WARRANTY

For applicable product warranty and arbitration information, please see product website.

Safety Alert Symbol Reference: These symbols are intended to alert you to potential injury hazards and information. Obey all safety messages.

COULD Result in:	⚠ WARNING	**COULD** Result in:	⚠ CAUTION	**COULD** Result in:	*NOTICE*	**COULD** Result in:	*IMPORTANT*
	Major Injury/Death		Minor Injury		Product or Property Damage		Procedure and Product Info

⚠ WARNING

Windows and doors can be extremely heavy. To avoid injury, use appropriate lifting techniques and an adequate number of people to carry and install the product. Mechanical lifting assistance may be needed for larger panels and glass. Failure to do so can result in injury or damage to product or property.

⚠ WARNING

Special care must be taken with units with protective glass film applied. DO NOT remove protective film near flammable materials. Static charge created when removing the film can ignite flammable materials or cause a shock. DO NOT place suction grips over film seams. Suction grips will not hold if placed over film seam to lift heavy glass or panels.

⚠ WARNING

This product may contain chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm. For more information go to ***www.P65Warnings.ca.gov***.

⚠ WARNING

Doors and certain windows are glazed with safety glass (tempered or laminated). If broken, glass must be replaced with safety glass in accordance with state and federal laws.

NOTICE

Remove plastic wrap and protective packaging. Perform a complete unit inspection, checking for shipping damage, broken glass, or other physical damage.

⚠ CAUTION

Always wear appropriate gloves and eye protection for all procedures. Follow manufacturers' instructions for hand and power tools.

IMPORTANT NOTICE

Because all building construction must provide weather protection (minimum standards per IBC Chapter 14) and strength (minimum standards per IBC Chapter 16), it is important that wall systems, including the integration of the wall system and fenestration assembly, be designed and constructed to properly manage moisture and allow fenestration anchorage and attachment. Damages, including water intrusion, caused by deficiencies in building design, construction and maintenance; failure to install Pella Products in accordance with Pella's installation instructions; or failure to design and construct wall systems in accordance with applicable building code requirements (including weather protection, moisture management, structural, and wind load requirements) are not the responsibility of Pella. The determination of the suitability of the use of Pella Products, as well as the design and installation of flashing and sealing systems and anchorage methods, are not the responsibility of Pella.

NOTICE

Refer to the Pella Owner's Manual on ***www.pella.com*** or your local retailer for more information regarding product Care and Maintenance, Cleaning Instructions, and Interior Wood Finish and Finishing Instructions

NOTICE

DO NOT use abrasives or tools that might damage surfaces. DO NOT use inappropriate solvents such as brickwash, mineral spirts, toluene, xylene, naphtha, or muriatic acid that may dull, soften or permanently damage the product.

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PREPARATION FOR FRONT DOOR INSTALLATION WITH NAIL FIN

You will need to supply:

- Moisture resistant shims/spacers (12 to 20)
- Fasteners (see anchor instructions at the end of this booklet)
- Closed cell foam backer rod/sealant backer (21 to 30 ft.)
- Pella® SmartFlash™ foil backed butyl window and door flashing tape or equivalent
- Pella Window and Door Installation Sealant or equivalent high quality, multi-purpose sealant
- Low Expansion, low pressure polyurethane insulating window and door foam sealant. DO NOT use high pressure or latex foams
- Sill pan (optional) Frame Depth x (Rough Opening Width +2)
- Pella aluminum sill support or wood blocking
- Interior trim and/or jamb extensions (15 to 40 ft.)



Installation Clip Option:

- 6" or 8" installation clips 
- #6 x 5/8" corrosion resistant flat head wood screws
- #8 x 1-1/2" corrosion resistant screws or 3/16" x 1-1/2" masonry screws

Tools Required:

- Tape measure
- Level
- Square
- Hammer
- Stapler
- Sealant Gun
- Scissors or utility knife
- Tin Snips
- Screwdrivers (#2 Phillips with 8" shaft and small flat blade)
- T20 Torx Wrench
- Drill
- Drill Bits 13/64" and 1/8" and masonry bit for concrete applications



⚠ WARNING **Installation will require (2) or more persons for safety reasons.**

Store doors in upright position, out of direct sunlight.

ROUGH OPENING VERIFICATION

A. **Confirm the opening is plumb and level.**

NOTICE **It is critical the bottom is level and it does not slope to the interior or exterior.**

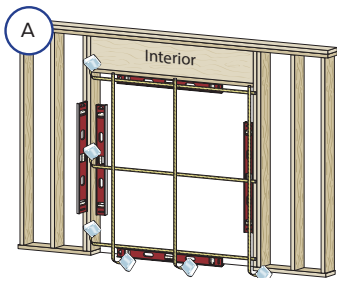
B. **Remove dirt, oil or debris from the opening and surrounding wall surfaces.**

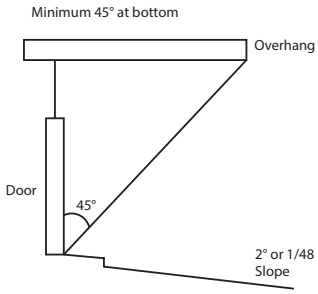
C. **Confirm the door will fit the opening.** Measure all four sides of the opening to make sure it is 1/2" to 3/4" larger than the door in width and 1/2" larger in height. Measure the width and height in several places to ensure the header or studs are not bowed.

NOTICE **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.**

NOTICE **It is important to consider the door's exposure to weather, the exterior landing surface type and its proximity to the door sill, and to confirm impervious exterior surfaces properly slope away from the door prior to continuing with installation.**

Before installing, verify performance of the product meets the requirements of the application and region. To reduce the likelihood of water infiltration where application exceeds product performance, install doors under an overhang the extends to meet a 45 degree line from the door sill and slope the exterior 2 degrees away from the door or use a stepdown. **Failure to do so may result in damage to the interior of the structure.**





PREPARE THE DOOR FOR INSTALLATION

D. **Remove plastic wrap and cardboard packaging from the door.** DO NOT open the door until it is securely fastened. DO NOT cut the strap that goes from the lock holes to the sill of the door (if applicable).

E. **Inspect the product for any damage** such as cracks, dents or scratches. DO NOT install damaged products.

F. **Fold out installation fin to 90° (units with fold up fin only).** Be careful not to remove or tear the fin corners.

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

G. **Curved Units with Fins:** Install clips on wood with non-structural flex fins or pre-drill holes for frame screws. See nail fin anchor instructions at the end of this booklet.

Units with wide EnduraClad Exterior trim and narrow fins with NO pre-punched holes: Install clips or pre-drill holes for frame screws.

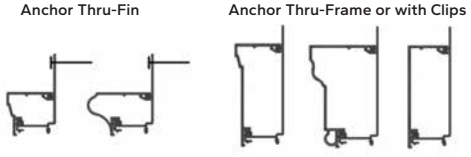
See nail fin anchor instruction at the end of this booklet.

Additional preparation may be required for performance upgrade, impact resistant products or to comply with local building code requirements. See advanced performance or Impact-Resistant anchor schedule.

E. **Read the entire instruction before proceeding.**

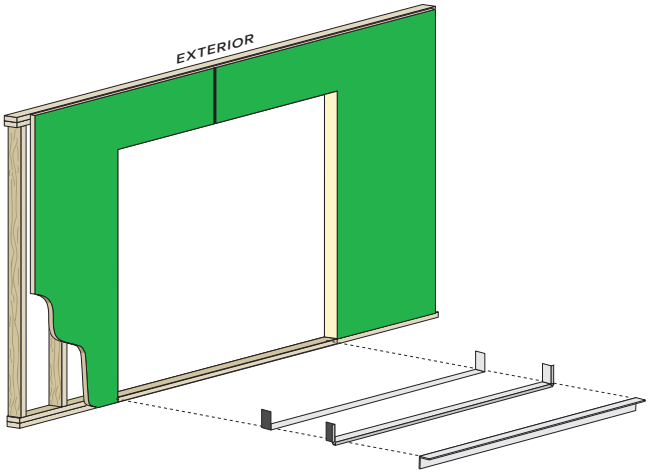


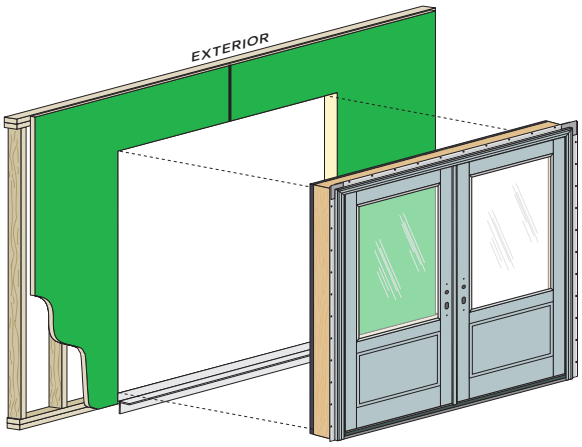
New Construction Encuraclad Exterior Trim Options



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NEW CONSTRUCTION INSTALLATION WITH NAIL FIN OVER WATER RESISTANT SHEATHING





1 PREPARE THE OPENING

Refer to the preparation instructions at the beginning of this booklet.

A. **Inspect the joints of the water resistant sheathing.** Joints must be sealed according to the sheathing manufacturer's instructions. *Pella Corporation assumes no responsibility for the design, quality or durability of the sheathing system or its joints. Taped joints intersecting with the bottom or sides of the opening must have tape installed before beginning installation.*
If using an optional sill pan or if the door will be installed on a concrete slab, refer to the instruction page at the end of this book.

B. **Cut 2 pieces of flashing tape 12"** longer than opening width.

C. **Apply sill flashing tape #1** at the sill extending 2" to the exterior and 6" up each jamb.

D. **Cut 1" wide tabs** at each corner by tearing the foil 1/2" each way from corner.

E. **Apply sill flashing tape #2** overlapping tape #1 by 1" minimum. For In-Swing Doors with frame depth greater than 5", add a third piece of flashing tape so it comes within 1/4" of the interior of the door frame.

NOTICE **Press all tape down firmly.**

Alternate: Apply 1D and 1F flashing tape equal to the opening width and use a 12" piece of sheathing manufacturer's stretchable flashing tape or fluid applied flashing material at each sill corner.

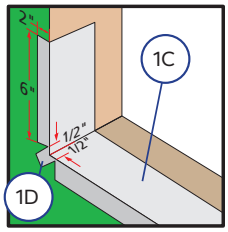
F. **Cut 2 pieces of flashing tape** equal to the height of each side of the opening.

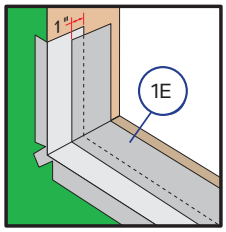
G. **Apply one piece on each** jamb starting 1" from the exterior of the framing, over the edge of the sheathing and onto the surface of the sheathing.

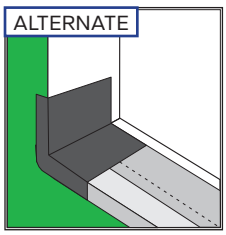
H. **Apply a second piece on each side** if necessary to extend beyond window frame depth. Overlap the first piece by 1".

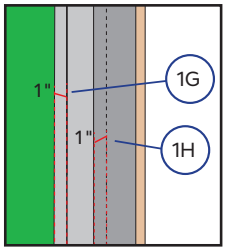
IMPORTANT **Use a roller to firmly press all flashing tape down until the texture of the sheathing can be seen through the tape.**

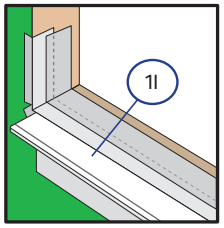
I. **Attach a Pella aluminum sill support** or wood blocking flush with the opening sill.







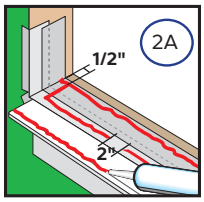


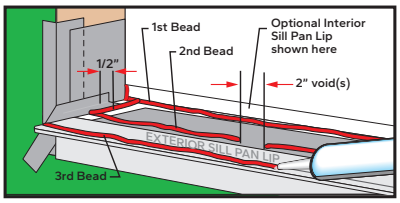


2 SET AND FASTEN THE DOOR

A. **Place three 3/8" beads of sealant across the opening sill.** Place the interior-most bead 1/2" from where the interior of the door sill will remain after installation. Continue this bead up the sill pan lip, if applicable.

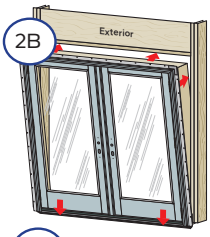
Place a second bead beginning from the interior bead 1/2" from each side, out to the exterior of the framing and along the opening. Leave 2" voids 4" from the corner and at the center. Place a third bead where the exterior of the door sill will remain after installation.





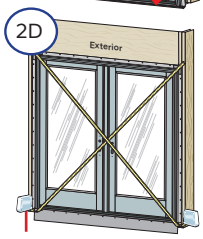
B. **Center the bottom of the door in the opening** and tilt the door into position. Do not slide the door into the opening. Sliding will damage the sealant lines.

Check the hinge jambs for plumb and confirm there is room for shimming between the jambs and opening on each side.



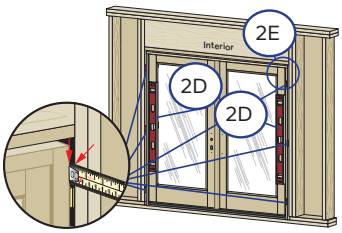
C. **Drive two fasteners,** one near each end of the top nailing fin. (See nail fin anchor instructions at the end of this booklet).

D. **Plumb and square the door.** Place shims at each hinge and lock strike. Keep shims 1/2" short of door frame depth. Insert additional shims starting 6" from the bottom as needed to keep jambs straight and panel reveals even on all four sides.



NOTICE **Additional shims are required at screw locations for advanced performance, impact resistant units and combinations. See the nail fin anchor instructions at the end of this booklet.**

E. **Check the door placement by measuring** from the interior surface of the door frame or jamb extension to the interior surface of the wall for consistency. If the dimensions are not equal, confirm the fins are folded fully to 90º (if applicable).

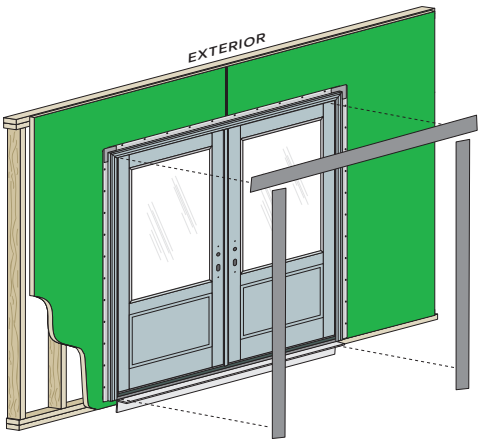


F. **Finish driving fasteners** into the nailing fin. Refer to the nail fin anchor instructions at the end of this booklet.

G. **Check door operation.**
Carefully open the door(s) and remove the shipping spacers (check under the door panel(s)). Use the construction handle to operate the panel(s).
To operate flushbolts, see the instruction label on the astragal strike (if applicable).

NOTICE **Adjust shims to correct any issues with plumb, square, operation or reveal.**

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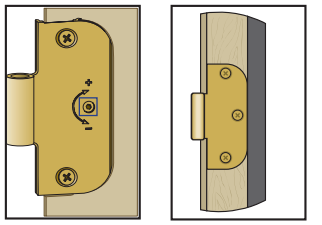
2 SET AND FASTEN THE DOOR
CONTINUED

H. **Pre-drill and drive screws at hinges,** head and sill strikes or jamb strikes, threshold or low-profile sill and frames. See the nail fin anchor instructions at the end of this booklet.

I. **Open and close the door to check operation.** Make sure the door will latch correctly. If there are problems with operation adjust the shims and hinges (see below) and confirm the door frame is plumb, level and square and the gap between the door panel(s) and frame is consistent.

J. **Adjustable hinges can be used to move the panel(s).** Turn the center screw with a T20 Torx wrench clockwise (+) to move the panel away from the frame or counter-clockwise (-) to move the panel toward the frame. A 3/4 turn provides approximately 5/32" adjustment.

Do not adjust the hinges if the top and bottom hinge screws are loose.

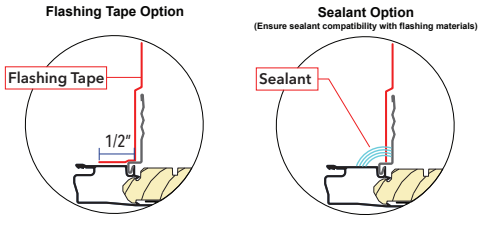


Adjustable Hinge | Non-Adjustable Hinge

K. **Doors without adjustable hinges have plastic shims behind the hinges;** remove shims to move the panel toward the frame. Additional shims may be added to move the panel away from the frame.

3 INTEGRATE WITH THE BUILDING WRAP

Note: For fold-up or slide-in fins, seal the fin to frame joint by either applying flashing tape 1/2" onto the frame, or sealing the joint with installation sealant after placing flashing tape.



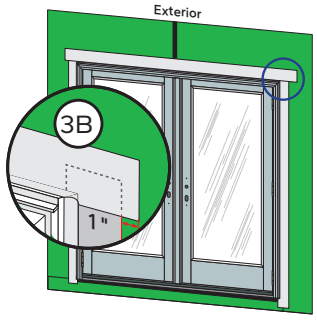
A. **Apply straight side flashing tape.** Cut two pieces of flashing tape 4" taller than straight sides. Apply tape over the fin and onto weather resistive barrier. Extend tape 2" above and below straight sides.

Doors with angle top transoms or curved tops: On the short side, do not allow the side tape to extend higher than what the top tape will cover.

3 INTEGRATE WITH THE BUILDING WRAP
CONTINUED

B. **Apply top flashing tape.**
Cut one piece of flashing tape to extend 1" past both side flashing tapes.

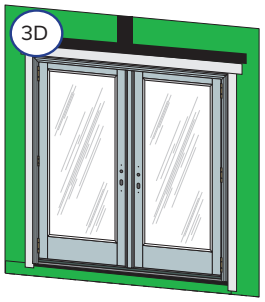
NOTICE **Press all tape down firmly.**



C. **Apply a second layer of sheathing manufacturer's joint sealant tape.** Cut one piece so it will extend 1" past the first layer of flashing tape on each side. Overlap the first layer of tape by 1" to create a water shed effect.

D. **Apply sheathing manufacturer's joint sealant tape** to any joints intersecting with the top of the opening, overlapping the head sealant tape in accordance with the manufacturer's instructions.

IMPORTANT **Use a roller to firmly press all flashing tape down until the texture of the sheathing can be seen through the tape.**



E. **Install interior sealant.** Refer to the interior sealant instructions at the end of this booklet.

F. **Install head flashing,** properly incorporating it with the siding and sheathing according to applicable code requirements.

G. **Install exterior sealant.** (After wall cladding is installed) Refer to the exterior sealant instructions at the end of this booklet.

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ALUMINUM-CLAD WOOD PANEL IN ALUMINUM-CLAD WOOD FRAME FRONT DOOR
ANCHOR INSTRUCTIONS

Note: Standard performance only. Additional anchoring may be required for performance upgrade, impact resistant products or to comply with local building code requirements.

Anchor Location		Venting	Anchor Type		Instructions	Illustration
			Wood	Masonry		
Head and Jamb	Nail Fin Option	Any	1-1/2" 11 Ga. Roofing Nail	NA	Every pre-punched hole.	
	Screws through Frame Option	Any	#10 x 3-1/2"	3/16" x 3" Masonry Screw	6" from corners and 16" on center. Shim at each screw. For vent panels, weatherstrip can be temporarily removed.	D
	Installation Clips Option	Any	(2) #8 x 1-1/4"	3/16" x 1-1/2" Masonry Screw	6" from corners and 16" on center. Shim at each clip. Attach to frame with (2) #6 x 5/8" screws.	E
Head	Frame	Vent	#8 x 3" (provided)		For Doors ordered with no lock/no bore, place 1 screw in each pre-drilled hole (if present).	A
	Multi-Point Lock Strike (if applicable)	1-Panel Vent	(1) #8 x 3" (provided)		Remove temporary strike screw(s) before installing the new screws.	A.1
		Vent / Vent Sidelight or Inactive	(3) #8 x 3" (provided)		Remove temporary strike screw(s) before installing the new screws.	A.2
	Frame	Mulled Sidelight Combination	#10 x 3"	3/16" Masonry Screw	Pre-drill and install screws 3" and 6" on each side of the mullion end.	F
Jambs	Hinges	Out-Swing	#12 x 2-1/2" (provided)		Pre-drill and install provided screws in the open hole of each hinge.	B.1
		In-Swing (including vent sidelight)	#8 x 3" (provided)		Pre-drill and install provided screws in the open hole of each hinge.	B.1
	Strike	Vent	#8 x 3" (provided)		Pre-drill and drive provided screw in the open hole of the strike. For doors ordered with latch and deadbolt, refer to the hardware instructions.	B.2
	Frame	1-Panel Vent	#8 x 3" (provided)		Pre-drill and install screw 8" below the top of the lock jamb.	B.3
Sill	Threshold	Vent	#8 x 3" (provided)	3/16" Masonry Screw	Remove temporary strike screw(s) and place a dab of sealant in each hole before installing the new screws.	C
	Multi-Point Lock Strike (if applicable)	1-Panel Vent	(1) #8 x 3" (provided)	3/16" Masonry Screw	Remove temporary strike screw(s) and place a dab of sealant in each hole before installing the new screws.	C.1
		Vent / Vent Sidelight or Inactive	(3) #8 x 3" (provided)	3/16" Masonry Screw	Remove temporary strike screw(s) and place a dab of sealant in each hole before installing the new screws.	C.2
	Low Profile	Vent	#8 x 3" (provided)	3/16" x 3" Masonry Screw	For doors with standard locks, install tubs per instruction included with sill strike package.	C.3
	Threshold	Mulled Sidelight Combination	#10 x 3"	3/16" x 3" Masonry Screw	Pre-drill and install screws 3" and 6" on each side of the mullion end.	F

Shim as necessary at all screw through frame anchor locations on the head and jambs.

Use corrosion resistant fasteners compatible with construction materials.

For light gauge steel framing, infill with wood to allow use of provided hinge and strike anchors.

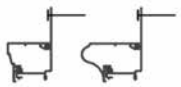
Units with Pella EnduraClad® exterior trim with narrow fins and no pre-punched holes must be anchored with frame screws or installation clips.



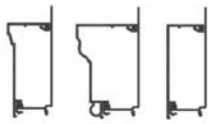
Exterior trim with narrow fin

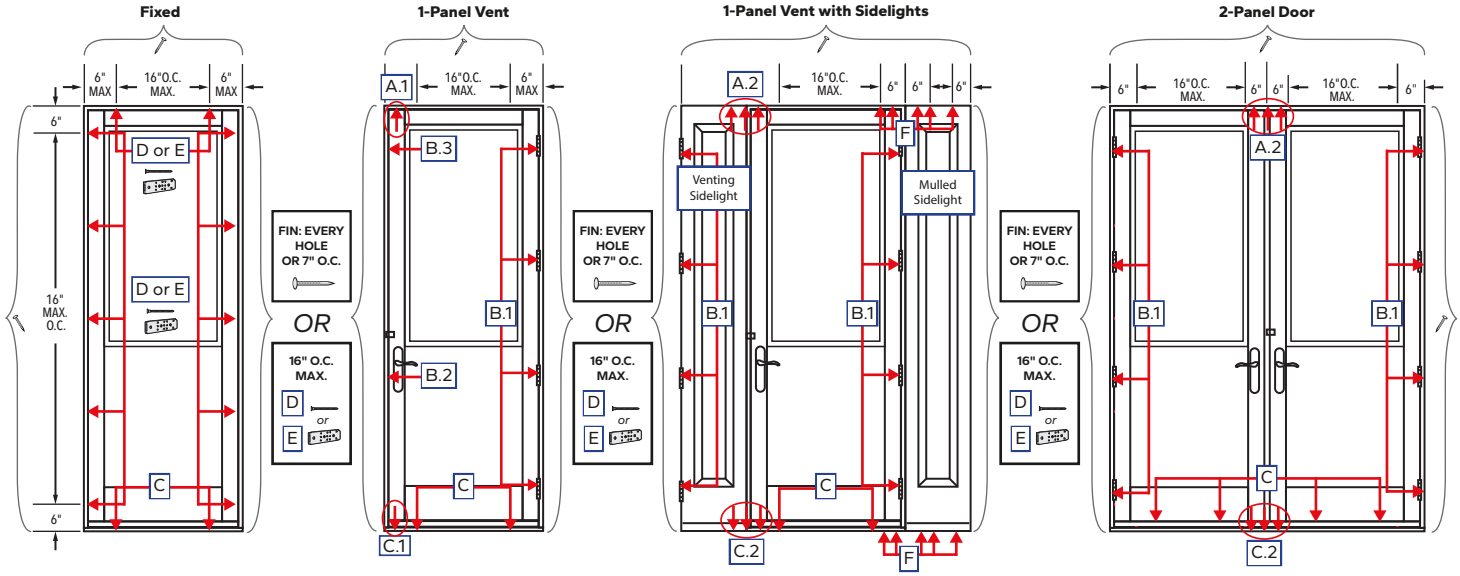
New Construction EncuraClad® Exterior Trim Options

Anchor Thru-Fin



Anchor Thru-Frame or with Clips



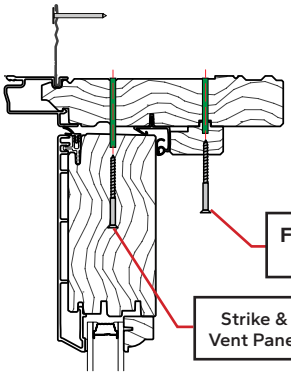


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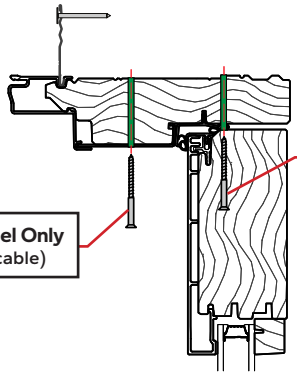
ALUMINUM-CLAD WOOD PANEL IN ALUMINUM-CLAD WOOD FRAME FRONT DOOR
ANCHOR INSTRUCTIONS

Head

Out-Swing Head



In-Swing Head



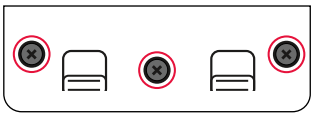
Multi-Point Lock Head Strikes (if applicable)

A.1 1-Panel Vent



#8 x 3" screw (provided)

A.2 Vent / Vent Sidelight or Vent / Inactive

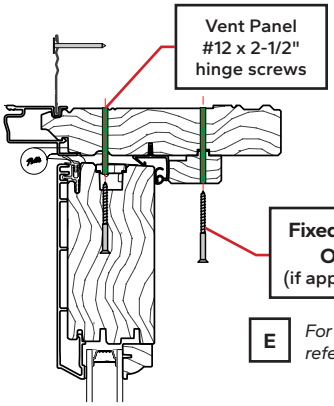


#8 x 3" screws (provided)

In-Swing and Out-Swing similar.

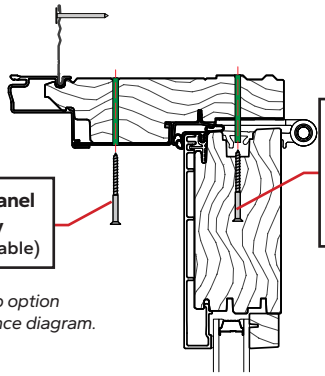
Jamb

Out-Swing Jamb

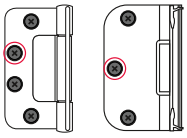


E *For clip option reference diagram.*

In-Swing Jamb



B.1 Hinges

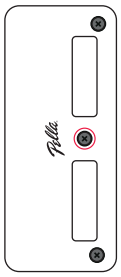


Out-Swing: #12 x 2-1/2" screws (provided)

In-Swing: #8 x 3" screws (provided)

Hinges may vary. Install at each open hole in each hinge.

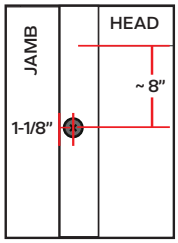
B.2 Strike Plates



#8 x 3" screws (provided)

1-Panel Vent only. *In-Swing and Out-Swing similar*

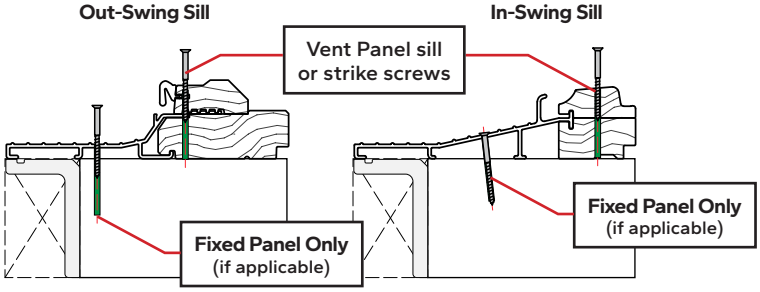
B.3 1-Panel Vent Jamb Screw



Refer to D diagram for temporary weatherstrip removal.

Sill

Out-Swing Sill

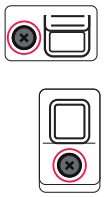


In-Swing Sill

Exterior sill edge must be supported to meet performance values. Apply Pella aluminum sill support or wood blocking as required to support the exterior edge of the door frame.

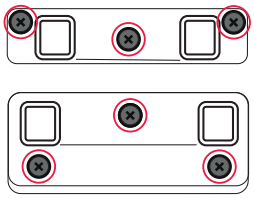
Multi-Point Lock Sill Strikes (if applicable)

C.1 1-Panel Vent



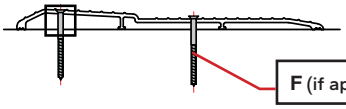
#8 x 3" screws (provided)

C.2 Vent / Vent Sidelight or Vent / Inactive

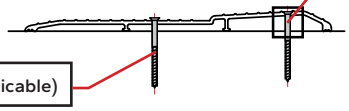


C.3 Sill
C.4 Strikes

Low-Profile Out-Swing



Low-Profile In-Swing



F (if applicable)

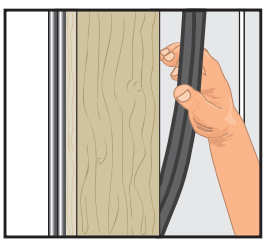
Only when adjacent to fixed panels (if applicable).



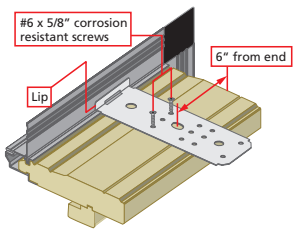
C.3 *Remove shipping tub (if applicable). Apply tub per instructions.*

Head & Jamb

D Frame Screw Option



E Installation Clip Option



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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 door frame from the interior. Use a pliers (if necessary) to compress the end of a straw tube to allow it to fit in tight openings.

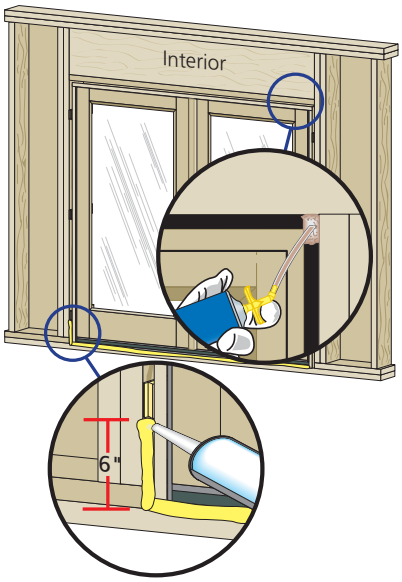
B. **Place a 1" deep bead of foam approximately 1" from the interior of the frame** to allow for expansion. DO NOT fill the entire depth of the rough opening cavity.

Note: Apply foam between the frame and rough opening, NOT between jamb extensions and the rough opening.

C. **Re-Check door 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.

E. **Place a continuous bead of sealant across the inner sill at the intersection of the door sill and subfloor.** Continue the sealant 6" up each jamb and connect with the foam seal.



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.

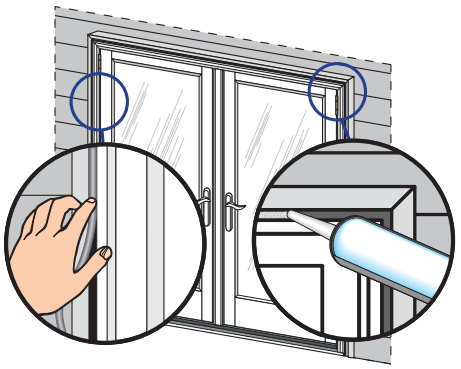
When applying siding, brick veneer, flashing, or other exterior finish materials, leave adequate space between the door frame and the material for sealant application of sealant.

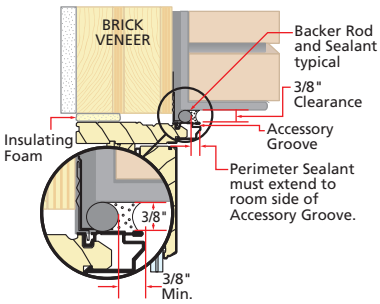
A. **Insert backer rod** 3/8" deep in the space around the door. Backer rod adds shape and controls the depth of the sealant line.

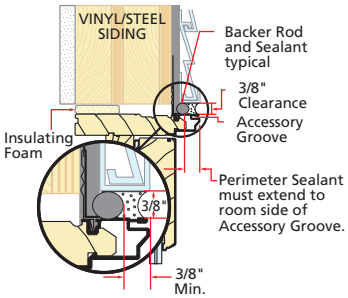
B. **Apply a continuous bead of sealant to the entire perimeter of the door.**

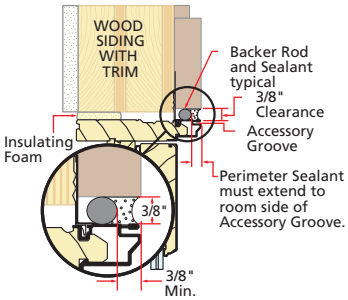
NOTICE **For sill pans designed to drain moisture directly to the exterior, voids in the exterior seal may be required.**

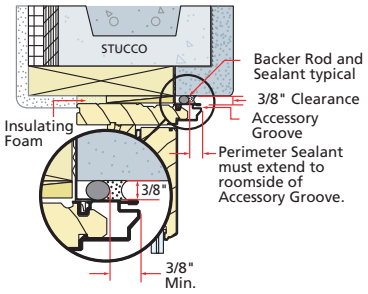
C. **Shape, tool and clean excess sealant.** When finished, the sealant should be the shape of an hourglass.







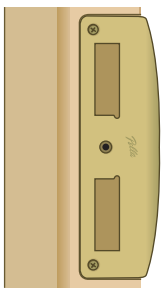




TROUBLESHOOTING - Adjustable Strike Latching Issues

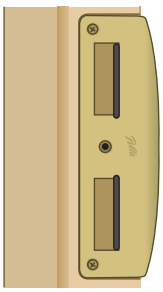
Issue 1:

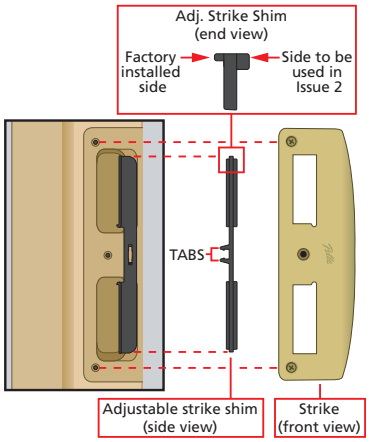
Door is difficult to latch. Remove the strike and adjustable strike shim then reinstall the strike.



Issue 2:

Door needs to close more tightly against the weather-strip. Remove the strike and adjustable strike shim. Remove the tabs from the adjustable strike shim and install so that the thicker side is visible at the strike edge. Reinstall the strike.





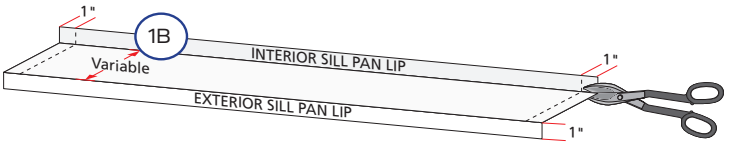
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OPTIONAL SILL PAN INSTRUCTIONS

NOTICE **The method of pan construction, flashing, and sealant application may vary depending on the design of the opening sill and exterior landing surface conditions. It is important to consider the exposure to weather, the exterior landing surface's proximity to the door sill, and to confirm impervious exterior surfaces properly slope away from the door.**

A. **Cut the sill pan** to the width of the rough opening plus 2".

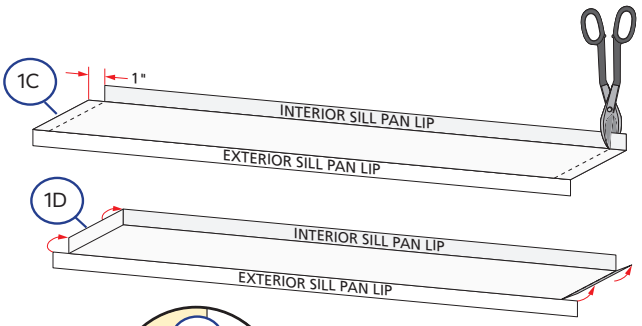
Note: The 2" added onto the rough opening width is for a 1" bend on each end.



B. **Make a 1" cut** in each fold at both end of the sill pan.

Note: These cuts will allow the edges of the sill pan to be bent.

Note: 4-5/8" wide for Out-Swing and In-Swing for 4-9/16" wall condition. For other wall conditions, measure wall depth and add 1/16".



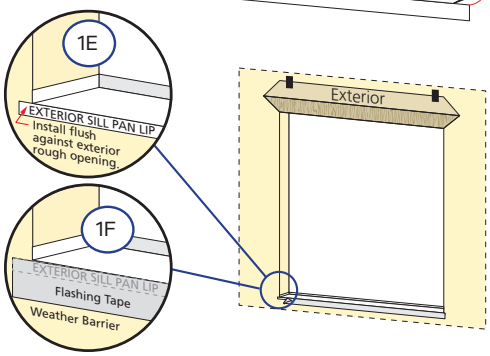
C. **Cut 1" off each end** of the interior sill pan lip.

D. **Bend each end** of the center panel up.

E. **Install the sill pan** by sliding into place until the exterior sill pan lip is flush with the exterior of the rough opening.

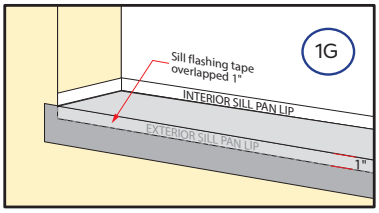
F. **Apply sill flashing tape.** Cut a piece of flashing tape 2" longer than the opening width. Apply at the bottom of the opening, covering the exterior sill pan lip as shown.

Note: If applicable, apply spray adhesive to building felt prior to applying the flashing tape.

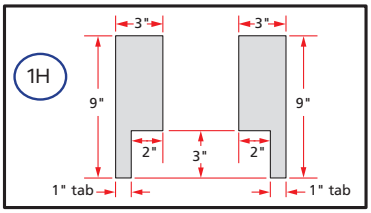


G. **Cut a piece of flashing tape** to the width of the opening. Install tape to the sill pan and overlap the flashing tape from step 1F by 1". If needed add a second or third piece of flashing tape until the sill pan is covered to the interior sill pan lip.

Note: The purpose of this tape is to seal the sill screws when installing the door.

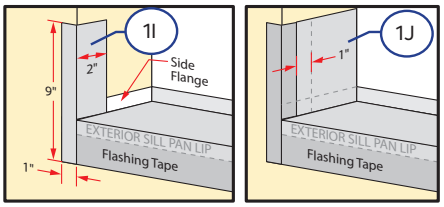


H. **Cut two 9" pieces of flashing tape** with a 1" x 3"tab at the bottom, on opposite corners as shown.

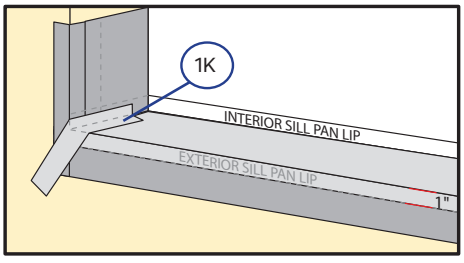


I. **Apply the tabbed 9" pieces of flashing tape.** The tape is applied so 2" will cover the inside of the rough opening and lap over the side flange of the sill pan. The 1" x 3" tab laps over the bottom flashing tape as shown.

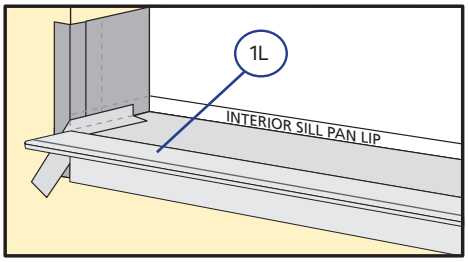
J. **Cut two 6" pieces of flashing tape** and apply to each side of the rough opening, overlapping the first piece by 1" and lapping the bottom over the side flange of the sill pan as shown.



K. **Cut two pieces of flashing tape 1-1/2" x 6"** and apply to the bottom corners of the opening by beginning in the corner of the sill pan, with 3/4" of the tape applied to the sill pan and 3/4" of the tape applied to the side flange. The remainder of the tape is to be at a 45 degree angle onto the exterior.



L. **Attach the aluminum sill support** or wood blocking to the exterior of the box plate to support the edge of the door sill. Place the sill support flush with the subfloor.



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