

INSTALLATION INSTRUCTIONS FOR ULTRA OGEE CASING AND SILLS

For Field Application to Windows

Read and follow the Installation Instructions enclosed with your window. Follow all cautions and warranty requirements. The window must be installed with the exterior facing not applied yet. Generic application is shown; your conditions may vary.

**PLEASE READ THESE INSTRUCTIONS COMPLETELY
BEFORE STARTING INSTALLATION.**

Failure to install and maintain our product according to these instructions will void any warranty, written or implied.

The installer is responsible for consulting the contractor, structural engineer, architect, or consumer, for proper installation according to local codes and/or ordinances.

⚠ Recognize this symbol. When this symbol appears, be aware of possible injury or product damage.

⚠ **WARNING: *REMEMBER SAFETY FIRST***
Proper Eye and Hearing Protection must always be worn when installing, removing or performing adjustments to Kolbe window and door products.

ITEMS REQUIRED BY INSTALLER

- Safety glasses/goggles
- Hearing protection device
- Rubber mallet
- Phillips head screwdriver
- Power drill
- Sealant and caulk gun
- 11/64" (4mm) and 17/64" (7mm) drill bits
- #6 x 1-1/2" (38mm) phillips flat head stainless steel screws
- Closed cell foam backer rod in 1/2" (13mm) and/or 1" (25mm) diameter

For the historic nosing:

- #8 x 2-1/2" (64mm) phillips pan head stainless steel screws

For lineal footage trim:

- Tape measure
- Miter saw
- Rotary grinder

⚠ **CAUTION:** The window must be installed and sealed around the entire perimeter at the wall. The Ultra trim pieces shown are not designed to be water tight on the exterior.

When applying sealant, make sure the area to be sealed is clean and free of debris. Use transparent or color-matching sealant; photos show contrasting sealant for clarity and demonstration only.

INTRODUCTION

See Figs. 1 to 4. Kolbe's ogee casing, profile B842H (head) and profile B842S (side), is designed to be used with either the 2-1/8" (54mm) projected sill nosing, B8310, or the historic nosing, profile B8321.

STEP #1: PRELIMINARY PREPARATION

Remove the shipping cover from the accessory groove. Trim the nailing fin, if required. Lineal trim must be cut to size. Measure along the outside edge.

**SKIP TO STEP #6 IF THE BRICKMOULD
AND SILL NOSING ARE PRE-CUT.**



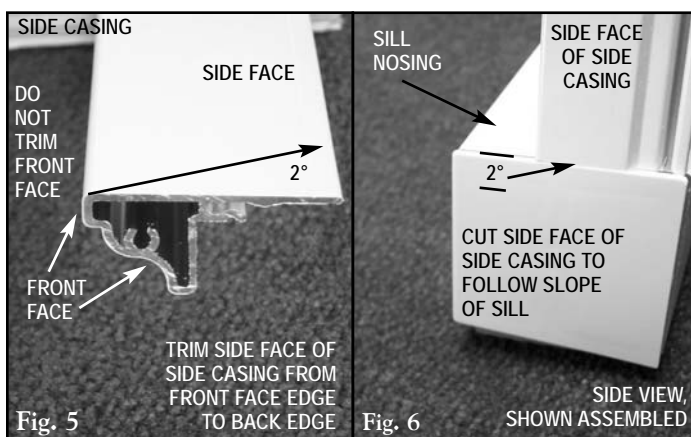
STEP #2: CUT SILL PIECES

Use a miter saw to cut the ends at a 90° angle. For either sill nosing:

$$\text{Sill Length} = \text{Frame Width}$$

STEP #3: CUT HEAD AND SIDE PIECES

See Figs. 5 and 6. Follow the appropriate formula for your window. A left side piece and a right side piece are required. Using a miter saw, 45° miter cut the top corners of the head and casings, with the angle sloping down toward the center of the window. On the side casing, the bottom of the side face must follow the slope of the sill nosing. Cut a 2° angle from the outside corner of the front face, with the angle sloping up, toward the interior of the unit.



For the Ultra awning, casement, casement picture, French casement, casement transom, and double hung transom with flat sill:

Side Height = Frame Height + 7/32" (6mm)

Head Width = Frame Width + 1/8" (3mm)

For the Ultra double hung, double hung studio, double hung transom with beveled sill, single hung, slider, slider studio, and triple slider:

Side Height = Frame Height + 1/4" (6mm)

Head Width = Frame Width + 1/8" (3mm)

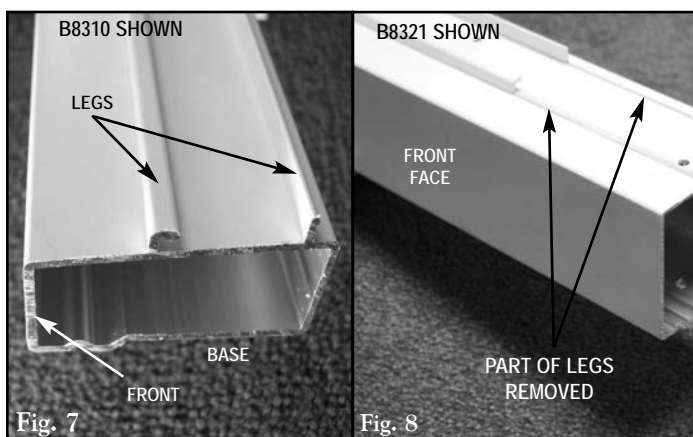
STEP #4: SILL NOSING PREPARATION

See Figs. 7 and 8. The sill nosings are attached to the frame nosing by using projecting legs. A short portion of these legs must be removed from both ends of the sill nosing before installation, to avoid interfering with the side casing. Take measurements from the side edge of the sill nosing. Use a rotary grinder to remove the leg portion, then file flush.

Length to Remove = 3/16" (5mm) Each Side

STEP #5: PRE-DRILL SCREW HOLES

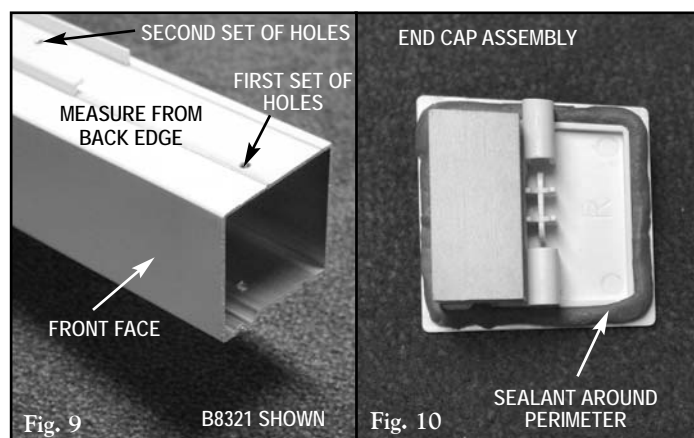
See Fig. 9. Pre-drill two sets of holes using a 11/64" (4mm) drill bit. The first set is used to attach the sill



nosing to the side casing. The second set is used to anchor the sill nosing to the window sill.

For both sill nosings:

There are shallow locator grooves in the underside of the sill nosings. Use the one nearest the front to locate the first set of holes or measure 1-1/8" (29mm) from the back edge and 7/16" (11mm) from the side edges. Locate the second set of holes using the back locator groove or measure 9/16" (14mm) from the back edge and 5-1/4" (133mm) from the side edges. If the unit width is between 32" (813mm) and 59" (1499mm), drill one additional hole at the center of the sill nosing, 9/16" (14mm) from the back edge. For larger units, drill additional holes 27" (686mm) on center, 9/16" (14mm) from the back edge.



For the oggee casing:

Pre-drill holes in the top of the head only; do not drill holes in the side casing pieces. The shallow locator groove in the recessed area on the head casing can be used for positioning, or measure 11/32" (9mm) from the front edge, toward the building interior. Locate the holes 3/8" (10mm) from the side edges, toward the center of the unit. Use a 11/64" (4mm) diameter drill bit and countersink with a 17/64" (7mm) diameter bit.

STEP #6: ATTACH THE SILL NOSING

The side oggee casing is designed to slightly overlap the extruded legs of the sill nosing. As a result, the sill nosing must be installed first.

See Figs. 3 and 4. Apply sealant into the kerf on the underside of the window sill. Do not apply sealant to the kerf in the front face of the sill. Insert the sill nosing front leg into the kerf on the front of the sill frame, then swing the sill nosing up and press the back leg into place. Center the sill nosing, leaving an equal amount of overhang on each side. If necessary, use a rubber mallet to tap into place, protecting the surface with a piece of scrap board.

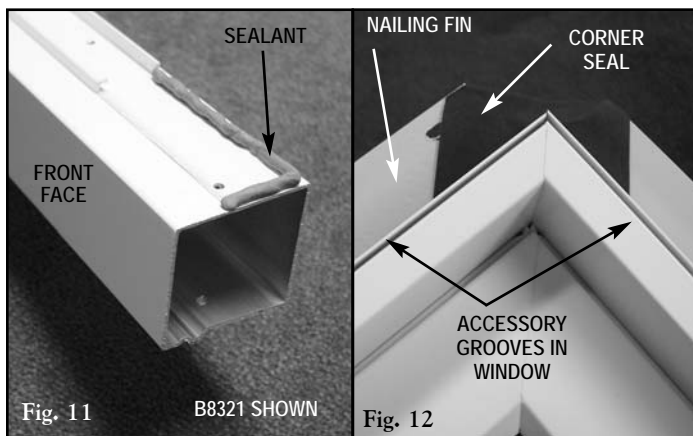
⚠ CAUTION: To prevent a galvanic reaction between the trim and fasteners, use only galvanized or aluminum nails and stainless steel screws.

See Fig. 10. The sill nosings require right and left end caps. Apply sealant around the interior perimeter of each end cap, then press into place on the nosing. Wipe off any excess sealant.

A unit between 32" (813mm) and 59" (1499mm) wide requires one additional screw in the center of the of the nosing. Larger units require additional screws 27" (686mm) on center. There are shallow locator grooves in the underside of the sill nosings; use the back groove, if holes are not pre-drilled, or measure 9/16" (14mm) from the back edge. Use a 11/64" (4mm) drill bit. Fasten the 2-1/8" (54mm) projected sill nosing with #6 x 1-1/2" (38mm) phillips pan head stainless steel screws. For the historic nosing, use #8 x 2-1/2" (64mm) phillips pan head stainless steel screws.

STEP #7: ATTACH THE CASING

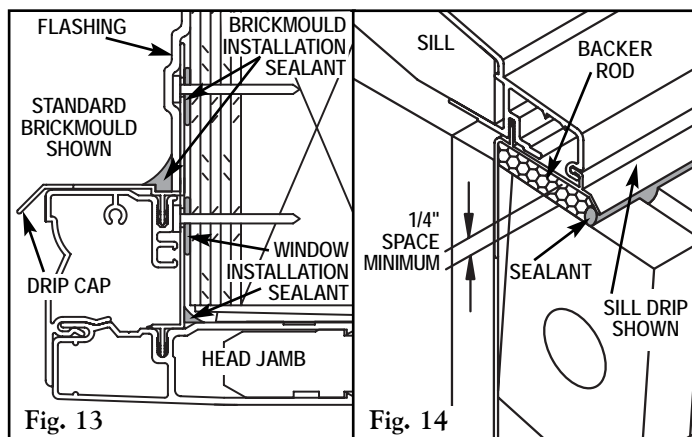
See Fig. 11. Before installing the side casings, apply a 3/16" (5mm) diameter bead of sealant to the top of the sill, along the back edge and the outermost side edge. Do not apply sealant to the front edge of the sill, to allow moisture to weep out. It is not necessary to seal the upper corners of the head-to-side joints.



See Fig. 12. Press the shorter projecting leg of each side casing into the accessory groove on the frame. If necessary, use a rubber mallet to tap into place tightly, protecting the surface with scrap board. Press the head casing into place. Insert #6 x 1-1/2" (38mm) phillips flat head stainless steel screws into the pre-drilled holes.

STEP #8: COMPLETE THE EXTERIOR

Protect the building structure from moisture penetration. Install a drip cap to direct water away from the window and lessen the chance of water seepage. See Fig. 13. Seal the side edges of the drip cap to the window. Seal around



the entire perimeter between the brickmould and the exterior sheathing or water barrier.

⚠ CAUTION: See Fig. 14. A 1/4" (6mm) minimum gap between the sill nosing and the exterior facing is required when using brick, stone, marble or concrete as an exterior facing. This allows for movement or settling of the structure, which could effect unit operation. Span the gap with an appropriate sealant joint, using backer rod the length of the sill, if necessary.

Contact your Kolbe Window and Door supplier or visit us on the internet at www.kolbe-kolbe.com for further information. Installation instructions for other Kolbe products can be downloaded from our website.

THANK YOU
FOR PURCHASING KOLBE PRODUCTS.