

KOLBE[®]

WINDOWS & DOORS

FORGENT[®] SERIES
Complementary
Sliding Patio Doors
Installation Instructions

**READ THESE INSTRUCTIONS COMPLETELY BEFORE
STARTING ANY INSTALLATION**

⚠ CAUTION

Lead-based paint may be present in older homes, and the removal of windows & doors may cause this paint to be disturbed. In order to minimize exposure to lead-based paint dust, please consult www.epa.gov/lead for more information.

www.kolbewindows.com

Installer: DO NOT DISCARD Please leave the Installation Guide with the home owner to file for future reference.

Please read and follow the Installation Instructions completely before installing. If you have any questions about this or any of our products, please call your local Kolbe dealer.

NOTICE

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.

⚠ CAUTION

Some codes require the use of pressure treated lumber to line rough openings. Corrosion resistant materials, such as stainless steel or hot-dip galvanized steel, must be used for fasteners and anchors having direct contact with pressure treated lumber.

⚠ WARNING

Proper Eye and Hearing Protection must always be worn when installing, removing or performing adjustments to Kolbe window and door products.

NOTICE

Before applying sealant or adhesive pads, make sure the area to be sealed is clean, dry, and frost-free. Use color-matching or transparent sealant. Photos show contrasting sealant for clarity and demonstration only. Use a dab of sealant behind any exterior-facing screws or nails.

INTRODUCTION

Proper installation and maintenance of this product is essential to its performance. The following instructions are to be used as guidelines only. Kolbe recommends consulting a local Kolbe supplier or an experienced contractor, architect, or structural engineer since every installation is different. Installation of this product is the sole responsibility of the architect, contractor, building owner, or consumer and Kolbe has no responsibility in this regard.

- CAUTION: Lead-based paint may be present in older homes, and the removal of windows may cause this paint to be disturbed. In order to minimize exposure to lead-based paint dust, please consult www.epa.gov/lead for more information.
- Care must be taken to properly recycle or dispose of old materials. Any recyclable materials should be separated from non-recyclable or hazardous materials. Please consult with local or state authorities regarding proper disposal of non-recyclable or hazardous materials.
- In light of the Exofol film's low surface tension and dirt repellent characteristics, it is important that proper sealants are chosen and used for sealing the perimeter of the window and door frames to the surrounding building structures. Sealants that have been approved are Dow Corning 758 silicone sealant and Dow Corning 795 silicone sealant.

ITEMS REQUIRED BY INSTALLER

- Steel Toe Footwear
- Hard Hat
- Sealant
- Rubber Mallet
- Harness and Tie offs (per site regulations)
- Safety Glasses
- Cordless or Pneumatic Reversible Driver
- P2 Phillips Head Bits (6 inches long)
- Cordless or Pneumatic Caulk Gun
- Level
- Tape Measure
- Construction Pencils
- Tapcon screws or Drill Hammer for applying grommets (screw sleeves) into concrete.
- Heat Gun (Impact units only)
- Closed cell foam backer rod in 1/2" (13mm) diameter and 1" (25mm) diameter
- Shims
- Square
- Flashing tape
- Fiberglass Insulation

For screw through the frame installation:

- 9/64" (4mm) drill bit
- #10 x 3-1/2" (90mm) flat head screws

PRELIMINARY PREPARATION

PREPARE ROUGH OPENING:

1. The material/lumber quality and the fasteners must be structurally adequate for design load requirements.
2. Typically, the rough opening should be 1/2" (13mm) wider and 1/2" (13mm) higher than the outside measurement of the window frame.
3. The rough opening must be plumb, square, level and in plane.
4. Individual construction members should not be twisted.
5. The floor beneath the unit must be solid and level for proper unit operation.

Remove the shipping packaging, skid plates or factory applied bracing. Make sure the unit is not damaged and the dimensions are appropriate for the rough opening. Check that you have all necessary hardware.

⚠ CAUTION

Before applying sealant, make sure the area to be sealed is clean, dry, and frost-free. Use color- matching or transparent sealant.

SEALANT AND FLASHING

Kolbe recommends following ASTM E 2112-01 guidelines for sealing and flashing exterior windows. Maintain a gap of at least 1/4" (6mm) between the window frame and the rough opening structure. Create a proper seal between the window and the building exterior. For more details, see our pamphlets Sealant Information and Flashing Information. These publications are available from your Kolbe Window and Door supplier or visit our website to download a copy.

Install Sill Pan (if applicable)

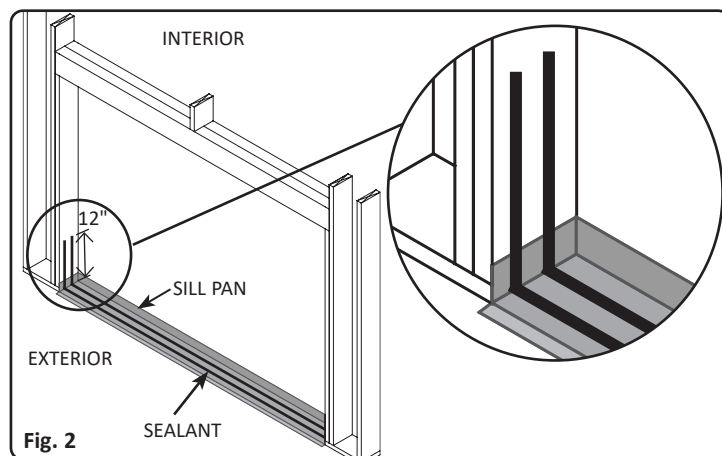
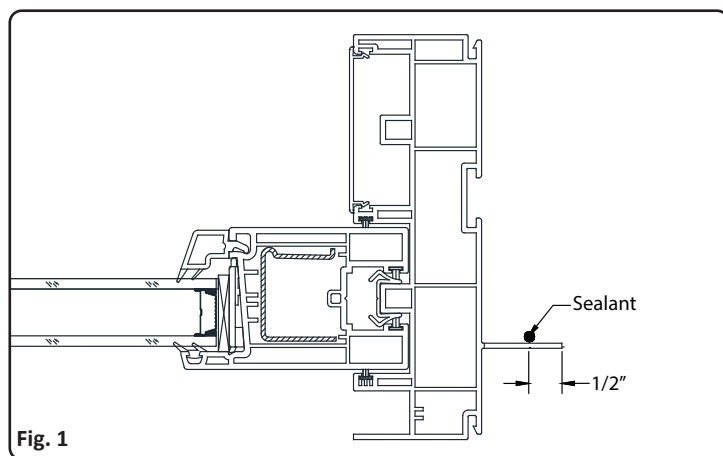
Where applicable, Kolbe recommends the use of a sill pan when installing windows and doors. Follow ASTM E 2112 standards when making and installing the sill pan.

When using a sill pan the following must be met:

- The sill pan flashing must be integrated with the water resistant barrier and other flashing materials.
- Sill pan flashing shall not be sloped toward the interior
- The height of the rear upturned leg (back dam) of the sill pan must be appropriate for the product being installed on.

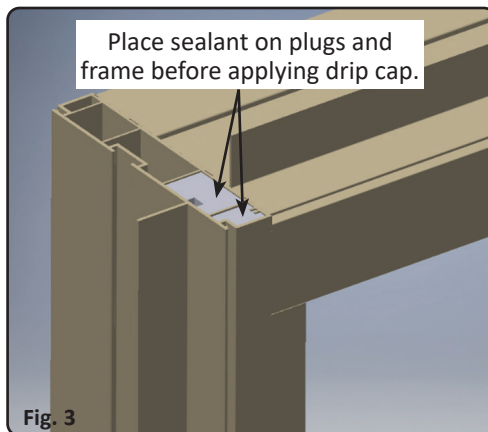
Apply sealant to unit

See Fig 1. For sealant on nailing Fin, apply a 3/16" (5mm) bead of sealant to the nail fin as shown. Sealant is required at the head and jambs. No sealant required at the sill.

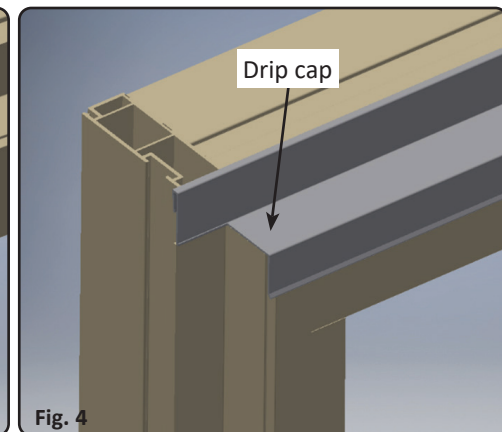


See Fig. 2. Run two 3/8" (10mm) beads of sealant across the width of the sub floor and up each side, a minimum of 12" allowing the sealant to pool in the corners. Run the first bead 1-3/8" (35mm) in from the exterior face of the wall and the second bead 2" in from the first bead.

See Fig. 3. Apply sealant at the head of the door in each corner placing sealant on the foam plugs. Sealant should cover the plugs completely.



See Fig. 4. Then apply the drip cap that was shipped loose with the door. Sealant should squeeze out between the door frame and drip cap. Wipe off and clean excess sealant.

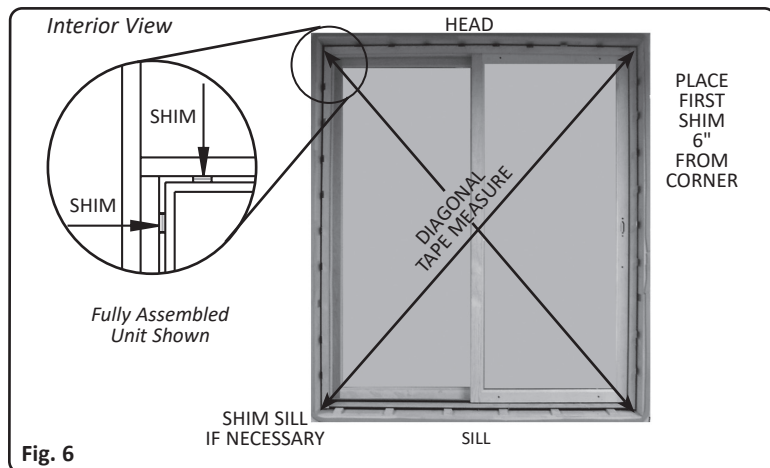
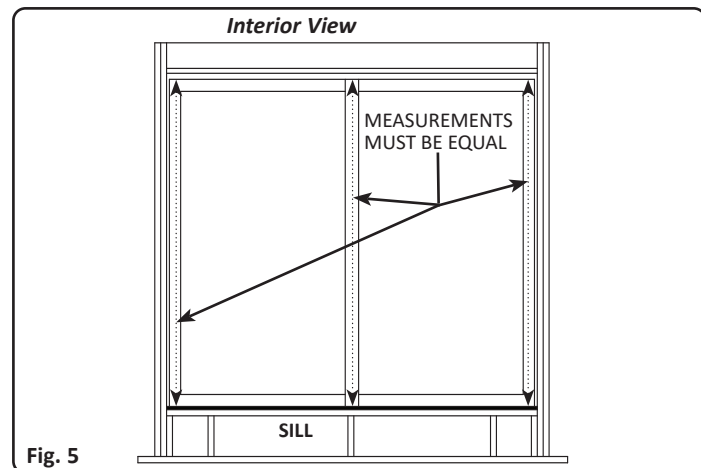


SCREW THROUGH THE FRAME INSTALLATION

From the exterior, carefully tilt unit, sill first, into the rough opening. Press the nailing fin evenly against the exterior sheathing. Center the unit, equalizing the frame to rough opening gap.

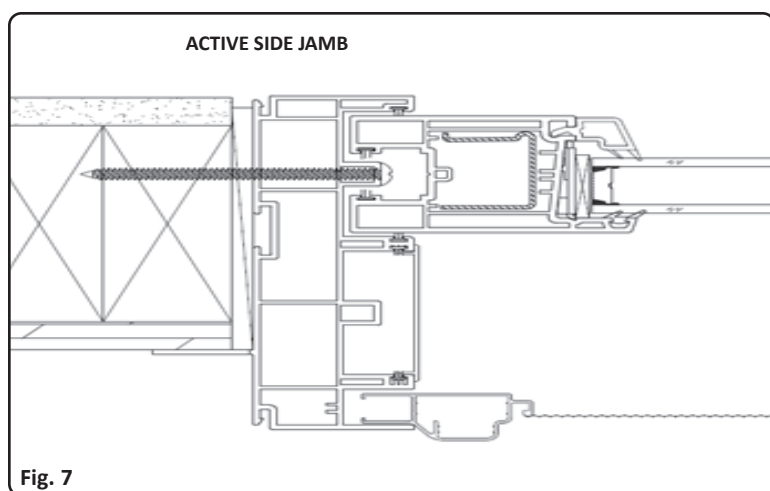
See Fig. 5. To check that the unit is square, measure both diagonals from the interior, the measurements must be within 1/16" (2mm) of each other. The height of the frame at the center must be the same as the height at each end. The margins around the door should be even. Add shims if necessary to square the unit in the opening.

See Fig. 5. Shims and screws should be placed along the head and sill at 6" (152mm) from the corners/ends and every 10" (254mm) on center. At the side jambs, shims and screws should be placed at 6" from the corner/s ends and every 18" on center.



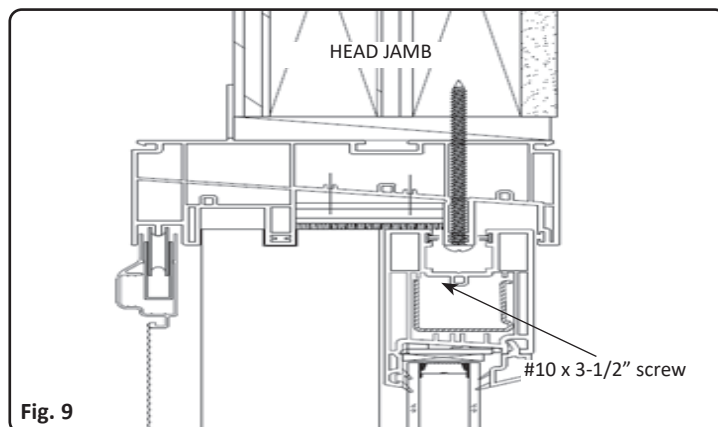
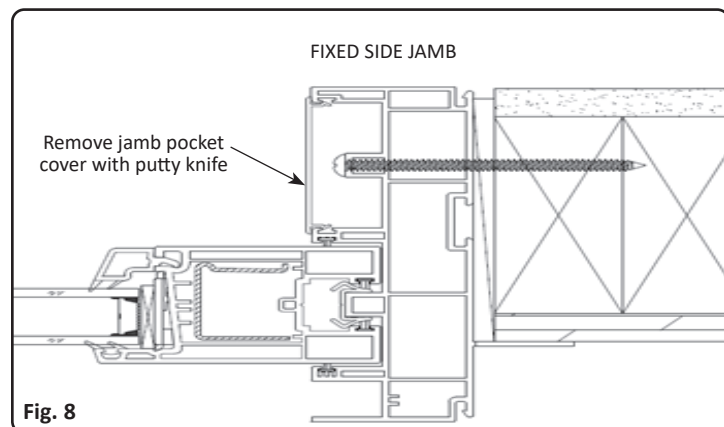
See Fig. 7. The active panel side jamb must be screwed through the frame inside the active panel pocket. Mark the screw locations on the tower of the active jamb and pre-drill pilot holes through the frame using a 9/64" (4mm) drill bit. Use a #10 x 3-1/2" (89mm) pan head screws (provided by others) at each pre-drilled location of 6" from the corners and 18" on center.

Note** When installing keepers on the active jamb a 3-1/2" screw is used through the keeper, jamb and into the opening. Screws supplied in installation kit.



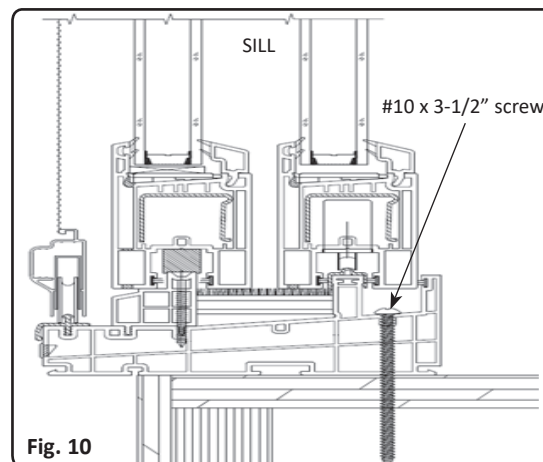
See Fig. 8. The fixed panel side jamb must be screwed through the frame inside the active panel pocket. Remove the interior jamb pocket cover with a putty knife. Mark the screw locations on the tower of the active jamb and pre-drill pilot holes through the frame using a 9/64" (4mm) drill bit. Use a #10 x 3-1/2" (89mm) pan head screws (provided by others) at each pre-drilled location of 6" from the corners and 18" on center.

Reinstall jamb pocket cover once finished installing screws.



See Fig. 9. The head of the door must be screwed in the same active pocket and tower as the two side jambs. Mark the screw locations on the tower and pre-drill pilot holes through the frame using a 9/64" (4mm) drill bit. Use a #10 x 3-1/2" (89mm) pan head screws (provided by others) at each pre-drilled location of 6" from the corners and 10" on center.

See Fig. 10. The sill of the door must be secured in the same active pocket. Mark the screw locations and pre-drill pilot holes through the frame using a 9/64" (4mm) drill bit. Place sealant in each pre-drilled location prior to installing the screws. Use a #10 x 3-1/2" (89mm) pan head screws (provided by others) at each pre-drilled location of 6" from the corners and 10" on center.



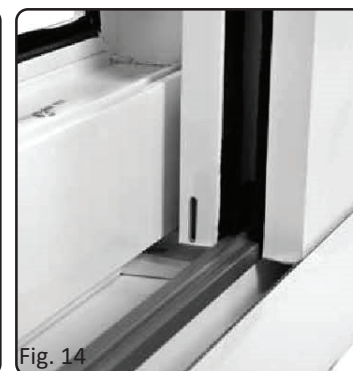
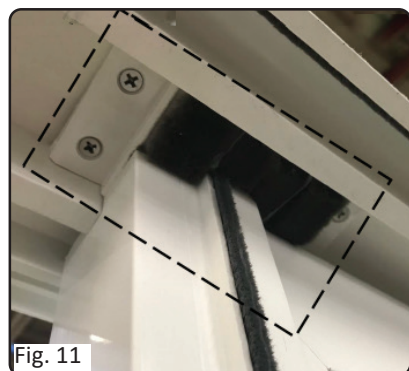
Sidelite units

For a sidelite the process is the same except the sidelite requires a 3/8" pilot hole to be drilled on the interior side. Drill holes in the frame. Apply sealant to each screw hole to prevent penetration of water. Cover the hole with a 3/8" color matched cap. Secure the sidelite sill to the sub-floor using #10 x 1-1/2" (38mm) pan head screws.

ACTIVE PANEL INSTALLATION (ONLY IF ACTIVE PANEL IS SHIPPED LOOSE)

See Fig. 11. Remove the upper pocket block from the door frame head to be able to install the active sliding sash.

See Fig. 12-14. Insert active sash into the frame assembly, starting with the head end and swing the bottom into position until it rests on the saddle rail of the sill assembly.



See Fig. 15-17, next page. Open active sash completely. Slide in the sash pocket block from the active jamb side. Align pocket block with the edge of the fixed sash and secure using 2 screws #8 x 3/4 in. flat head. Secure the pocket block from the exterior side of door. Locate an additional sash pocket block centered above H-mullion for FAF doors.

Note: Thicker side of sash pocket block goes toward the exterior side of the door. The active panel will need to be adjusted down so that panels are even at the head.



Fig. 15



Fig. 16



Fig. 17

See Fig. 18. Using one #8 x 3/4" flat head screw, secure the sash pocket block from the interior side of door.

Note: The fourth flat head screw cannot be installed when assembly is done on-site.



Fig. 18



Fig. 19



Fig. 20

See Fig. 19-21. Align the interlock with top of the fixed sash. Using a mallet, snap the interlock onto the fixed sash.

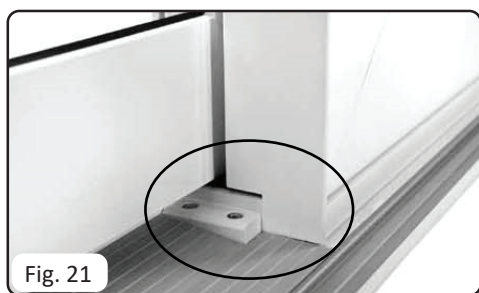


Fig. 21



Fig. 22



Fig. 23

See Fig. 22 & 23. Align the active sash interlock with the bottom of the sash. Using a mallet, snap the interlock onto the active sash from bottom to top.

PANEL ADJUSTMENTS

See Fig. 24. The panel rollers may need to be adjusted for the unit to function properly. Slide the active panel open slightly. Check for a consistent margin from top to bottom. To adjust the margin, insert a standard Phillips head screwdriver into the hole at the bottom of the panel, clockwise = up, and counter clockwise = down. This will raise or lower one corner of the panel.

See Fig. 25. When the door is adjusted properly place a plug in the hole on the active panel.



Fig. 24



Fig. 25

INSULATION AND INTERIOR CASING/TRIM

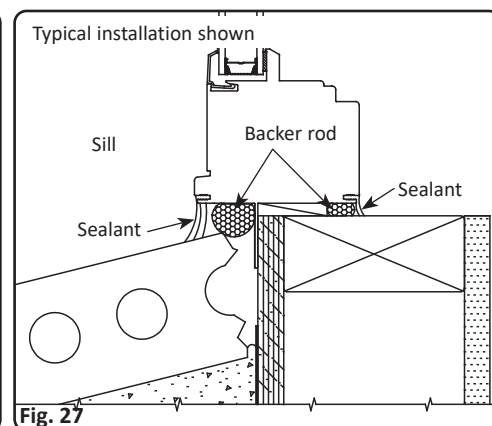
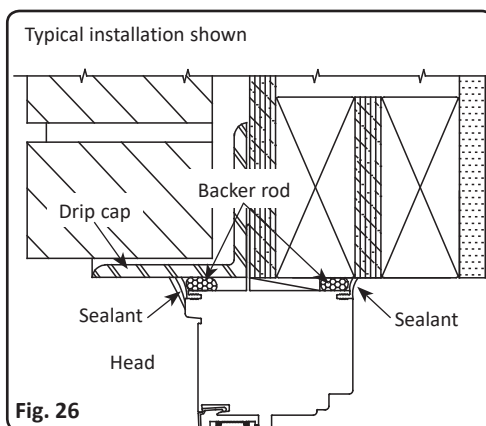
Kolbe recommends installing fiberglass insulation in the gap between the door frame and the rough opening. Using a putty knife, loosely fill the entire depth of the gap with insulation. Apply interior casing and secure with finishing nails.

⚠ CAUTION

Over-packed insulation can lessen the insulating effectiveness and distort the frame, resulting in poor operation.

COMPLETING THE EXTERIOR

See Fig. 26 & 27. Install backer rod and sealant around the interior and exterior perimeter of the frame. Both components are required to seal the window to the self-adhering flashing when no nailing fin is required. Also, a drip cap must be installed to direct water away from the window and lessen the chance of water seepage. Seal the side edges of the drip cap to the window. Seal between the drip cap and the exterior sheathing.



HARDWARE INSTALLATION

Install the handle set, optional foot bolt/secondary security lock and screen according to manufacturers instructions.

MAINTENANCE TIPS AND PROCEDURES

Inspect your Kolbe products periodically/yearly to see if the exterior sealants and/or finishes have any gaps, cracks, or signs of damage and deterioration. Caulk any cracks immediately with a high quality sealant to maintain the seal integrity and to prevent air and water infiltration.

CLEANING

A quarterly cleaning with a mild unscented soap and sweet water (tap water) solution is recommended for the sash and frames; rinse well. (**Cleaning on units installed in high salt spray areas require a monthly cleaning and rinse.**) Clean glass with standard glass cleaner, keeping it from running onto the sash and weather-strip.

⚠ CAUTION

Do not pressure wash! Do not use any kind of abrasive. Abrasives can cause permanent damage to the PVC and finish.

HARDWARE

Check all fasteners, making sure all hardware is properly secured. All operating components can be greased or oiled once a year. Security strikers made of steel require continuous greasing in order to avoid unnecessary abrasion.

⚠ CAUTION

Avoid getting finishing products on any hardware, vinyl components and weatherstripping.

INSULATING GLASS

Broken or fogged IG units that require re-glazing or replacement should be referred to your Kolbe distributor.

⚠ CAUTION

Kolbe's standard insulating glass has a LoE coating on surface 2. It does not match clear glass or other LoE products. Do-it-yourself re-glazing or replacing without Kolbe's permission will void the product warranty.

Contact your Kolbe window and door supplier or visit us
at www.kolbewindows.com for further information.

**THANK YOU
FOR PURCHASING KOLBE PRODUCTS.**

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