About Phirst and Lassing Pivot Door Systems

Pivot door systems are unique in that a fixed stop and compression strip cannot be utilized in the frame system because a full surround stop will not allow the door to open. Below is described how Phirst and Lassing approaches weather-sealing out pivot doors. **It is essential to emphasize that all doors, pivot or otherwise should have adequate overhang to prevent against excessively long hours of direct sunlight and a means by which to divert direct driving rain from a door!**

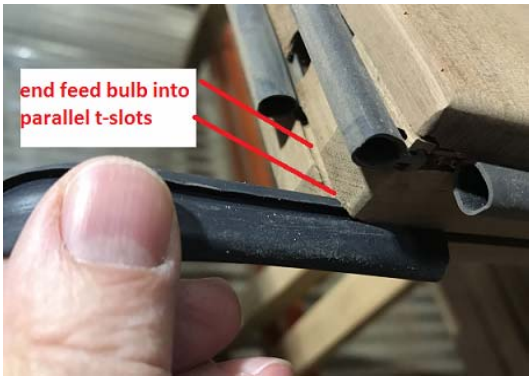
Phirst and Lassing pivot entry door system incorporates field applied stop and compression weather strip for the full length of the door strike (locking side) jamb. Additionally, the door receives a full width convention door sweep. Doors over 48" use a segmented door sweep due to limited long length sweeps that are currently available.

Also provided is a head jamb stop shipped loose and long to be cut back in the field once the entire door unit is set. The top and pivot edge of the door receives two channels of Pemko silicone bulb weather strip. Because we fully embed the top pivot socket and plug that area, our bulb weather strip can span the entire top rail of the door in a straight line flashing unlike many other companies that stagger their weather strip around the pivot area.

Our provided sill is already prepared to receive our bottom door bearing. Our head jamb is 2" thick and we have already installed our top receiver for the pivot door eliminating any header cutting or mortising for the contractor installing our unit.

Installing a Phirst and Lassing Pivot Door

Before beginning install, fully insert t-slot weather strip around the outer pivot side of the door and top of the head rail of the door. You must install t-slot seal in both slots!



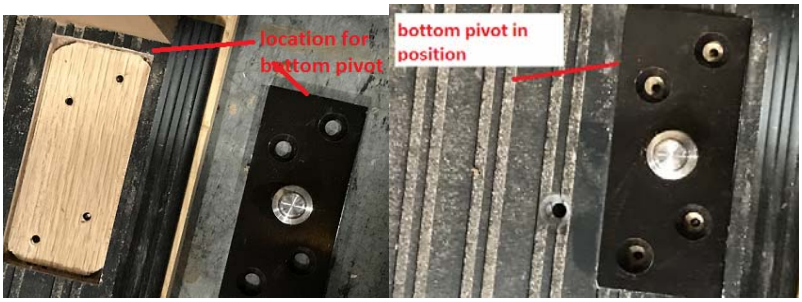
1 Ensure your rough opening is of proper size for you frame with approximately ½" greater width and height than you actual door frame.

2 Apply flashing tape or whatever means you are using on your project for flashing doors and windows.

3 Install the door frame bedded heavily into a silicone sealant. Construction adhesive is not recommended as the frame must be moveable upon squaring the door and the adhesive may dry too quickly.

4 Square and plumb the jamb. Do not fasten the jamb, do not fasten the jamb, and do not fasten the jamb at this time. Shim the jamb firmly in place.

5 Place the bottom bearing plate into the precut slot of your sill. Continue to keep the frame in perfect plumb and square. It is recommended to use a laser or plumb bob to align the bottom pivot bottom with the top pivot socket. These two points must align or the door WILL operate properly.



6 Upon achieving a precise alignment with the top pivot socket and the bottom sill bearing, pre-drill pilot holes through your head jamb which align with your head jamb shims. A minimum of 3-1/2” deck screws **(NEVER USE DRYWALL SCREWS)** should be used to a fix your head jamb securely into your header. Do not try and anchor the head jamb before drilling pilot holes. The head jamb is 2” thick, solid lumber. There is a great chance of breaking or stripping your anchor screw without pilot holes.

7 With the head jamb set, verify the head pivot socket and bottom pivot bearing are still in precise alignment. Drill 4 (four) pilot holes aligning the bottom pivot which is set in the sill, into your structural sill plate. Again, verify your top and bottom pivot points remain aligned

8 Secure your sill into your structural sill plate with the pre-drilled holes in the supplied sill.

9 Position the door slab over and onto the bottom pivot bearing in the door. With the door riding on the pivot, lift the door into the vertical position.

10 Move the door into the full upright position. From the top of the door, site the top pivot socket with the top head jamb pin. When aligned, screw the top pivot locating screw such that it lowers the top pivot pin into the door. Continue to turn the screw until the top pivot completes its full travel as this is critical to steady the door.

11 Close the door and examine the reveals around the edge of the door in relation to the frame and head. It is expected to have 1/8” reveal on both sides and head when the door is fully closed.

12 With top and side reveals set, secure the frame with 3” deck screw by drilling pilot holes through the frame and shims behind the frame. Install and tighten screws spaced approximately 18” around the perimeter of the frame and head careful to not alter the desired reveal between the door and frame.

13 Apply head and strike side stop as shown in below picture. The head stop will have to be field sized to allow the desired amount of door pivot. Install the provided kerf compression weather strip in head and side jamb stop.