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 may be obtained from Pella® Corporation or a local Pella retailer. 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.

Handling and Storage:
Provide full support under the framework while storing, moving and installing this product. DO NOT lift the product by the head member only. Remove the plastic shipping material prior to storing or installing the product. DO NOT store in direct sunlight. Allow sufficient spacing between products for ventilation.

YOU WILL NEED TO SUPPLY:
- Cedar shims/spacers (12 to 20)
- Closed cell foam backer rod/sealant backer (12 to 30 ft.)
- Pella® SmartFlash™ foil backed butyl window and door flashing tape or equivalent
- 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.
- High quality exterior grade polyurethane or silicone sealant (1 tube per window)

For Masonry Applications Only:
- 3/16” x 2-3/4” hex head corrosion resistant masonry screw

TOOLS REQUIRED:
- Tape measure
- Level
- Square
- Hammer
- Screwdrivers (#2 Phillips and Flat blade)
- Drill
- Sealant gun

Installation will require two or more persons for safety reasons.

Remember to use appropriate personal protective equipment.

Always read the Vinyl Window and Door Limited Warranty before purchasing or installing Vinyl Windows and Doors manufactured by Pella Corporation. 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.
Remove packing material from the window.  
*Note: Check the new window for any cracks or penetrations in the frame. DO NOT install damaged units.*

## 1 PREPARE THE OPENING

A. **Prepare the rough opening.** It must be the correct size (window frame plus 1/2” in both width and height), square, plumb and the sill must be level. If needed, block in the rough opening on both sides, the top and the bottom.  
*Note: If installing new blocking, install the blocking so it’s flush with the exterior sheathing of the house. DO NOT attempt to install a window in an undersize opening.*

B. **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. If the sheathing or water resistive barrier is exposed, apply the flashing tape (1B) so it overhangs 1” onto the exterior or water resistive barrier.  
*Note: The tape is cut 12” longer than the width so that it will extend 6” up each side of the opening.*

C. **Tab the sill flashing tape and fold.** Cut 1” wide tabs at each corner (1/2” from each side of corner) (1C). Fold tape to the exterior and press firmly to adhere it to the water resistive barrier.  
*Note: This step is not required if the exterior trim has not been removed.*

D. **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 (1D).

E. **Install and level sill.** Place 1” wide by 1/4” thick shims on the bottom of the window opening, 1/2” from each side and beneath integral mullions. Place additional 1” wide by 1/4” thick shims, ensuring that the distance between shims is not more than 18” on center. Adjust shims as necessary to ensure the sill is level.

F. **Verify that the installation screws will fasten into solid wood.** If not, insert solid filler at screw locations.
A. **Locate** the package of installation screws and screw covers.

B. **Dry fit the window into the opening.** At the sill, position the window so that the exterior face of the frame extends a minimum of 1/2” onto the exterior wall material to allow for the application of backer rod and sealant (see illustrations in Step 3 for sealant details). Place a pencil mark at the interior of the window sill.

C. **Place the window into the opening,** by placing the window at the top of the opening. Align the interior of the window sill with the pencil mark. Center the window between the sides of the opening to allow clearance for shimming, and insert one #8 x 2-1/2” pan head stainless steel screw (provided) into each of the top installation holes on each side. This will hold the window in place while shimming it plumb and square.

   **Note:** For masonry applications use 3/16” x 2-3/4” hex head corrosion resistant masonry screws in place of the #8 x 2-1/2” screws.

D. **Place shims at each installation screw hole** between the window and the sides of the opening. Adjust the shims as required to plumb and square the window in the opening.

   **Note:** DO NOT shim above or below the window. DO NOT over shim.

E. **Fasten the window to the opening** by driving #8 x 2-1/2” pan head stainless steel screws (provided) into each of the installation holes.

F. **Insert a screw cover** (provided) into each installation screw hole.
3 SEALING THE WINDOW TO THE EXTERIOR WALL CLADDING

Note: The sealant details shown are standard recommendations from the sealant industry. Contact your sealant supplier for recommendations and instructions for these and any other applications.

BRICK VENEER
3-1/4" FRAME DEPTH
Backer rod and sealant typical
1/4" Min.
Insulating Foam

WOOD SIDING WITH TRIM
3-1/4" FRAME DEPTH
Backer rod and sealant typical
1/4" Min.
Insulating Foam

BRICK VENEER
2-11/16" FRAME DEPTH
Backer rod and sealant typical
1/4" Min.
Insulating Foam

WOOD SIDING WITH TRIM
2-11/16" FRAME DEPTH
Backer rod and sealant typical
1/4" Min.
Insulating Foam
A. Insert backer rod into the space around the window deep enough to provide at least a 1/4” clearance between the backer rod and the exterior face of the window. 
*Note: Backer rod adds shape and correct depth for the sealant line.*

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

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.*

### 4 INTERIOR SEAL

*Caution: Ensure use of low pressure polyurethane window and door installation 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 to bow and hinder operation.*

A. **Apply insulation foam.** From the interior, insert the nozzle between the window frame and the rough opening and apply a 1” deep bead of insulation, ensuring the insulating foam is between the window frame (not the jamb extension) and the rough opening. Also ensure the insulating foam contacts the flashing tape at the bottom of the rough opening. This will allow room for expansion of the foam and will minimize squeeze out. If using foam other than Great Stuff™ Window and Door Insulating Foam Sealant by the Dow Chemical Company, allow the foam to cure completely.

*Note: DO NOT completely fill the space from the back of the backer rod to the interior face of the opening.*
CLEANING INSTRUCTIONS
Remove 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. The vinyl frame may be cleaned as described above. 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. Keep weep holes open and clear of obstructions.

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.