

# Casing Installation Instructions

For Ply Gem MIRA Aluminum-Clad Wood Windows

## Recommended Tools & Accessories

- Tape Measure
- Hammer or mallet
- Wood Block (-1" x 2" x 8")
- Power screwdriver with an extended #2 Phillips bit
- Sealant (clear or color-matched)

## Additional Tools for Kits with Non-Pre-Cut Parts

- Rotary Tool (with cutoff wheels)
- Side Cutters (Dikes)
- Medium Tooth File

## Fasteners

- #6 x 1 1/2" and #6 x 1/2" drill point
- Stainless Steel screws (included)  
*Never use longer screws, as they can damage the unit.*

## PGW Color-Matched Silicones

- |               |             |
|---------------|-------------|
| • # 254040-GR | Evergreen   |
| • # 254040-IV | Ivory       |
| • # 254040-RD | Cottage Red |
| • # 254040-SA | Sandalwood  |
| • # 254040-TU | Taupe       |
| • # 254040-WH | White       |
| • # 254040-BZ | Bronze      |
| • # 254040-BL | Black       |

## Table of Contents

Single Unit Casing Kits:	<b>PAGE 1</b>
Mulled Combination Casing Kits:	<b>PAGE 3</b>



**IMPORTANT! READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION.**

This instruction applies to all MIRA Casing kits. MIRA windows and doors must be properly and completely installed, sealed, and flashed before applying accessory casings. All casings must be applied to the window/door before applying siding (brick, masonry, wood, vinyl, etc). Read and follow the instructions supplied with those units before proceeding with casing installation.

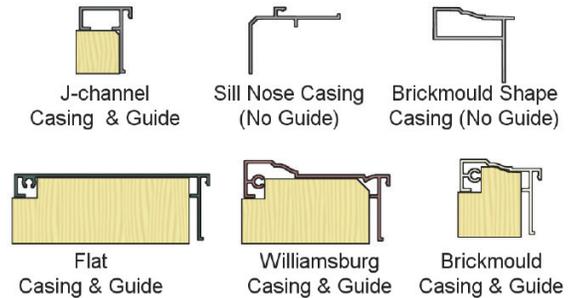
These instructions are applicable to most window/door units and all casing profiles; your installation may vary slightly depending on window combination, casing profile, or atypical window/door installations.

The manufacturer warrants this product only when installed according to these instructions. These instructions are general in nature, and a design or building professional may be consulted. **Ply Gem Windows will accept no responsibility for air or water leakage above, under, or around the window unit.**

### Before You Begin:

Unpack and inspect all casing parts for shipping damage before beginning your installation. Single unit casing kits contain cut-to-fit pieces, and do not include any extra material for the installation. Kits for mulled combination units may include both cut-to-fit pieces and/or rough length pieces, depending on the combination.

In some cases, pieces may be rough length but have a pre-cut miter on one end. Kits with rough length casing pieces also include a wood guide block (shown in illustration above) to assist in holding the casings in the proper orientation on your saw to ensure accurate cuts. Not all casing profiles come with guide blocks. Fasteners are included in all kits. Familiarize yourself with the pieces shown at bottom right before you begin.



## Single Unit Casing Kits

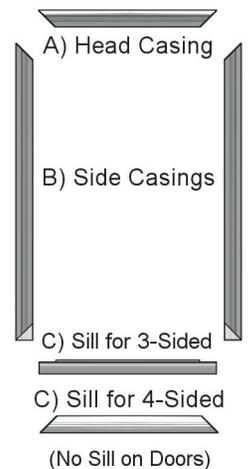
### Single Unit Pre-Fitting:

**Note:** Use care when pre-fitting components to the window or door to avoid scratching or damaging the surface. **Do not snap casings in place until you are sure of that part's fit and location, as they may be very difficult to remove from the accessory groove.**

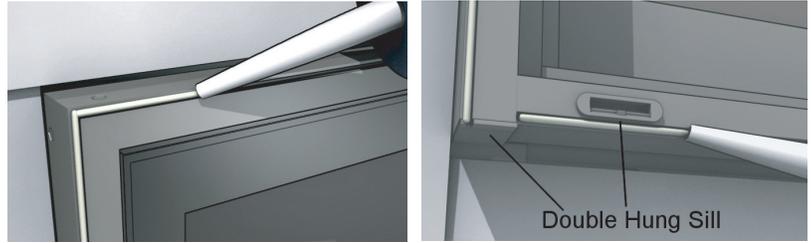
**1a) (Required)** Pre-fit the head casing by placing it gently along the accessory groove, but do not lock it into place. This piece is identified by opposing 45° angles on both ends (see illustration at right). The cuts should align with the miters at the top corners of the window.

**1b) (Required)** Pre-fit the side casings. These pieces have a 45° cut on the head end, and either a 90° flat cut or a 45° cut on the sill end, depending on the sill casing ordered. These cuts should align with the miter at the top corners of the window. For a side casing that is 45° mitered at both ends, it should match similarly at the lower end. For a side casing with a 90° cut on the sill end, the side casing should come flush to the underside of the window/door sill at the bottom corners of the window/door.

**1c) (Required)** Pre-fit the sill casing. This piece is pre-cut and pre-notched to fit the side casings supplied with your kit. The overall length should fit flush to the outside edges of the installed side casings. Note: 4-sided kits (available for Casement, Awning, and some Direct Set windows) have a sill casing that has 45° cuts so that the entire casing creates a picture frame (see illustration at right)



**1d) (Required)** Seal the accessory grooves. Apply a continuous bead of sealant along the length of the accessory groove before applying each piece of casing.

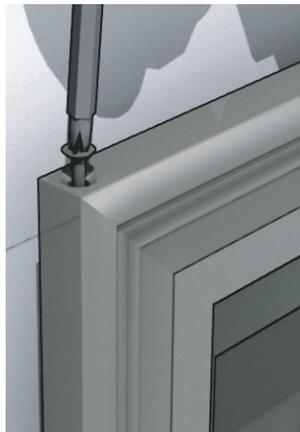


**1e) (Required)** Install the head casing. Snap the head casing into place on the top of the window. Make sure that it is centered over the window, and that it is completely set in to the accessory groove. If necessary, tap on it using a hammer and wood block to get it flush with the window at the exterior surface. **Note: It is recommended that you wrap the block with tape to prevent scratching.**



**1f) (Required)** Install the side casings in the same manner. Snap the side casings into place on the sides of the window, again being sure that they snap fully into the accessory groove.

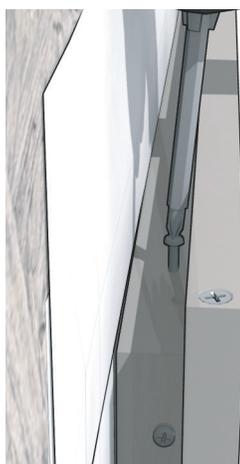
**1g) (Required)** Fasten each top corner by driving a #6 x 1½" Flat-head screw through the predrilled hole in the head casing into the screw boss in each side casing. Be careful to maintain proper alignment of parts when starting and tightening the screws.



**1h) (Required)** Install the sill casing. Snap the sill casing into the accessory groove on the bottom of the window. For Sill Nose casings, fasten the sill casing to the side casings using an included #6 x 1½" Flat - head screw through the underside of the sill casing, being sure that it engages the screw boss in the side casings. For 4-sided casings, repeat the head casing process on the sill.



SILL NOSE CASING SHOWN

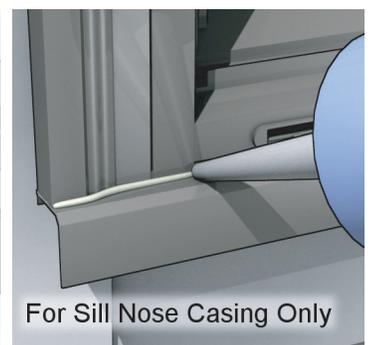


**1i) (Required)**

Finish fastening the casings to the window unit using the supplied Pan head #6 x ½" screws. These should be installed 2"-4" from the end of each casing piece, and also spaced 12"-24" in between (see image at left), behind the visible casing.



SEALING THE MITERS



SEALING THE SILL NOSE

**1j) (Required)** Seal the remaining joints in the casing with a surface bead of sealant. For Sill Nose casings, seal as shown at far right. For all full-surround casings, seal each miter as shown above.

**Your Casing Installation is Complete!**

**Please read the Precautionary Notes on the last page.**

# Mulled Combination Casing Kits

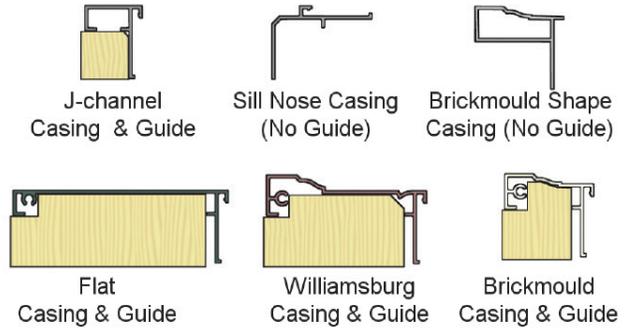
**Note:** Use care when pre-fitting components to the window or door to avoid scratching or damaging the surface. When performing fabrication steps, it is recommended that areas of the part that surround the fabrication be covered with low-tack masking tape to protect the part finish. **Do not snap casings in place until you are sure of that part's fit and location, as they may be very difficult to remove from the accessory groove. Do not install any casing pieces until all pieces have been cut to fit.**



**2a) Preparing the Head Casing** For combination units that have a single width (single windows with single transom) the *head casing* will be precut with opposing 45° angles. These cuts should line up with the miters at the top corners of the window.

For combination units that have a multiple width (doors with split transoms or window twins, triples, quads) the head casing will be a rough length part.

Begin the fabrication by trimming one end of the casing to a 45° angle on a miter saw, using the wood guide block (supplied in the kit) to help hold the part in the proper orientation. To determine the overall length, first measure the unit dimension of the combination, then add the appropriate length for your casing from the table at right. Mark and trim an opposing 45° angle on the opposite end and cut to length.



Casing Profile	Casing Length
Brickmould	Overall Unit Size + 2 3/4"
J-Channel	Overall Unit Size + 1 1/2"
Williamsburg	Overall Unit Size + 4 3/4"
Flat	Overall Unit Size + 6 1/2"



**2b) Preparing the Side Casings** For combination units that have a single height (side-by-side windows) the side casing will be precut with a 45° angle on one end and a 90° on the other. These cuts should line up with the miter at the top corner of the window, and with the underside of the sill on the bottom of the window. For four-sided kits (available for Casement, Awning, and some Direct Set windows), the side pieces will be pre-cut with opposing 45° angles on both ends that should line up with the miters on the top and bottom corners of the window.

For combination units that have stacked units (windows or doors with transoms) the side casings will be straight cut, rough length parts.

Begin the fabrication by trimming one end of the casing to a 45° angle on a miter saw, using the wood guide block (supplied in the kit) to help hold the part in the proper orientation.

**For 3-Sided Casing with Sill Nose:**

Mark the *sill casing* for the desired overall length and trim a right angle cut on the opposite end. To determine the overall length, first measure the unit dimension of the combination, then add the appropriate value for your casing from the "3-Sided Casing" table at right.

**FOR 3-SIDED CASING WITH SILL NOSE:**

Casing Profile	Casing Length
Brickmould	Overall Unit Size + 1 3/8"
J-Channel	Overall Unit Size + 3/4"
Williamsburg	Overall Unit Size + 2 3/8"
Flat	Overall Unit Size + 3 1/4"

**For 4-Sided Casing:**

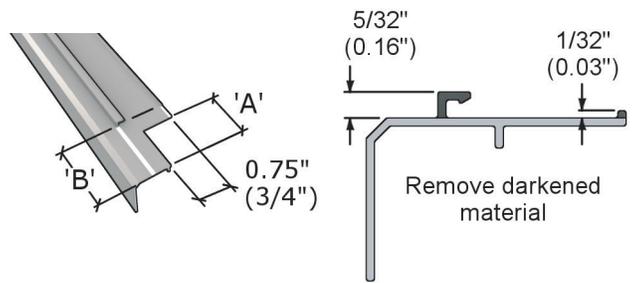
Repeat the trimming operation for the 3-Sided casing, but instead trim an opposing 45° angle each end, determining the overall length from the "4-Sided Casing" table at right.

**FOR 4-SIDED CASING:**

Casing Profile	Casing Length
Brickmould	Overall Unit Size + 2 3/4"
J-Channel	Overall Unit Size + 1 1/2"
Williamsburg	Overall Unit Size + 4 3/4"
Flat	Overall Unit Size + 6 1/2"



**2c) Preparing the Sill Casing** For combination units that have a single width (single window with single transom) the sill casing will be pre-cut, and already have end work appropriate for the type of casing. The overall length should fit flush with the outside edges of the side casings.



For combination units that have multiple side-by-side units (twins, triples, quads), the sill casing will be a straight-cut, rough length part. Begin the fabrication by notching one end of the sill nose to match the diagram shown at right. Mark the casing for the desired overall length and cut straight cut on the opposite end. To determine the overall length, first measure the unit dimension of the combination, then add the appropriate value for your casing from the "Sill Casing Lengths" table below. After cutting the sill nose to length, repeat the notching on the opposite end.

**FOR SILL CASING LENGTHS:**

Casing Profile	Casing Length
Brickmould	Overall Unit Size + 2 3/4"
J-Channel	Overall Unit Size + 1 1/2"
Williamsburg	Overall Unit Size + 4 3/4"
Flat	Overall Unit Size + 6 1/2"

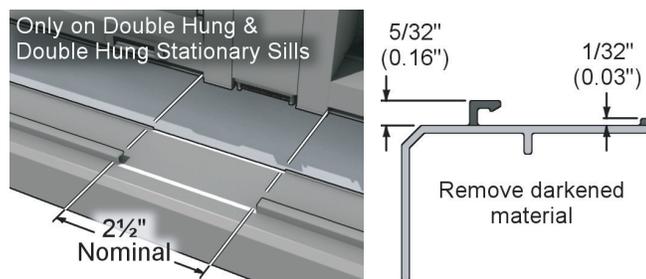
**FOR SILL CASING ENDS FABRICATION:**

Mating Casing	Dim "A"	Dim "B"
Brickmould	1 7/32" (1.20")	2"
J-Channel	23/32" (0.70")	1 1/2"
Williamsburg	2 11/32" (2.33")	3 1/8"
Flat	3 3/16" (3.19")	4"

**2d) Spanning Mull Joints** Any mull joint on the window assembly will need to be accommodated by notching the casing at the mull joint. Notch widths shown below are nominal values only and are centered around the mull joint. You may have to file or cut more of the notch to fit your window combination.

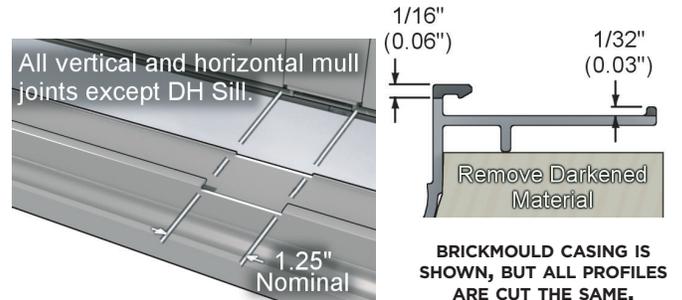
**For Sill Nose Casing:**

At each mull joint, you will need to notch out the locking leg to clear each mull on the unit. Follow the illustrations below and notch the sill nose at each mull joint.



**For all other casing profiles:**

At each mull joint, you will need to notch out the locking leg to clear each mull on the unit. Follow the illustrations below and notch the sill nose at each mull joint.



**Instructions continued on the next page.**

**2e) (Required)** Follow Step **1d** on page 2 to run a bead of sealant all the way around the window combination, but follow the illustrations at right when you come to a mull joint. At a mull joint, run the bead around to the outer-most surface of the mull cap rather than running it in the accessory groove. The groove needs to be able to “breathe” through the groove.



DOUBLE HUNG SILLS



ALL OTHER MULL JOINTS

---

**2f) Install Casings** Follow Steps **1e** through **1j** to install and fasten the casings onto the windows.

---

**Your Casing Installation is Complete!**  
**Please read the Precautionary Notes below.**

### Precautionary Notes:

- If exterior is brick or masonry, you must leave a 3/8" gap between the bottom sill casing of the window and the masonry to avoid “brick binding.”
- Follow the siding manufacturer’s requirements for sealing between the siding and window casings.
- Unsealed holes through the frame on the windows/doors in locations not specified could cause a leakage problem which would not be covered by the warranty.
- Altering the exterior color of these window casing kits may void the warranty.
- All casings must be applied to the window/door *before* applying siding (brick, masonry, wood, vinyl, etc.)

