Direct Set Replacement of Insulating Glass (IG) with Applied Grilles

SERVICE INSTRUCTION

Tools Required:

- Phillips Screw driver
- Utility Knife
- Hammer
- Small pry bar
- Deglazing tool
- Sealant Gun
- 5 in 1 tool
- Thin stiff putty knife
- Side cutters
- Isopropyl alcohol
- Dow 995 silicone
- Glass suction cups
- 3/8" wide wood chisel
- Glass cutter

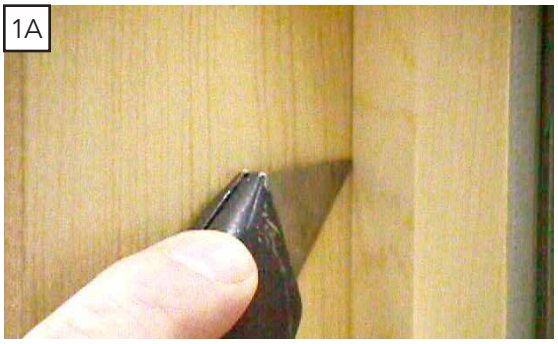
Glass in fixed frame units is installed (without a sash) directly in the frame using removable stops. The stops, both curved and straight, are stapled from the backside. Impact Resistant IG units have stops glued to the frame and screwed from the backside. On all units the stops are removable from the interior; however, the original stops are likely to be damaged in the process. It is recommended to have replacement stops on hand.

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

1 Remove the Glass Stops and the Glass:

A. Cut the interior finish where the glazing stops meet the frame. This will ease stop removal and minimize damage to the frame finish.

Impact Resistant IG units: Use a thin putty knife or deglazing tool to cut the glue between the stop and frame.



B. Use a deglazing tool or stiff putty knife to cut and remove each end of the grille bars around the perimeter of the unit. This will minimize damage to the stops during the stop removal.







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1 Remove the Glass Stops and the Glass (continued):

C. Use a thin stiff putty knife or deglazing tool to cut the tape between the stops and glass.



D. To remove straight glazing stops; start on one end of the stop and use a stiff putty knife and/or a small pry bar to lift the stop away from the frame and off the staples or screws. Slowly pry the stop away from the glass along the length of the stop. Use care so as not to damage the stop. (This is especially important if re-using the stop to avoid re-finishing.) Repeat on all stops.













1 Remove the Glass Stops and the Glass (continued):

E. Remove and if possible, save the curved stops, find a joint and pry on one glazing stop end while tapping the other stop with a hammer to help the ends pass by each other.

1E



F. Remove the staples or screws by cutting with a side cutter and tap the ends down with a hammer.

1F



1F



G. Remove the glass setting blocks from around old glass with a hooking tool and long nose Vise-Grips.

1G



H. It may be necessary to cut around the glass to help “release” the glass from the sealant.

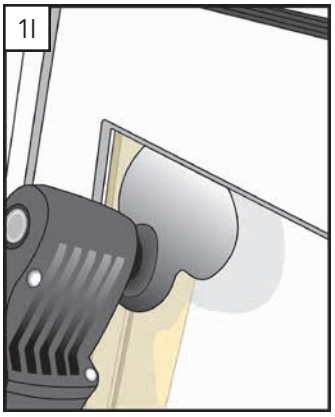
1H

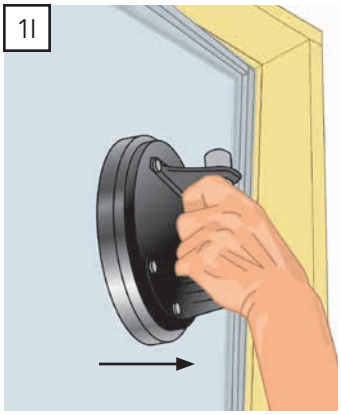


1 Remove the Glass Stops and the Glass (continued):

I. On the exterior, use a thin, sharp putty knife or deglazing tool to cut the glazing bead between the exterior glazing flange and the old glass. If the glass has one unbroken sheet, a glass suction cup can be used on the interior to apply gradual pulling pressure to help free and control the glass.

Hint: Use a glass cutter to score and break out smaller pieces.





J. After removing the glass, clean the sealant off the exterior glazing flange.

Hint: A sharp 3/8" wide wood chisel will help this process.



K. After removing the sealant, clean all debris from the glazing surface using a vacuum or brush follow by some Isopropyl alcohol on a rag.

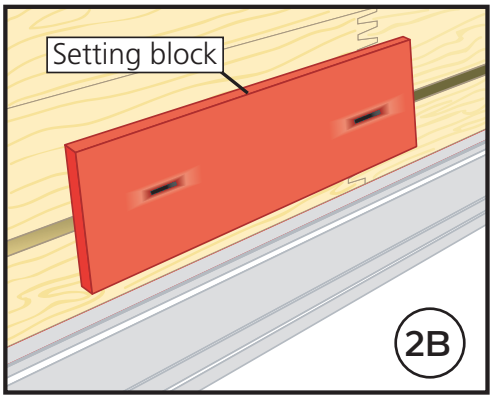




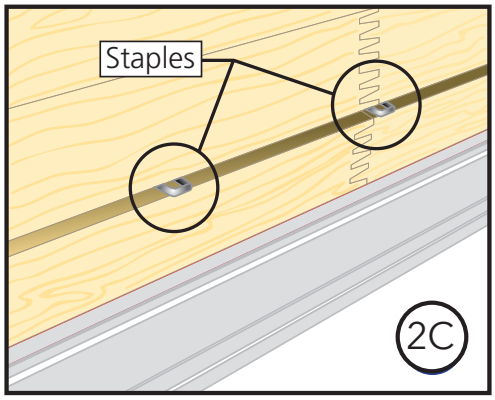
2 Remove Replacement Glass from Temporary Frame:

A. Place the frame exterior down.

B. Pull all setting blocks off the exterior part of the unit to expose staple heads.

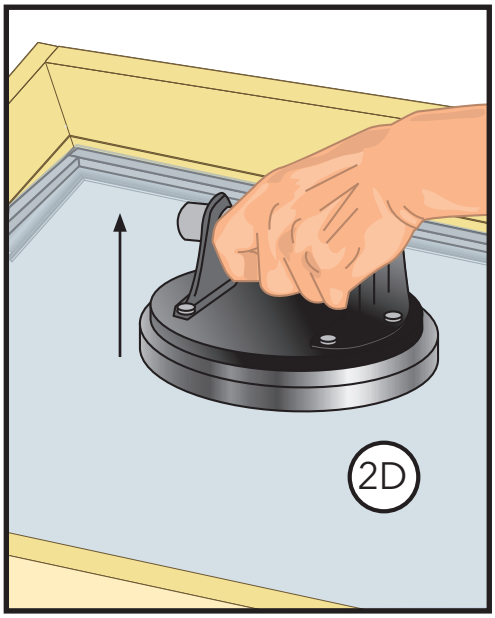


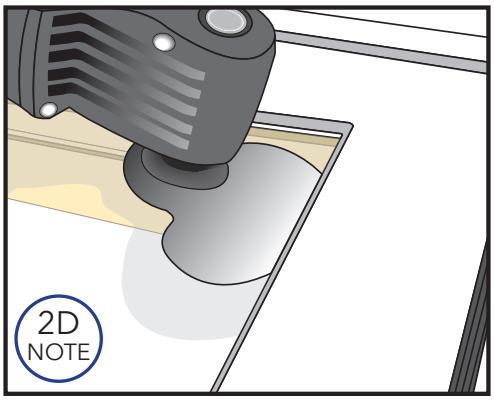
C. Pull the staples out to free the glass stops.



D. Using suction cups, release the glass from the temporary frame.

Note: If the glass is adhered to the corner sealant, turn the frame over, and use a stiff blade putty knife or a deglazing tool to break the bond between the glass and the sealant at all four corners.
To prevent chipping or damage, it is recommended the glass remains in the temporary frame until the unit has been prepared for the new IG.





3 Install Replacement Glass:

A. Before reglazing, double check opening for proper cleaning and remove and objects that could chip or damage the new glass. Also, inspect the spline in the glazing flange for damage and replace as necessary.

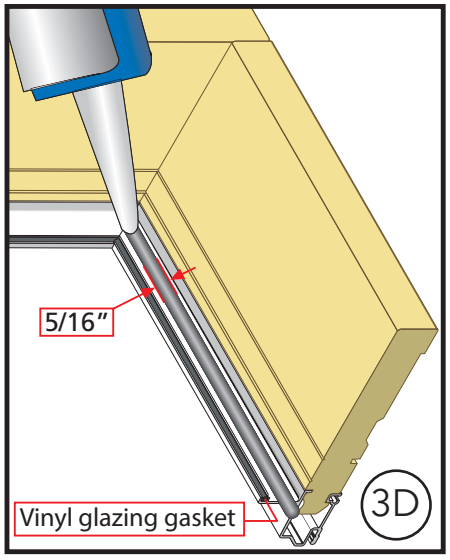
B. Check for proper fit of the replacement glass before proceeding.

C. Using Dow 995 silicone, seal all corners of the glazing flange with silicone by covering the entire miter joint from the wood to the edge of the glazing flange.

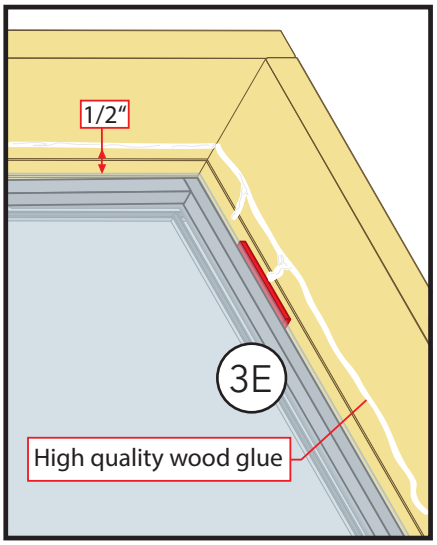


D. Apply a 1/4" bead of Dow 995 silicone to the exterior glazing flange within 1/8" of the spline around the entire frame. Make certain the bead connects to the sealant on the corners from the previous step.

Note: Silicone sealants “skin over” within 15 minutes, it is important the glass is installed before the silicone skins over.



E. Impact Resistant IG units: Apply 1/8" diameter bead of high-quality wood glue around the perimeter of the wood frame where the glass stops will be installed.



3 Install Replacement Glass (continued):

F. Place setting blocks 3" to 4" from the corners on the bottom side of the unit. On frames 30" to 50" wide, place on additional setting block in the center of the unit. On frames 50" to 96" long, equally space three additional blocks. A small amount of silicone may be used to keep the blocks in place. On units with more than one straight side place the setting blocks on two adjoining sides.

3F



G. Make sure the edges of the glass are clean by wiping down with some Isopropyl alcohol.

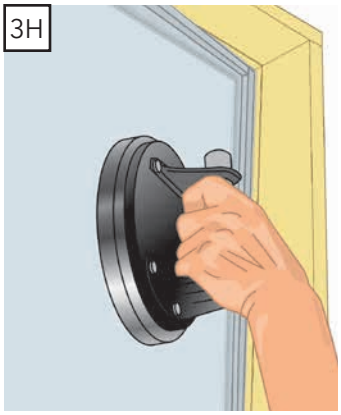
3G



H. Position the glass into the frame.

Note: Glass should not be tipped in the frame as the glass may become wedged or may dislodge the sealant.

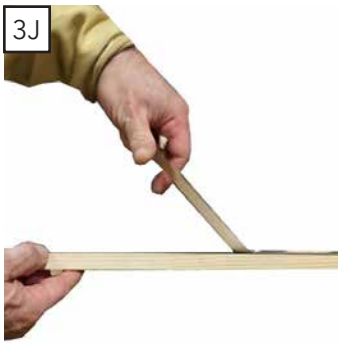
3H



I. Place setting blocks on the remaining sides. Install three setting blocks on radius, one at 90° (center of radius) and one at each 45° angle. For straight sides, place setting blocks using the spacing described in step 3E. It may be necessary to adjust number, size and location of setting blocks to allow for equal reveal between the grille bars and the frame.

J. Apply 1/2" wide adhesive foam tape in the interior glazing stops. Remove the release paper from the tape before attaching to the frame.

3J



3 Install Replacement Glass (continued):

K. Rectangle units, install head and sill stops first by rotating the stop under the grille bar positioning against the glass and frame. After installing head and sill stops, install the jamb stops. Apply even pressure along stop to wet out tape along the glass.

3K



3K



3K



3K



3K



L. Curved-top units, first install the straight stops starting at the sill (1), next the two curved stops in the center of the radius (2), and finally the curved stops on the ends of the radius (3).
Apply even pressure along stop to wet out tape along the glass

M. Press down with even pressure and nail the stops in place using #4 annular ring shank nails on 6" centers starting 2" from each end for straight stops.

Place nails 1-1/2" from each end and one at midpoint of each curved stop.

Caution: Use even pressure to avoid breaking the glass.

3M

