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Part Number: GIF-000001800

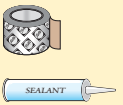
CLAD RECEPTOR SYSTEM INSTALLATION INSTRUCTION

The Receptor System provides adaptability of clad windows to existing openings. The Receptor permits the installation of the units from the inside of the building. Installation recommendations for other types of wall construction, wall systems, conditions, multiple windows or bow/bay windows, 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 on your part. Determining the appropriate installation method, components, and other design issues relevant to each project is the responsibility of you, your architect, or other construction professional. 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.

YOU WILL NEED THE FOLLOWING ITEMS:

Available from Pella Corporation:

- Pella SmartFlash flashing tape
- Pella Window and Door Installation Sealant or equivalent high quality, multi-purpose sealant



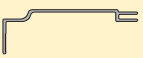
- Clad Wood Subsill #4049
- Subsill Clips #7366



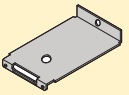
- 1" Frame Expander #47D4



- Receptor #72AK

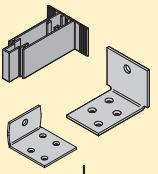


- Receptor Installation Clips #5027
- Vinyl Bulb Gasket #0DA9



Reinforcement Options:

- 2" Structural Receptor Mullion #0APK



- Receptor Mullion Head Anchor #50ED
- Receptor Mullion Sill Anchor #50EC
- Receptor Mullion for 2" Structure #01QC

TOOLS REQUIRED:

- Tape measure



- Level



- Square



- Hammer



- Drill



- Drill bits

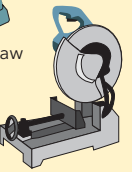
- Sealant gun



- Screw gun with a Phillips driver bit



- Metal Cutting Saw



- Pry bar



- Putty knife

Available from Others:

- #10 X 1-1/2" corrosion resistant pan head screws or equal (receptor/mullion anchor attachment)



- #8 X 1-1/4" corrosion resistant self-drilling pan head screws (clip attachment to receptor)



- #8 X 2-1/2" corrosion resistant flat head wood screw or equal (subsill attachment to wall)



- #8 X 2" trim head screws (window frame attachment to subsill)



- Impervious shims/spacers



- 3/16" X 2" PVC closed-cell foam adhesive backed tape by foamtapes.net (or equal).



- Closed cell foam backer rod



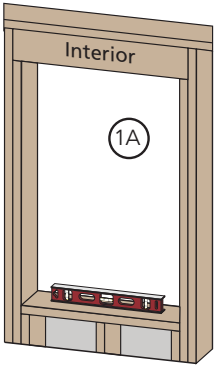
- Low expansion window and door insulating foam sealant





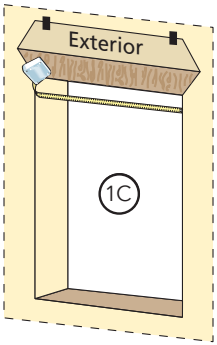
Always read the Pella® Limited Warranty before purchasing or installing Pella products. By installing this product, you are acknowledging that this Limited Warranty is part of the terms of the sale. Failure to comply with all Pella installation and maintenance instructions may void your Pella product warranty. See Limited Warranty for complete details at ***http:/warranty.pella.com.***

1 ROUGH OPENING PREPARATION:

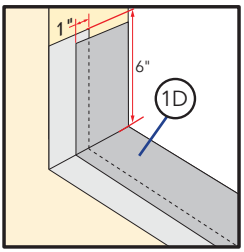


A. **Confirm opening sill is level.** If not, sill construction must be leveled prior to proceeding with installation.

B. **If structural vertical mullions are required;** locate, install and tie in with building construction. Refer to Step 5.



C. **Apply wall weather resistive barrier into opening** (as applicable).



D. **Cut flashing tape 12" longer than opening width,** to cover the sill depth.

E. **Apply flashing tape to the sill extending 6" up each jamb.**

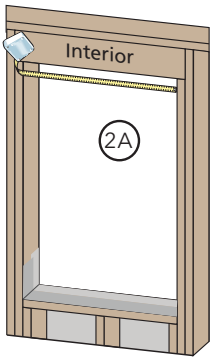
F. **Cut and apply additional sill flashing tape,** as needed per job requirements, overlapping tape by 1" minimum.

NOTE: Press all tape down firmly.

G. **If metal sill flashing will be used;** locate, attach and seal to opening. Incorporate with weather barrier and flashing tape applications.

2 RECEPTOR INSTALLATION:

Note: Location of receptor face from wall exterior finish or sheathing to be determined prior to start of installation



A. **Measure rough opening width at head** and cut receptor 1/8" less in length.

Note: If the window opening includes 2" structural vertical mullions, also refer to Step 5 of these instructions.

2 RECEPTOR INSTALLATION (CONTINUED):

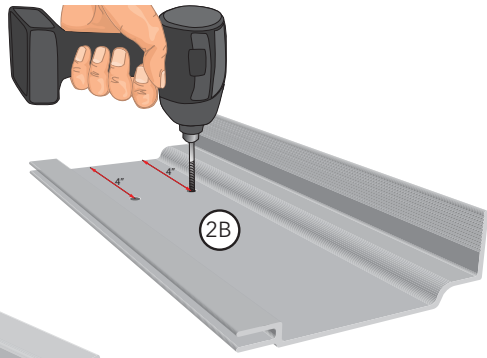
B. **Mark and drill two (2) anchorage holes in receptor 4" from ends** and 12" on center. Locate holes so the anchors will embed in solid wall construction when attaching receptor to opening jamb.

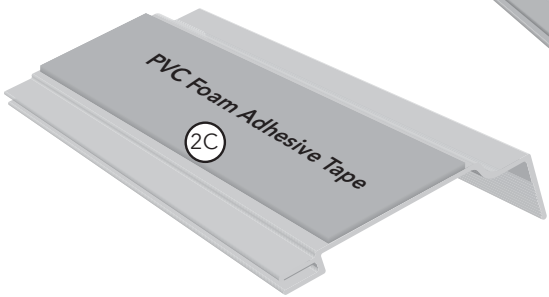
Note: If using self-drilling screws, drilling of receptor is optional.

C. **Apply continuous PVC foam adhesive backed tape to back side of receptor.**

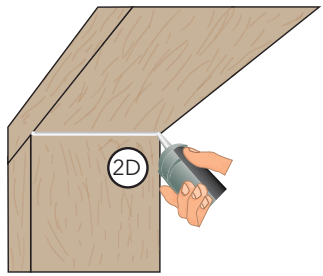
Optional: No foam tape – apply 2 lines of continuous sealant.

Note: If receptors require shims to level and plumb, apply additional backer rod and sealant to properly seal to the wall construction at the interior and exterior after installation.



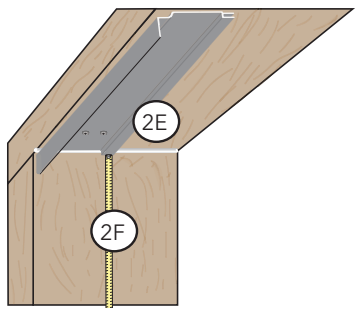


D. **Apply 1/2" bead of sealant** at upper two opening corners, (apply to depth of receptor).



E. **Attach receptor to head of opening** in predetermined location. Use #10 X 1-1/2" corrosion resistant pan head screws (or as required). Ends of receptor will embed in corner bead of sealant previously applied.

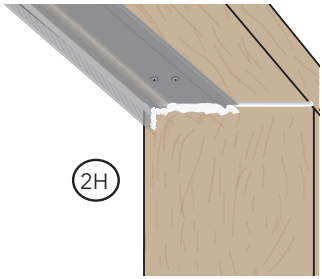
F. **Measure for jamb receptors** by measuring from inside of head receptor to opening sill. Cut jamb receptor pieces 1/8" less in length.



2 RECEPTOR INSTALLATION (CONTINUED):

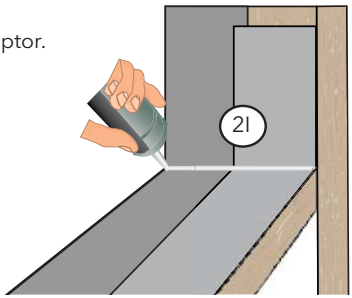
G. **Mark and drill anchorage holes in jamb receptor** and apply PVC foam adhesive backed tape per Steps 2B & 2C

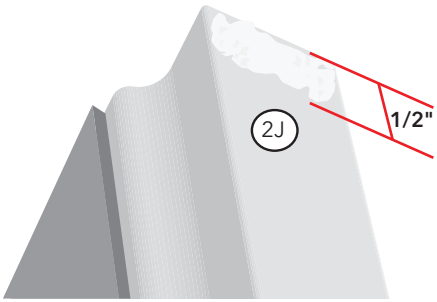
H. **Apply second bead of sealant** at inside upper corners of head receptor.



I. **Apply 1/2" bead of sealant at lower two opening corners,** where jamb meets sill; apply to depth of receptor.

J. **Apply sealant to upper 1/2" face** of jamb receptors.



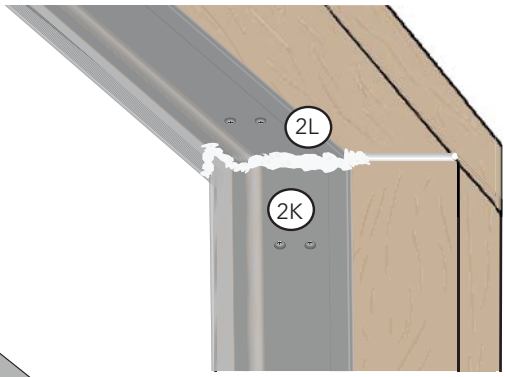


K. **Install jamb receptor behind face of head receptor.** Plumb jamb receptor and attach to opening jamb. Use #10 X 1-1/2" corrosion resistant screws (or as required) at each pre-drilled hole. Ends of receptor will embed in corner beads of sealant previously applied.

L. **Apply additional sealant** to inside corner of head/jamb receptor to seal all joints.

M. **Apply additional sealant** at inside base of jamb receptor at sill to fully seal to opening.





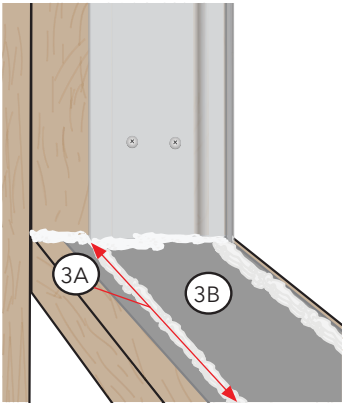
3 SUBSILL INSTALLATION AND EXTERIOR PERIMETER SEAL:

A. **Measure distance between jamb receptors** at sill. Cut clad wood subsill length 1/8" less.

B. **Apply two 1/2" sealant beads** continuous along the width of the opening sill and tie in with sealant at bottom of receptor.

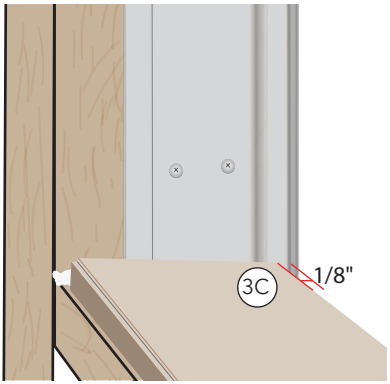
Note: If subsill requires shims to level, provide additional backer rod and sealant to properly seal to wall construction at interior and exterior after installation.

Do not shim between subsill and window sill.



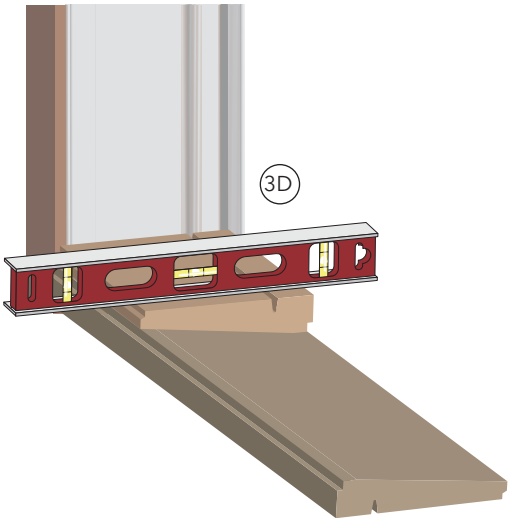
C. **Place subsill on the opening sill in the sealant leaving 1/8" gap between face of subsill** and interior side of receptor face.

Tip: Temporarily insert a plastic 1/8" thick shim/ spacer to maintain the space during attachment of the subsill.



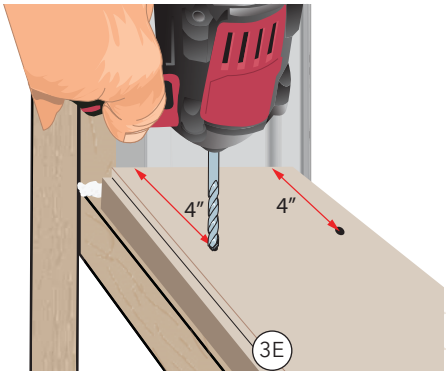
D. **Level subsill, jamb to jamb and front to back.**

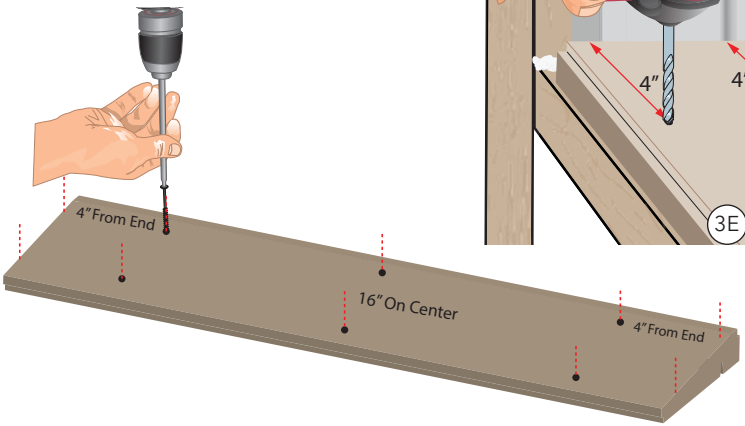
TIP: Use inverted short section of subsill to place level on.



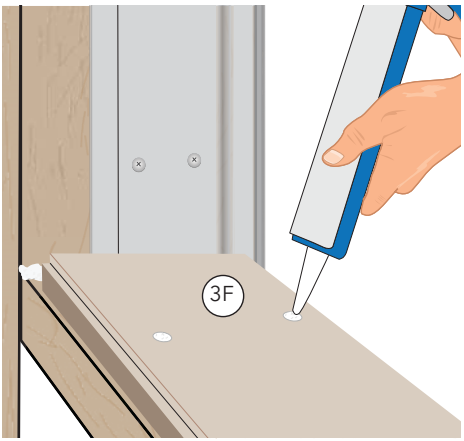
3 SUBSILL INSTALLATION AND EXTERIOR PERIMETER SEAL (CONTINUED):

E. **Attach subsill to opening sill with (2) #8 X 2-1/2" corrosion resistant screws** (or as required) at 4" from ends and not more than 16" on center.

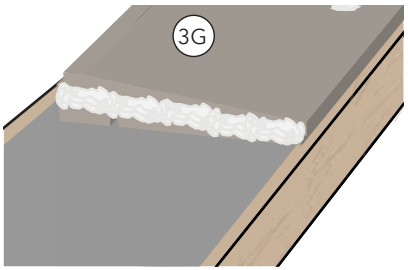




F. **Seal over screw holes in subsill** with sealant.

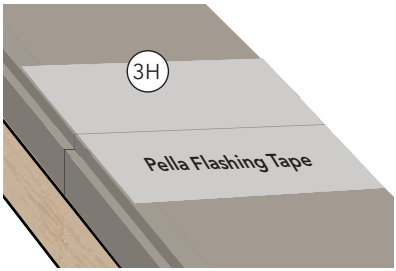


G. **Subsill Splice –** In Installations where splicing of the subsill is required; apply sealant to one end of subsill as shown and insert opposite subsill piece to fully compress sealant between subsill lengths.



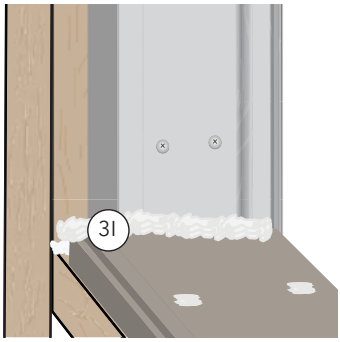
3 SUBSILL INSTALLATION AND EXTERIOR PERIMETER SEAL (CONTINUED):

H. **Subsill Splice** - Apply Pella flashing tape over top and exterior face edge of subsill splice.

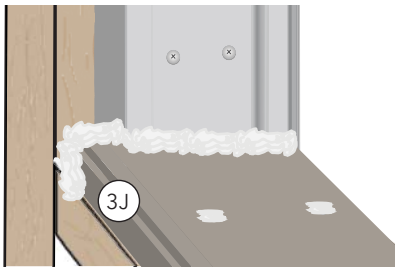


I. **Seal end of subsill to receptor jamb** with sealant completely filling cavity at subsill end.

Note: Do NOT apply sealant between back side of receptor face and face of subsill in areas shown in step 3C.

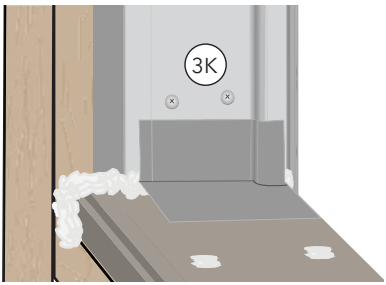


J. **Completely seal the interior** end of the subsill to the opening jamb.



K. **Apply Pella flashing tape** from inside of receptor jamb onto subsill top, covering previously applied sealant.

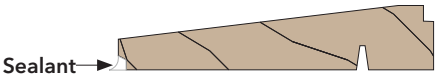
Note: Do NOT extend flashing tape beyond interior edge of receptor.

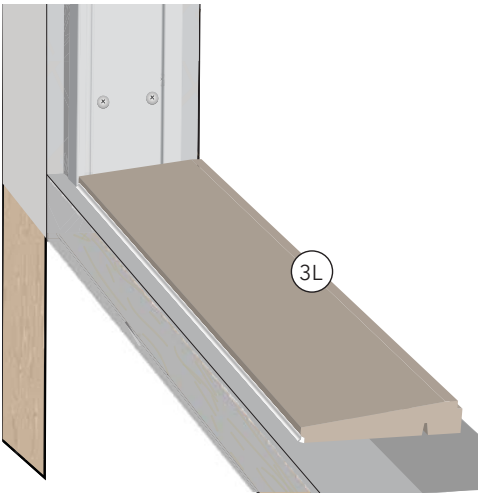


3 SUBSILL INSTALLATION AND EXTERIOR PERIMETER SEAL (CONTINUED):

L. **Apply and tool sealant in exterior face groove** of subsill, sealing subsill to wall construction (or flashing if used).

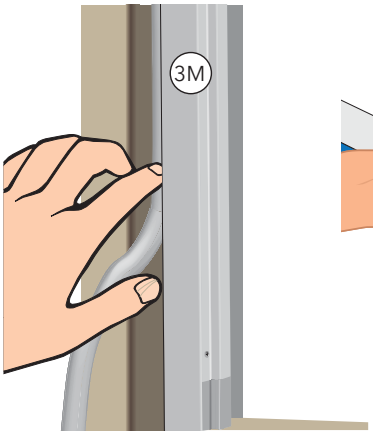
Note: Sealant must not extend exterior of the subsill nose. This step must be completed prior to installing windows with bottom frame expander.

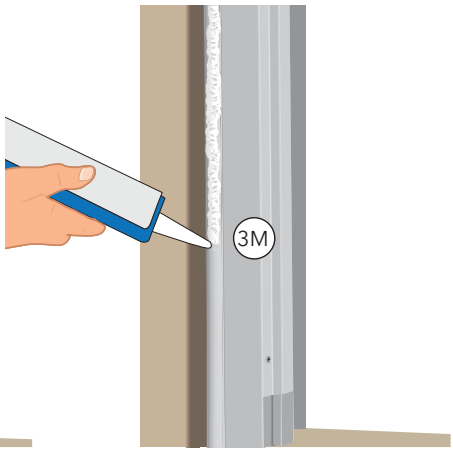




M. **Insert backer rod and seal exterior** perimeter edge of receptor to wall construction

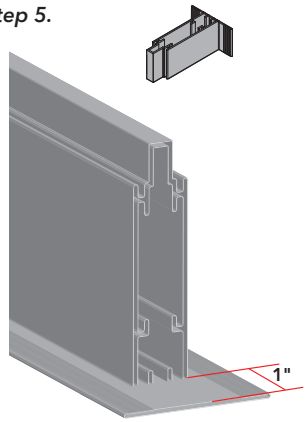
Note: This step must be completed prior to installing windows for full accessibility from interior to exterior.





4 2" STRUCTURAL RECEPTOR MULLION

Note: If Receptor Mullions 0APK are not required, skip to Step 5.

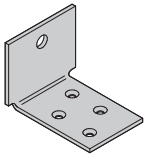


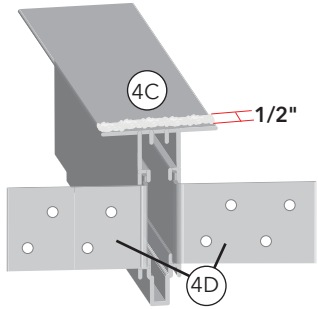
A. **Measure vertical distance from top interior flat surface of subsill** to inside of head receptor and add 7/8". Cut the 2" Structural Receptor Mullion to this length.

B. **At bottom end of mullion reinforcement** (sill end); cut back portion as shown 1" shorter than face.

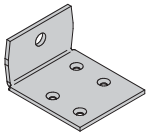
C. **Apply sealant to upper face** edge of mullion reinforcement.

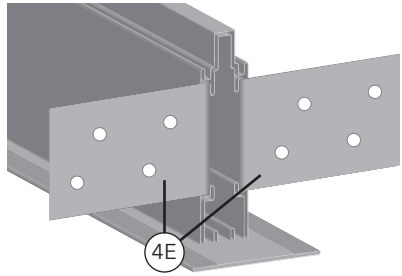
D. **Insert two Receptor Mullion Head Anchors #50ED** in top end of mullion





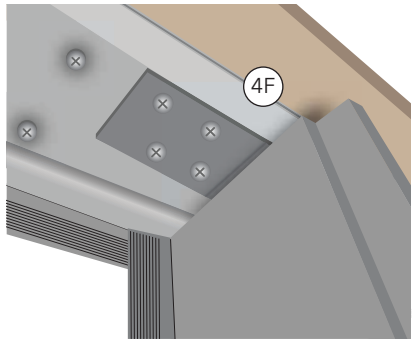
E. **Insert two Receptor Mullion Sill Anchor #50EC** in bottom end of mullion.





4 2" STRUCTURAL RECEPTOR MULLION (CONTINUED):

F. **Install Receptor Mullion** tight to inside face of the head receptor. After installation, attach anchors, (#10 x 2" corrosion resistant screws) through head receptor to wall construction with 4 screws each side obtaining 1-1/4" minimum wall embedment.

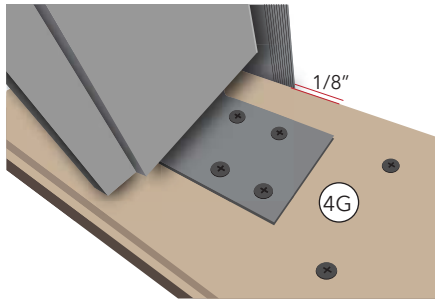


G. **Top end of the Receptor Mullion** sets behind and is sealed to the head receptor flange.

G. **Place Receptor Mullion on top of subsill,** providing 1/8" gap between face of subsill and interior side of mullion face.

Tip: Temporarily insert a plastic 1/8" thick shim/spacer at each side to maintain the space during attachment of the mullion.

After plumbing the mullion, attach anchors, (#10 x 2" corrosion resistant screws) through subsill to wall construction with 4 screws each side obtaining 1-1/4" minimum wall embedment.

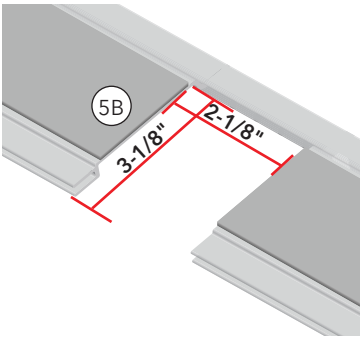


5 RECEPTOR MULLION FOR 2" STRUCTURAL MULLION:

Note: If Receptor Mullion #01QC is not required, skip to Step 6.

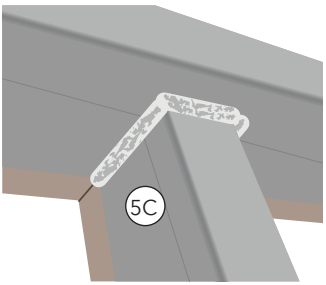
A. **Cut head receptor to length** and prepare as directed in Steps 2A-2C.

B. **At the location of the window opening structural mullion,** cut out a 2-1/8" X 3-1/8" section of the head receptor. Apply foam tape to back side.



C. **The structural mullion is required to be fully sealed** and integrated with the building weather barrier system.

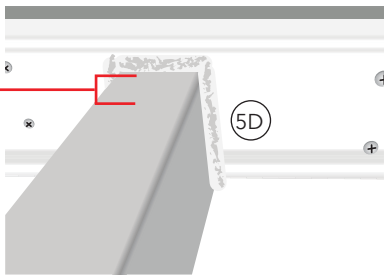
Apply a 1/2" bead of sealant at each side and exterior face at the top of the structure.



D. **Install the head receptor.**

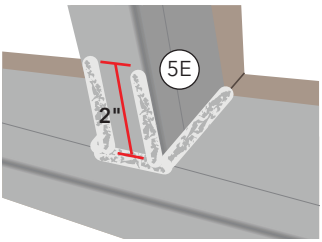
Allow 1" clearance from the face of the structural mullion to the interior face of the receptor to install the Receptor Mullion.

Apply additional sealant to fully seal the head receptor to the structure.



E. **At the base of the structural mullion,** apply 1/2" bead of sealant at each side and the exterior face.

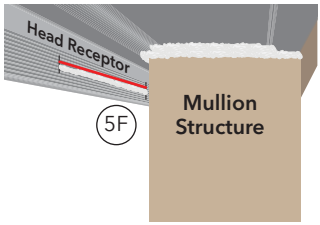
Extend lines of sealant 2" up each mullion face corner.

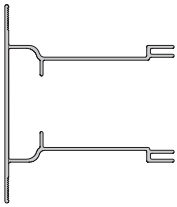


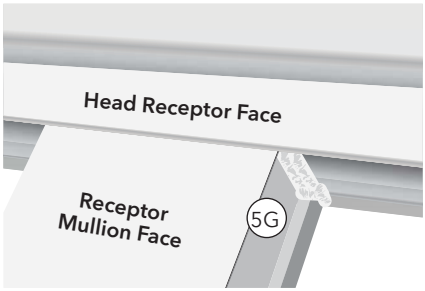
5 RECEPTOR MULLION FOR 2" STRUCTURAL MULLION (CONTINUED):

F. **Mark the width of the Receptor Mullion** on the inside of the head receptor. Apply a 3/8" bead of sealant at back side of the head receptor to match the width of the Receptor Mullion when installed.

G. **Install the top of the Receptor Mullion** behind the head receptor face.



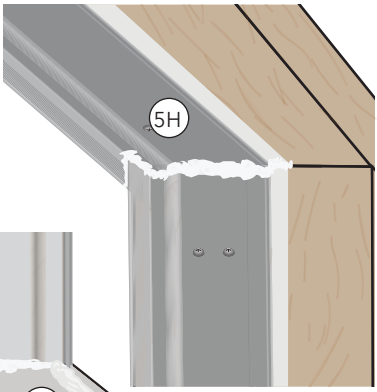


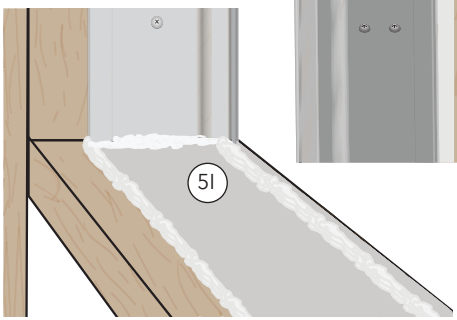


H. **Apply sealant within the corner areas** at the head to fully seal the Receptor Mullion to the head receptor.

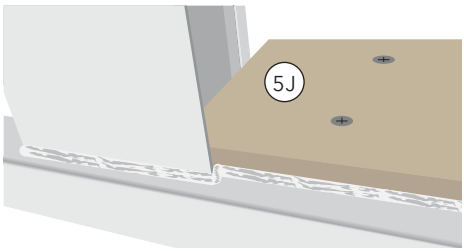
I. **Apply additional sealant at base of Receptor Mullion** to fully seal to the opening sill.

Apply sealant lines prior to installing the subsill. Refer to subsill instruction Steps 3.





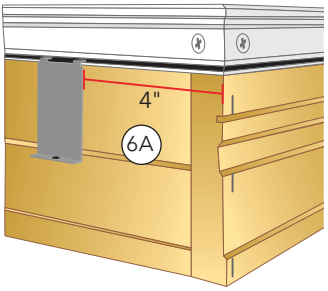
J. **Seal lower end of Receptor Mullion** face to wall construction (or sill flashing). Tie sealant in with sealant application behind receptor flange and face of subsill.



6 WINDOW PREPARATION:

A. **Attach Receptor Installation Clip #5027** into window head and jamb frame fin groove at 4" from ends and 12" on center.

Note: At composites with two or more window frames, space additional clips 4" from each side of joining mullion

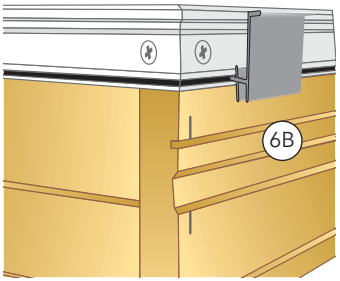


B. **Install Subsill Clips #7366 in window frame** fin groove at sill of window at 2" from jambs/mullions and 16" on center.

NOTE: At composites where 2" Structural Receptor Mullion is used, the clips located near the mullion will require placement of 2-1/2" from window edge to clear mullion end anchors.

Tip: To prevent the clips from moving during installation; apply a small piece of tape to hold the clip to the window frame.

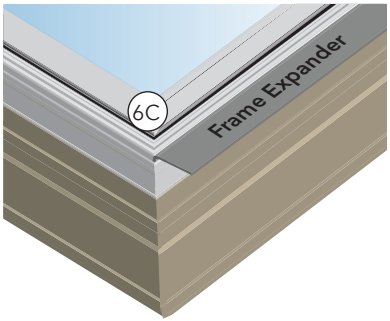




C. **Measure the width of total window frame** from accessory groove to opposite accessory groove and cut frame expander to length

Install the frame expander #47D4 to the sill of the window by tapping into the accessory groove using a hammer and soft wood block with rounded edges to prevent dents.

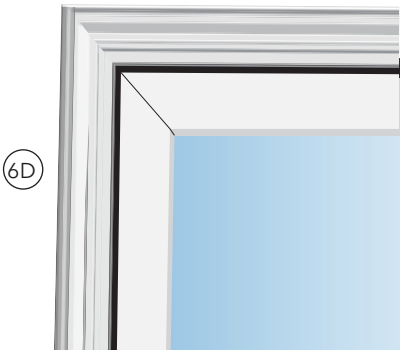




D. **Insert Vinyl Bulb Gasket #ODA9 into window frame accessory groove** at jambs.

Note: Gasket is not installed at window sill or head.



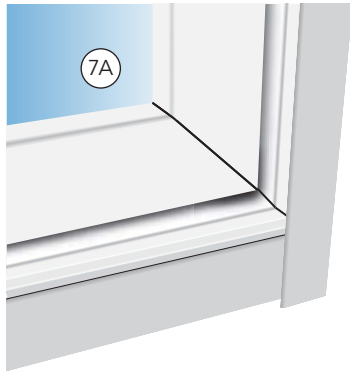


7 WINDOW INSTALLATION:

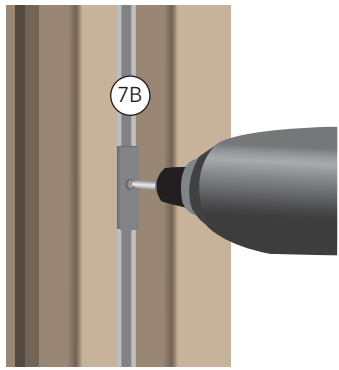
Note: Windows with Receptor Mullions are installed using same method as described in Step 7.

A. **Install window composite from interior.** Set bottom of window on top of subsill with face of window against receptor and tip top of window into receptor opening. Window frame and frame expander at sill will rest behind receptor face as shown. Center window between receptor jambs.

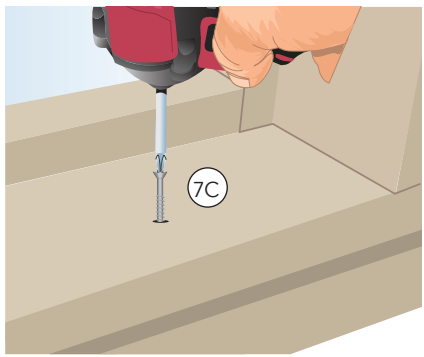
Note: Confirm window frame sill sits tight on top of subsill at interior.



B. **Using a small pry bar,** push clips over to align screw hole with groove in receptor. Attach clip to receptor with #8 X 1-1/4" self-drilling corrosion resistant screw. Apply pressure to window frame when anchoring in order to compress exterior bulb gasket to receptor flange. Anchor unit alternating from side to side. Shim units as required between receptor and window frame to keep jambs straight and unit square.



C. **Pre-drill and attach window sill to subsill** with #8 X 2" trim head screws at 4" from window frame edge and 16" on center (max.).

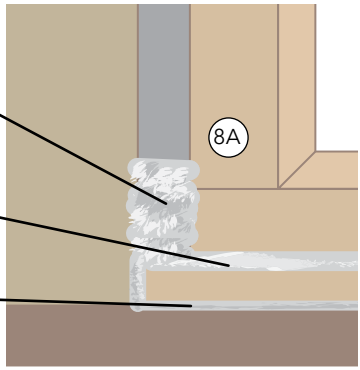


8 INTERIOR PERIMETER SEALANT:

A. **Apply a minimum 1-1/2" high sealant dam** between the window and opening jamb.

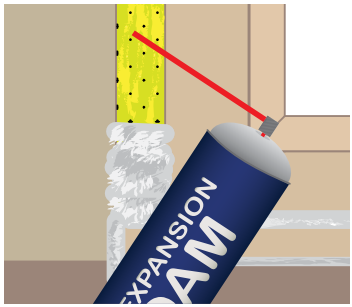
Apply continuous bead of sealant in the interior groove of subsill between bottom of window and subsill. Extend sealant all the way to jambs of window opening. Tool sealant to obtain full coverage between frame and subsill.

Apply sealant between interior bottom edge of the subsill and the opening sill.



B. **Apply low expansion window and door insulating foam sealant between window and the opening jamb at the full interior perimeter.** Tie in with previously applied caulk sealant at sill.

Optional: Backer rod and sealant may be applied at the window perimeter instead of foam sealant.

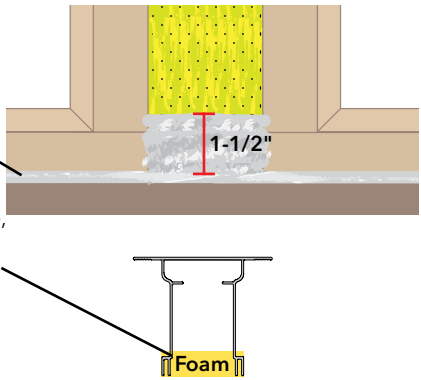


Windows with Receptor Mullions:

At the interior of the Receptor Mullion after the window installation, apply a 1-1/2" high sealant dam between windows.

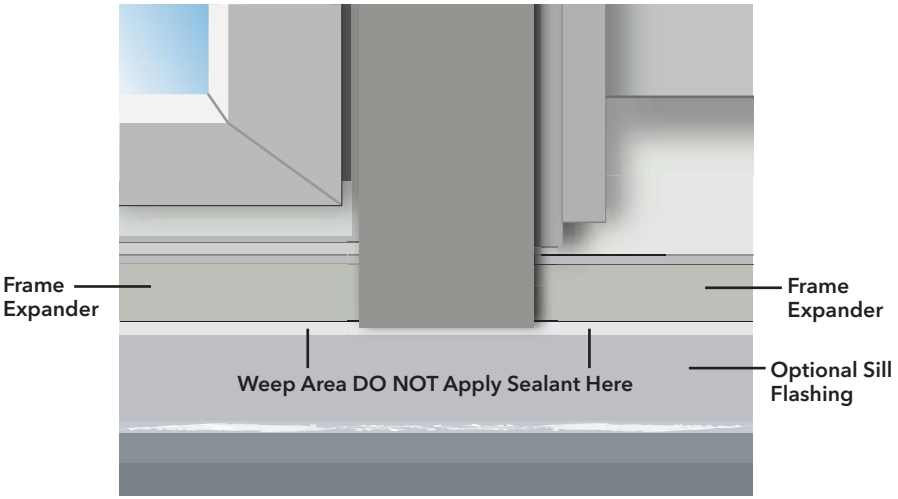
Apply continuous bead of sealant in groove of subsill between bottom of window and subsill. Extend sealant all the way to jambs of window opening. Tool sealant to obtain full coverage between frame and subsill.

After the caulk sealant has been allowed to cure, apply low-expansion foam sealant between the windows over the Receptor Mullion. Tie in the foam sealant at the head receptor.



Interior Finish: Install jamb extensions and interior trim as required.

Exterior Sealant Note: Do Not apply sealant along the bottom edge of the sill frame expander to sill flashing or exterior wall material. The subsill system is designed to weep at this area.



Exterior view of mullion after the windows with sill frame expander have been installed.

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.