



Thank you for selecting Lowe's RELIABILT products. Attached are recommended installation instructions for Exterior Steel, Fiberglass, and Wood Door Slabs. Read these instructions thoroughly before beginning. They are designed to work in most existing applications, however; existing conditions may require changes to these instructions. If changes are needed, they are made at the installer's risk. For installations other than those indicated in these instructions, contact a building professional. Areas such as Florida and the Texas TDI region have different anchoring requirements based on product certification. For information on specific products, visit www.floridabuilding.org or www.tdi.texas.gov and follow the anchoring schedule given in the drawings for the product instead of the anchoring schedule in this document.

Newer construction methods have led to an increase in air and water tightness in buildings. This frequently leads to negative air pressure inside the house, which can draw water through very small openings.

IMPORTANT INFORMATION AND GLOSSARY

RELIABILT does not endorse the installation of our products into a barrier-type install system unless a sill pan is present, incorporated with through-wall flashing and can drain to the exterior (along with other "required" components). Failure to do so may result in the denial of any warranty claims.

Not all exterior door types may be installed into every wall condition in all areas. Consult your local building code official (or Authority having Jurisdiction) for applicable building codes and regulations. Local building code requirements supersede recommended installation instructions.

NOTE TO INSTALLER: Provide a copy of these instructions to the building owner. By installing this product, you acknowledge the terms and conditions of the limited warranty as part of the terms of the sale. Protect doors from weather and exposure to direct sunlight prior to installation, exposure of machined doors may compromise the internal reinforced material of the door. Store in a dry, well-ventilated area off the floor, in a humidity and temperature-controlled facility. Recommended conditions: 30 to 50 percent relative humidity and 50 to 90 degrees F (10 to 32 degrees C). For optimal performance, new primed or unfinished products should be finished or painted with an even number of coats on all six sides as soon as possible after installation. Finishing is necessary because by nature, door construction materials are susceptible to the elements and changes in moisture levels can cause damage. Painting and finishing seals the surfaces, maintains, protects and enhances the beauty of the product by keeping it less susceptible to debris and easier to clean. Keeping doors properly finished is the first step in effective maintenance.

Table of Contents

Safety and Handling	2
Materials and Tools	2
Inspect Product	3
Inspect Existing Jamb	3
Install Slab	3
Complete Installation	5

RELIABILT advises against product installation in high interior water exposure environments such as showers, steam rooms and enclosed pool areas. These areas are beyond the tested/certified design intent of the door and any related warranty claims could be denied on that basis.

Glossary

Head Jamb

The horizontal jamb across the top of the opening.

Hinge

A metal component that attaches the slab to the jamb and allows the slab to swing open and closed.

Hinge Jamb

The side jamb the hinges are mounted in.

Hinge Leaves

The flat parts of the hinge that mount to the jamb and slab.

Hinge Pin

Pin that holds the hinge leaves together and allows them to pivot.

Hinge Route

Mortise in the jamb and slab the same profile as the corresponding hinge leaf.

Jambs

Framework attached to the structure that the slab is mounted to or hung in.

Panel

Component of the slab filling the spaces between the stiles and rails.

Pilot Hole

A drilled hole that is no larger than the body of the screw (minus the threads).

Rail

Horizontal members of the door slab.

IMPORTANT INFORMATION | GLOSSARY (CONTINUED)

Slab

The operating part of the door assembly that swings open and closed inside a frame.

Stile

Vertical members of the door slab.

Stop

Component fixed to the inside the jamb that the slab closes against.

Strike Jamb

The side jamb that contains the latch strike to hold the slab closed.

Please allow sufficient time to properly prepare the rough opening, install the entry door, and ensure its proper operation.

SAFETY AND HANDLING

Safety

- Read and fully understand **ALL** manufacturer's instructions before beginning. Failure to follow proper installation and finishing instructions may result in the denial of warranty claims for operational performance problems.
- **DO NOT** work alone. Two or more people are recommended. Use safe lifting techniques.
- Use caution when handling glass. Broken or cracked glass can cause serious injury.
- Wear protective gear (e.g., safety glasses, gloves, ear protection, etc.).
- Operate hand/power tools safely and follow manufacturer's operating instructions.
- If disturbing existing paint, take proper precautions if lead paint is suspected (commonly used before 1979). Your regional EPA (www.epa.gov/lead) or Consumer Product Safety Commission offices provide information regarding regulations and lead protection.

⚠ WARNING

Drilling, sawing, sanding or machining wood products generates wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information, go to www.P65Warnings.ca.gov/wood.

Door Slab Handling

- Allow doors to acclimate for at least 24 hours to local conditions before installation or finishing.
 - Store slabs in a vertical, leaning position to allow air circulation.
 - Buildings where humidity and temperature are controlled provide the best storage facilities (recommended conditions 30%-50% Relative Humidity and 50°F to 90°F).
 - Ensure the storage area is dry, well-ventilated and **protected from exposure to direct sunlight**.
 - Handle doors with clean hands or while wearing clean gloves.
 - Lift and carry doors to move, **DO NOT** drag across one another.
 - Heed material manufacturer's handling and application instructions.
 - Only install into vertical walls when conditions/heating are dry.
- IF INJURY OCCURS, IMMEDIATELY SEEK MEDICAL ATTENTION!**

MATERIALS AND TOOLS

NOTE: When using flashing, spray adhesive/primer, sealant and foam products, we recommend using the same manufacturer and verifying compatibility. It is the End User's responsibility to determine if dissimilar materials are compatible to the substrates in the application.

Needed Materials

- Hinges
- Wood screws (minimum 5/8" through hinges; 1 - 2 1/2" through interior hole in the top two hinges into framing)
- Wood putty/spackle
- Lock set and template
- Finishing supplies
- Masking tape (for trimming wood doors only)
- 150-280 grit sandpaper

Needed Tools

- Safety glasses
- Screwdrivers
- Pencil
- Chisel or router
- Drill with bits and hole saws
- Tape measure
- Level
- Hammer
- Finishing tools (paint brushes, roller, spray equipment, masking tape, etc.)
- Circular saw (for trimming wood doors only)
- Wood plane (for trimming or beveling wood doors only)
- Punch

1 INSPECT PRODUCT

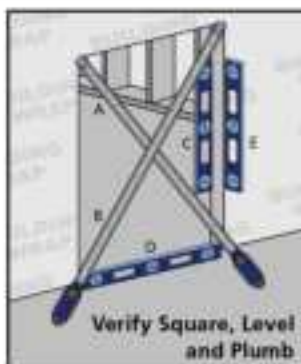
- Remove shipping materials such as corner covers, shipping blocks or pads.
- Inspect slab for cosmetic damage, squareness and warp.

- Verify it is the correct product (size, color, design, handing etc.). If any of the above conditions represent a concern, **DO NOT** install the slab. Contact the supplier for recommendations.

2 INSPECT EXISTING JAMB

Weatherproofing of the rough opening, along with the flashing and proper integration of the fenestration product with the water-resistive barrier, is the responsibility of the installer.

- Existing jamb should be 3/16" wider than the slab and at least 5/8" taller. There should be enough distance between the jamb edge and the stop to accommodate the thickness of the slab.
- Verify the existing jamb is square. The (A) and (B) measurements should be the same. Allowable deviation is no more than a 1/16".
- Verify the jamb is level, plumb and without twist (C, D and E). Allowable deviation is no more than an 1/8".



- The opening floor or sill must be flat and level (not be crowned or sagged) (D).
- The face of the rough opening must be in a single plane (E) with less than 1/8" twist from corner to corner.
- DO NOT** install the slab unless the jamb meets the listed conditions. Professional assistance may be necessary to correct any problems before installation.

For Retrofit Installations

Verify the rough opening framing is structurally sound. Contact your local waste management entities for proper disposal or recycling of products being removed.

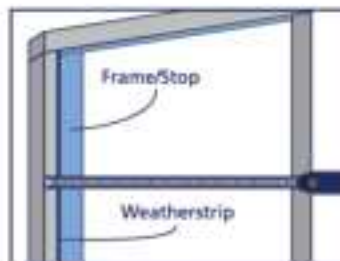
3 INSTALL SLAB

NOTICE

The door slab should be finished (painted or stained) on all six sides with an equal number of coats after all routing, trimming, boring and touch-ups have been completed and it has been properly fit in the jamb. Failure to finish on all six sides and install into a square, level and plumb condition could result in denial of warranty claims for operational or performance problems.

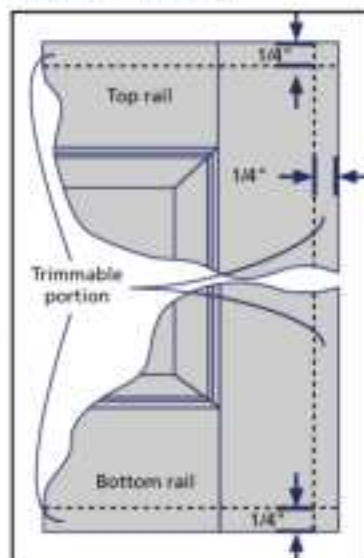
Prepare Jamb and Slab

- Measure the existing frame (not the stop) from the top of the threshold to the bottom of the head and from side to side in several places to verify the slab will fit. The frame should be 3/16" wider than the slab (1/16" clearance on the hinge jamb and 1/8" clearance on the strike jamb) and tall enough (usually 5/8" taller) to allow 1/8" clearance on the head jamb and 1/2" between the bottom of the slab and the top of the threshold.



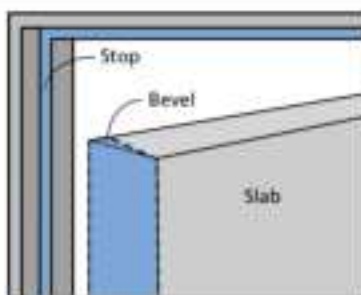
Trimming Allowance - for Wood Doors Only

- If necessary to fit the existing jamb, a maximum of 1/4" can be trimmed from each side. For the best appearance, trim an equal amount from opposite sides. To minimize chipping, stick masking tape along the cut line to each face of the slab. Make the cuts with a fine-toothed circular saw (height) and wood plane (width). Trimming beveled edges may require re-beveling.

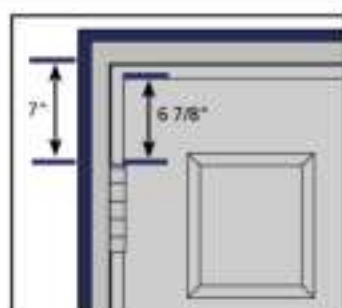


3
INSTALL SLAB (CONTINUED)

2. The latch stile may have a pre-cut 2" or 3" bevel. This bevel maintains a 1/8" clearance between the jamb and latch edge and improves the fit when the slab is closed. If the latch stile is not beveled, and a bevel is preferred, use a wood plane or fine-toothed saw to cut a bevel so that the slab face that rests against the stop becomes slightly narrower than the opposite face.

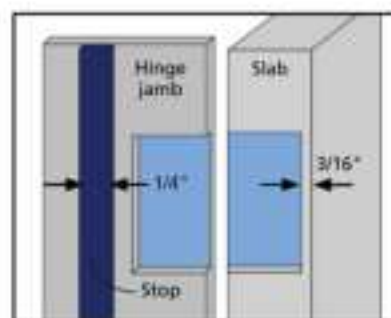


3. If installing new jambs, measure down from the underside of the top of the jamb (not the stop) 7" to position the top of the top hinge. Measure up from the top of the threshold 10" to position the bottom of the bottom hinge. Place the middle hinge halfway in between.



4. When marking the slab for hinges, make sure the measurement from the top of the slab to the top of the hinge route is 1/8" smaller than the distance from the head jamb to the top of the top hinge. This will allow 1/8" gap between the slab and head jamb.
5. When marking the slab, the distance from the inside face to the back of the hinge route should be 1/16" less than the depth of the hinge route on the jamb.

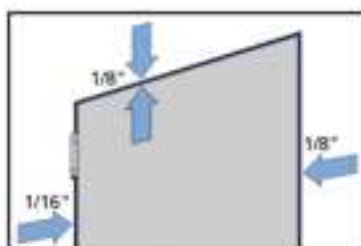
6. Using a template, mark the jambs and slab where the hinges will be mounted. Using a chisel or router, notch the jamb and slab for the outline of the hinge leaves and no deeper than the thickness of the leaves.



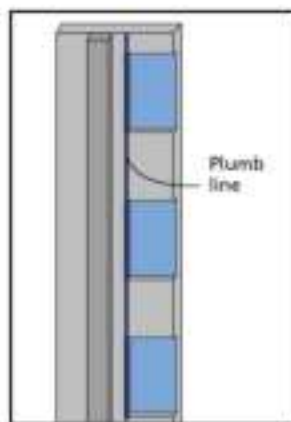
7. Using the hinge as a template, mark screw hole locations and drill pilot holes for all screws. If possible, it may be easier to remove the hinge pin to separate the hinge leaves. Use a hammer and a punch to drive the pin from the open end. Install the hinge leaves separately on the jambs and slab. Then, hang the slab in the frame by aligning the hinge leaves and reinstalling the hinge pins.

Test Slab Fit in Jambs

Before installing any hardware, fit the slab in the frame and verify it will fit properly. Looking at the hinge side of the slab when it is closed, there should be 1/16" gap between the slab and hinge jamb and 1/8" between the slab and the head and strike jamb.


Install Hinges

1. Three hinges are recommended for slabs up to 84" in height and four hinges for slabs over 84".
2. If re-using existing jambs, verify the existing hinge locations are plumb, or all in a straight line vertically. Position the new hinges in the existing locations and modify the mortises as necessary. Fill and re-drill screw holes if necessary. Match the slab to the jambs using the following instructions.



4**COMPLETE INSTALLATION****Install Lock Set and Finish Installation**

1. Most lock set holes will be pre-drilled and the lock set can be installed per the manufacturer's instructions. If the lock set hole is not pre-drilled, follow the instructions in step 2, otherwise, skip to step 3.

2. If installing into existing jambs, bore for the lock set where it will align with the existing strike.

If installing new jambs, the center of the hole for the lock set is usually centered in the rail (horizontal member) across the center of the slab or 35" from the bottom of the slab (not the sweep). Lock set holes should be either 2 3/8" or 2 3/4" on center from the edge, depending on the latch.

Using the lock set manufacturer's instructions and template, drill for lock set. Generally, a 2 1/8" diameter hole is needed for the lock set. Drill a 1" latch hole through the edge of the slab into the center of the lock hole to accommodate the latch for the lock. Some latches have a radius (rounded corners) or rectangular face plate that will require the slab edge to be chiseled for fit. Drill pilot holes for attachment screws. Other latches are round (contractor drive-in) and can be tapped into place with a hammer. Install lock set per manufacturer's instructions.

3. Close slab and check for proper operation. Adjust as necessary.
4. Remove hardware and finish all surfaces of the slab if not already done.

