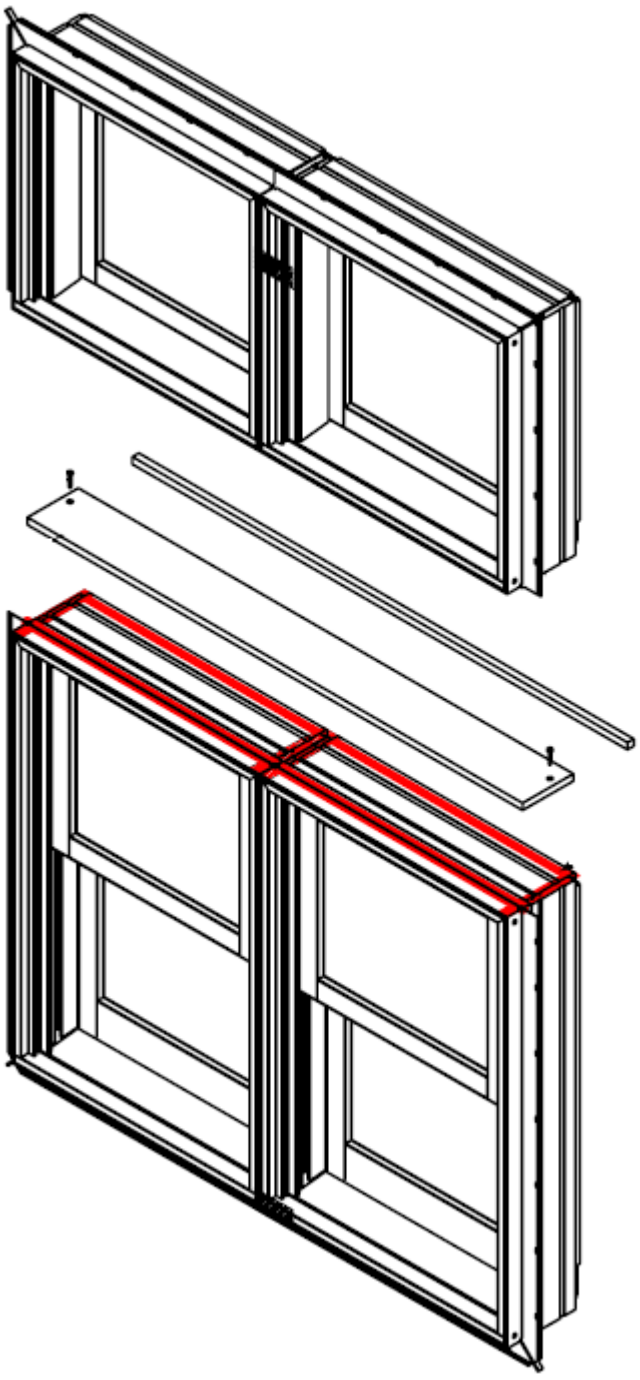
Aluminum Clad Wood Window

1/2” Reinforced Field Mulling and Stacking Supplement



Aluminum Clad Wood Window
1/2” Reinforced Field Mulling and Stacking Supplement

The following instructions are a supplement for adding a 1/2” reinforcement when field mulling and or stacking.

Contact your customer service representative for complete instructions for field mulling and stacking units.

These installation instructions include details for specific window types. Adding reinforcements for other types of windows will be similar.

⚠ **IMPORTANT:** Thoroughly read and follow these instructions. Failure to install as recommended will void any warranty, expressed or implied. **Check building codes for the area in which the windows are being installed before installation to ensure proper compliance.** The instructions that follow are based on typical frame construction. Specific applications may differ. The window manufacturer recommends that you consult a qualified installation professional. The window manufacturer is not responsible for installation.

SAFETY INSTRUCTIONS

Read these instructions completely before beginning procedure.

⚠ WARNING

Wear gloves, safety glasses, goggles or eye shields appropriate to procedure.

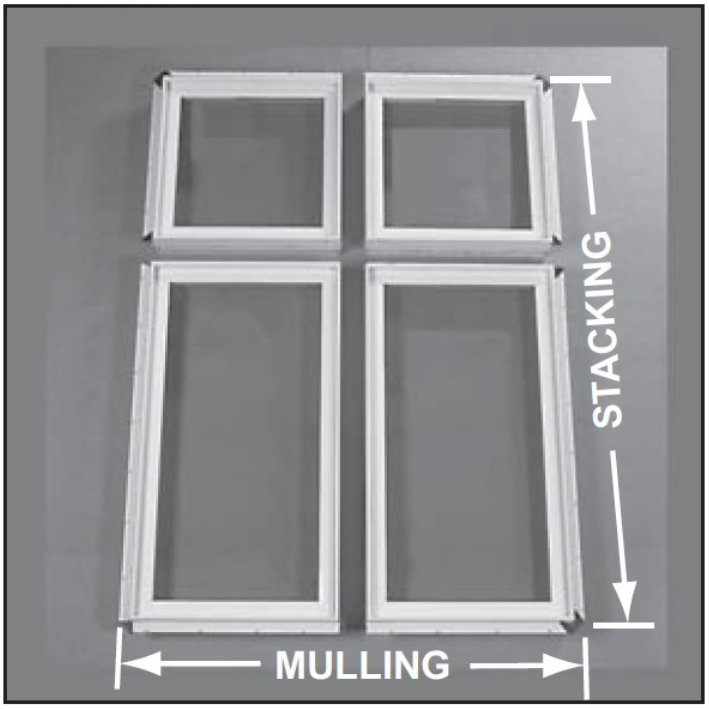
⚠ WARNING

Improper use of hand and power tools could result in personal injury and/or product damage. Follow equipment manufacturers’ instructions for safe operation. Always wear safety glasses.

⚠ **IMPORTANT: When placing units to be mulled or stacked, make sure the sills or water weeps on each unit will face towards the sill (bottom) of the rough opening when the combined unit is installed.**

⚠ **IMPORTANT: High-quality, exterior, neutral-cure, clear, silicone sealant (compatible with wood, vinyl and aluminum) is to be used for all procedures in the following instructions which call for caulking or sealant.**

FIGURE 1



Place units to be mulled and/or stacked on a clean flat surface (interior side up) in the position that they will be assembled **(FIGURE 1)**

Assemble And Fasten Units—Interior Side Up

Units will come with the reinforcement attached to one side of the mull or stack. If shipped loose follow the same caulking instructions and fasten the reinforcement to one side using either (2) #8 x 1” flat head screws for the aluminum or steel reinforcement or staples 1” to 2” from ends and 8” to 10” on center for LVL.

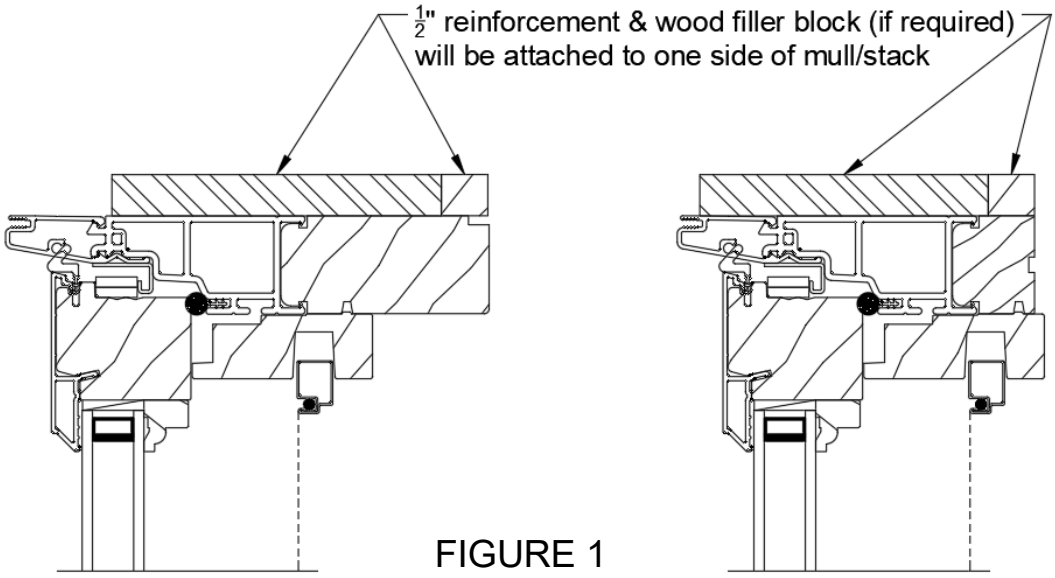
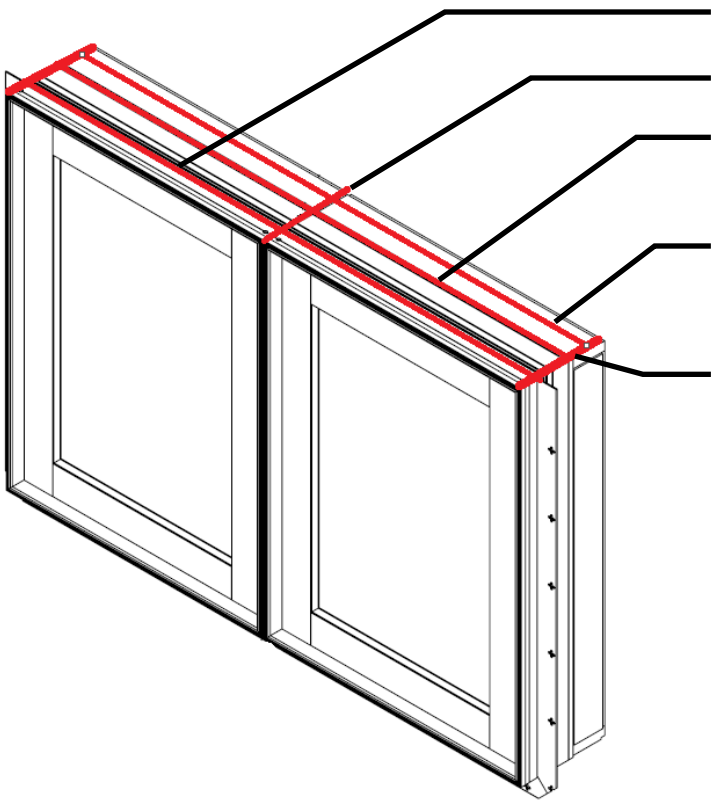


FIGURE 1

See field mulling instructions for trimming nail fins and opening accessory grooves if needed.

1. Run continuous beads of silicone at locations shown below. All units will need a generous amount of silicone across ends and across any mull joints. **(FIGURE 2)**

FIGURE 2



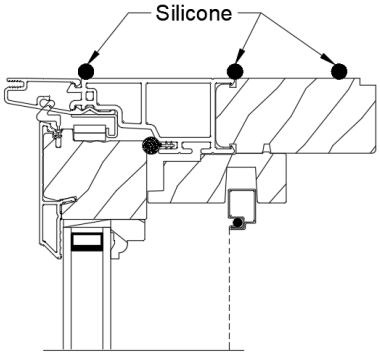
3/8” bead of silicone at removed nail fin

Generous amount of silicone over mull joint

3/8” bead of silicone at joint between wood and aluminum/vinyl

3/8” bead of silicone at inside end of reinforcement

Generous amount of silicone across each end

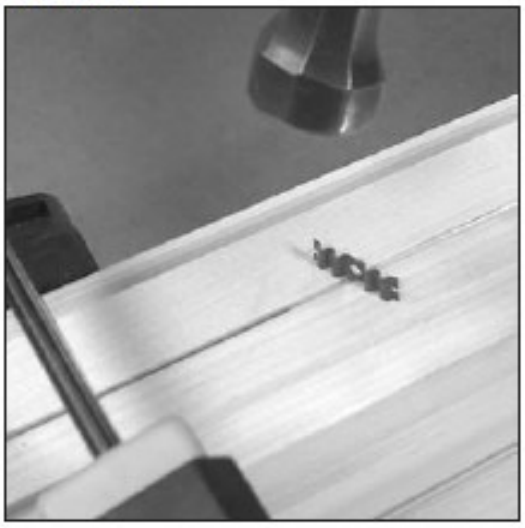


Assemble And Fasten Units—Interior Side Up (cont.)

FIGURE 3

FIGURE 4

FIGURE 5



2. Slide units together. Make sure units are straight, even with each other, and flat across the interior surface **(FIGURES 3 & 4)**

3. Clamp units to pull interior edges together **(FIGURES 3 & 4)**

4. Fasten jambs together with 1” wide x 3/8” deep corrugated staples **(FIGURE 5)**. Place the staples 1” to 2” from each end, then every 4” to 6” on center. Staples will need to be staggered to engage both jambs and wood filler.

5. Attach a 2” high x 12” long 24 gauge steel mull plate to the exterior sides of the jambs where the two units meet. Attach mull plate with ten 7/16” x 1/2” long staples or six #8 x 1/2” Phillips pan head sheet metal screws. Place fasteners on each side of the mull/stack joint **(FIGURES 6 & 7)**.

FIGURE 6

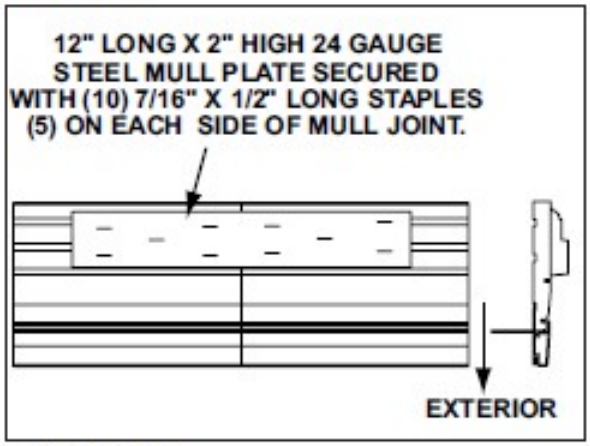


FIGURE 7

Interior Mull Cover Application

FIGURE 1

FIGURE 2

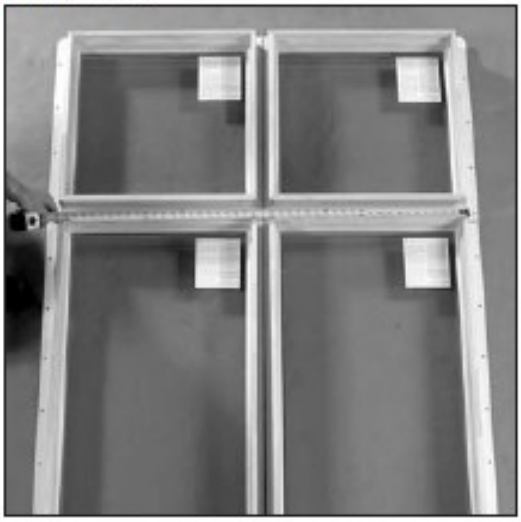


FIGURE 3

WARNING

Improper use of hand or power tools could result in personal injury and/or product damage. Follow equipment manufacturers' instructions for safe operation. Always wear safety glasses.

NOTE: If mulling and stacking, install the vertical mull cover first. Then install the horizontal covers.

NOTE: To prevent handling damage, interior mull covers can be applied after window is installed in the structure.

NOTE: Length of interior mull cover pieces is dependent on reveal between casing moulding and jambs.

1. To determine the length of the vertical mull cover, measure the unit assembly height, jamb to jamb **(FIGURE 1)** and subtract reveal x2. Cut the mull cover to length with a saw.

IMPORTANT: To prevent splitting or cracking, drill pilot holes in cover before nailing.

2. Install vertical cover by centering cover on jambs; center side-to-side and end-to-end. Drill pilot holes and nail to jambs with 1-1/2" long 4D finishing nails **(FIGURE 3)**. Set nails below wood surface with a nail set.

3. Measure for both horizontal covers along jambs, going from edge of vertical cover to edge of jamb, and subtract reveal X1 **(FIGURE 2)**. Cut pieces to length with a saw.

4. Butt horizontal covers to vertical piece, center top to bottom on adjacent units, drill pilot holes, and nail in place with 1-1/2" long 4D finishing nails. Set nails below wood surface with a nail set.

5. Remove clamps.

End Cap Application (if required)

Turn unit over so the exterior side is facing up on a flat, clean surface.

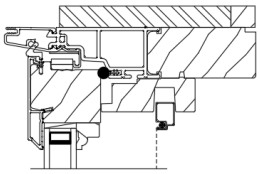
End Caps will be used at the ends of horizontal mulls where the reinforcement does not go past the removed nail fin.

If you do not need to apply end caps proceed to the Exterior Mull Application section.

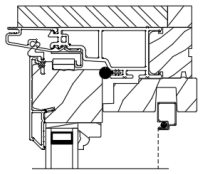
WARNING

Mulled, stacked or mulled and stacked units may require more than one person to lift and turn over without causing personal injury or causing damage to the windows. Use appropriate number of people and safe lifting techniques.

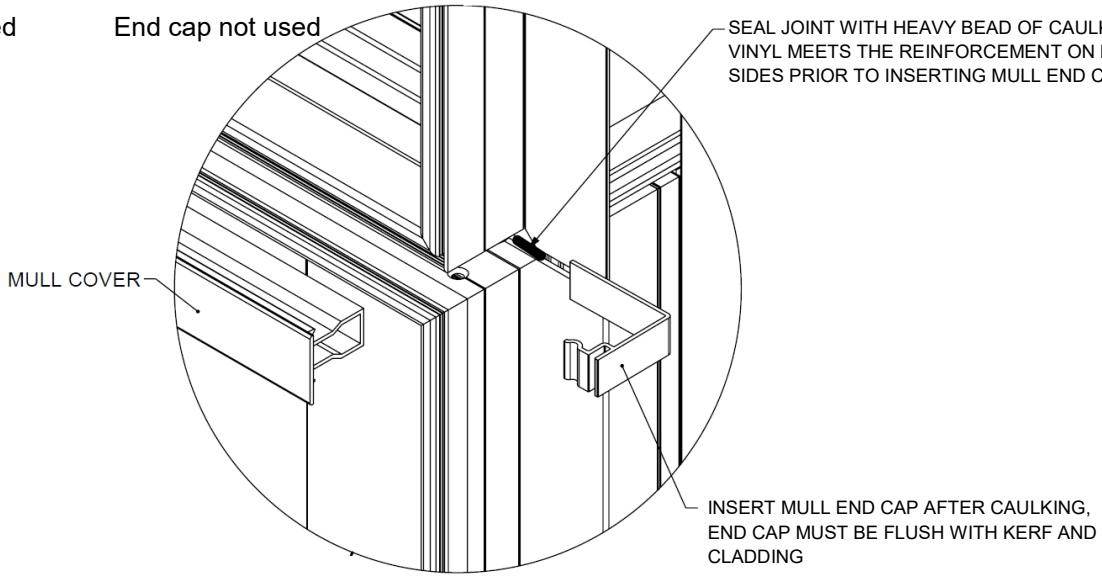
CAUTION **Prevent damage. Remove clamps before turning unit.**

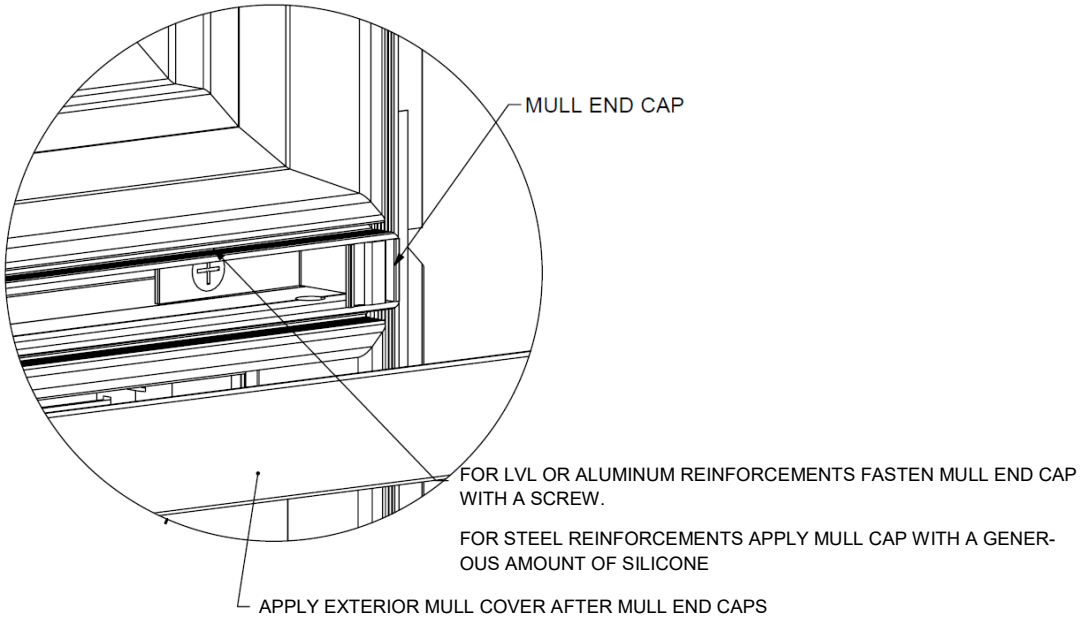


End cap used



End cap not used





Exterior Mull Cover Application

FIGURE 1

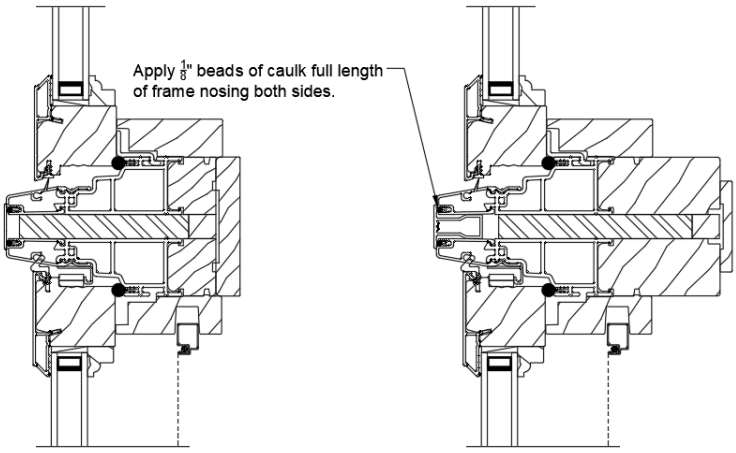


FIGURE 2

1. Apply a bead of sealant the full length of each horizontal or vertical joint **(FIGURE 1 & 2)**. Tool sealant into joint so it does not build up under the mull cover.

2. When exterior mull cover is properly aligned, tap along the cover's full length with a dead-blow hammer to fully seat mull cover into window exterior accessory grooves **(FIGURE 3)**. A padded block can be used between the hammer and mull cover **(FIGURE 3)**.

FIGURE 3

Seal Joints and Apply Gaskets

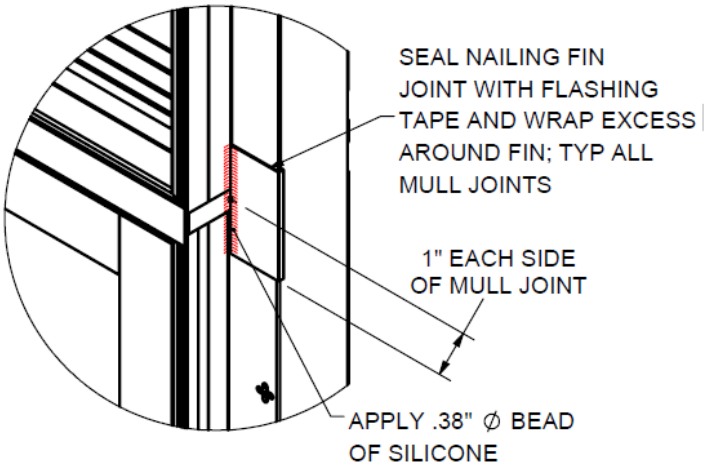


FIGURE 1

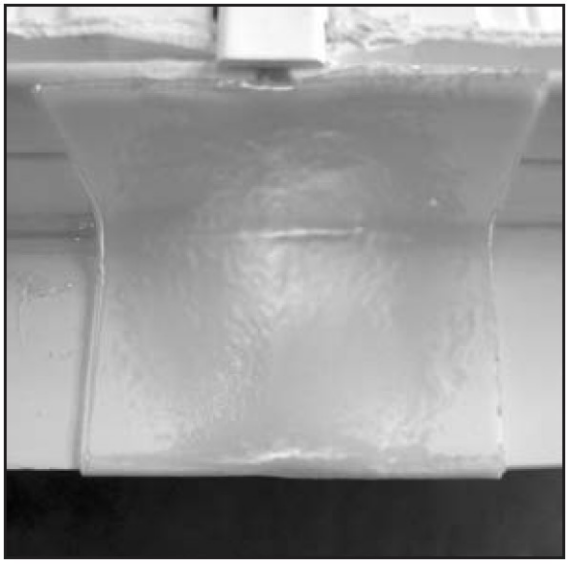


FIGURE 2

1. Apply 3/8” bead of silicone, 1” each side of mull joint where nail fin meets aluminum cladding **(FIGURE 1).**

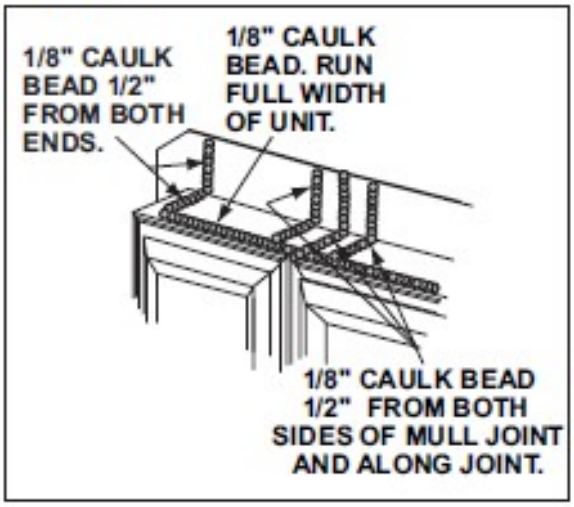
2. Apply 3M flashing tape around nail fins. If mull end cap was not used, also apply the 3M flashing tape to cover the 1/2” gap between units.

3. Each sill mull joint requires a sill fin gasket. Remove backing from gasket and place adhesive side against face of sill jamb and over nailing fin at joint **(FIGURE 2)**. Apply pressure to seal gasket against window frame and nailing fin. Excess gasket should be wrapped around backside of fin.

Install Drip Cap

FIGURE 1

FIGURE 2



1. Measure width of assembled units, jamb to jamb **(FIGURE 1)**. Mark drip cap at this length and cut with a hacksaw.

2. Apply a continuous 1/8" diameter bead of sealant to head. Start 1/2" from side jamb. Caulk vertical face of nailing fin and continue along top of head to other end of unit and up the opposite nailing fin vertical face. Also apply sealant to the mulled joints laying a 1/8" diameter bead 1/2" from both sides of the joint. Add a third bead directly on top of the joint **(FIGURE 2)**.

3. Center drip cap, from side to side, over head of combined unit and press firmly down into sealant **(FIGURE 3)**.

4. Secure drip cap to head with #8 x 1/2" stainless steel TEK tip screws or #8 x 1/2" Phillips pan head stainless steel self tapping screws. Place screws 1" to 2" from each end of unit and every 24" to 30" along length of drip cap **(FIGURE 4)**.

5. Examine entire exterior and remove excess sealant using a clean soft shop towel dampened with denatured alcohol.

6. Allow sealant to dry before installing unit.

FIGURE 3

FIGURE 4

Notes