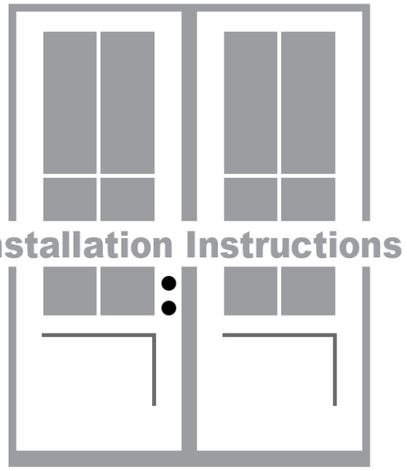


Double Entry Door
Installation Instructions

Thank you for selecting our products. Read these instructions thoroughly before beginning. These instructions cover two astragal configurations. Follow Section 3A for the PVC astragal or Section 3B for the aluminum astragal. Do not mix parts or procedures between configurations. 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 indicated in these instructions, contact a building professional.

NEEDED MATERIALS AND TOOLS

NEEDED MATERIALS

NOTE! Follow all material manufacturers' instructions for proper use and compatibility.

- 4 ft level, tape measure, framing square, and pencil or marker
- Cordless drill/driver, drill bits, driver bits, screwdrivers, rubber mallet, utility knife, caulking gun, and clean cloths
- Safety glasses, cut-resistant gloves, and all personal protective equipment required for the jobsite
- Exterior-grade door-frame installation screws, corrosion-resistant shims, exterior caulk,

PRODUCT COMPONENTS

SHARED COMPONENTS

- Active Door Slab ×1
- Inactive Door Slab ×1
- Side Jambs ×2
- Head Jamb ×1
- Threshold ×1
- Bottom Door Sweeps ×2
- Hinges ×6 (3 per slab)
- Top Flush Bolt ×1
- Bottom Flush Bolt ×1
- Ø5×50 mm Wood Screws ×12
- Ø4×40 mm Screws ×12
- Ø5×19 mm and Ø5×25 mm Hinge Screws

PVC ASTRAGAL CONFIGURATION

- PVC Astragal ×1
- Bottom Astragal End Protector ×1
- supplied accessories

ALU ASTRAGAL CONFIGURATION

- Aluminum Astragal ×1
- Top Astragal End Protector ×1
- Bottom Astragal End Protector ×1
- Strike-Plate Support Bases ×4
- Cover Strip ×1 (cut into 3 sections on site)
- supplied accessories

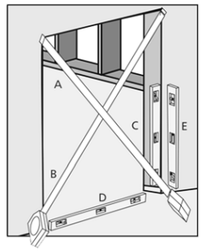
1 INSPECT PRODUCT AND ROUGH OPENING

INSPECT PRODUCT

- Carefully remove all packaging to avoid scratching the door slabs, glass, or weatherstrip.
- Verify the model, frame size, door style, finish, glass, handing, active door position, and astragal type.
- Inspect the door slabs, jambs, threshold, astragal, and glass for damage, bowing, or other visible defects.
- Inventory the components and fasteners listed in Section PRODUCT COMPONENTS. Confirm that each door slab has 3 hinges, that twelve Ø5×50 mm wood screws and twelve Ø4×40 mm screws are supplied, and that the top and bottom flush bolts operate properly.

STOP INSTALLATION: If the product does not match the order, the glass is broken, any component is damaged, or any hardware operates abnormally, contact the dealer or supplier.

INSPECT ROUGH OPENING



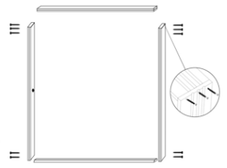
- Measure the outside frame width and height and the rough opening at the top, center, and bottom. The rough opening width and height should each be approximately 3/4 in larger than the outside frame dimensions. When the frame is centered, allow approximately 3/8 in at each side and leave the height allowance above the head jamb.
- The difference between the two diagonal (A&B) measurements must not exceed 1/4 in. Deviation from plumb at the sides (C&E), level at the head and sill support surface (D), or a single plane from corner to corner must not exceed 1/8 in.
- The sill support surface must be flat and continuous. All fastening areas must be solid and dry, with old sealant, old fasteners, and debris removed.
- Confirm that the sill area has reliable water management and drainage. Install a sill pan flashing system or other flashing before the door unit when required.

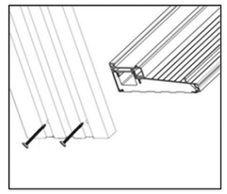
DO NOT INSTALL: Correct the rough opening before installation if its dimensions, structure, flatness, or water-management conditions do not meet these requirements.

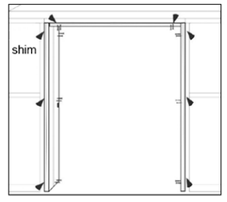
2 ASSEMBLE AND INSTALL DOOR FRAME

FOR FACTORY-PRIMED DOORS: Review STEP 7 before beginning installation. Complete field finishing before permanently installing the astragal, bottom door sweeps, hinges, lockset, or other hardware. Factory-painted doors do not require field finishing.

- Arrange the side jambs, head jamb, and threshold on a clean, level, padded surface. Confirm the interior /exterior orientation, hinge side, and threshold slope direction.
- Align the side jambs, head jamb, and threshold, then connect them through the pre-drilled holes using Ø5×50 mm wood screws. Tighten the screws alternately and keep the screw heads flush with the surface.
- Measure the outside frame width, height, and both diagonals. Temporarily pull the weatherstrip aside where it covers fastening locations.
- Clean the underside of the threshold and the rough -opening sill. Apply continuous beads of exterior caulk across the entire threshold contact surface and turn the beads up at both ends. If a sill pan flashing system is used, complete it according to its instructions before setting the frame.
- With two people, lift the frame into the rough opening. Place paired shims at the top and bottom of each side jamb, at every hinge and strike location, and at other load points.
- Adjust the threshold and head jamb until level, the side jambs until plumb, and the frame until square. Verify the clear opening at the top, center, and bottom.
- Drive the door-frame installation screws through the shims and into the wall framing. Snug them lightly, recheck the frame, and then tighten gradually to avoid bowing the side jambs.



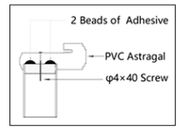


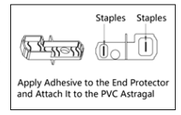


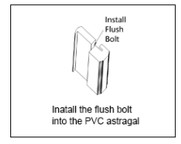
3 INSTALL ASTRAGAL ASSEMBLY

3A PVC ASTRAGAL

- Lay the inactive door slab flat on a clean, padded work surface. Identify the top and bottom of the PVC astragal, confirm its installation direction, and test-fit it before applying adhesive.
- Apply two continuous beads of structural adhesive evenly along the inside length of the PVC astragal. Keep adhesive clear of the flush-bolt channels, screw holes, and drainage locations.
- Apply an appropriate amount of structural adhesive inside the bottom astragal end protector and press it onto the bottom of the PVC astragal. Secure it with one staple in each of the two recessed locations (2 staples total), then remove excess adhesive.
- Fit the assembled PVC astragal over the meeting edge of the inactive door slab and align the top of the astragal flush with the top of the door slab. Fasten through the pre-drilled holes with the supplied Ø4×40 mm screws, tightening evenly from the center toward both ends. This configuration uses Ø4×40 mm screws for the astragal and flush bolts.
- Press the PVC-astragal weatherstrip fully into its groove. Keep it straight, unstretched, and free of twists, with both ends properly seated.
- Install the top and bottom flush bolts and secure them with Ø4×40 mm screws. Operate each bolt repeatedly to confirm that the bolt rod fully extends and retracts.
- Verify that the top of the astragal assembly remains flush with the top of the door slab, the bottom astragal end protector is secure, and the weatherstrip is continuous. Confirm that the adhesive and screws do not interfere with the operation of either flush bolt.



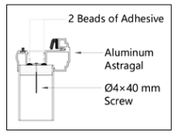


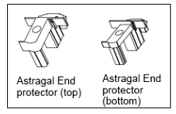


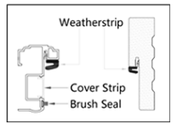
3 INSTALL ASTRAGAL ASSEMBLY - CONTINUED

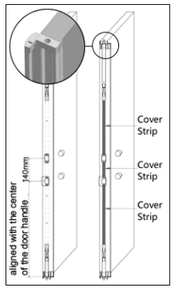
3B ALUMINUM ASTRAGAL

- Lay the inactive door slab flat on a clean, padded work surface. Identify the top and bottom of the aluminum astragal, confirm its installation direction, and install the weatherstrip and brush seal in their corresponding grooves.
- Apply two continuous beads of tructural adhesive evenly along the contact surface between the aluminum astragal and door slab. Keep adhesive clear of moving hardware, screw holes, and drainage locations.
- Apply an appropriate amount of structural adhesive inside the upper and lower openings of the astragal. Install the upper and lower end protectors, press them firmly into place, and remove excess adhesive.
- Position the assembled aluminum astragal against the meeting edge of the inactive door slab and align the top of the astragal flush with the top of the door slab. Fasten through the pre-drilled guide holes with the supplied Ø4×40 mm screws, tightening gradually and evenly. This configuration uses Ø4×40 mm screws for the astragal, strike plates, and flush bolts.
- Insert the four strike-plate support bases into the astragal groove. Measure from the bottom of the door slab and match the factory-prepared lock locations. Align the latch strike plate and deadbolt strike plate with the centers of the lockset on the active door slab, then secure them with Ø4×40 mm screws.
- Install the upper and lower flush bolts and bolt guides, and secure them with Ø4×40 mm screws. Operate each bolt repeatedly to confirm that it fully extends and retracts.
- Measure the groove lengths between the upper flush-bolt area, strike-plate area, and lower flush-bolt area. Cut the cover strip into three sections and press each section into its groove. Keep all cut ends smooth and flush so they do not interfere with the flush bolts or strike plates.
- Verify that the weatherstrip, brush seal, end protectors, and cover strips are secure; that the astragal fits evenly against the door slab; and that all hardware operates smoothly.





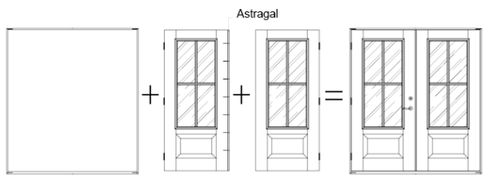




4 INSTALL DOOR SLABS

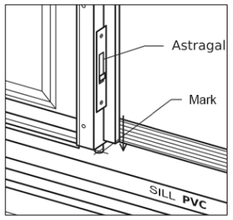
- Install 3 hinges on each door slab, 6 hinges total. Use Ø5×19 mm screws on the jamb side and Ø5×25 mm screws on the door-slab side, filling all factory-prepared hinge holes.
- With two people, install the inactive door slab with the astragal first. Close it and verify that the astragal is plumb and that the top and bottom flush bolts align with their receiving locations.
- Install the active door slab next. Close both doors and verify that the reveal gaps at the head, both sides, meeting stile, and bottom are even and that neither slab rubs.
- If the gaps are uneven, first check the shims, jamb plumb, and screw tension, and then make minor hinge adjustments. Do not plane or cut a finished door slab.

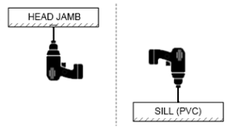
CLOSING SEQUENCE: Close the inactive door first and lock the top and bottom flush bolts, then close the active door. Reverse this sequence when opening.

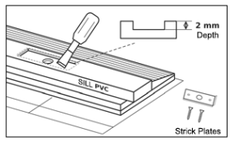


5 FLUSH BOLT RECEIVING HOLE

- Mark the Hole Locations. Apply removable marking material to both flush bolt tips. Close the inactive door to its correct position and extend the bolts to mark the PVC head jamb and sill.
- Drill the Receiving Holes. Retract both flush bolts and open the inactive door. At each marked location, drill a receiving hole — approximately Ø11 mm — and to the required depth. Wear eye protection while drilling.
- Mark the Strike Plate Outlines. Align each strike plate opening with its receiving hole. Temporarily secure the plates and mark their outlines.
- Recess the Strike Plates. Remove the plates and carefully cut a 2 mm-deep recess at each marked location using tools suitable for PVC. Each plate must sit flush with the surrounding surface.
- Secure the Strike Plates. Reinstall the plates and fasten them securely, keeping their openings aligned with the receiving holes.
- Check Operation. Close the inactive door and operate both flush bolts. Confirm that they fully engage and retract smoothly without binding.







6 ADJUST AND COMPLETE FINAL INSPECTION

ADJUST AND INSTALL HARDWARE

- Open and close both doors repeatedly. Confirm smooth operation, even reveal gaps, and a continuous seal at the meeting stile.
- Adjust an adjustable threshold in small, even increments so each bottom door sweep makes continuous contact without restricting door operation.
- Install the lockset, handle, and deadbolt at the factory-prepared locations on the active door slab. Adjust the latch strike plate and deadbolt strike plate on the astragal for smooth latching with no noticeable door movement.
- Confirm that the top and bottom flush bolts fully engage their receiving locations. Install all decorative covers and accessories, and reinstall any weatherstrip that was moved aside.

INSULATE, SEAL, AND COMPLETE FINAL INSPECTION

- After confirming that the frame is securely fastened, trim exposed shims and fill the space between the frame and wall with an appropriate amount of low-pressure window and door installation foam. Do not overfill or bow the jambs.
- Install the interior and exterior finish trim as required. Apply a continuous bead of exterior caulk around the exterior perimeter of the frame, with particular attention to both ends of the threshold and the side-jamb-to-threshold joints.
- Keep all threshold weep holes, drainage channels, and other drainage paths open.

FINAL CHECK: Confirm that the frame is square and securely fastened, all reveal gaps are even, and both door slabs open, close, and lock smoothly without rubbing. Verify that all applicable weatherseals, door sweeps, and hardware are secure, the perimeter sealant is continuous, and all drainage paths remain unobstructed.

7 FIELD FINISHING REQUIREMENTS

FACTORY-PRIMED DOORS ONLY — COMPLETE BEFORE STEP 2

MATERIALS NEEDED

- Lint-free Cloth
- Mineral Spirits
- Rubber Gloves
- Masking Tape
- 4" Bristle Brush
- For water-based application: acrylic-based primer* / acrylic latex-based exterior grade paint
- 320-400 grit sandpape (For Smooth Doors ONLY)

PAINTING INSTRUCTIONS

SURFACE PREPARATION

- Lay door horizontally on saw horses or a table.
- Remove all the hardware and mask off anything you don't want painted, such as the glass insert.
- Smooth Doors ONLY: Lightly scuff/sand the surface with a fine sand paper.

DO NOT SAND TEXTURED FIBERGLASS.

- Wipe the surface clean and allow it to dry completely before applying the finish.
- Do not use hydro-carbon based solvents to clean the surface as such products may leave a residue.

PAINTING

- Apply exterior grade paint with a 4" brush beginning with the panels.
- It is a common practice to paint both door stiles the same color as the exterior side of the door. If applying a second coat, follow the manufacturer's instructions for drying time between coats.
- Continue to apply the top coat to all 6 sides of the door which have been bored and mortised for hardware- should be finished inside of the lock bore as well.

IMPORTANT TO NOTE: It is considered normal maintenance to re-apply the topcoat approximately every two years. Even a well-finished fiberglass door will be affected by exposure and weathering from sun, moisture, and air pollutants.

CAUTION: Read and follow all the manufacturer's safe use instructions before using any chemical product.