

Vinyl French Door Instruction

Series 550

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NOTICE

Following these instructions helps to ensure good installation which is necessary for proper door performance and operation. Please read and understand all instructions before beginning.

SAFETY

To avoid personal injury when working with windows and doors, PGT recommends at least two people for installation. Do not work alone.

IMPORTANT

Due to structure design, construction methods, and the variety of products that can be assembled and installed, PGT strongly recommends consultation with an architect or structural engineer prior to the installation of any PGT product. PGT disclaims any and all liability associated with the use and /or provision of these instructions.

These instructions were developed for the use of PGT Independent Distributors and other industry professionals working with PGT products.

GETTING STARTED

1. Prior to installation inspect product sizes, options, hardware, damages, etc. If there is damage to the product an assessment should be made as to whether or not to install the product.
2. Sealant must be compatible with all application surfaces.
3. Flashing and/or sill pan method shall be determined by Contractor or Engineer and incorporated into the following instructions.

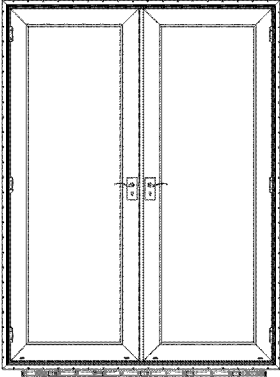
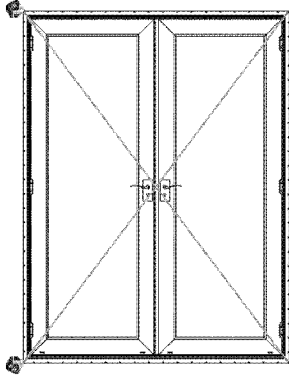
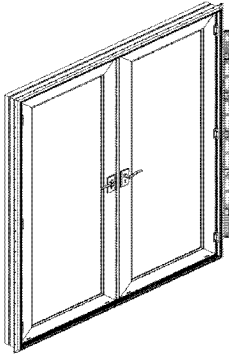
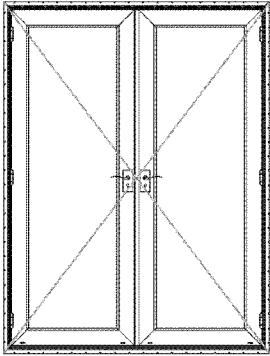
OPENING INSPECTION

4. Inspect house wrap, if applicable
5. Ensure all materials meet job specifications
6. Inspect substrate for any structural deficiencies and repair or replace as needed.

MEASUREMENTS

7. Check every opening for level, plumb, square and true. See **Figure 1**.
8. It is recommended that at least three (3) measurements be taken on the opening width and height and compared to the size of the door frame, make any necessary adjustments to the opening to ensure a good fit.

Figure 1

Four Measurements of an Opening			
Level	Square	Plumb	True
			
<p>Check the opening for level by placing a level on the sill. If the opening is not level, shimming may be required</p>	<p>Check the opening for square. Measure from corner of opening to opposite corner on each side. If the two measurements are off, then the opening is out of square. Adjustments may be required or a smaller door may be needed.</p>	<p>Check the opening for plumb by placing a level on the vertical plane. If the opening is out of plumb, adjustments may be needed.</p>	<p>Check the opening for true. Run two strings from corner to opposite corner to form an "X". If the strings just touch, the opening is true. If the strings do not touch or cross over one another, than the opening is out of true.</p>

DRY FIT FRAME

Note: Depending on size, Single panel doors may be pre-assembled. Take caution to make sure the weight of the panel is supported during installation or remove panel from main frame during frame installation.

9. Dry fit frame into opening and pivot into upright position. Check the following:
 - a. If using a nail fin frame, ensure nail fin fits tightly against the exterior of the wall without bending or flexing the door frame.
 - b. Reveal must be uniform and no greater than ¼" shim space at the head, jambs or sill. Gaps greater than ¼" will require adjustments to the opening.
 - c. Shim as needed to level and square. Although not required, if using shims under the sill be sure they are of high compression material. Do not over shim, as it may bow the frame.
 - d. Mark the installation screw locations through the threshold and onto the substrate.
 - e. Remove the door frame from the opening.

FRAME INSTALLATION - SEALANT

10. Using a 3/16" bit pre-drill holes in the sill of the substrate for threshold attachment.
11. Using a clean dry cloth, clean all areas where sealant will be applied to the opening and the frame.
12. Apply a full bed of approved sealant to the sill and at the bottom corners of the opening. Make sure the amount of sealant will be sufficient to fill the two cavities on the underside of the threshold. Continue the sealant beads 6" up the substrate jamb. **See Figure 2**

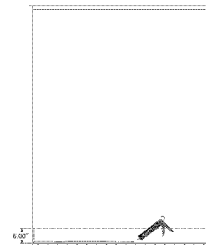


Figure 2

If shims are needed under the threshold, set them into the sealant and run an additional bead of sealant over the shim before installing the frame into the opening.

For Integral Fin Frames: Also apply a continuous 3/8" bead of sealant to the *interior side* of the fin on the jambs and head, covering the installation holes.

FRAME INSTALLATION – PLACEMENT AND ANCHORAGE

13. Prepare to set frame into the opening. Line up threshold with the predrilled installation holes and seat the sill into the sealant first. Then lift into place.

For Integral Fin Frames: Push the fin tight against the exterior face of the substrate.

Squeeze-out should be visible 6" up from the bottom of the jambs from the interior.

14. Using 3/16" fasteners or #12 screws with sufficient length to penetrate the substrate a minimum of 1-1/4", install a fastener at each end of the threshold and into the substrate.
15. Starting at the top of one of the jambs, shim as needed, check for plumb, and install fastener. Finish installing the remaining fasteners using the same method.
16. For Integral Fin Frames: Install fasteners in pre-punched installation holes in the nail fin.

Important: To ensure full adjustability of the hinges and proper operation of the door the frame jambs must be straight and not twisted. Checking for level after installing each fastener and avoiding over tightening the installation screws will help ensure a successful installation.

HANGING PANEL(S)

Note: Shipping spacers are used on doors to prevent damage during shipment, as well as to keep an equal reveal during the installation of the door panel. *Do not remove shipping spacers until final hinge adjustments have been made.*

17. Always shim behind each hinge; this is necessary to provide full support of the frame which is required for proper door operation. **See Figure 3**

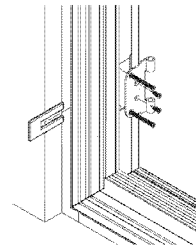


Figure 3

18. Position the door slab as shown in **Figure 4**. Holding the slab in this position using glass cups, will allow manipulation and engagement of the hinge leaf into the jamb.

Important: The weight of the door slab may cause damage to the hinge and bearings during attachment. *Place blocks or other weight bearing material under the door slab, also shown in Figure 4, to protect from damage.*

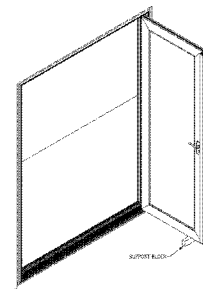


Figure 4

19. Attach each hinge leaf to frame jamb using two (2) #10 x 2-1/2" long fasteners and two (2) #10 x 1/2" hinge screws (provided in the parts bag). **See Figure 5**

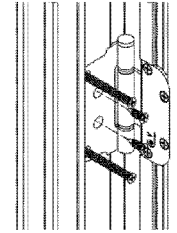


Figure 5

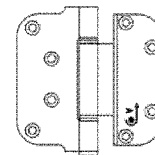
HINGE ADJUSTMENT

Note: Use a standard screwdriver when adjusting hinges. Screw Guns can strip the adjustment screw and therefore are not recommended.

Relieve panel weight during adjustment to avoid damage to the adjustment screw.

20. The Set hinge, indicated with a "V", provides the vertical adjustment (+/- 2.5mm) and has a non-removable pin feature. Tighten the Set screw on the hinge pin so the pin cannot be removed from the exterior. **See Figure 6**

Using a hand held screwdriver, adjust the Set hinge up or down to center the door equally. Be sure to relieve panel weight during adjustment.

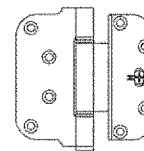


ADJUSTABLE SET HINGE

Figure 6

21. The Guide hinges, indicated with an "H", provides the horizontal adjustment (+/- 2mm). **See Figure 7**

Using a hand held screwdriver, adjust the Guide hinges horizontally creating an equal reveal between the door frame and the slab.



ADJUSTABLE GUIDE HINGE

Figure 7

For double doors, adjust the hinges so the slabs are close enough to engage the lock.

A properly adjusted door will have equal reveal around the mainframe and panel(s) as well as between the panels of a double door system.

22. Remove the shipping spacers from the panel(s) and re-adjust the hinges as necessary to achieve smooth operation. Panels should swing open and close without dragging on the sill or hitting in the center.

