



Window Replacement System (Frame Expander & Receptor Trim Kit) Installation Instructions

Important! Read thoroughly before beginning. Failure to install as recommended will void any warranty, expressed or implied. Use of eye protection and heavy gloves is recommended.

Applications

This exterior trim kit may be used for window replacement applications in typical siding or brick veneer construction. Two kits (either pre-cut or lineal) will be required for each window or window composite.

Tools Required

- | | |
|-------------------------|---------------------|
| Heavy duty tin snips | Tape measure |
| Power shears (optional) | Caulking gun |
| Miter box (recommended) | Hack saw |
| Hammer | Metal straight edge |
| Utility knife | Pliers |

Materials Required

- 1 trim kit of top and bottom frame expanders and receptors.
- 1 trim kit of side frame expanders and receptors.
- #4 & 5 galvanized box nails
- Quality sealant (caulk)

Notes: If you are not removing the existing frame, a sill nose cover kit may also be needed. If you are installing window combinations, lineal expander/receptor trim kits will be needed.

Sealant (caulk) Requirements

Listed in recommended order:

- Two-part Polysulfide
- Acrylic Solvent Base
- Silicone

One-part Polysulfide or Butyl

Follow sealant manufacturer's recommendations for specific applications.

Parts included in each kit:
2 Frame Expanders 2 Receptors

Replacement Instructions

The new Pella® window must be properly installed before applying frame expander/receptor trim kits. At the head of the window, remove the drip portion of the head drip fin by bending it on the score line and breaking off with a pliers. (Photo A). When using the frame expander system with your Pella windows, the exterior edge of the new window frame must be FLUSH with the exterior face of your existing trim and/or blocking. If it is not flush, either the window or the trim needs to be reworked to accomplish this for proper installation of the frame expander and receptor system (Photos B and C).



Photo A



Photo B
Siding with trim



Photo C
Brick veneer application

Photos B and C above show conditions prior to installing frame expander system.

Caution: Make sure to caulk around the entire new window between the window frame and existing opening before proceeding with this trim kit installation.

1. In certain situations where an existing sill nose will remain, you will need to install a sill nose cover. (If not required, skip to step #2.)

1a. Use a hacksaw to cut sill nose cover to a length approximately 2-1/2" longer than existing sill.

1b. Use tin snips to trim sill cover to fit existing exterior jamb trim (Figure 1). Note: Make sure that sill nose cover extends as far as possible under bottom of window. If existing wood sill is over 1-3/4" thick, it must be reworked by removing wood on the bottom edge to reduce thickness to 1-3/4".

1c. Notch ends of sill cover (Figure 1). Place sill nose cover over existing sill. Fold aluminum across each end of existing wood sill (Figure 2). Nail sill cover near the top edge and the end of the existing wood sill using #5 galvanized box nails (Figure 3).

1d. Nail bottom edge to existing wood sill by using #4 galvanized box nails every 4 inches (Figure 3).

1e. Apply sealant along top edge and end of sill cover (Figure 3).

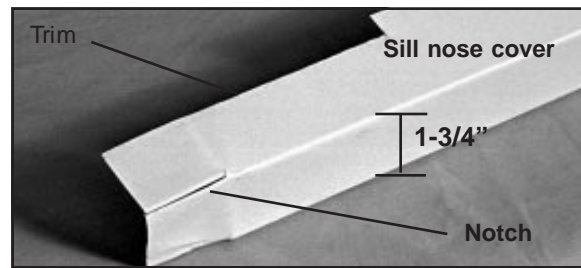


Fig. 1



Fig. 2

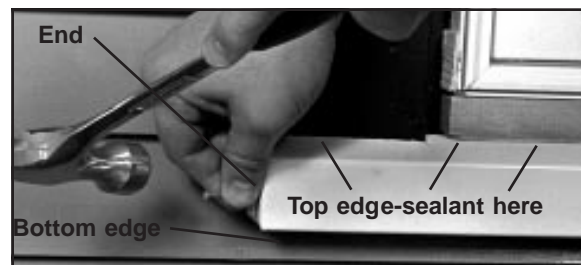


Fig. 3

2. Measure the width and height of the area that the frame expander/receptor system will cover (Figure 4). Your dimensions may be shorter than the pre-cut parts supplied. If so, you will need to cut them to fit the opening size. First cut the receptors that will be installed at the edges of the opening. Be sure to miter the ends (45°). Note: Use caution when using tools to trim expanders and receptors. Read tool instructions carefully. Wear eye protection!



Fig. 4

3. Installations where the leg on the receptor interferes with the existing trim or brick will require partial or complete removal of the leg (Figure 5). Use pliers to remove the leg. The leg is pre-scored for complete or partial removal. Remove the leg by bending back and forth until leg breaks off (Figure 6).

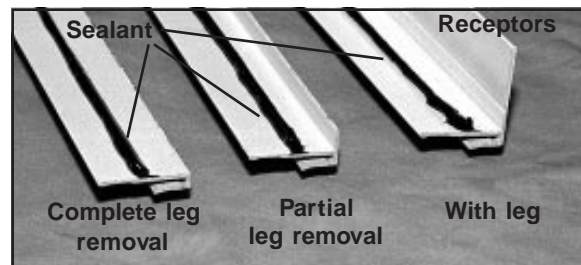


Fig. 5

4. Once all receptors are ready for installation, apply a continuous 1/4" diameter bead of sealant on the back side of the receptor before installation (Figure 5).



Fig. 6

- Attach the receptor to the existing exterior trim. Align with outside edge of existing trim or blocking (Figures 7, 8). Attach it with #5 galvanized box nails, every 6", beginning 2" from each corner.
- Repeat process on remaining three sides. Complete receptor installation is shown in figure 8A.
- The frame expander/receptor trim kits are pre-cut and designed for 6"-wide frame expander applications where single windows are used. You may need to trim your frame expanders to fit your opening. To determine the width and length needed for each frame expander, measure from the center of the accessory groove on the window to the lip on the exterior face of the frame expander receptor. Take measurements at each corner of the window in both directions (Figures 9, 10). Use the diagram below. Fill in your dimensions (A thru H). When this is done, add $\frac{3}{8}$ " to each measurement for depth of receptor. These measurements will determine the width and length needed for each of the frame expanders. Note: In situations where window combinations are used, lineal expander and receptor kits will be required. (See pages 7 and 8 for instructions.)

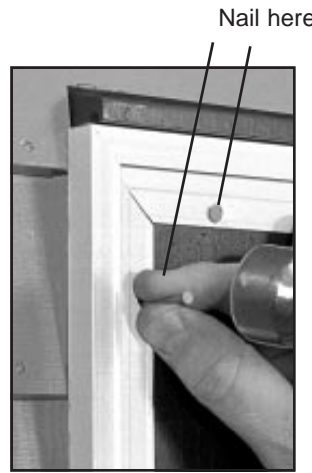


Fig. 7
With leg

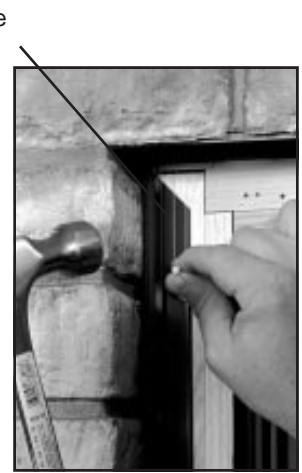
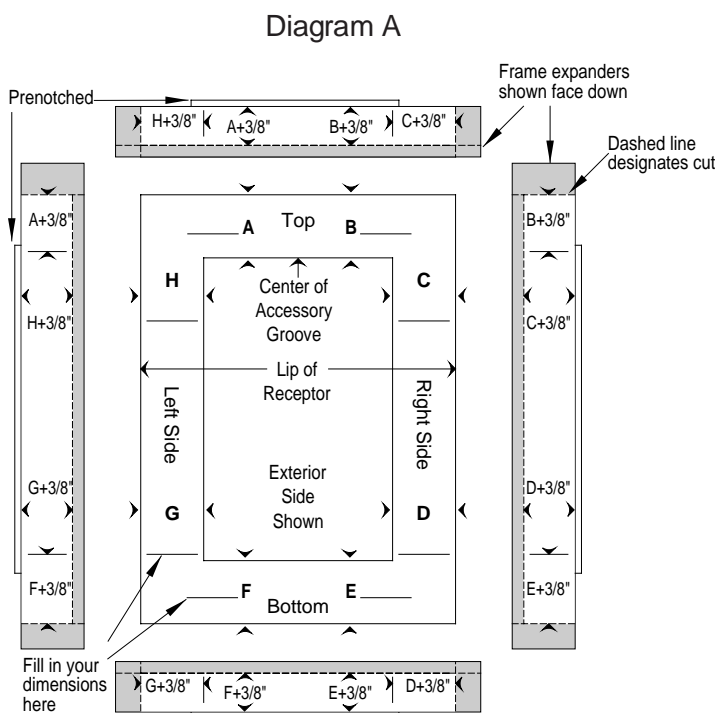


Fig. 8
Leg removed



Fig. 8A



Measurement "A" shown



Fig. 9
Lip of receptor
Center of accessory groove



Fig. 10
Measurement "H" shown

8. Once you have your measurements (make sure you have added 3/8" each), lay out the required cuts on each frame expander. Lay expander face down on a non-marring surface with unpainted side face up (Figure 11).

9 Measure for width (Figure 11). Note: If width dimensions are not equal make sure that expander is trimmed so that it will fit properly when installed.

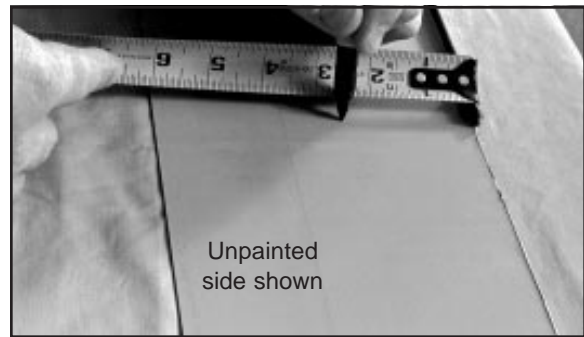


Fig. 11

10. Measure for length on both ends (Figure 12).

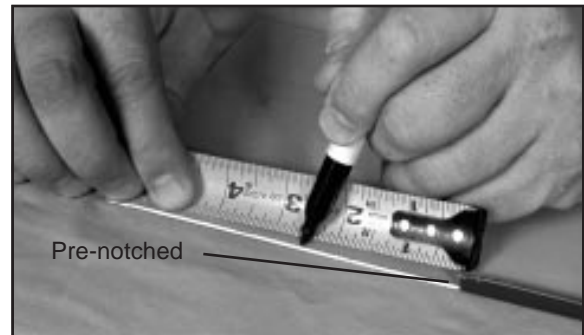


Fig. 12

11. Use a straight edge to connect marks (Figure 13).



Fig. 13

12. Trim expander as required. Repeat for each expander (Figure 14). Note: Use caution when using tools to trim expanders and receptors. Read tool instructions carefully. Wear protective eye gear!



Fig. 14

13. After the parts have been cut and prepared for installation, apply a continuous 1/4" diameter bead of sealant on inside edge of receptor, - sealing it to the existing exterior trim. (Figure 15)



Fig. 15

14. Apply a continuous bead of sealant along the inside of the curved lip and notched end of each prepared frame expander as shown (Figure 16). To eliminate excess sealant squeeze-out at end, start 1/2" back from edge as shown.

15. Seal the accessory groove at all four corners of the window, a minimum of 1" in both directions (Figure 17).

16. It is important to install the frame expanders in the order shown. Follow instructions carefully.

First install the bottom frame expander into the receptor and window accessory groove. Note: You may need to slightly bow the frame expander to get both ends into the receptor (Figures 18, 19). Carefully tap on frame expander using a soft block of wood and hammer to lock expander into accessory groove (Figures 20, 21). Caution: Once frame expander is locked into accessory groove it cannot be removed. Hint: Round edges of wood block to prevent denting of frame expander.

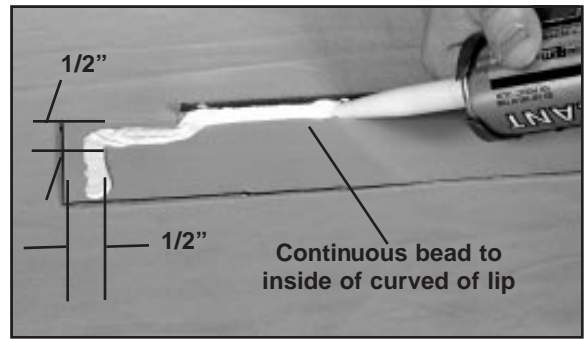


Fig. 16

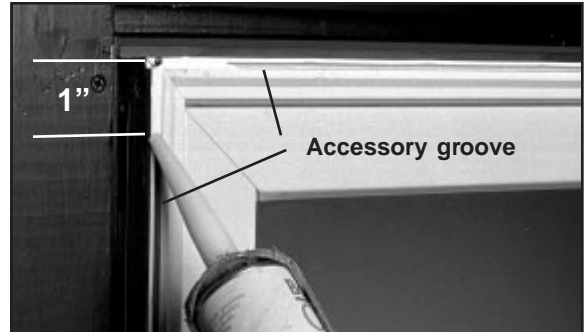


Fig. 17



Fig. 18



Fig. 19



Fig. 20



Fig. 21

17. Next install the side frame expanders.
 Slide edge of frame expander into receptor.
 Note: You may also need to slightly bow the expander to set both ends into the receptor (Figures 22, 23).
 Again tap on the frame expander by using a soft block of wood and hammer to lock expander into accessory groove (Figures 24, 25).

18. Finally install the top frame expander. Use same procedures as in step 16 (Figures 26, 27).



Fig. 22



Fig. 23



Fig. 24



Fig. 25



Fig. 26



Fig. 27

Completed application with frame expander system
 (Figures 28, 29)



Siding (Fig. 28)



Brick Veneer (Fig. 29)

Once installation is complete, clean off any excess sealant with mineral spirits and soft cloth or follow sealant manufacturer's recommendations.

Using lineal frame expander and receptor material

1. To begin, you will need to measure the width and length of the area that the frame expander/receptor system will cover. Cut your receptor to that length. Remember to miter ends (45°). (Follow step 2 on page 2.) Note: Use caution when using tools to trim expanders and receptors. Read tool instructions carefully. Wear eye protection! Then install receptors following steps 3-6 on pages 2 and 3.
2. To determine the measurements for the expander, use Diagram A in step 7 on page 3. Take measurements at each corner of the window in both directions. Fill in the measurements. As stated in the diagram, add 3/8" to each measurement for receptor depth.
3. You will also need to take an overall width measurement of the composite, from accessory groove to accessory groove (Diagram B, page 8, measurement I).
4. To demonstrate the step-by-step instructions, we will prepare the bottom expander for installation. (For the side or top, use the corresponding dimensions found on Diagram A on page 3.)
5. Lay frame expander face down on a non-marring surface with unpainted side face up. Begin on the left side and proceed right (refer to Diagram C, page 8). Note: the lineal frame expanders are not pre-notched. Therefore, you will need to notch, score and remove the curved lip on each end of the frame expander so it will not interfere with the adjacent frame expanders. Take measurement $G + 3/8"$ and mark on unpainted face of frame expander. Notch, score (with utility knife) and remove curved lip (Figures 30 thru 32, page 8). From the left notch take measurement "I" and mark. Then notch, score and remove the right curved lip. Also at right notch, use measurement $D + 3/8"$ and mark. Square and trim. For width, mark your measurements $F + 3/8"$ and $E + 3/8"$ on unpainted face of expander. Connect the marks and trim as shown. The part is ready for installation. Repeat process for sides and top expander using corresponding dimensions. Once completed, follow steps 13-18 beginning on page 4.

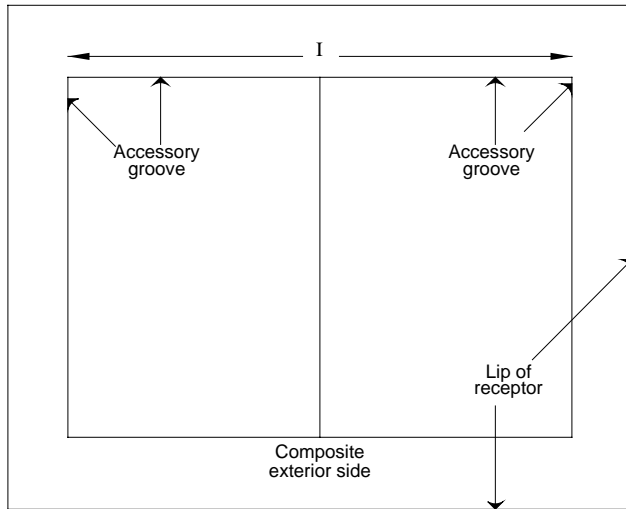


Diagram B

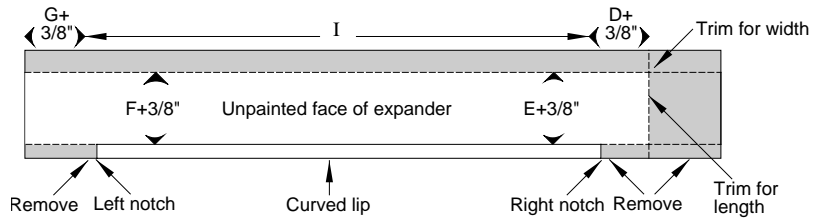


Diagram C
Bottom expander

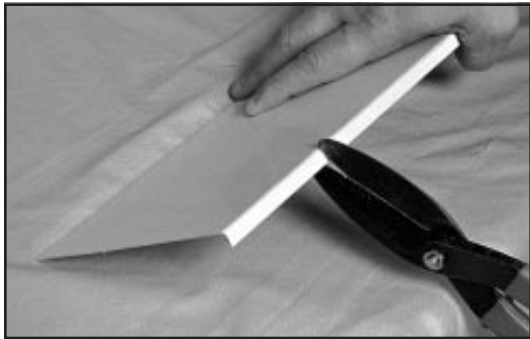


Fig. 30



Fig. 31

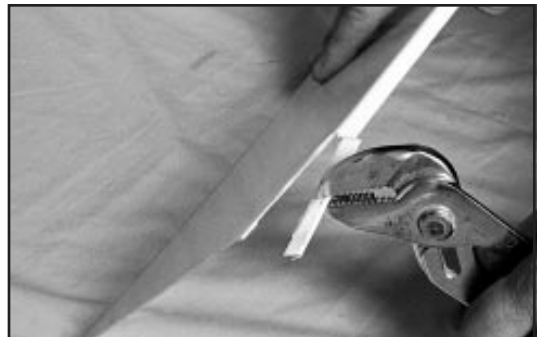


Fig. 32