

Exterior Door Unit Installation Instructions

Single Door Installation:

Note: to install double door units and doors with sidelite(s) see 'Additional Instructions'.

Step 1: Prepare Rough Opening

- A. For rough opening dimensions, measure the prehung unit from outside jamb to outside jamb. Add 1/2" to width and 3/4" to height to determine rough opening. If opening is oversized, fillers/shims may be required. (Rough opening sizes are also listed in the full line catalog.)
- B.** Are the framed walls plumb to back and left to right, using a 6' level. - **Figure B.1**
- C.** Is the opening square, check by a "string test". Attach the string diagonally in the opening from the outside corners as shown. The strings must gently touch in the center. An opening out of plumb must be corrected prior to advancing the installation process. - **Figure C.1**

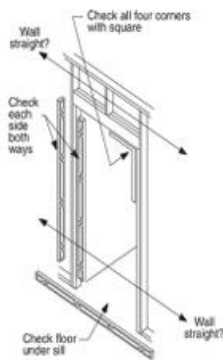


Figure B.1



Figure C.1

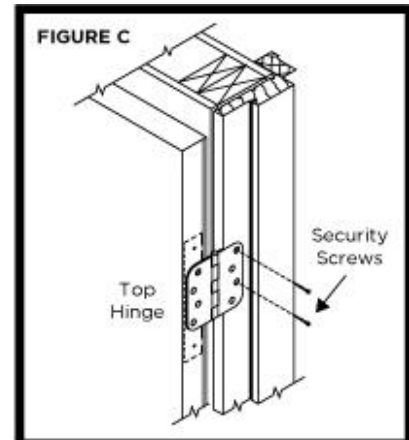
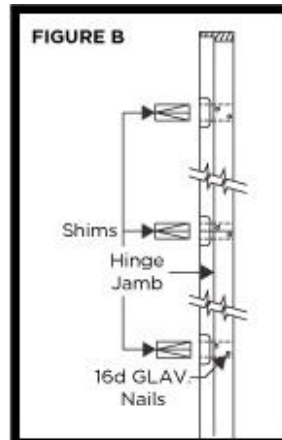
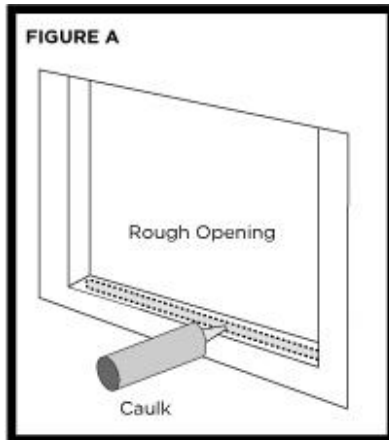
- D. Verify the sub floor is level? Fill, level and fix as needed for a flat smooth sub floor to set the door.
- E. Fix any problems at this time before proceeding to install the door unit.

Step 2: Place Unit into Opening

- A. Set the unit into a rough opening to verify fit, then remove.
- B. Thoroughly caulk floor/base area where the unit will be located with a high-grade silicone or non-hardening caulk. Place three 1/4" beads of caulk across the full width of the sub floor that will be under the sill. - **See Figure A.**
Proper caulking is essential: follow sealant manufacturer's instructions.
- C. Apply a 1/2" bead of caulk to the backside of the brickmould to ensure a weatherproof barrier.
- D. Position unit into opening and center by seating the sill down onto the caulk beads then tilting the top of the unit into the opening.
Do not fasten through the brickmould.

Step 3: Shim and Secure Hinge Jamb

- A. Use a 6-foot level and plumb the hinge side jamb both ways (right to left and inside to outside).
- B. Install screws (minimum 2-1/4") through the hinge side jamb into the studs, at each hinge location. Do NOT drive the screws completely in at this time. Place screws at each hinge location so shims can be placed behind hinges above screws. **Figure C.**
- C. The screws will keep the shims from falling down while adjustments are being made. For a single unit, fasten the jamb on the hinge side of the door. For units with sidelite(s), fasten the jamb on the hinge side of the door. For double door and patio units, fasten the fixed or passive side of the unit first.
- D. Remove the shipping bracket that holds the door closed. Check to see that the door swings freely.
- E. From the interior side, wedge shims between frame and studding at the three hinge locations and check for plumb - **Figure B.**
- F. Install two (2) security screws (minimum 2-1/4") in the top hinge -

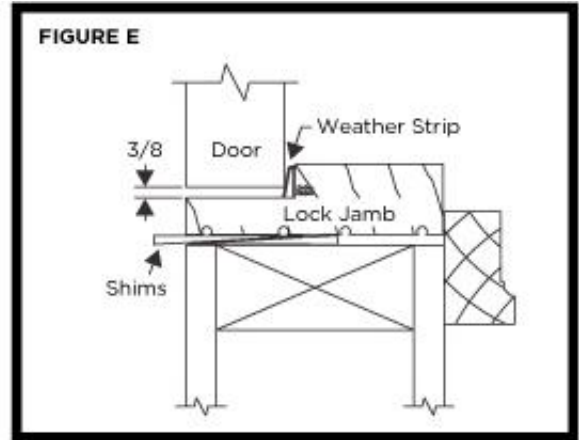
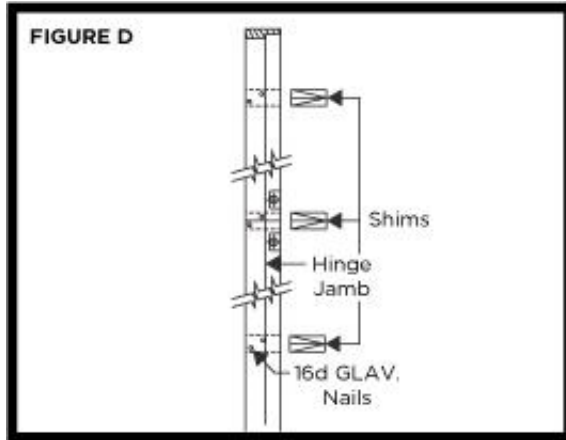


Step 4: Shim and Secure Lock and Head Jamb

- A. Close the door and adjust the jamb so the weatherstripping meets the door evenly from top to bottom.
- B. From the inside place three wood shims between the frame and the studding at three locations - **Figure D.**
- C. Be sure to adjust the three shims to plumb the jamb and provide a 3/16" margin between the door and the jamb - **Figure E.**
- D. Use a 6-foot level and re-check hinge jamb to ensure it is plumb and straight.
- E. Install screws (minimum 2-1/4") through the lock jamb, shims and into the studs.
- F. There should be uniform spacing between door and jamb. Check around entire perimeter of door for uniform spacing. Typically, 1/8" reveal is the standard spacing around the head, strike and hinge sides. Make any adjustments now to ensure uniform spacing around the door before proceeding,
- G. Add insulation material to the cavity between the opening and the unit to reduce air infiltration and heat transfer.

For double units:

- H. If the astragal and multi-point shoot-bolts do not fully engage; adjust the holes in the head jamb to accept the shoot-bolt.
- I. Shim above the mull post(s) and or mulled jamb(s), pre-drill and insert a screw through the frame into the header, at either side of mull post and or mulled jamb(s).



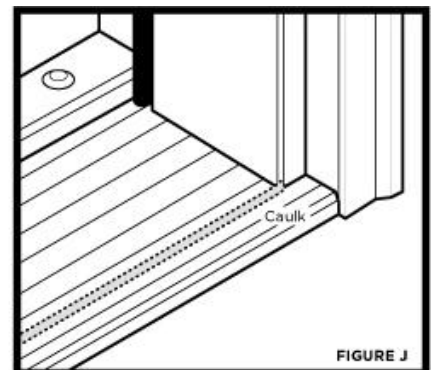
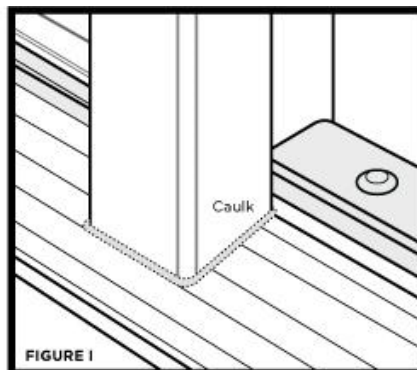
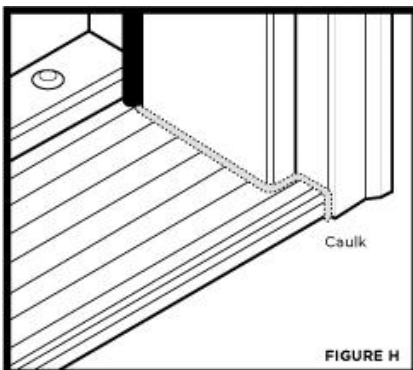
Step 5: Threshold Cap Adjustment

- A. If necessary, the threshold cap can be adjusted. Adjustment is accomplished by using a screwdriver to turn the jack screws up or down to adjust the threshold cap to the desired height. **1/8" maximum height adjustment**



Step 6: Caulk and Finish Unit

- A. Caulk around the brickmold and the joint between the sill, jamb and mull post. Use a high-quality silicone or non-hardening caulk.
- B. Ensure corner seals are securely in place in both lower corners of the unit. The thicker part of the wedge tucks under the weatherstrip – **Figure K**
- C. Putty and fill all screw holes.
- D. Tighten screws around lite frames for a secure weatherproof seal.



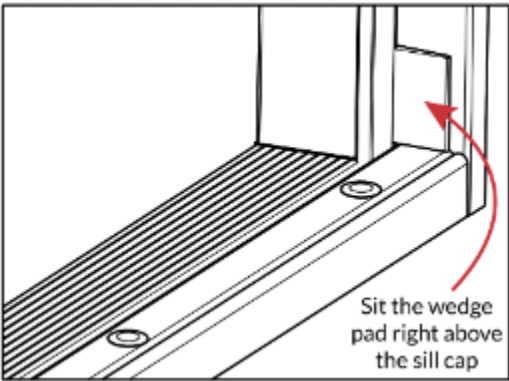


Figure K

- E. Sand entire surface of the door with a #220 grit sandpaper and wipe clean with a soft cloth.
- F. Clean the door with a mild detergent solution, rinse and let dry.
- G. Use only an exterior acrylic latex paint on the exterior side of the door. the interior side can accept either an exterior or interior acrylic latex paint. Apply per the paint manufacturer's instructions.
- H. Do not paint the weatherstrip or hinges. Do not close the door until the paint is completely dry.
- I. All 6 sides of the door should be painted or sealed to prevent damage or warping. Fiberglass composite doors are to be sealed and or painted inside and out. **Do Not Leave the Inside Unfinished. Failure to finish all sides of the door will void all warranties.**

Note: For Fiberglass Grained doors, see staining instructions for finishing doors on fiberglass door manufacturer's website. For the best finish, please follow their specific staining instructions. Leave protective sill cover or protective tape on the sill riser until construction is complete, where applicable.

Step 7: Install Hardware

- A. Install lock and strike plate per manufacturer's instructions.
 - B. If deadbolt is desired, remove edge filler plate (most steel doors) and drill door edge and face for deadbolt per manufacturer's template.
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Additional Instructions:

Door and Sidelite Installation:

Align Unit

- A. Complete steps 1 and 2.
 - B. Plumb, align, shim and secure the unit similar to steps 3 and 4. begin with the sidelight jamb nearest the door hinge jamb (step 3) then secure the remaining side jamb (step 4). Note: shim above both door jambs at the head jamb prior to securing the unit.
 - C. Follow steps 5 and 6.
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Double Door Installation:

Shim & Secure Inactive Hinge Jamb

- A. Complete steps 1 and 2.
- B. Add shims above the head jamb from the inside to maintain proper clearances and alignment.
- C. Plumb from the outside on the inactive door side only.

Shim & Secure Active Hinge Jamb

- A. Do steps 3 C, D and E.
 - B. Nail the head in place at the shim locations.
 - C. Nail the head and hinge jamb brickmold.
 - D. Follow steps 5 and 6.
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Policy

- A. All unfinished doors are subject to possible leakage around the glass, and around panels, and/or around lock openings until such time as they are properly finished in accordance with the manufacturer's directions. Failure to comply will void any warranty expressed or implied against such leakage and will not be considered a product failure.
- B. Proper installation is essential to prevent water leakage under normal conditions. Failure to properly caulk under and around any unit as per the installation instructions can cause water leakage and/or frame rot. installation Not in accordance with the manufacturer's directions will void any warranty expressed or implied against such leakage and will not be considered a product failure.
- C. All residential products are designed to be used under normal conditions. Any application which results in severe exposure should be considered a special circumstance and appropriate precautions should be taken before determining what product is best suited for a particular application. when in doubt, call for more information before proceeding.
- D. Manufacturer/Distributor reserve the right to refund the original purchase price or to repair/replace at our option any product which it deems to have failed. manufacturer/Distributor

will not be responsible for incidental or consequential damage. Frame rot can be considered one form of incidental or consequential damage resulting from water leakage, whether visible or not. Consumers are advised to report any signs of leakage immediately to the installer or to the Dealer where said product was purchased.

- E. Stainable Doors are less forgiving than painted doors. An overhang that minimizes the exposure to both is recommended. If that is not possible, understand that most clear finishes applied over stain will erode in sunlight. Frequent re-coating will be required to keep from damaging the finish topcoat and/or stain. peeling can be a result of such exposure.
- F. Door and frame must be finished within 30 days of installation. Failure to comply will void any warranty expressed or implied against peeling and or warping.

See Dyke Industries, Inc. Prehung Unit and Finish Warranty for details.