

ULTRA WINDOW & DOOR EXPANDERS AND RECEIVERS INSTALLATION INSTRUCTIONS

Please read and follow the Installation Instructions enclosed with your window or door. Follow all cautions and warranty requirements. These instructions assume the window is installed, and exterior facing has not yet been applied.

▲ CAUTION: *REMEMBER SAFETY FIRST* Proper Eye and Hearing Protection must always be worn during installation of all window and door products.

(Numbers in parenthesis are metric equivalents.)

ITEMS REQUIRED

- Safety Glasses/Goggles
- Hearing Protection DevicePhillips Head Screwdriver
- Tape MeasureHammer
- Phillips Head Screwdr
 Rubber Mallet
- mmer
- Sealant and Caulk Gun
 Power Drill
- Drill Bits: 5/32" (4) and 11/64" (4)
- + Closed Cell Foam Backer Rod 1/2" (13) and/or 1" (25) diameter

For Projected Sill Nosings:

 #6 x 1-1/4" (32) or 1-1/2" (38) Phillips Pan Head Stainless Steel Screws

For Traditional Sill Nosing, Sill Drip, or Sill Extender: • #6 x 5/8" (16) Phillips Pan Head Stainless Steel Screws

For Flat Profile Trim Receiver or Backband Profile Trim Receiver, fastening Option 1:

• 1-1/2" (38) or longer Galvanized Roofing Nails

For Backband Profile Trim Receiver, fastening Option 2:

• #8 x 1-1/2" (38) Phillips Flat Head Stainless Steel Screws

INTRODUCTION

Lineal parts must be cut to length. To determine the exact lengths required, see page UTR 4 for the Head Receiver and Expander, see page UTR 5 for the Side Receivers and Expanders, and see page UTR 6 for the Sill profiles.



▲ CAUTION: The unit must be installed, and sealed around the entire perimeter at the wall. The accessory parts shown are not intended to be water tight on the exterior.

See Figs. 1 to 5. The Flat Profile Trim Receiver is used with Fig. 1, the 1-5/8" (41) Projected Sill Nosing; Fig. 2, the 2-1/8" (54) Projected Sill Nosing; Fig. 3, the Traditional Sill Nosing; and Fig. 4, the Sill Drip. The Back Band Profile Trim Receiver is used with Fig. 2, the 2-1/8" (54) Projected Sill Nosing and Fig. 5, the Sill Extender.



STEP #1: SILL DRIP OR NOSING PREPARATION

See Figs. 6 and 7. Projecting legs are extruded into the top surface, to attach the sill nosing or drip to the frame nosing. On the area overhanging either side of the sill, these legs will interfere with the side expanders and receivers. The legs must be removed from both ends before installing the drip or nosing. For both projected sill nosings, the distance to be removed equals the width of the side trim used minus the width of the end cap - 1/16" (2). For the traditional sill nosing, the sill drip, and the sill extender, the distance to be removed equals the width of the side trim used. Take measurements from the innermost edge of the accessory groove in the frame nosing. Use tin snips or rotary grinder to remove the legs, then file flush.

STEP #2: ATTACHING ANY SILL DRIP OR ANY NOSING

See Figs. 1 to 5. Apply sealant into the kerf on the underside of the extruded aluminum sill. Center the sill drip or nosing, leaving an equal amount of overhang on each side. Insert the sill drip or nosing front leg into the kerf on the front of the sill frame nosing. Swing the sill drip or nosing up and press the back leg into place.

For the 1-5/8" Projected Sill Nosing

See Fig. 8. The 1-5/8" (41) projected sill nosing requires end caps. Apply sealant around the interior perimeter of each end cap, then snap the end caps into place. Wipe off excess sealant.

See Fig. 1. To assure screw holes line up, temporarily clamp or secure the sill nosing to the sill. Using a 5/32" (4) diameter drill bit, pre-drill screw holes 9/16" (14) from the back edge of the sill nosing, towards the front of the unit. Locate the holes horizontally 3/16" (5) from each end, towards the center of the unit. If the unit width is between 32" (813) and 59" (1499), drill one additional hole at the center of the sill nosing. For larger units, drill additional holes at 27" (686) on center, along the sill nosing. Fasten with #6 x 1-1/4" (32) or 1-1/2" (38) phillips pan head stainless steel screws through the projected sill nosing, the sill nosing end cap, and up into the extruded sill.





For the 2-1/8" Projected Sill Nosing

See Fig. 9. The 2-1/8" (54) projected sill nosing requires end caps. Apply sealant around the interior perimeter of each end cap, then press the end caps into place. Wipe off excess sealant with a damp cloth.

See Fig. 2. To assure screw holes line up, temporarily clamp or secure the sill nosing to the sill. Using a 5/32" (4) diameter drill bit, pre-drill screw holes 9/16" (14) from the back edge of the sill nosing, towards the front of the unit. Locate the holes horizontally 9/16" (14) from each end, towards the center of the unit. If the unit width is between 32" (813) and 59" (1499), drill one additional hole at the center of the sill nosing. For larger units, drill additional holes at 27" (686) on center, along the sill nosing. Fasten with #6 x 1-1/4" (32) or 1-1/2" (38) phillips pan head stainless steel screws through the projected sill nosing, the sill nosing end cap, and up into the extruded sill.

For the Traditional Sill Nosing

See Fig. 3. To assure screw holes line up, temporarily clamp or secure the sill nosing to the sill. Using a 5/32" (4) diameter drill bit, pre-drill screw holes 1/2" (13) from the back edge of the sill nosing, towards the front of the unit. Locate the holes horizontally 2" (51) from each end, towards the center of the unit. If the unit width is between 32" (813) and 59" (1499), drill one additional hole at the center of the sill nosing. For larger units, drill additional holes at 27" (686) on center, along the sill nosing. Fasten with #6 x 5/8" (16) phillips pan head stainless steel screws through the traditional sill nosing, up into the extruded sill. Use only aluminum or galvanized nails 1-1/2" (38) or longer, to secure the long back leg of the traditional sill nosing to the building.

For the Sill Drip

See Fig. 4. To assure screw holes line up, temporarily clamp or secure the sill drip to the sill. Using a 5/32" (4) diameter drill bit, pre-drill screw holes 1/2" (13) from the back edge of the sill drip, towards the front of the unit. Locate the holes horizontally 2" (51) from each end, towards the center of the unit. If the unit width is between 32" (813) and 59" (1499), drill one additional hole at the center of the sill drip. For larger units, drill additional holes at 27" (686) on center, along the sill drip. Fasten with #6 x 5/8" (16) phillips pan head stainless steel screws through the sill drip, up into the extruded sill. Use only aluminum or galvanized nails 1-1/2" (38) or longer, to secure the long back leg of the sill drip to the building.

For the Sill Extender

See Fig. 5. To assure screw holes line up, temporarily clamp or secure the sill extender to the sill. Using a 5/32" (4) diameter drill bit, pre-drill holes 2-1/4" (57) in from the front edge of the sill extender, towards the interior of the opening. Locate the holes

horizontally 2" (51) from each end, towards the center of the unit. If the unit width is between 32" (813) and 59" (1499), drill one additional hole at the center of the sill extender. For larger units, drill additional holes at 27" (686) on center, along the sill extender. Fasten with #6 x 5/8" (16) phillips pan head stainless steel screws through the sill extender, up into the extruded sill.

STEP #3: TRIM RECEIVER PREPARATION

A trim receiver must be installed first, when using any frame expander. This includes the standard size frame expanders: 1" (25), 2-1/2" (64), 4" (102), 6" (152), and 7" (178), as well as any custom or cut-to-fit expanders.

▲ CAUTION: When the frame expander is pressed into position, there must be a 1/8" gap between the top of the frame expander and the top of the trim receiver kerf. This gap will allow for expansion and contraction.

The side trim receivers must be cut at the bottom to follow the slope of the sill drip or nosing. Cut these pieces at a 5° angle with the back being higher (shorter) than the front. For the frame expander, relieve the leg; it is not necessary to angle the long, flat area of the frame expander. Notch the leg of the head frame expander at both ends, to clear the side frame receivers.

STEP #4: ATTACHING FRAME EXPANDER TRIM RECEIVERS

FLAT PROFILE

See Figs. 10 and 11. Cut the top corners of the trim receiver at a 45° angle. To draw these corners together tightly, use the supplied aluminum corner angles. Slide the angle down between the two small guide legs and the outermost edge of the trim receiver. Pre-drill holes in both the head and side, using a 5/32" (4) drill bit.Locate holes 3/4" (19) from the front edge and 5/8" (16) from the side edge. Fasten with #6 x 5/8" (16) phillips pan head stainless steel screws.







See Figs. 12 and 13. Fasten the trim receiver to the exterior wall surface using only aluminum or galvanized nails 1-1/2" (38) or longer, to penetrate through the flashing, the exterior sheathing, and into the framing. Nail 4" (102) from each end and 18" (457) on center between.

BACKBAND PROFILE

See Fig. 11. Cut the top corners of the trim receiver at a 45° angle. Pre-drill holes using a 5/32" (4) drill bit. Locate holes at 7/8" (22) from the front edge and 5/8" (16) from the side edge. The groove can be used as a guide for hole placement. Drill holes in both the head and the side trim receivers. Fasten with #6 x 1-1/4" (32) or 1-1/2" (38) phillips flat head stainless steel screws.

See Fig. 14. Fasten the trim receiver to the exterior wall using Option 1 or Option 2.

Option 1

This option requires a nailing fin. If the nailing fin is not already attached, press it firmly into the kerf in the top of the trim receiver. Use only aluminum or galvanized nails, 1-1/2" (38) or longer, to penetrate into the framing. Nail 4" (102) from each end, and 18" (457) on center between.

Option 2

Shim between the flashing and the backband trim receiver with standard 1X nominal size lumber - 3/4" (19) actual size. Pre-drill holes using a 11/64" (4) drill bit. Use the V groove in the screw recess area of the backband trim receiver to position the drill bit. Locate the holes 4" (102) from each end and 18" (457) on center between. Fasten with #8 x 1-1/2" (38) or longer phillips flat head stainless steel screws.

STEP #5: INSTALLATION OF FRAME EXPANDER

See Figs. 12 to 14. Apply a generous bead of sealant on the back leg of the trim receiver. Angle the frame expander and slide it up into the slot where the sealant was placed. Swing the bottom into place and press to fit tightly. If necessary, use a rubber mallet to tap into place, protecting the trim with a piece of scrap board.

STEP #6: COMPLETING THE EXTERIOR

See Figs. 13 and 14. Apply a backer rod between the siding and trim receiver. Apply a generous bead of sealant over the backer rod in the gap as shown. Do not seal the front face of the side frame expander or trim receiver to the sill, to allow moisture to weep out.

For further information, contact your distributor or visit Kolbe on the Internet at www.kolbe-kolbe.com. Visit www.kolbe-kolbe.com/ download_installinfo.shtml to find the installation instructions for each of our products. Notes

Kolbe & Kolbe Millwork Co., Inc. reserves the right to change specifications without notice.









Trim Receivers and Frame Expanders Sill Dimensions

