

# New Construction Double Hung with Exterior Sheathing Removed



## Tools (Not Provided by Manufacturer)

Tape Measure	Utility Knife
Screw Gun	Caulk Gun
Level	Hammer
Putty Knife	Safety Glasses
Framing Square	Hand Roller
Foam Gun	Staple Gun /w staples

## Supplies (not provided by Manufacturer)

9" flashing tape	Sealant
Low expanding Foam	Non-biodegradable shims
Fasteners (stainless steel)	

## Provided by Manufacturer

Nail fin (if applicable)	Chevrons (if applicable)
Screw pack	

## Warnings:

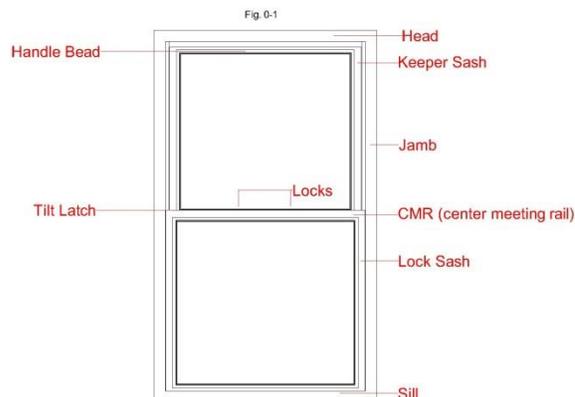


Fig. 0-2

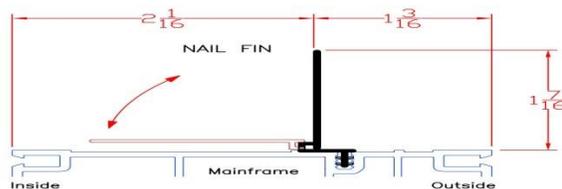


Fig. 0-3

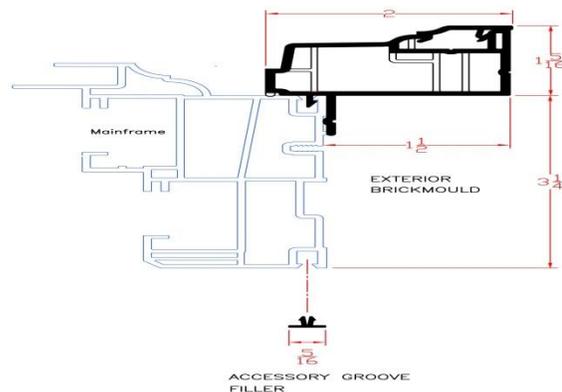
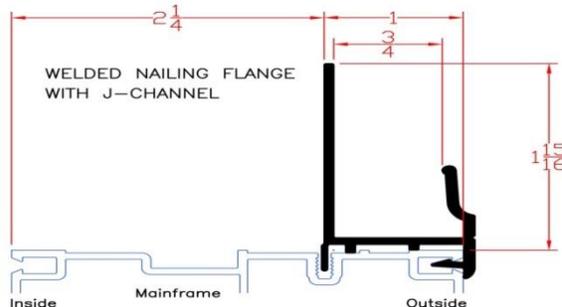


Fig. 0-4



## Step One: Rough Opening (RO) Prep

- Check opening for level, plumb and square. Note any discrepancies for proper shimming in later steps or if possible adjust rough opening to create a level, plumb and square opening.
- Pre-cut your flashing tape using the following formulas:

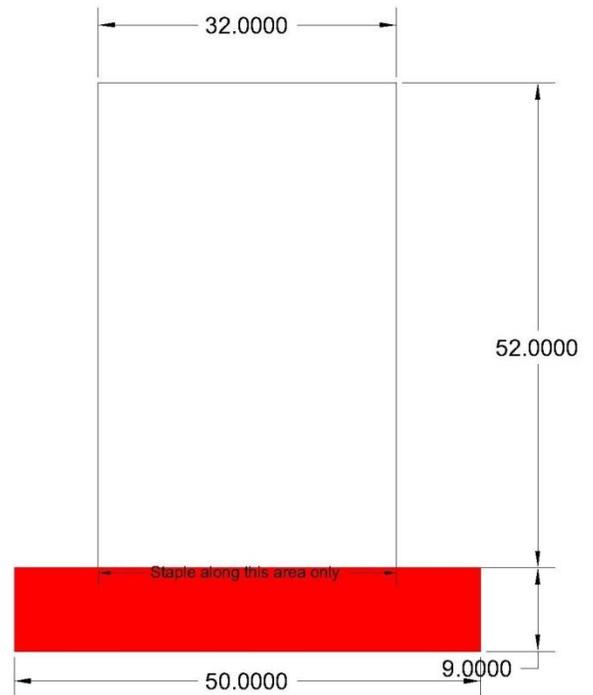
Sill: RO width + (2 x tape width)

Jamb: RO height + (2 x tape width) - 1"

Head: RO width + (2 x tape width) + 2"

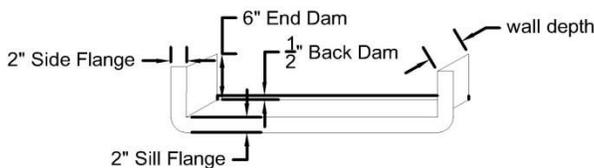
- Using a staple gun, attach the sill flashing to the sill of the rough framing leaving 9" on both the left and right side of the rough opening. Only staple along the top portion of the flashing only at the sill of the rough opening leaving the bottom and side section open. (Fig. 1-1)
- All staples should be between 12"-16" apart.

**Fig. 1-1**

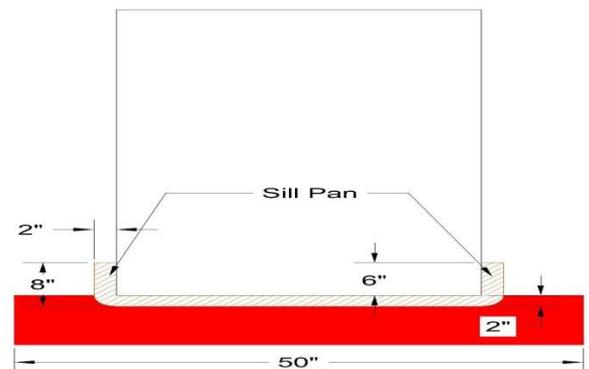


- Using a single piece of self-adhesive flashing tape, make a sill pan with end dams (sides) that run up the Rough framing jamb at least 6" and fold over on to the face of the rough opening and extend outward from the rough opening at least 2". (Fig.1-3)

Fig. 1-3



**Fig. 1-2**



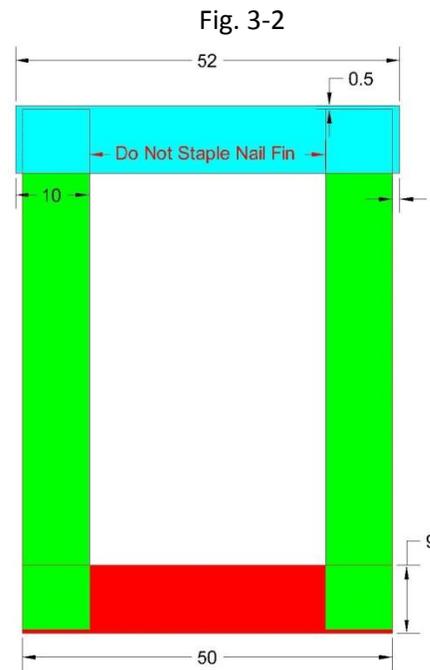
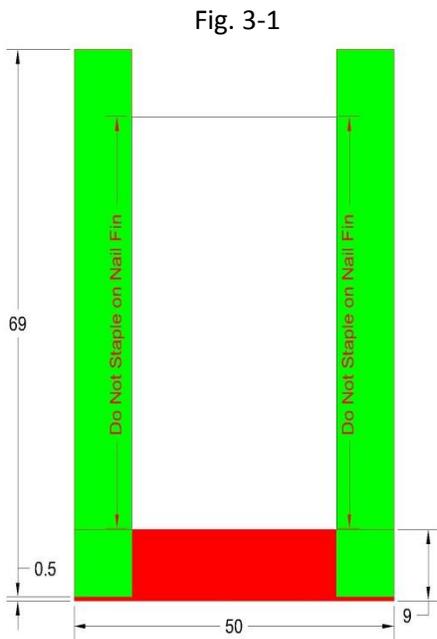
## **Step Two: *Installing the widow***

- Check the sill for level once again and shim if necessary.
- If applicable, apply loose nail fin flange to all four sides of the window frame.
- To apply, press nail fin into the accessory groove located on the frame 1" back from the exterior face of the window. At each corner on the back side of the nail fin, (side closer to the interior of the window) apply the Sunrise Window supplied chevrons connecting each corner together.
- Using a 3/8" bead of silicone sealant, apply a line of sealant along the nailing flange/j-channel nail flange holes around the entire perimeter of the window unit. An optional bead of sealant can be placed along the rough framing where the flange will be in contact with the rough framing.
- Set the window in place tilting it so that the bottom of the unit is set in place first with the head of the unit tilted in afterwards.
- Press the nailing flange against the sheathing to create a bond with the sealant. There should be squeeze out present around the entire perimeter of the flange.
- Place a fastener on the top of the right jamb nail flange making sure not to fully tighten the fastener leaving room for further adjustment. (Tighten after final adjustments have been made)
- Shims must be applied at interior screw points. Shim at jamb jacks if necessary.
- Check for level plumb and square. Adjust shims and jamb jacks accordingly.
- Apply fasteners to the remaining nail flange holes, occasionally checking for level plumb and square.
- Operate the sashes making sure that they operate correctly, that all locks function smoothly, and that all sight lines are even.

## **Step Three: *Finishing exterior flashing***

- Apply a 3/8" h bead of silicone sealant along the left and right jamb nail flange holes continuing up the 8½" above the head of the window on both sides.
- Press the jamb flashing into the sealant.
- Using a staple gun, attach the flashing to the rough framing making sure not to staple on the nail flange. Apply the left and right jamb flashing extending 8 ½" above the head of the window unit on both sides. The jamb flashing should sit on top of the sill flashing and NOT extending past it on the bottom. (fig. 3-1)
- Repeat the steps on the opposite jamb.
- Apply a bead of sealant across the head where the nail flange holes are placed and a second bead of sealant horizontally 8 ½ "above the head of the window.

- Place head flashing at the top of the window pressing it into the sealant. The head flashing should extend out past the both jamb flashing pieces by a least a ½". (Fig. 3-2)
- A water resistant barrier should then be installed.



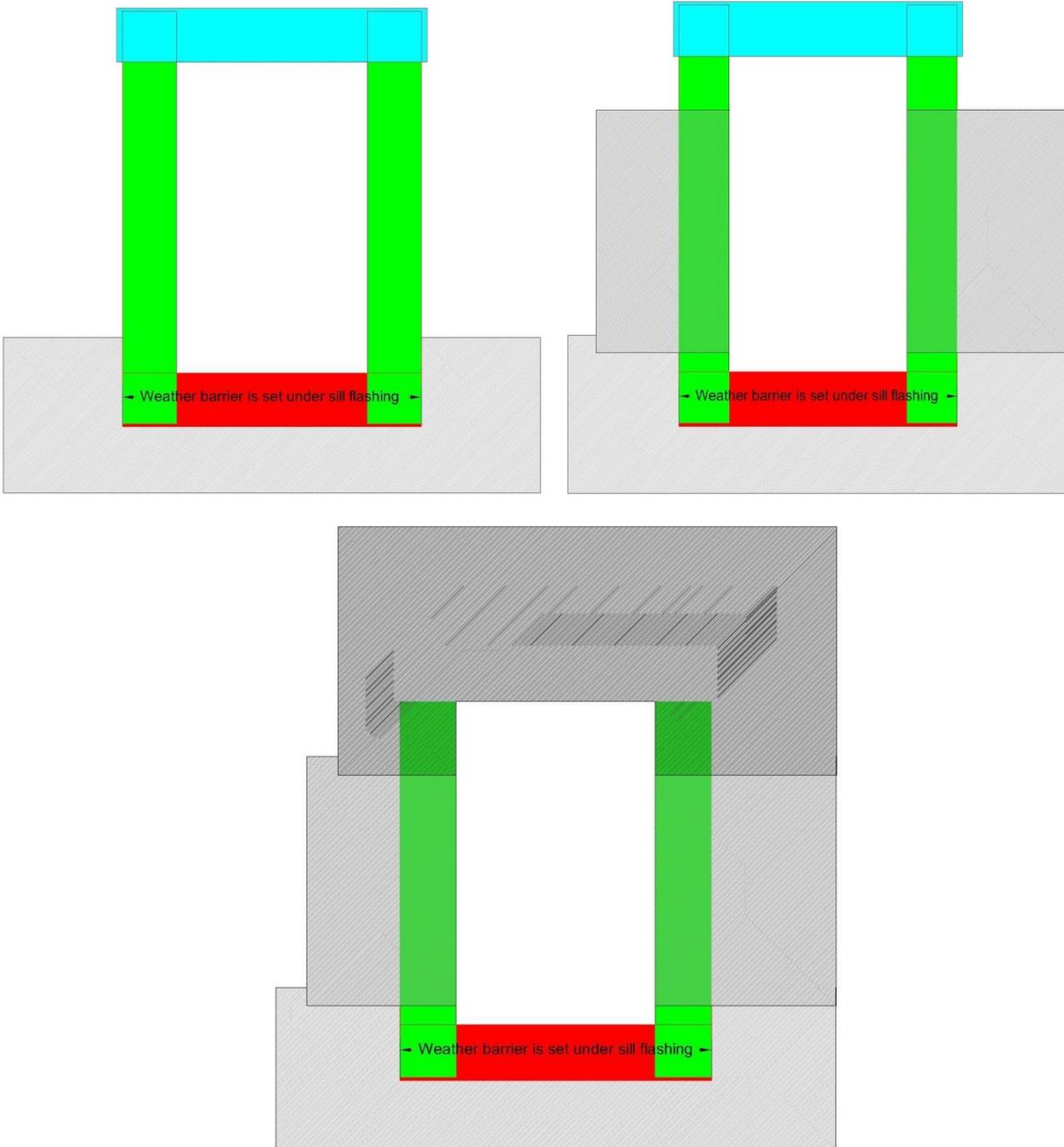
#### Step Four: *Water resistant barrier*

- The barrier should be installed in water board fashion. This means that you should start by placing the bottom section on first and each additional layer should overlap the previous layer.
- The first layer of the water resistant barrier should be set under the loose section of the sill flashing.
- Each following section of water resistant barrier should be place over top of the previous. This can be done by someone other than the window installer.

#### Step Five: *Interior Finishing*

- The window must be secured using the provided installation screws in the pre-drilled screw holes leaving all screws loose until final adjustments have been made. (Fig.2-1)
- Use low expansion foam insulation around the interior of the window unit making sure to follow the manufacturer's instruction on proper usage. Fiberglass insulation can be substituted for low expansion foam.
- Finish as desired.

## Water Barrier Steps



**NOTE:** There are many variations of install that may be encountered when replacing windows. One conventional replacement window installation is described in these instructions. For questions on appropriate installation procedures, refer to your GENERAL CONTRACTOR, LOCAL and STATE BUILDING CODES, ARCHITECTURAL SPECIFICATIONS, and ASTM E2112.