



# EXTERIOR ENTRYWAY INSTALLATION INSTRUCTIONS

## CENTOR E3 BIFOLD HARDWARE

401 Priority Street  
Altoona, PA 16602  
PH: 800-741-2265  
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<b>GLOSSARY</b>	<b>page 1</b>
<b>PREPARATION</b>	<b>page 1-2</b>
1. Recommended Tools for Installation (pg. 1)	
2. Finish Sealing Your Door (pg. 1)	
3. Preparing the Opening (pg. 2)	
<b>ASSEMBLING THE JAMB FRAME</b>	<b>page 2</b>
<b>INSTALLING THE JAMB FRAME</b>	<b>page 2-3</b>
1. Placing the Entryway within the Opening (pg. 2-3)	
2. Spacing Verification (pg. 3)	
3. Permanently Securing the Unit (pg. 4-5)	
<b>INSTALLING THE DOOR SLABS</b>	<b>page 3-4</b>
<b>WEATHER SEALING THE ENTRYWAY</b>	<b>page 4</b>
<b>FINISHING TOUCHES</b>	<b>page 4</b>

**IMPORTANT:** Read all instructions thoroughly before beginning the installation process. They are designed to accommodate most applications, however, existing conditions may require alterations to these instructions. If changes are necessary, they are to be made at the installer's discretion, for which he is solely responsible. Consult your local building code official (or other jurisdictional authority) regarding applicable building codes and regulations. Local building code requirements supersede recommended installation instructions. It is the responsibility of the owner, builder, or architect to use products which are in full compliance with applicable laws and building codes. For installation methods aside from those indicated in these instructions, consult an architectural engineer.

## GLOSSARY

- A **wall stud** is a vertical framing member in a building's wall construction. In entryway architecture, it is typically (but not always) referencing 2x4 or 2x6 lumber. Studs are broken down into the following specific terms: king, trimmer or jack, cripple, post or column.
- **Masonry** is the building of edifices from individual units bound together by mortar. Masonry materials include: brick, stone, stucco, concrete block, etc.
- A **door slab**, sometimes referred to as a "panel" (an individual component within a door slab), is the operating portion of an entryway that is often referenced by its specific design (Half-light door slab, 6-Panel door slab, Flush door slab, etc.)
- A **door jamb**, or simply **jamb** (also sometimes called a **doorpost**), is the member(s) that makes up the frame into which the door slab is installed and housed. The vertical members are typically referred to as "jamb legs", and the upper horizontal member as the "header jamb".
- A jamb **rabbet** is the recessed edge of a jamb piece that works as an integrated stop for the door slab.
- A **jamb kerf** is the channel within the rabbeted side of a jamb that is intended to accept some form of weatherstrip seal.

## PREPARATION

### 1: Recommended Tools for Installation

- |                   |                                 |   |
|-------------------|---------------------------------|---|
| • Marking Utensil | • Framing Square                | • No. 2 Philips Screwdriver                           |
| • Tape Measure    | • Sealant Tube & Sealant Gun    | • Power Drill and Bits                                |
| • Hammer          | • Foam or Fiberglass Insulation | • Countersink (if using manually-driven finish nails) |
| • Pry Bar         | • Brad Nails                    | • Plumb-bob and Spirit or Box Level                   |
| • Utility Knife   | • Heavy-gauge Finish Nails or   | >48" level or greater recommended for doors up to 8/0 |
| • Wood Shims      | • Threaded Screws               | >72" or greater recommended for doors larger than 8/0 |

**Additional Notes:** A multi-function laser level can be used in place of a plumb-bob/line, framing square, and spirit or box level.

### 2: Finish Sealing Your Door

- Providing the entryway has not been factory finished by Signature Door, it will need finish sealed as soon as possible upon receipt to prevent moisture damage. A proper finish will help to regulate moisture content by controlling the pace at which the product absorbs and releases said moisture content, which is vital to ensuring that the product is able to perform as intended.

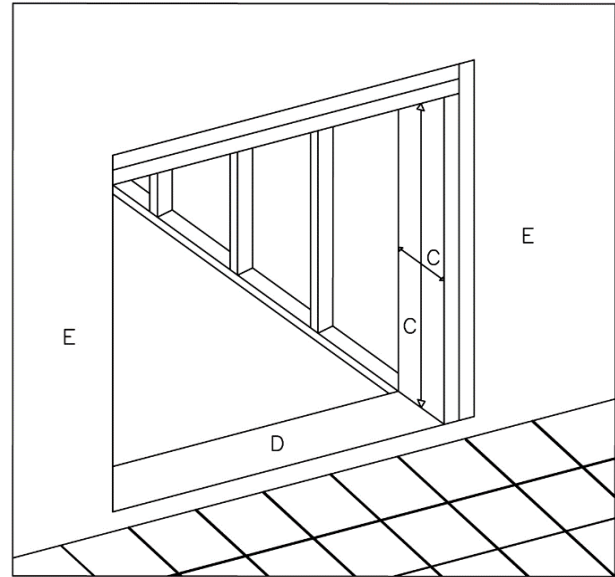
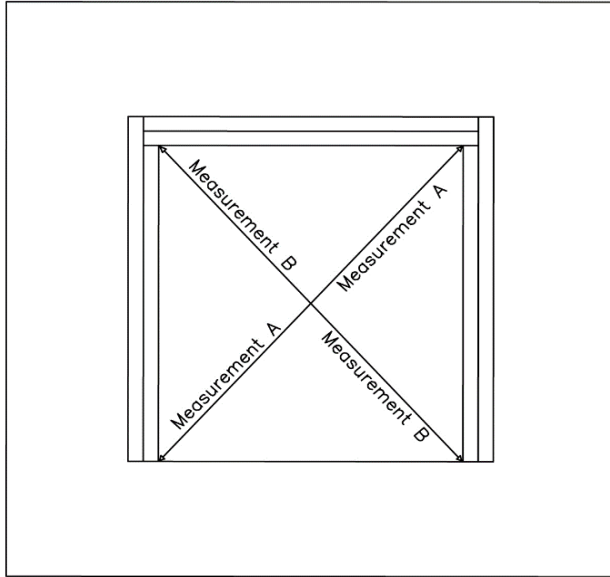
**Additional Notes:** (a) Factory Primed products are not yet properly sealed and will require application of a paint top coat. (b) Finish sealing prior to installation allows for better control over the individual components including, but not limited to, finish sealing any hardware preps (hinge routes, etc.). (c) Signature Door recommends that a professional wood finisher is contracted to properly finish the product.

### 3: Preparing the Opening

- Consider the sub-floor height in comparison to the entryway sill/threshold height, as well as, the height of the desired interior finished floor (carpet, tile, etc.). Determine whether these sizes will work cohesively, in that the door slab(s) will swing clear of the finished floor height when the entryway is installed. If necessary, make adjustments to ensure clearance.

**Additional Notes :** Do not alter the structural sub-floor without first consulting an architectural engineer.

- Verify that the opening is square (see LEFT diagram below). Measurements "A" and "B" should be equal. Maximum allowable deviation from square is 1/4".
- Verify that the opening is level and plumb on the sides, as well as, the header (see RIGHT Diagram - "C").
- Verify that the sub-floor is not crowned or sagged (see RIGHT Diagram - "D").
- Verify that the exterior face of the opening is on a single plane (see RIGHT Diagram - "E").



- Following the product manufacturer's installation instructions, install a sill pan for moisture diversion if applicable.
- Following the product manufacturer's installation instructions, apply flashing tape/building wrap to the opening and wall sheathing.

## ASSEMBLING THE JAMB FRAME

- The sill/threshold track assembly, jamb legs, and jamb header track assembly have been pre-labeled with the letters "A", "B", "C", and "D". Align piece "A" to "A", "B" to "B", etc. and fasten each corner together using the factory-provided screws.

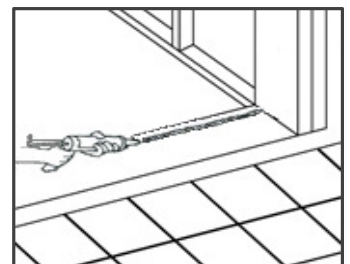
**Additional Notes :** If a bumper sill is being utilized, apply the factory-provided sill gaskets to each end of the threshold before assembling these corners. Units with an ADA-compliant sill or Floor Track only will not contain gaskets.



## INSTALLING THE JAMB FRAME

### 1: Placing the Jamb Frame within the Opening

- Clear the entryway rough opening of any foreign materials or debris. Offset towards the interior of the opening, apply one [1] 1/4" to 1/2" line of silicone sealant along the full width of the subfloor or sill pan (see Diagram on RIGHT).
- Proceed by tilting the Jamb Frame assembly into the opening. Slide as necessary until the unit is positioned as desired in relation to the exterior wall, wall sheathing, brick, etc. (exact location will vary depending on the inclusion or exclusion of exterior casing, wall depth and construction, etc.).
- Using a plumb-bob or level, verify that the unit is plumb in relation to the exterior/interior of the building (not tilted toward one side).



## 2: Spacing Verification/Shimming

- From the interior side of the unit, insert shims at each corner between the jamb frame and wall. Insert additional/intermediate shims as necessary until the unit is square within the opening. Whereas the jamb legs and sill/threshold are to be level, the header jamb/track assembly should have a 1/16" crown per 8' length of door system to compensate for the weight of the door slabs.

## 3: Permanently Securing the Jamb Frame within the Opening

### **JAMB LEGS (Assumes stud wall construction)**

- Start by driving the desired fasteners (threaded screws or otherwise) through the left and right jamb legs at each shim location (screw length recommended to be 2-3" in length in order to drive through the shims and into the building securely). Continually check that the jamb frame is still square and level as you continue to drive your fasteners through or near each shimmed location until the unit is properly secured. Brad nails and/or finish nails can be used to further secure the unit in areas where no shims are located. For entryways with an abnormally deep wall, it may be necessary to place nails or screws through the non-rabbeted side of the jamb, as well.

**Additional Notes:** (A) If using finish nails and manually driving rather than nail gun driven, drive nails to within an 1/8" of flush and then finish driving using an appropriately sized nail set and countersink. (B) Driving nails/screws behind the weatherstrip will negate the need for filler or screws plugs. (C) Stainless Steel fasteners are recommended for high-moisture and/or marine (salty) environments.

### **HEADER JAMB/TRACK (Assumes stud wall construction)**

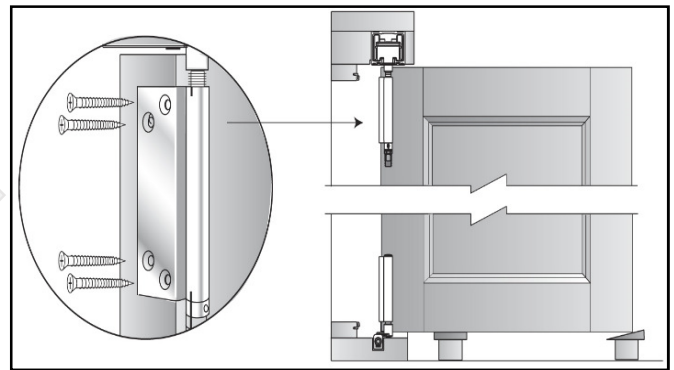
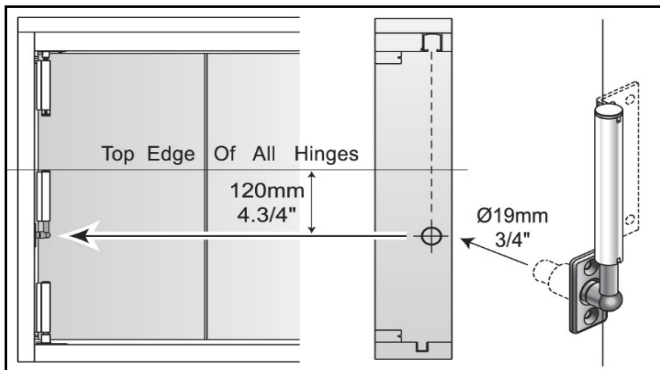
- Signature Door predrills the header track in accordance to Centor hardware standards/spacing. Using HeadLOK Structural Wood Screws or equal, drive the screws into each pre-drilled hole in the header track assembly. *NOTE: Masonry construction headers will require masonry fasteners. Consult your local building official to acquire a fastener recommendation for your application.*

### **SILL THRESHOLD (Assumes a wood subfloor)**

- Signature Door predrills the sill/threshold in accordance to Centor hardware standards/spacing. Using the Stainless 2 7/8" No. 12 Structural Wood Screws provided with your unit, install each into the pre-drilled holes of the sill threshold track assembly. *NOTE: Masonry construction subfloors will require masonry fasteners. Consult your local building official to acquire a fastener recommendation for your application.*

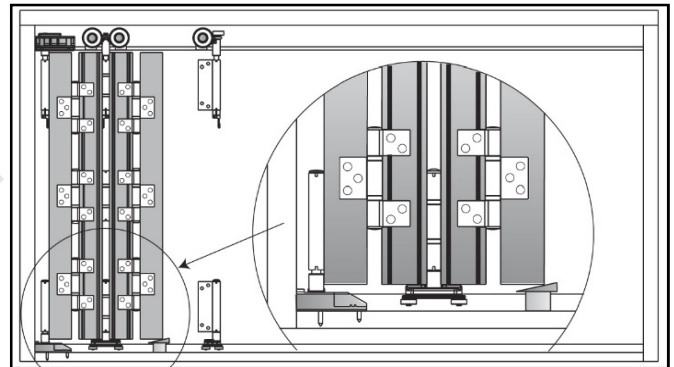
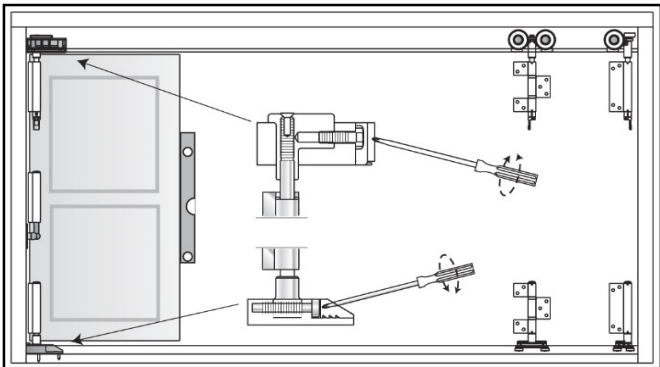
## INSTALLING THE DOOR SLABS

- Clear the upper and lower track of any foreign materials or debris, and unwrap the roller carriers/pivots in the upper and lower track system.
- Install the wall pivots into the jamb frame. Placement per manufacturer prep locations.
- Set the first slab into place, and attach the wall pivot hinges to the door slab. Spacer blocks may be needed to elevate the slab to the correct position.

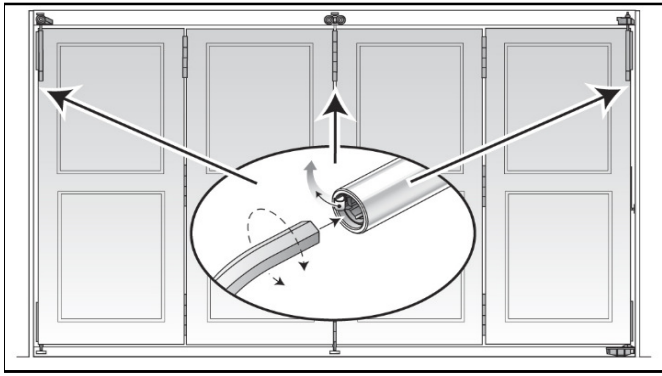


- Make the proper adjustments to the upper and lower pivots until the door slab is level.

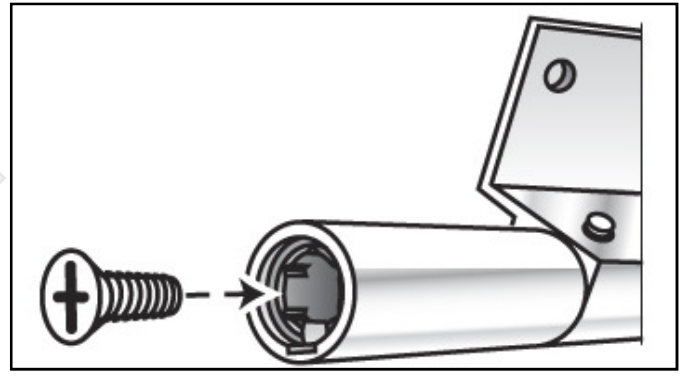
- Continue by setting the additional slab(s) into place and install using the pivot hinges, upper track carrier and lower track pivots.



- Make final adjustments to the carrier pin nut to ensure smooth operation.

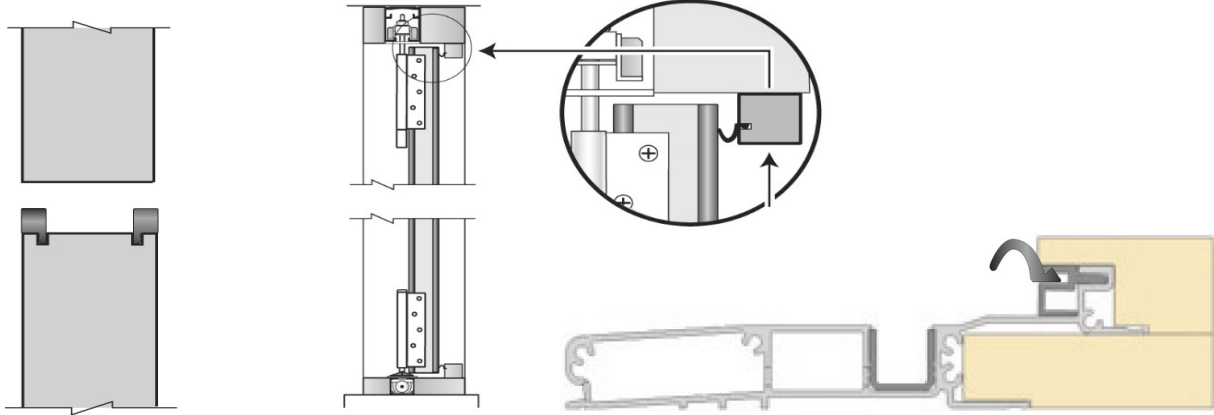


- Install the factory-provided screws into the bottom of the upper pin heads.



## WEATHER SEALING THE ENTRYWAY

- Install the factory-provided weatherstrip seals into the kerfs on the jamb frame (left/right/top), threshold, and door edges (where applicable).



*NOTE: Final product may differ slightly from components shown above.*

## FINISHING TOUCHES

- If an ADA-compliant sill has been utilized, run a bead of caulk sealant from the exterior to the interior where the sill meets the jamb leg (bottom left and right corners). *Notice: Not necessary on Bumper sill thresholds (which utilize the aforementioned gasket).*
- If applicable, install the jamb corner pads ("wedges") at the bottom corners of the jamb with the thicker portion tucked slightly behind the weatherstrip. Corner pads are included with each Signature Door unit (one pair; left and right corner).
- For units with an astragal (center-opening), apply the factory-provided astragal pad to the bottom of the astragal.
- Fill any exposed indentations created in areas where a screw or nail was driven through the unit and reseal in accordance with the specifications recommended by the stain or paint manufacturer/vendor (Signature factory finished units include a 1oz touch-up kit).
- Using a utility knife, score each side of the excess wood shims and snap-off flush with the face edge of the jambs.
- Apply fiberglass or foam insulation between the jamb and the opening before installing any desired Interior Casing/Trim.
- Install and seal properly any j-channel, siding, flashing, etc. that is desired to be used in combination with the unit in the opening. Be sure to always consult the recommended installation procedures for each individual product.

**Thank you for choosing Signature Door Inc. and supporting U.S.A. manufacturing! Be sure to contact our Customer Service Team at (800) 741-2265 or visit our website at [www.signaturoor.com](http://www.signaturoor.com) regarding warranty, handling care, and maintenance information.**