

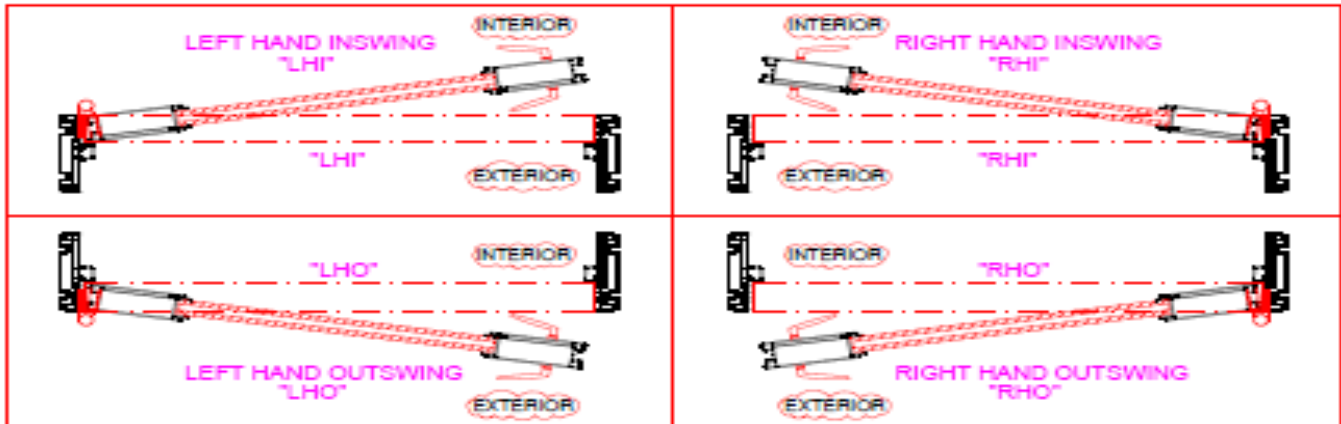


ESSEX SWING GARDEN DOOR

DETAILED INSTALLATION INSTRUCTIONS

FJF 10/2012 rev 0

GENERAL: Door elevations shown in these instructions are as viewed from the outside. Door handing is referenced as shown on the plan drawings following. The installation procedure for both “open in” and “open out” doors is the same.

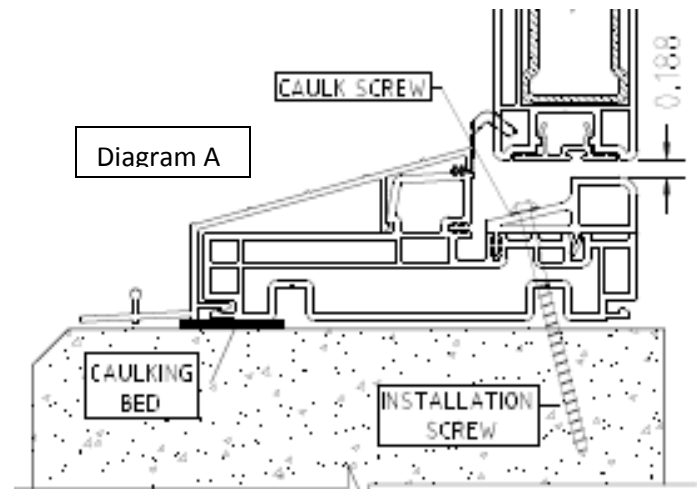


ROUGH OPENING

The rough opening should be made 1/2” wider and 3/8” higher (+/-1/8” each way) than the actual door frame size. (Refer to catalogue for frame sizes.) The sill or base of the opening must be solid, level, and of sufficient width and depth to support the entire door sill in a continuous and uniform manner. It is important that the opening be plumb and square as the door will not perform to its potential if installed into an improperly prepared opening.

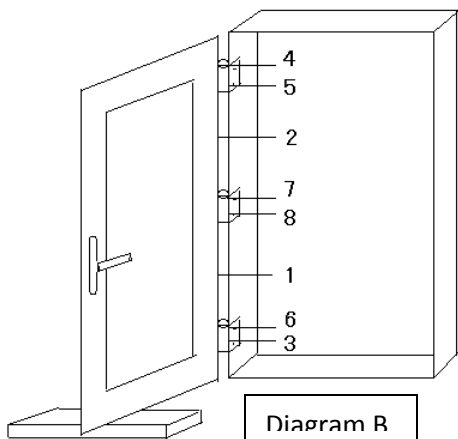
FRAME INSTALLATION

Apply a heavy continuous bead of good quality caulking across the sill opening at a line just inboard of the aluminum sill extension as shown on Diagram A. Centre the door frame within the rough opening ensuring the sill seals into the sealant bed, leaving equal clearance at both jambs. The sill must be installed level and uniformly supported from end to end and from front to back. Use a level to verify and add shims to level the sill if necessary.



Insert shims between the jambs and the rough opening at each hinge location on the hinge side and at the top and bottom corners on the swing side. Open the door leaf at a 90° angle to the jamb and support it on blocking so that it does not apply force on the frame during the anchoring process.

Using a long level, check that the hinge jamb is perfectly level, plumb and not twisted. Adjust the shims as necessary until the frame is true. The jamb will then be fastened to the structure twice at each hinge and once between each hinge as follows.

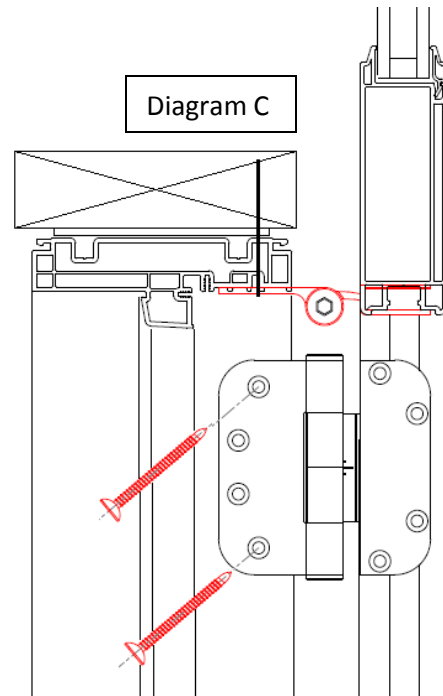


Refer to Diagram B. Insert shims between the jamb and rough opening at the mid-point between the bottom and middle hinges (Location 1) and install the first #10 X 2 3/4" roundhead installation screw at that location. Repeat this procedure at the mid-point between the top and middle hinges (Location 2). Check the jamb for level and adjust as necessary.

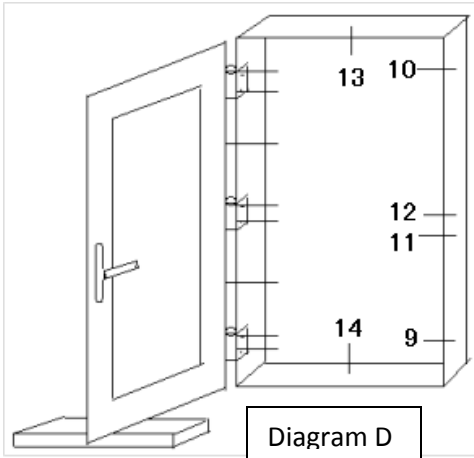
Once the jamb is level, remove one screw at a time from each hinge as shown on Diagram C and replace it with the #10 X 2 3/4" flathead wood screw supplied. Start at the lowest screw on the bottom hinge (Location 3) followed by the top screw on the upper hinge (Location 4). Check the level and plumb.

If true, continue with the other top and bottom screws, and lastly install the screws on the middle hinge. Ensure that the screws penetrate the rough opening structure by a minimum of 1".

If the rough opening is concrete or steel stud, use the appropriate fastener designed for the substrate. If bowing of the frame occurs during fastening of the jamb to the structure, apply additional shims to compensate and re-fasten.



Close the door leaf, engage the latch, and ensure that the leaf is making good and uniform contact to the frame on all four sides. If the leaf does not swing freely, it will be necessary to make adjustments to the hinges before proceeding with fastening of the swing side jamb to the rough opening structure. (See Hinge Adjustment instruction.) Once the leaf and frame are aligned, check the swing side jamb for plumb and square, adjust the shims if necessary, mark its location on the rough opening, and open the door leaf again and support it on blocking.



Install installation screws into the swing jamb at 6" from the bottom and top corners. (Locations 9 & 10) Close the door leaf to check for uniform engagement and adjust if necessary.

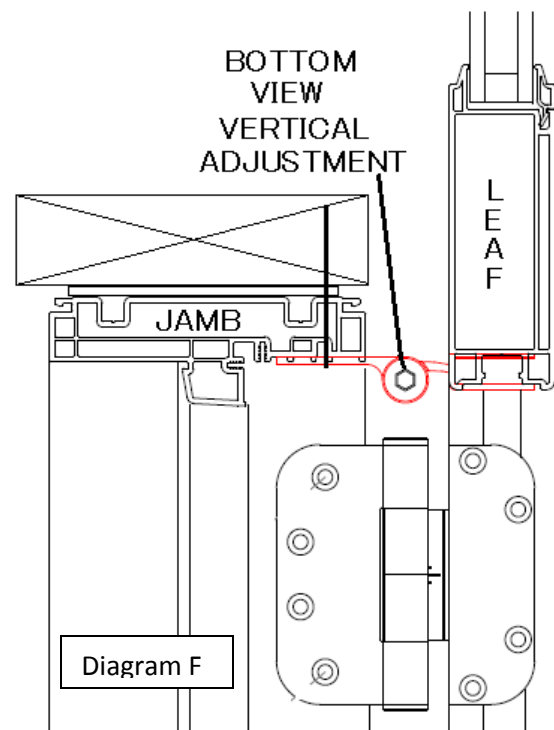
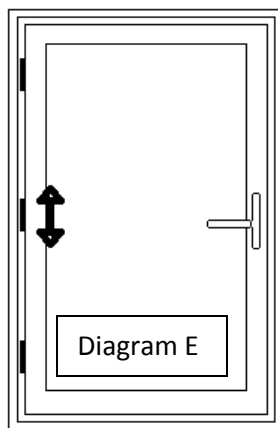
Next, insert solid blocking in the clearance gap between the frame and rough opening behind the lock strike plate. Remove one screw at a time from the lock strike plate and replace it with the #10 X 2 3/4" wood screw supplied. (Locations 11 & 12)

For single leaf doors, install one installation screw at the mid-point of the head and sill (Locations 13 & 14). For double leaf doors or for doors with a fixed sidelite, install one installation screw at the mid-point of each leaf or fixed lite, and two screws near the middle of the door at both sides of the meeting stiles or vertical mullion.

CRITICAL : Screws penetrating the sill must be fully sealed and weather tight as shown on Diagram A.

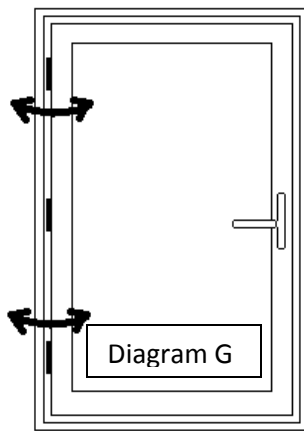
HINGE ADJUSTMENT

In order for the door leaf to function freely, after the frame is secured to the rough opening, it may be necessary to make adjustments to the hinges. The door leaf should be adjusted so that the gap between leaf and the head and sill is a uniform 3/16".



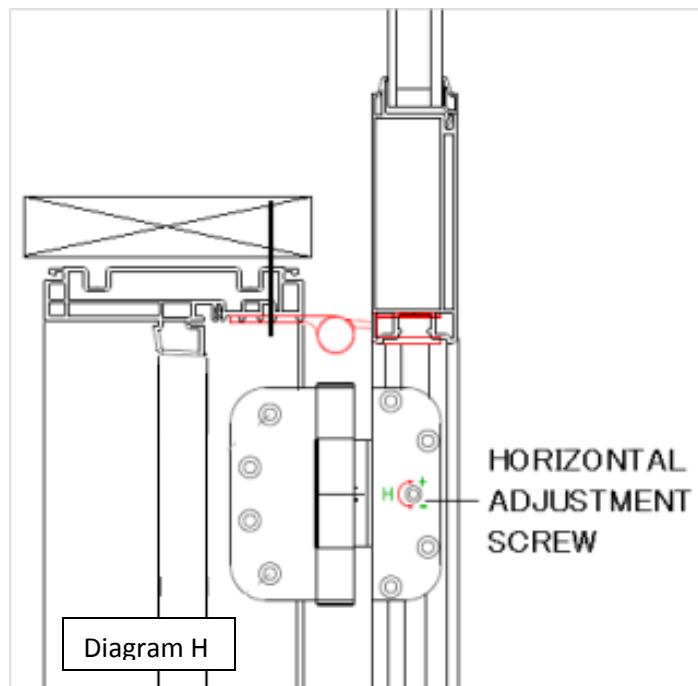
VERTICAL ADJUSTMENT

Raising or lowering the leaf is done by rotating the adjustment screw located at the base of the middle hinge using a 4mm hex wrench. See Diagram F. Turn the hex screw clockwise to raise the leaf or counterclockwise to lower the leaf.



HORIZONTAL ADJUSTMENT

Adjusting the level of the leaf is done by rotating the horizontal adjustment screws located on the face of the hinge leaf attached to the door leaf on the top and bottom hinges, using a 4mm hex wrench.



The usual adjustment required is to raise the bottom swinging edge of the leaf. This is done by turning the hex adjustment screw on the bottom hinge in the “+” direction, and by turning the hex adjustment screw on the top hinge in the “-” direction. Make adjustments only one half turn at a time.

CAULKING

Use a good quality building sealant that is compatible with the vinyl surfaces of the door and the surrounding structure. It is important that all surfaces to be caulked are free of smut, dust, and grease and are well cleaned with an isopropyl alcohol solution followed by a clean dry wipe. Depending on the sealants being used, a primer may also be necessary. Check the application with your sealant supplier.

CAUTION: If expanding foam insulation is being used to fill the void between the door frame and surrounding structure, we recommend the use of good quality low expanding material only applied by an experienced applicator. The use of **high expanding foam can bow and deform framing members** resulting in poor performance and difficult operation of the door.

CLEANING

Remove all debris and vacuum all dirt and filings from the sill. Using a mild soap and water solution, clean all vinyl and glass surfaces. **Do not use solvents** or harsh cleaners as they may damage the finish surfaces.