

Window Mulling Instructions (Reinforced Spread Mullion)





These instructions will cover the field mulling of windows that are reinforced with steel or aluminum to create a 1/2" spread mullion. See separate instructions for non-reinforced mullions.



NOTES FOR INSTALLER

These instructions are a supplement to the window installation instructions. Prior to prepping the windows for field mulling, the wall rough opening must be properly prepared for the window to be installed.

Please read entire instruction completely before beginning.

Safety Alert Symbol Reference: These symbols are intended to alert you to potential injury hazards and information. Obey all safety messages.

| | | | | | | | |
|----------------------------|---|----------------------------|---|----------------------------|---|----------------------------|--|
| COULD Result in: |  WARNING Major Injury/Death | COULD Result in: |  CAUTION Minor Injury | COULD Result in: |  NOTICE Product or Property Damage | COULD Result in: |  IMPORTANT Procedure and Product Info. |
|----------------------------|---|----------------------------|---|----------------------------|---|----------------------------|--|

| | |
|--|---|
|  WARNING |  CAUTION |
| <p>Windows and doors can be extremely heavy. To avoid injury, use appropriate lifting techniques and an adequate number of people to carry and install the product. Mechanical lifting assistance may be needed for larger panels and glass. Failure to do so can result in injury or damage to product or property.</p> | <p>Always wear appropriate gloves and eye protection for all procedures. Follow manufacturers' instructions for hand and power tools.</p> |

TOOLS AND MATERIALS NEEDED

Tools:

- Measuring tape
- Level (4' minimum recommended)
- Hammer
- Power driver
- 90 Degree Driver attachment
- Caulk gun
- Pry bar
- Rubber Mallet
- Multiple Squeeze Clamps (medium to large)
- Utility Knife
- Metal Grinder or File

Installation Materials (not included)

- Flashing tape (4" Minimum)
- Formable self-adhering sill flashing (or rigid pan)
- #8 x 2" flat head screws (or 2" Galvanized Roofing Nails)
- High-quality sealant
- Shims (moisture-proof)
- Low-expanding foam
- Backer rod

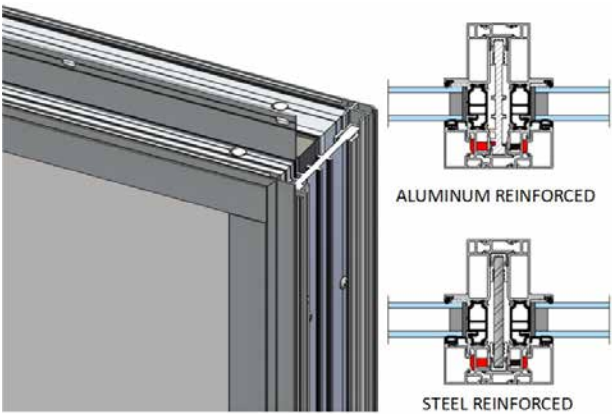
Materials Included in the Job Box

- Through Frame Connectors
- 1/8" Hex Drive Bit for Connectors
- Drip Cap (vertical mull units only)
- 3" x 3" Self-adhering Flashing Tape Squares
- Tube(s) of Silicone Sealant (for mull connection not install)



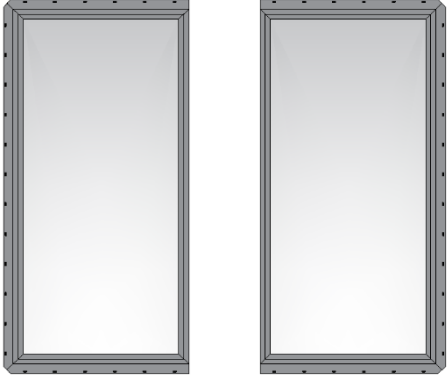
Window Mulling Instructions (Reinforced Spread Mullion)

1 PREPARE FRAMES FOR MULLING



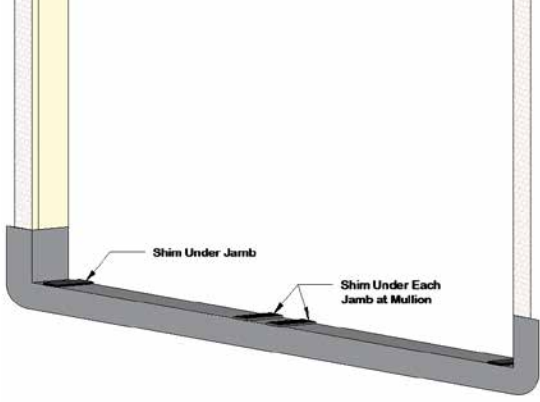
Windows prepared at the factory for field mulling will have the nail fins removed and the aluminum connector strips, and structural reinforcements applied.

2 CONNECTING THE WINDOWS



Depending on the size of the combination, windows can be joined together outside of the opening or within the opening.

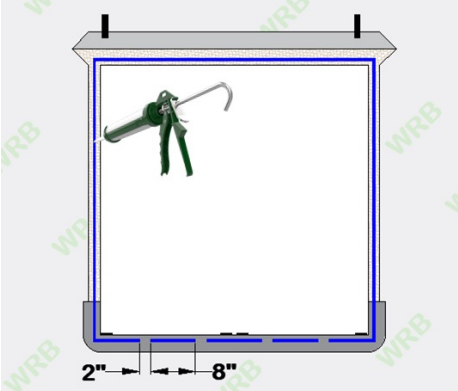
3 SHIM THE SILL



EXTERIOR

With the sill properly flashed, place shims at the sill. Shims should be located under each jamb corner including the corners at the mullion. It is critical that each window is shimmed to keep proper alignment.

4 APPLY SEALANT



EXTERIOR

Apply a continuous 3/8" bead of sealant to the jamb and head sheathing. Keep sealant in line with the where the nailing fin will be positioned. Apply an intermitted 3/8" bead of sealant to the sill to allow for incidental water drainage.

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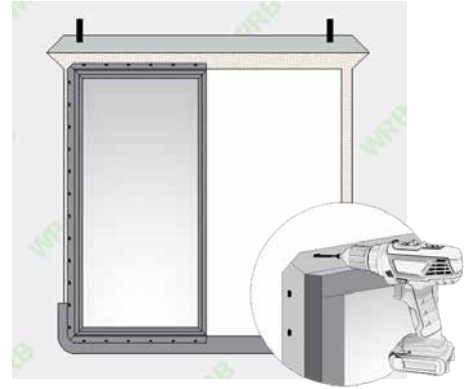
5 POSITIONING THE FIRST WINDOW



EXTERIOR

If joining the window within the opening, start by placing the first window in the opening and positioning it tight to the rough opening. This will be positioned temporarily until the combination is completed.

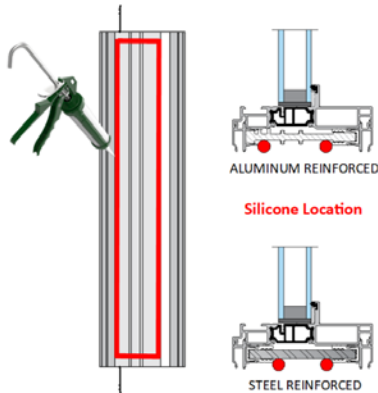
6 TEMPORARILY FASTENING WINDOW



SIDE JAMB

Temporarily fasten the window at 3-4 locations to stabilize the window during the joining process.

7 SEALANT APPLICATION



SIDE JAMB

Apply a continuous 3/8" bead of silicone along the mullion connector strips, using the edge of the strips as a guide. Across the top and bottom apply a generous amount of silicone approximately 1/4" from the top and bottom edge of the frame. Silicone should squeeze out when frames are joined.

8 CONNECTING THE WINDOWS



EXTERIOR

Place the second window in the combination into the opening. Slide together until the connector strips start to connect.

Window Mulling Instructions (Reinforced Spread Mullion)

9 CONNECTING THE WINDOWS



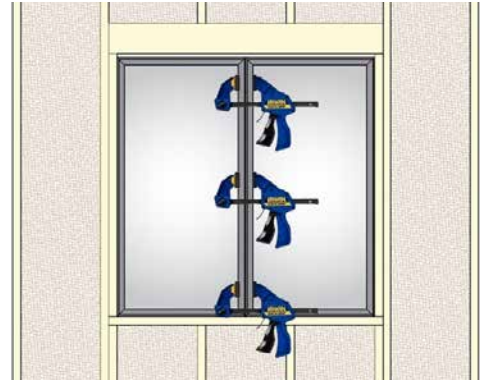
EXTERIOR

Using squeeze type clamps, draw the frames together until you hear the snap of the connector strip locking into place. Take care not to scratch the aluminum with the clamps.

NOTE: Aluminum connectors must be in line with the receiver on the other jamb before clamping.

NOTICE Do not use the threaded bolts to draw the frames together.

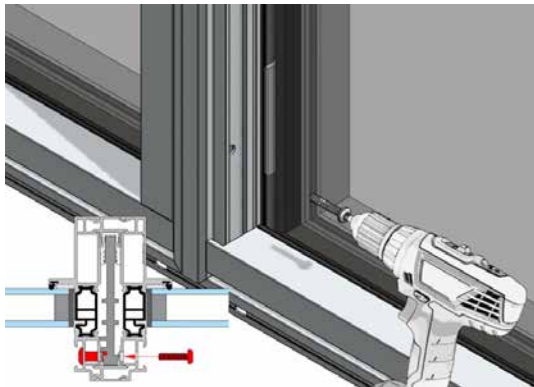
10 CONNECTING THE WINDOWS



INTERIOR

From the interior, follow the same procedure to draw the frames together until you hear the snap of the connector strip locking into place.

11 CONNECTING THE WINDOWS

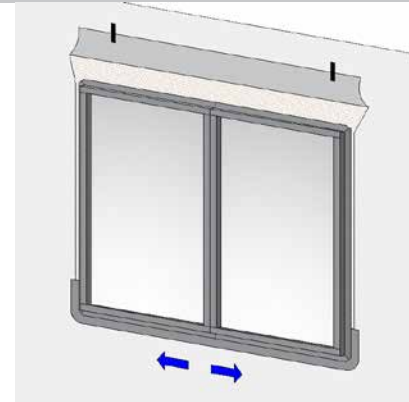


EXTERIOR

With the frames snapped together, apply the provided threaded bolt to the pre-drilled holes along the side of the mullion.

NOTE: Frames must be aligned for the bolts to engage the receiver on the opposite jamb. Start threading by hand and finish with a driver. A 90-degree driver adapter may be needed at this time.

12 CENTER WINDOW



EXTERIOR

With the windows joined together, the combination can now be permanently installed. Remove the temporary fasteners and center the combination in the opening.

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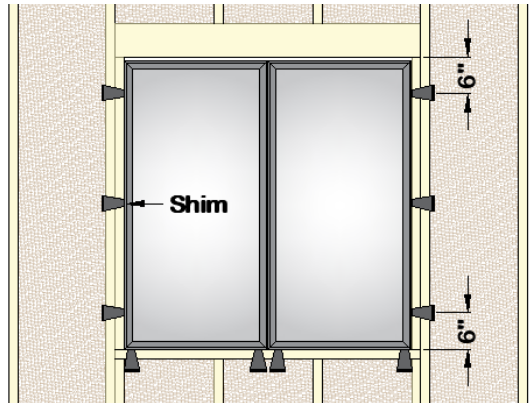
13 TEMPORARILY SECURE WINDOW



EXTERIOR

With the window centered in the opening, secure one side top corner with either a rust-proof roofing nail or a #8 steel screw. Fasteners must be long enough to penetrate the framing material by at least 1-1/2".

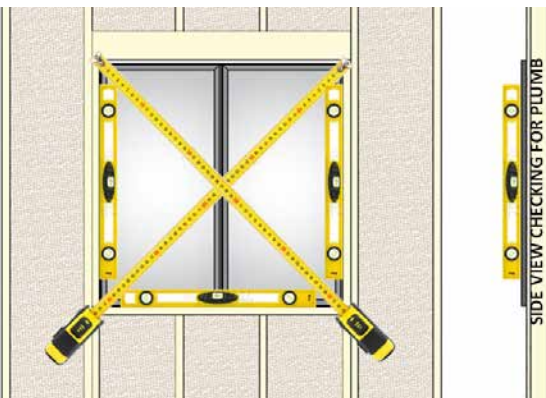
14 SHIM WINDOW



INTERIOR

Add shims 4"-6" in from the corners at the side jambs and 16" intervals on the center as needed to ensure the window is positioned in the opening plumb, level, and square.

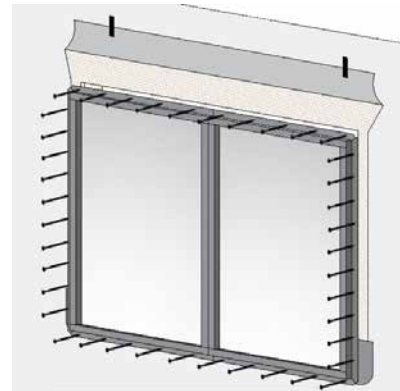
15 VERIFY PLUMB, LEVEL, AND SQUARE



INTERIOR

Check the unit is plumb, level, and square. Diagonal measurements must be within 1/8". Adjust shims as needed.

16 SECURE WINDOW

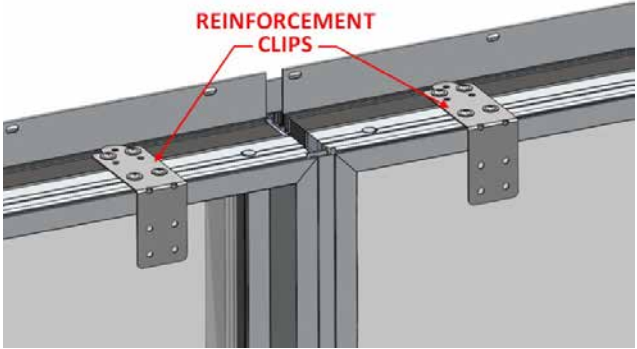


EXTERIOR

When the window is plumb, level, and square, continue fastening through the nailing fin holes. Place fasteners 4" from each corner and spaced every 4"- 8" on center.

Window Mulling Instructions (Reinforced Spread Mullion)

17 MULLION REINFORCEMENT CLIPS

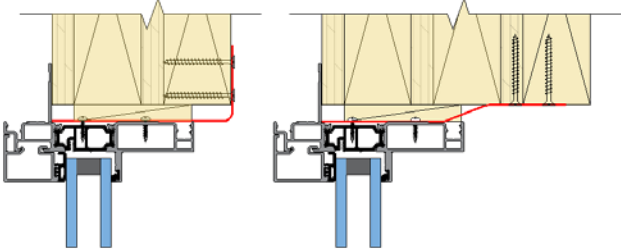


REINFORCEMENT CLIPS

INTERIOR


Units that are factory prepped for mulling will come with mullion reinforcement clips applied to the frame. Clips are bent down for shipping.

18 MULLION REINFORCEMENT CLIPS



Straighten clips and attach to the framing member using (2) #8 x 1-5/8" Flat head, non-corrosive screws. Use the same procedure if perimeter clips are used in lieu of nailing flange.

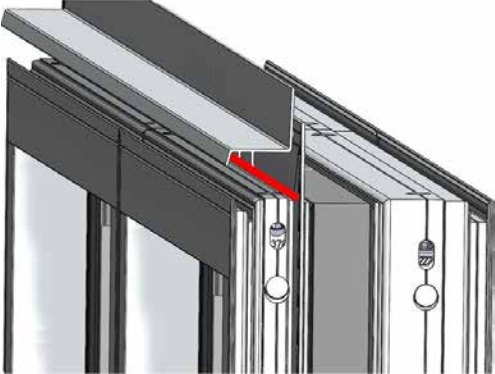
19 DRIP CAP INSTALLATION



EXTERIOR

A continuous aluminum drip cap will be provided as part of the field mulling kit. This part should be the same width as the combined frames (minus the nailing fins). To install, apply a continuous 3/8" bead of silicone using the corner of the nail fin to jamb as a guide.

20 DRIP CAP INSTALLATION



EXTERIOR

Center the drip cap at the head of the frames. Push the barb legs of the extrusion into the accessory channel of the frame. Using a wood block and a hammer, gently tap the drip cap into place.

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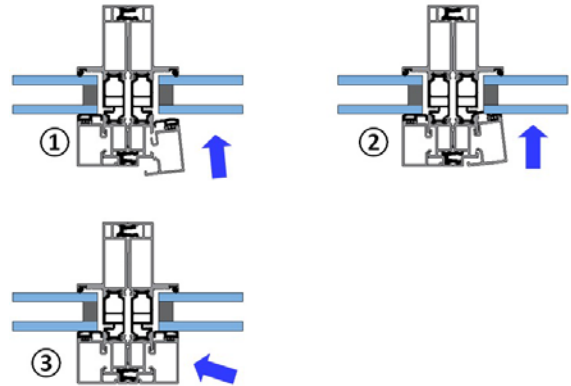
21 FLASHING NAIL FIN JOINT



EXTERIOR

Using the provided 3" x 3" self-adhering flashing tape, evenly cover the joint between the nail fins folding the tape 1/2" on to the frame of the window. Press the tape firmly against the exterior wall and removed any gaps or air pockets.

22 GLAZING BEAD INSTALLATION



Glazing beads left off during the mulling of the units will now need to be installed. Pushing the bead at an angle into the glass, engage the hook into the frame. Roll the bead into place pushing inward to the glass and down to snap into place. A rubber mallet can be used carefully if needed.

23 FINAL FLASHING AND INSULATING

Finish off the installation by properly flashing and insulating the window combination using the methods outlined in the installation instructions available on the product website.