Arch Head, Circlehead, Clad Fixed Frame and Transom Re-Glazing

Service Instruction

These instructions apply to the following Support Products:

Fixed Frame & Transom - Model 2: 11/1998 - Current
Circlehead & Arch Head - Model 2: 3/1999 - Current
HurricaneShield® Products - 04/2001 - Current

Tools Required:

- Phillips Screw driver
- Utility Knife
- Hammer
- Small pry bar
- Sealant Gun
- Oscillating Tool
- Thin stiff putty knife
- Side cutters
- Hooking tool
- Long nose Vise-Grips®
- Glass suction cups
- 3/8" wide wood chisel
- Glass cutter

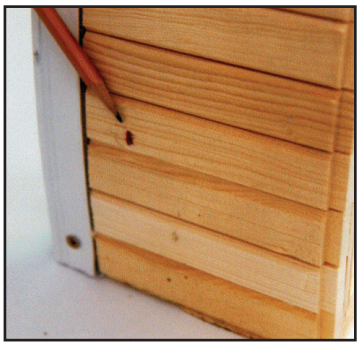
Materials Required:

- Dow Corning® 995 silicone
- Glass
- Glass Stops
- High-Quality Wood Glue
- #4 Annular Ring Shank Nails
- 1/2" Foam Tape, Pella Part # 0BWZ0000
- 70% Isopropyl Alcohol

The glass is installed without a sash directly in the frame using removable stops. The stops, both curved and straight (on most models built prior to May 2010, (i.e. all HurricaneShield units, all structurally enhanced units, and standard units with legs >36") are stapled or screwed from the backside and glued to the interior of the frame. On HurricaneShield units (4/2001 - 2003) the stops are screwed from the interior and glued to the frames. On some products built after May 2010, the stops are attached to the frame with staples only. On all units the stops are removable from the interior; however, the original stops are likely to be damaged in the process. So it is recommended to have replacement on hand.

CAUTION!

Adequate personal protective safety equipment should be worn during all reglazing operations.



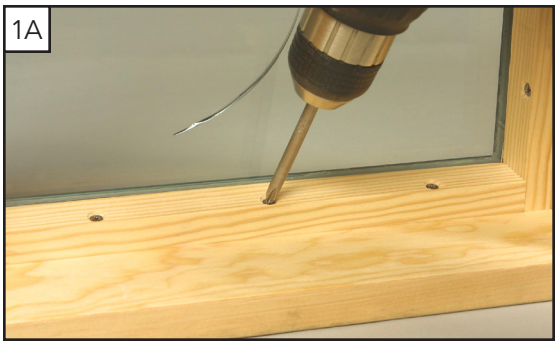
Stapled/screwed from exterior



Screwed from interior 4/2001 - 2003 vintages only

1 Removing The Glass Stops and Glass:

A. HurricaneShield® Units (4/2001 - 2003) only: Remove the screws from the interior stops.



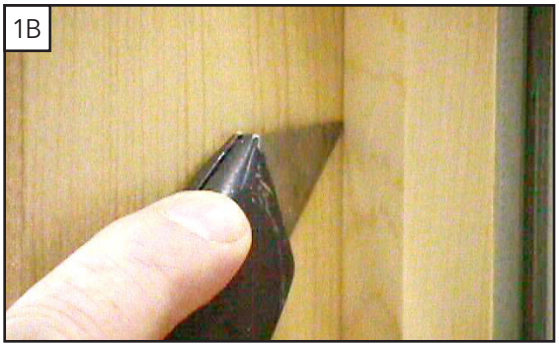
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1 Removing The Glass Stops and Glass (Continued):

Steps B thru H apply to all models and vintages, except where noted.

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



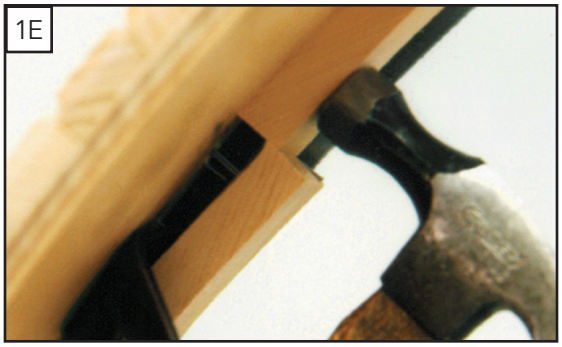
C. On the interior, use an oscillating tool to cut the tape on the back side of the glass stops. Angle the tool away from the glass to prevent breaking the glass. A mushroom style attachment should be used on the oscillating tool.

D. HurricaneShield® Units: Repeat step 1C between the stop and frame.



E. Curved glazing stops can be removed without damaging them but it is difficult. Pella recommends having replacement stops available.
Use a stiff putty knife and a small pry bar to lift the glazing stops off the staples or screws. To try and 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.

Hint: Place hinge shims between the frame and the pry bar to minimize damage to the frame.

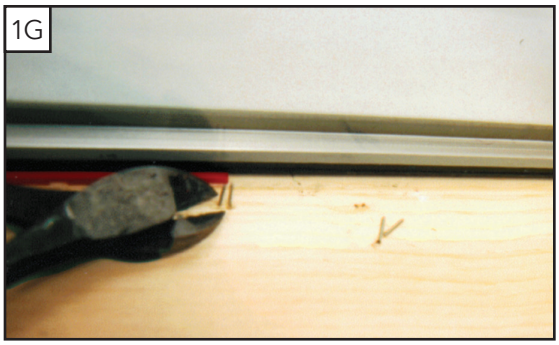


F. Remove straight interior glazing stops using a stiff putty knife and a painter's tool to lift the stop off the staples or screws.

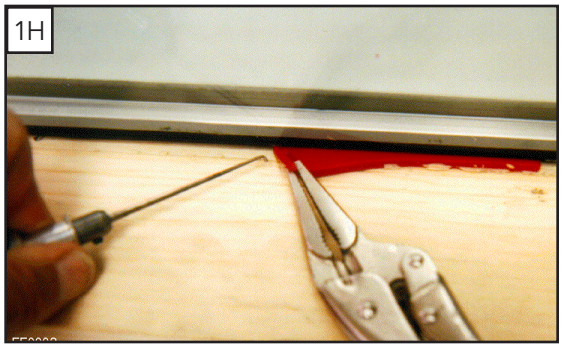


1 Removing The Glass Stops and Glass (Continued):

G. Remove the staples or screws by cutting with a side cutter and tap the ends down with a hammer. Remove any excess wood from the backside of the glass stop and on the frame to create a flat, smooth surface.



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



2 Removing The Glass:

CAUTION!

Two or more people are required to remove this glass. The glass weighs approximately 10 lbs./sq ft.

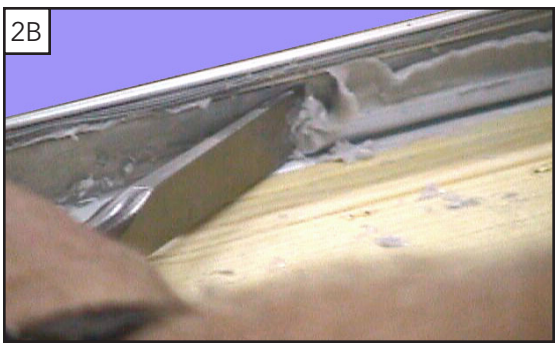
Model 2 & HurricaneShield® Units

A. On the exterior, use a oscillating tool with a mushroom style attachment or deglazing tool to cut the silicone between the exterior glazing flange and the old glass (or panel). If the glass has one unbroken sheet, a person on the interior using a glass suction cup can be used to apply gradual pulling pressure to help free the glass and to help control it. Use care and proper protection in removing broken glass.



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

B. After removing the glass, clean the silicone glazing off the exterior glazing flange.



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

C. After removing all the glazing material, wipe off the glazing flange with 70% Isopropyl rubbing alcohol.

3 Installing the Replacement Sealant and Glass:

Steps A through H apply to ALL models and vintages.

A. Before reglazing, check opening for proper cleaning and remove any objects that could chip or damage the new glass. Also inspect the spline in the glazing flange for nicks and fill with sealant if necessary.

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

C. Apply a liberal amount of Dow 995 silicone across the corner miter and wet out with a plastic putty knife.





NOTE: Silicone sealants "skin over" within 5 minutes. It is important the glass is installed before the silicone skins over.

D. Apply a 1/4" bead of Dow 995 silicone to the exterior glazing flange within 1/8" of the spline on the jambs and head. On the sill, apply the sealant on the spline. Make certain the bead connects to the sealant in the corners from step 2C.



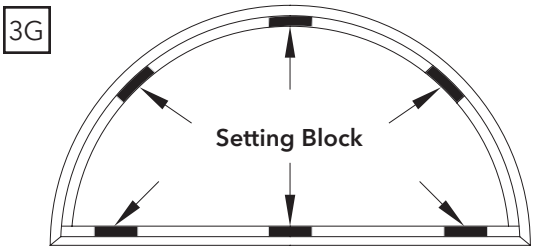
E. Place setting blocks 3" to 4" from the corners on the bottom side of the unit. On frames 30" to 50"wide, place one additional setting block in the center of the unit. On frames 50" to 96" long, equally space three additional blocks. A small amount of silicone may be used to keep the blocks in place.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



F. Position the glass or panel into the frame.

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

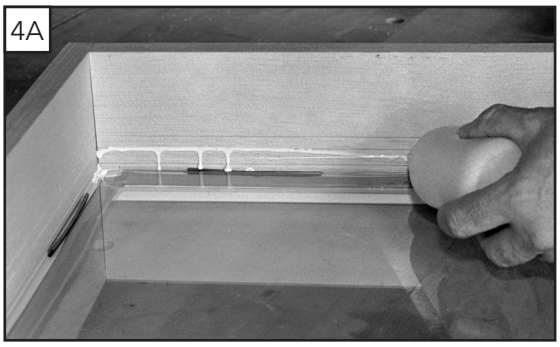
G. Place setting blocks on the remaining sides. Install three setting blocks on radius, one at 90 degrees (center of radius) and one at each 45 degree angle. For straight sides, place setting blocks using the spacing described in Step 3E.



4 Installing the Glass Stops:

Units which originally used glue on the stops; (For units which did NOT originally use glue on stops, proceed to step B.)

A. Apply a 1/8" diameter bead of high-quality wood glue around the perimeter of the wood frame where the glass stops will be installed.

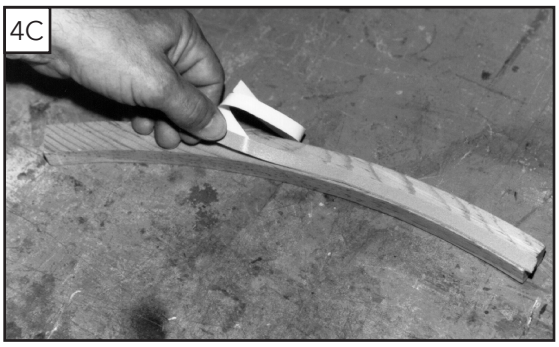


Model 1 Units Only:

B. Install the stops. Nail stops in place using #4 annular ring shank nails on 6" centers.

Model 2 & All vintage HurricaneShield units

C. Apply 1/2" wide adhesive foam tape to the interior glazing stops (Pella part # 0BWZ0000). On curved-top units, first install the straight stops starting with the sill (1), next the two curved stops in the center of the radius (2), and finally the two curved stops on the ends of the radius (3). Press down with even pressure and nail the stops in place.



CAUTION!

Use even pressure to avoid glass breakage.

