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## Field Installation Instructions for Vinyl Sliding Glass Doors

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Mounting Flange

## Nail Fin



1. Check for readiness, obstructions and safety obstacles that must be reported to the site project authority for correction prior to beginning installation.
2. Remove debris that will obstruct your path way in which you will transport product.



3. Ensure that all roofing material has been loaded on roof prior to installing.

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4. Sill pans have been installed (where applicable).



5. Make sure there are no bolts sticking out of the foundation and are cut flush with the foundation.
6. Framing material should be of 2x4, 2x6, or 4x4. In some cases sheer panel is used on the exterior of the opening.

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7. On open wall framing FIREBLOCKS must be installed and nailed in place.



8. Check to see if the sheer panel is in place on the entire exterior opening and the same thickness is all the way around (if applicable).

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9. If drywall is to be stocked in the house, it must be at least 36 inches away from the door opening to provide adequate clearance for the installers to make proper adjustments to the vent panel during installation.



10. Check rough opening for **plumb**.

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11. Check rough opening for level.



12. Check the **width** by measuring the horizontal distance at the top, middle and bottom of the opening.

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- 13.** Check the **height** by measuring the vertical distance at the left, middle and right side of the opening.



- 14.** Check for **square** by measuring the corner-to-corner distance (lower left corner to upper right corner and lower right corner to upper left corner).

\* If both measurements are the same the framing is square. The maximum allowable difference is 1/4 of an inch. If it is not square then have it corrected.

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- 15.** Be sure that the header and the trimmers are lined up and flush to each other.



- 16.** It is very critical that the threshold is installed level and straight for the drainage system to work properly.
- 17.** Shim or flatten down the humps in the sub sill. Shims are to be made of high impact plastic capable of carrying specified compressive loads. The Horseshoe type is adequate for this application.



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- 18.** Caulk sub sill with 2 – 3/8” diameter continuous beads of sealant on the sub floor and continue 6” up the jambs.

**If sill pan is not required then proceed to step 23.**



**19. If Sill Pan is required:**

If installing a dissimilar metal sill pan (Steel or Aluminum) on a concrete foundation be sure to lay down a Protective Barrier between the concrete and the sill pan to prevent Galvanic Corrosion (electrolysis). If sill pan is made of PVC a Protective Barrier is not required.

## Nail Fin



- 20.** Apply one 3/8" diameter continuous bead of sealant on the bottom of the sill pan located to the back side of the down turned leg.



- 21.** Place sill pan onto bed of sealant and ensure that it is level.

## Nail Fin



**22.** Then place one 3/8" diameter continuous bead of sealant on the back side or back dam leg of the pan and one 3/8" diameter bead of sealant in a discontinuous manner along the most exterior side of the pan (front). All beads should continue up the pan and join the jamb sealant.



**23. If nail fin is not needed:** Carefully trim off the bottom fin and trim back the weld so the jamb extenders can be installed flush against the door. (Be sure that you do not cut into the sill of the door.) **Do Not cut the nail fin when installing the SGD on a sub floor in which you can utilize the nail fin.**

## Nail Fin



**24.** The jamb flashing needs to be applied using the formula Rough Opening Height + (2 times the width of the flashing) – 1 inch. For example, on a 96 inch tall opening and 12 inch flashing, it would be  $96 + 24 - 1 = 119$  inch pieces of flashing.

**25.** Apply the flashing so it extends 11 1/2 inches (12 inch paper) above the head and 11 1/2 inches below the sill and staple the flashing at the jamb where the staples can be covered by the nailing flange.



**26.** Apply a 3/8" continuous bead of sealant around the full perimeter of the back side (interior surface) of the mounting flange. Alternatively, you may apply this bead to the opening where the nail fin comes in contact with the flashing material.

## Nail Fin



- 27.** Lift the door and place into the opening ensuring that you have a good squeeze out with the sealant.



- 28.** Using the 4-ft. or 6-ft. level, verify that the Door Sill is straight and level. Alternatively, you can do this by checking the Head of the door.

## Nail Fin



- 29.** Check the jambs for plumb, both inside and outside, using a 6-ft. level or longer.



- 30.** Once the door is square and plumb, fasten the door in place at the opposite diagonal corner. (Lower left corner to upper right corner and lower right corner to upper left corner.) Check the scope of work for proper fasteners.

## Nail Fin



- 31.** Secure the door with the fasteners at a maximum distance of 16 inches on-center. It is critical that you verify for plumb and straightness within the jambs for every two fasteners put in place.



- 32.** After the exterior has been fastened in place, Face-caulk the perimeter of the frame where the fin meets the flashing material. All fastener heads and pre-punched holes must be covered with the sealant. Tool the sealant down to insure smooth coverage.

## Nail Fin



**33.** Apply a 3/8 continuous bead of sealant at the head, directly over the fasteners and pre-punched holes in the Nail Fin. Do not extend the bead beyond the mounting flange at the jamb.

**34.** The Head flashing needs to be applied using the formula Rough Opening Width = (2 times the width of the flashing) + 2 inches. For example, on a 60 inch wide opening and 12 inch flashing it would be  $60 + 24 + 2 = 86$  inch piece of flashing.



**35.** Apply the flashing at the header so the flashing extends 1 inch past the jamb flashing on each side.



## Nail Fin



**36.** It is critical that the Head flashing is installed in the weatherboard fashion and embedded in the sealant.



**37.** Place the header and one side jamb extension in place. Line them up so they meet at a flush 90-degree angle, fasten both header and jamb where they meet. Repeat at the other jamb.

## Nail Fin



- 38.** Place the side jamb extender tight against the sill of the door and fasten in place. Repeat at the other jamb.



- 39.** Be sure to check that the reveal of the Jamb Extender is even all the way up. (If needed, shim accordingly.)

Be sure to place shims between rough frame and the back of the door jamb where the strike plate is to be screwed into.

## Nail Fin



- 40.** Use the biggest level that will fit in the opening. Place it against the jamb extenders and fasten the jamb extenders in place, repeat on both sides and the header.



- 41.** When the jamb extenders are plumbed you may place 2" screws through the perimeter frame to tighten up any gap that might be present between the frame and the jamb extenders.

## Nail Fin



42. Install the supplied handle on the vent.



43. Install the vent into the perimeter frame by placing the top in first and then slide the bottom in.

## Nail Fin



- 44.** Remove the adjustment hole plugs on the bottom interior face of the vent and adjust the wheels on the vent (turn to the right to rise and to the left to lower) so the reveals on both sides are straight, then reinstall the plugs.



- 45.** The strike plate has been preset from the factory with a screw behind the silver cover that allows for minor adjustments.
- 46.** If door does not have jamb extenders, be sure to shim at the strike plate to keep jamb in place.

## Nail Fin



- 47.** Once the vent is in the proper position, set the strike plate in place by pre-drilling through the preset holes at the top and bottom of the strike plate and installing the two 3" stainless steel screws (provided with the handle) into the framing.



- 48.** Check to see that all steps have been completed and are done properly.
- 49.** Be sure to check the operation of the door.

## Nail Fin



- 50.** Verify that the permanent AAMA label is still in place.



- 51.** Walk the surrounding area and insure that all trash is picked up and disposed of properly.