

# Integrity Impact Window and Doors

## Supplemental Instruction for IZ3 Rated Products



### Impact Products

Use these instructions in conjunction with the detailed installation instructions included with each order. This instruction is a guide for placement and application of brackets and additional fastening methods for impact rated products. As always, read all instructions thoroughly before beginning to install your impact window or door.

*NOTE: Numbers listed in parentheses ( ) are metric equivalents in millimeters rounded to the nearest whole number.*

*NOTE: Fasteners penetrating chemically treated lumber must be a minimum of 0.90 oz/fts zinc dipped galvanized or stainless steel type 304 or 316.*



### CAUTION

To avoid mull damage after units are unpackaged, apply mull brackets or clips immediately to strengthen mull joints before transferring units at the site.

### IMPORTANT

Fasten IZ3 rated products to the rough opening using either **installation clips and nailing fin** or **structural brackets**.

## Installation Clips with Nailing Fin

*NOTE: Installation and mull clips are specialized for each frame/mull. Casement Polygons and Round Tops use ICA / ICAP / ICAWN clips. Double Hung, Glider, and Door Polygons and Round Tops use IOFD clips, IIFD use IIFD clips. MULLING: Direct Glaze Polygons mull to ICA / ICAP / ICAWN use ICA mull clip. Direct Glaze Polygons mull to ITDH / ITDHP / IOFD use IOFD mull clip.*

1. Attach clips to the unit jambs and head jamb (and sill for Round Tops) with #7 x 5/8" wood screws 6" (152) maximum from each corner and 18" (457) maximum around the unit perimeter. See figure 1. For IIFD Impact instructions, refer to the Integrity Inswing Installation Instructions.

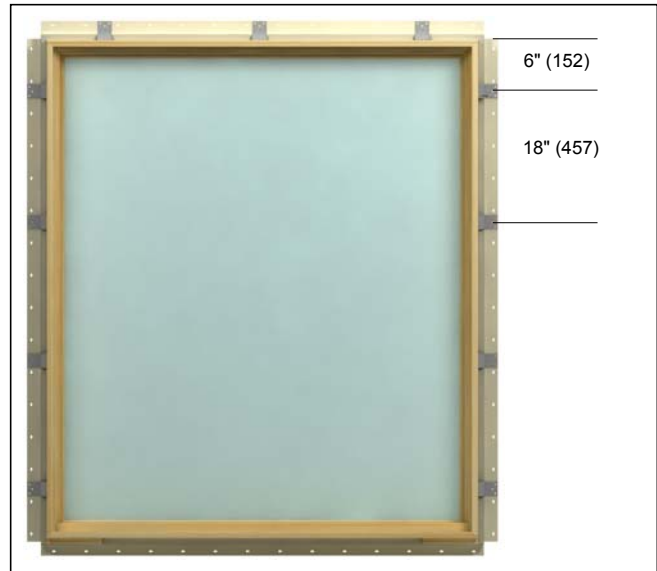


Figure 1

2. Center mull clip over mullion. Attach to unit and mull post with #7 x 5/8" wood screw through every hole in mull clip. Attach nailing fin 4" (102) from all corners and a maximum of 7" (178) apart around the rest of the unit perimeter. See "Installing the Window or Door" on page 3 for more details on how to fasten the unit in the opening with the various installation clips.

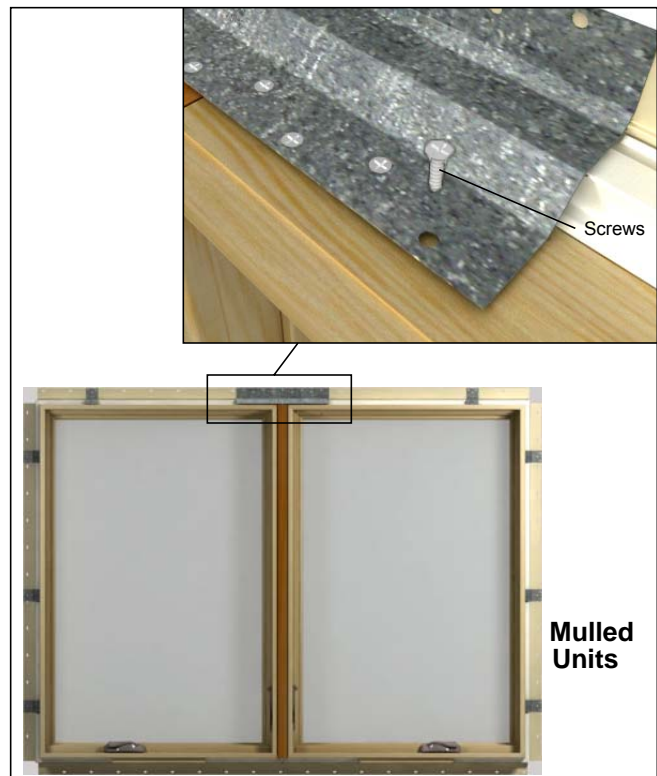


Figure 2

- On Round Top Double Hung units, attach 5/8" X 3 1/2" filler blocks to the sill prior to attachment of installation clips. Attach the blocks by first placing a 5/16" (8) bead of construction adhesive to the block. Fasten the blocks to the sill using #8 x1 1/4" screws. When using installation and mull clips with nailing fin, use the screw holes in the clip as a guide and drill through the nailing fin with a 1/8" (3) drill bit. This will give you the location of the screw holes when you fasten the unit to the rough opening. See figure 3.

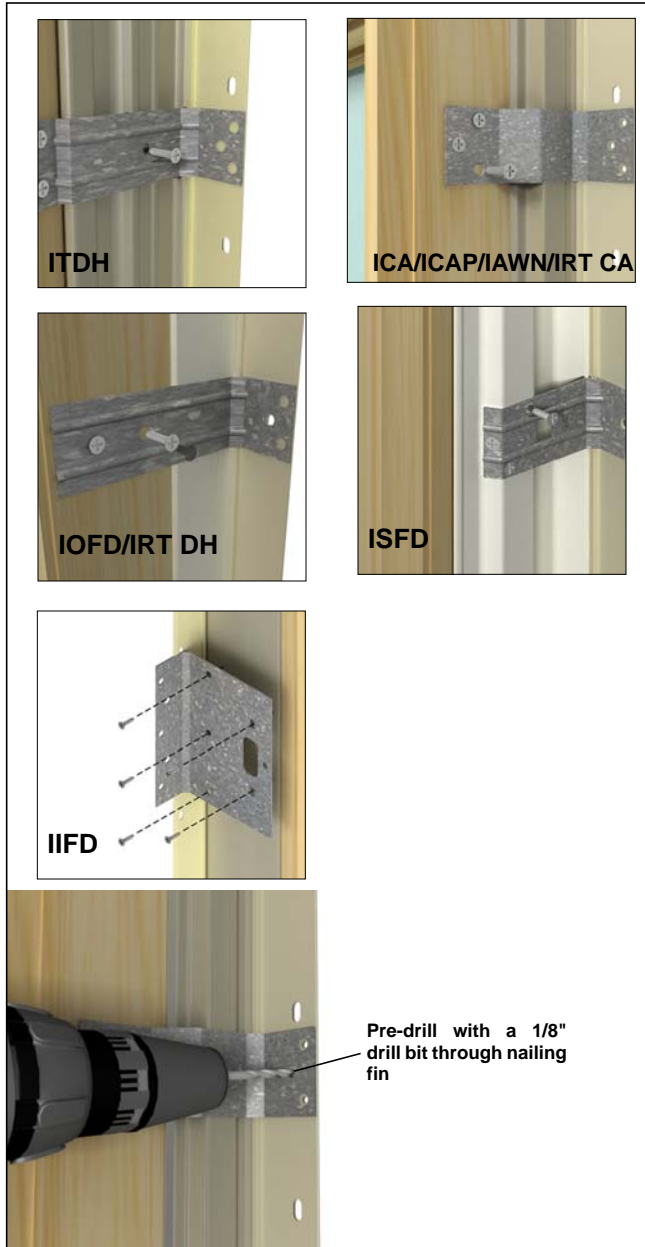


Figure 3

## Structural Brackets

- Attach structural brackets and structural mull brackets to the jambs, head jambs, and sills (windows only) following the attachment method and spacing specified with the bracket instructions. See figure 4.



Figure 4 Attach structural brackets and structural mull brackets to frame (ICA frame shown)

## Installing the Window or Door

1. All impact rated windows (except Round Tops) must be adhered to the sill with a discontinuous 5/16" (8) bead of construction adhesive on the framing sill where it will contact the window or door frame sill. See figure 5. Leave approximately 2" (51) gaps on the ends. See figure 6. For Impact door installation methods refer to the general door installation instructions (part number 19915634) and the product specific installation instructions for your product.

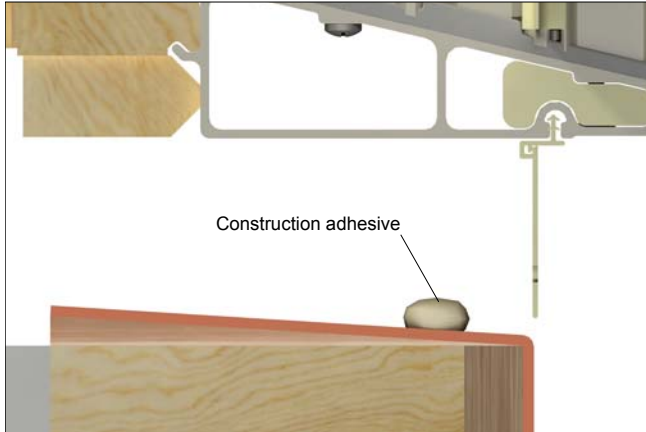


Figure 5 Adhere sill of window to the sill of opening.

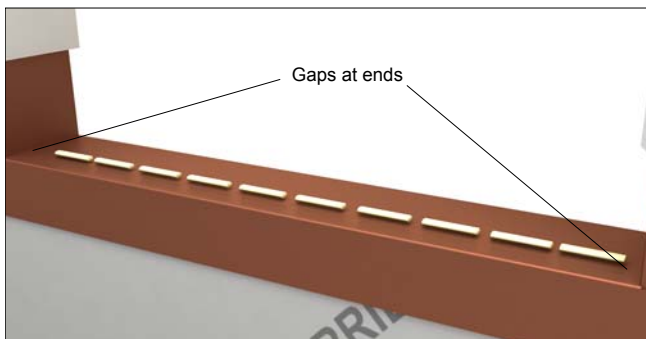


Figure 6 Discontinuous bead of construction adhesive.

*NOTE: If using construction adhesive, use APA rated AFG-01 spec, construction adhesive. Make sure the adhesive is compatible with all building materials and the unit frame. When using installation and mull clips in conjunction with nailing fin, fasten the clips to the rough opening with #8 x 1 1/4" screws. See figure 7.*

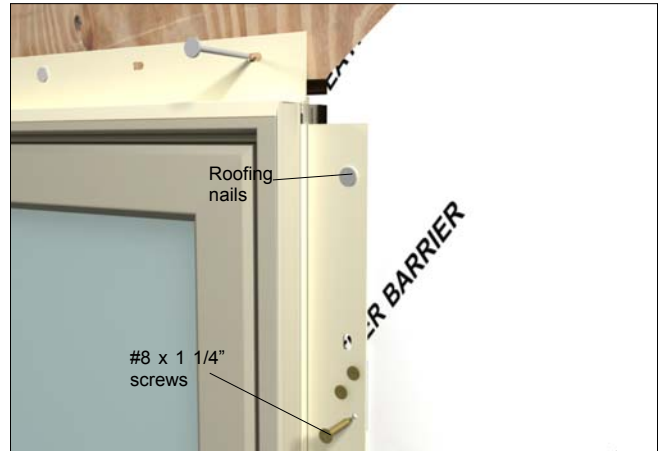


Figure 7 Fasten clips through nailing fin.

2. When using structural and mull brackets, bend brackets against wood framing as shown in figure 8. Attach structural brackets to wood framing with two #8 x 1 5/8" screws per tab, making sure that the screws are no more than 1/4" (6) from the bend in the bracket (edge of the wood buck). Angle the screws approximately 15° toward the thicker part of the framing member. See figure 8.

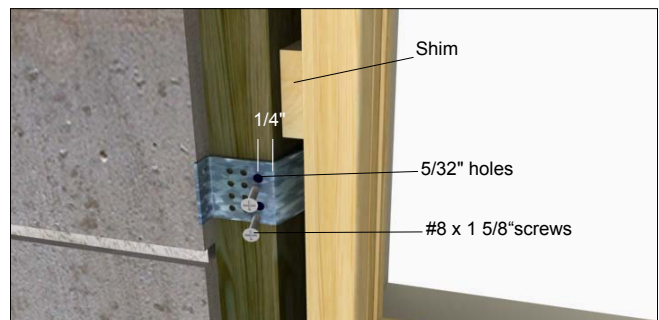


Figure 8 Fastening with structural brackets (concrete block application shown from interior).

3. Follow all finishing, flashing and sealing steps found in the installation instructions sent with your window or door order. For Casement mull units, follow the instructions in, "Additional Fastening for Casement Mull Installations" on page 4.

# Additional Fastening for Casement Mull Installations

## Casement/Casement Picture (ICA/ICAP)

1. Carefully pry away the top head jamb cover with a stiff bladed putty knife. Remove the brad nails.
2. Shim and fasten through the pre-drilled screw holes using the 3" (76) installation screws. If the pre-drilled holes are missing, drill holes with a 7/64" (3) drill bit. Holes are spaced maximum 8" (203) from each end and maximum 14" (356) between screws evenly spaced.
3. Reinstall head jamb stop and fasten with 3/4" (19) brad nails spaced 6"-8" (152-203) apart. See figure 9.

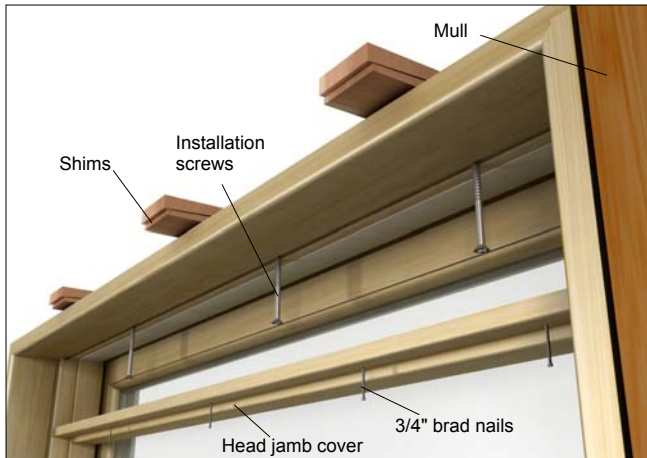


Figure 9 ICA/ICAP additional installation with screws.

## Casement Direct Glaze (ICADG)

1. Mark and pre-drill 1/4" (6) from the glazing bead at a 15° angle, with a 7/64" (3) drill bit, 8" (203) from each end and a maximum 14" (356) evenly spaced. Shim and fasten through the screw holes using the 3 1/8" round top installation screws. See figure 10. Apply putty over screw holes.

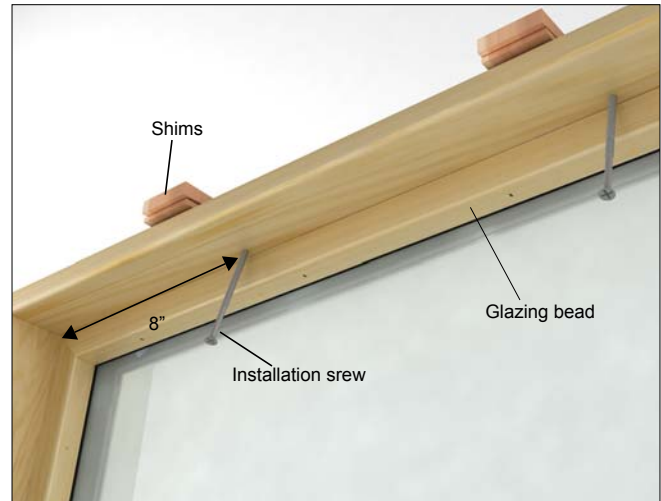


Figure 10 ICADG mull units