The use of fins or EnduraClad Exterior Trim is optional and will not affect anchorage requirements. Local building codes may have additional anchoring requirements.

Refer to FPAS installation instructions when applicable.

# PLACE FRAME SCREWS OR CLIPS AT THE LOCATIONS INDICATED.



#### **ARCHITECT SERIES® (850), IMPACT-RESISTANT WINDOW ANCHOR SPACING INSTRUCTIONS**

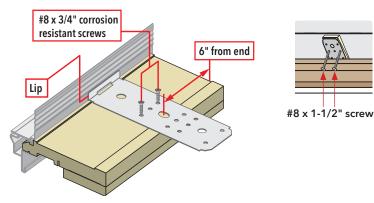
Product	Edge Spacing (E)	Max. Intermediate Spacing (S)	Fastener	Special Notes
			Wood *	
Casement/Awning	4"	15"	#10 x 3-1/2"	
Fixed Frame	6"	10"	#10 x 3-1/2"	PG 90 up to 60" x 60". Larger sizes are PG 60

<sup>\*</sup> For concrete or masonry, use 3/16" masonry screws with 1-1/4" minimum embedment.

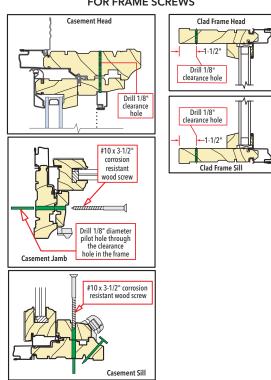
Refer to the supplemental instruction included with the unit for securing mullion end anchors (if applicable).

## CASEMENT/AWNING OR FIXED FRAME

# Installation Clip Attachment



# PILOT HOLE LOCATIONS AND SIZES FOR FRAME SCREWS





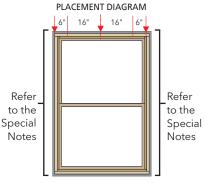
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Advanced performance and Impact-Resistant require the use of installation clips or screws through the frame. The use of fins or EnduraClad Exterior Trim is optional and will not affect anchorage requirements. Local building codes may have additional anchoring requirements.

Refer to FPAS installation instructions when applicable.

# PLACE FRAME SCREWS OR CLIPS AT THE LOCATIONS INDICATED.



#### No anchors required at sill

### ARCHITECT SERIES® (850), IMPACT-RESISTANT WINDOW ANCHOR SPACING INSTRUCTIONS

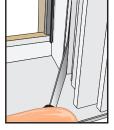
Product	Edge Spacing (E)	Max. Intermediate Spacing (S)	Fastener	Special Notes
			Wood *	
Double, Single or Simulated Hung	6" (Head)	16" (Head)	#8 x 3"	Remove sashes and jamb covers. Drive 1 screw though each jamb liner support clip (top, bottom, checkrail and center of each sash). Drive 2 additional screws (or secure clips) 3" above and below the checkrail on each jamb. Drive additional screws (or secure clips) centered between each jamb liner support clip.

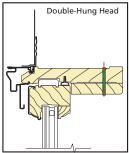
<sup>\*</sup> For concrete or masonry, use 3/16" masonry screws with 1-1/4" minimum embedment. Refer to the supplemental instruction included with the unit for securing mullion end anchors (if applicable).

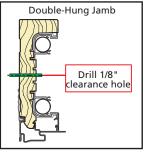
- A. Simulated-hung only: Remove the simulated-hung lock by removing the four screws from each lock.
- B. **Remove the lower sash.** Raise the sash 6" or more and locate the two finger slides on the lower sash check rail. At the same time, slide each toward the center of the sash to disengage the wash lock stops and pull the sash towards the room side. The sash will tilt from the bottom.
- C. With the sash parallel to the floor, lift one side of the lower sash until the terminal is removed from the balance shoe. Continue to lift the sash up until the terminal is released from the opposite side of the sash and can be removed from the shoe. Lift the sash up and out of the window frame. Repeat for both sashes. Set the sash in a safe location.
- D. Gently pry out the bottom of the jamb insert and remove it completely.
- E. Shim behind each anchor location on both jambs.
- F. **Drill pilot holes through** the window frame into the rough opening. Install screws.



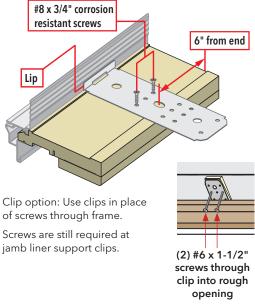








# Clip Anchor Method Only





Screws through jamb



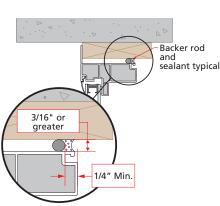
Monumental Hung jamb liner support clip

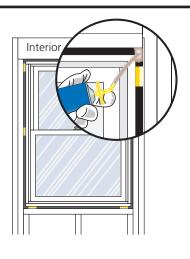


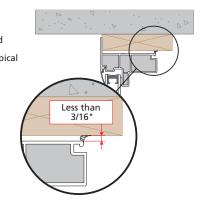
# **Interior Sealant Instructions**

CAUTION: Continuous backer rod (as necessary) and a high quality, low-odor interior sealant such as Pella Window and Door Installation Sealant (or equivalent) is recommended for commercial or high performance installations to create the continuous interior seal. Follow the directions on the cartridge. For standard performance or products with factory applied jamb extensions, use low pressure polyurethane insulating foams. Follow the directions on the can. Do not use high pressure or latex foams. Fiberglass batt or similar insulation is not recommended as it can absorb water and does not act as an air seal.

- A. Insert the nozzle or straw between the rough opening and window frame. This can be done from the interior or exterior.
- B. Place a 1" deep bead of foam approx. 1" from the interior of the frame to allow for expansion. DO NOT fill the entire depth of the rough opening cavity.
  - NOTE: Apply foam between the frame and rough opening, NOT between jamb extensions and the rough opening.
- C. **Re-Check window operation** and remove remaining shipping spacers after foam installation. Excess foam may be removed with a serrated knife after it cures.
- D. To ensure a continuous interior seal, apply sealant over or around any shims or clips interrupting the foam seal.
  - Use sealant instead of foam at all 4 sides on the interior of 1/2" flange vinyl windows installed in masonry construction with precast sills. Add backer rod if the gap exceeds 3/16".







### **Exterior Sealant Instructions**

CAUTION: Use a high quality, multi-purpose exterior sealant such as Pella Window and Door Installation Sealant. Follow the directions on the cartridge.

#### Flush Flange Windows

Place a corner bead of sealant on the top, sides and bottom of the window along the edge of the flush flange where it meets the stucco. Leave a 2" gap in the sealant bead at the bottom below the weep hole location in the existing aluminum frame.

#### **Brickmould Windows**

If the space between the new window brickmould and the opening is less than 1/4", go to step (B).

- A. Insert backer rod 3/8" deep in the space around the window. Backer rod adds shape and controls the depth of the sealant line.
- B. Apply a continuous bead of sealant to the entire perimeter of the window. Do not block weep holes or weep hoods with sealant.
- C. Shape, tool and clean excess sealant. When finished, the sealant should be the shape of an hourglass.

