

Installation Instructions For Pre-hung Door Systems

These instructions apply to Dashwood natural-wood jamb and clad-wood jamb entry door systems.

Read all instructions before starting - PROPER INSTALLATION OF THESE PRODUCTS IS CRITICAL. AN ENTRY DOOR WILL NOT FUNCTION PROPERLY IF THESE INSTRUCTIONS ARE NOT FOLLOWED

1. Check door unit.

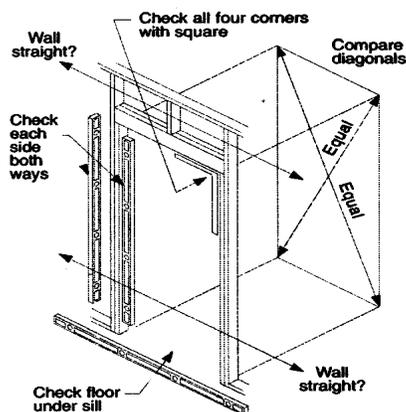
- Check width and height - measure width and height of frame, not brickmould.
- Remove cleats and packaging, but keep door fastened closed with transport clip. Do not remove clip or open door until instructed to do so.

2. Check and prepare opening.

- Is subfloor level and solid? *Provide a flat, level, clean bearing surface so the sill may be caulked and sealed to the opening.*
- *Scrape, sand, or fill as required.*
- Shim subfloor for floor covering clearance, if required – *Caulk under any shims.*
- Is opening square? Check all corners with a framing square.
- Double-check by comparing diagonal measurements. See figure #1 below
- Are framing and walls plumb? Use a 6-foot level and check both sides of opening, both ways - *Fix any problems now-if one wall is slightly out of plumb in one direction and the other wall is slightly out of plumb in the other direction then the door will not function properly.*

Opening size must match the requirements listed in the published DI price pages.

Figure #1 – check rough opening before installation



Are the wall surfaces around the opening in the same plane? There must be no “warps” or “jogs”. *Fix any problems now.*

Is the opening the correct size? Check it against the door frame size now, before installation. Opening should be frame height plus 1/2”, and frame width plus 1/2” to 3/4”.

3. **Caulk subfloor and sill bottom.**

- Lay door unit on edge or face so that bottom side of sill can be caulked. Place very large beads of caulk across full width at front edge of sill. Place one or more very large caulk beads at parallel lines across bottom surfaces which will bear on subfloor – see figure #2. On subfloor at opening, place very large beads of caulk that will match with those placed on sill. Run beads full width of opening.

Avoid callbacks due to leaks!

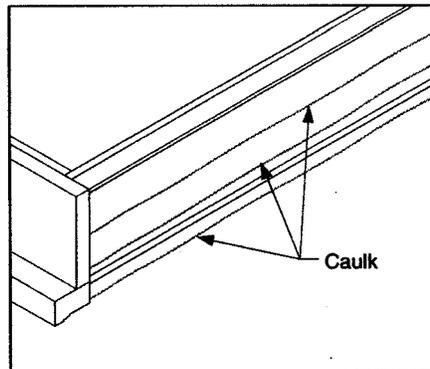
Use a generous amount of caulking to seal between sill and subfloor.

NOTE: If installing **units with sidelites**, place construction adhesive under points where door jambs will bear on floor. Complete installation before adhesive cures.

NOTE: If installing **double door** or **terrace units**, place construction adhesive under posts or point where doors meet at center. Complete installation before adhesive cures.

Figure #2 – caulking bottom of sill

Lay door unit on edge or face so that bottom side of sill can be caulked. Place very large beads of caulk across full width at front edge of sill. Place one or more very large caulk beads at parallel lines across bottom surfaces which will bear on subfloor.



4. **Place unit in opening and temporarily fasten hinge jamb.**

Do not fasten through brickmould – it is a decorative piece of trim and should not be used to secure the door

- **For single or double doors**, note hinge locations and mark jamb faces near door surface, for fastener placement later.
- Lift unit up. With top edge tilted away from opening, center unit and place sill down onto caulk beads. Tilt into place. Work from the side of the door that is weatherstripped (*outside* for **inswing** doors, *inside* for **outswing** doors).
- Plumb hinge side jamb both ways. Use a 6-foot level. Use 3" screws or 10d finish nails. Place two fasteners through jambs into studs. **For single or double doors**, refer to marks on jambs and place fasteners *under* each hinge location, so that shims may be placed behind hinges. Fasteners will keep shims from falling down while adjustments are made. Do not drive screws or nails completely in at this time.

For doors with sidelites, always fasten the sidelite jamb on the hinge side of the door first.

All fasteners used outside should be coated or galvanized to prevent rusting

5. Shim behind hinges and secure hinge jamb.

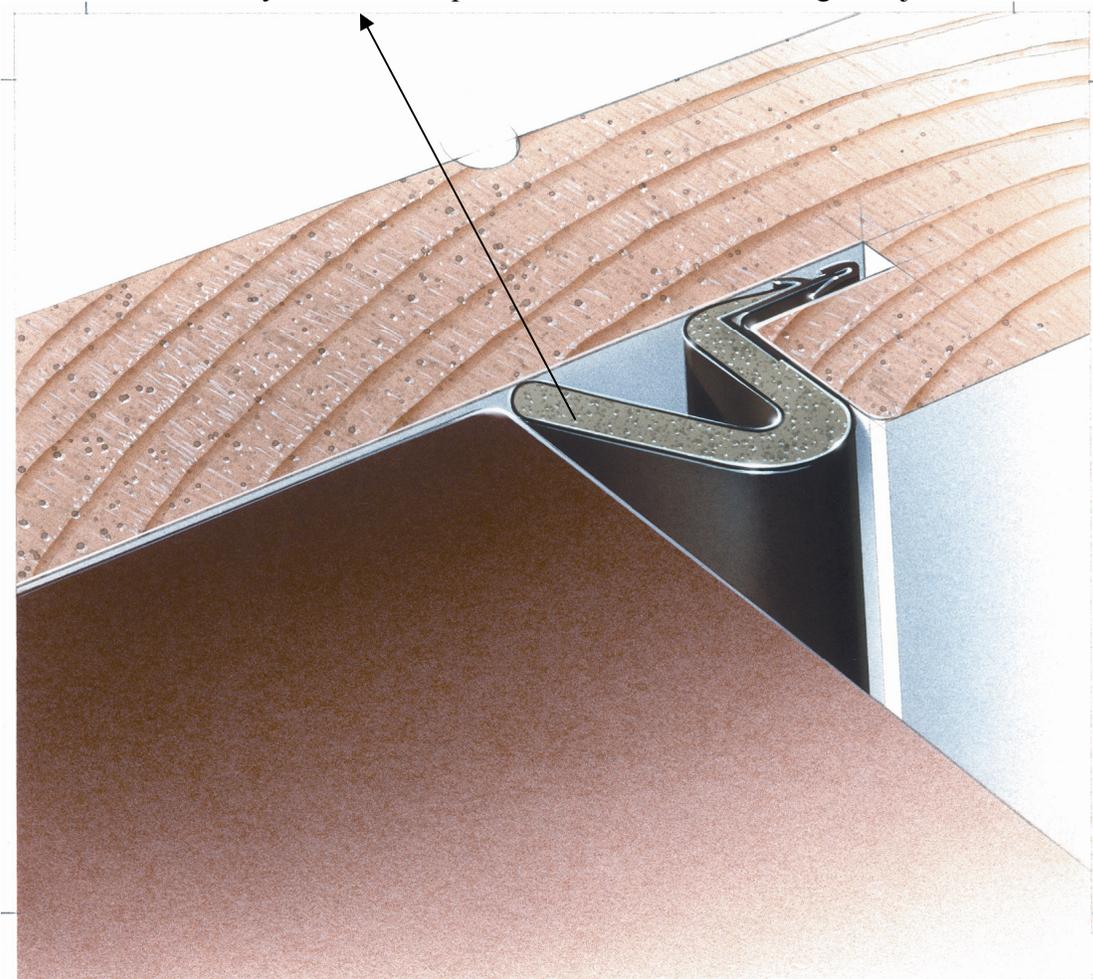
- Go through another opening to work on swing side of door. Leave door fastened closed with transport clip. Shim above fasteners, behind each hinge, between jamb and opening.
- Recheck hinge jamb to ensure it is plumb and straight. Use a 6-foot level. Go back through another opening to other side of door to secure hinge jamb. Set nails or finish driving screws.

6. Adjust rest of frame and fasten.

- From swing side of door, shim near top and bottom of un-fastened jamb.
- Make frame adjustments so margins between door and frame are all even.
- Adjust frame so frame face is flush with door face all around. It is important that these two surfaces be flush or that the slab is inset by 1/32"

NOTICE: *Always check the top latch-side corner to ensure that the slab is flush to the frame when the door is in the closed position. See Figure #3*

Figure #3: Must have constant distance here when the door is closed
Distance from jamb stop to door slab should be ~1/2"
Always check the top latch corner before securing lock jamb



- From the weather-strip side of door, check weatherstrip margins and contact. Adjust frame as required so contact and margins are equal all around door. NOTE: For **double door units**, make adjustments that affect alignment and margins and weatherstrip contact *between doors*. Recheck everywhere for plumb and square. Secure unfastened jamb with 3" screws or 10d finish nails. Place fasteners through jamb near top and bottom where frame is shimmed. Set nails or finish driving screws.

7. Unclip and open door, install hardware & complete jamb fastening.

- Remove transport clip. Open and close door to ensure smooth operation.
- Remove small margin shims, located on the head jamb, between door and jambs.
- With door open, at hinges where labels indicate, drill 1/8" dia. pilot holes and fasten #10 x 2-1/2" screws (provided) through hinges to anchor door frame and prevent sagging.
- Close door. Carefully shim between jamb and opening behind latch area. Open door and install lockset hardware such that the door is flush to the frame when it is closed, or in 1/32". Adjust strike in or out for proper door operation and tighten screws. Check top corner again to ensure that the slab touches the w/s.

NOTE: If you have ordered a system with glass boxed sidelites attached to a single door (non-standard), ensure that you adjust your screw length so that you do not break the glass.

8. Anchor sill. Adjust sill. (Some sills)

- For sills with screw-adjustable thresholds, follow directions on sill to adjust threshold to meet door bottom gasket. For sills prepared for anchor screws, place #10 screws through sill into subfloor.

Check or install corner seal pads. (Swing-in doors only)

Adjustable Sills

- For sills with adjustable thresholds, Dashwood installs the corner pads for you. These pads are an important part of the system and must be in place in order for the door to seal properly. If the threshold needs adjusting, remove the pads before making the necessary adjustments. When this is complete, follow the instructions to reapply the pads – see figure #4.

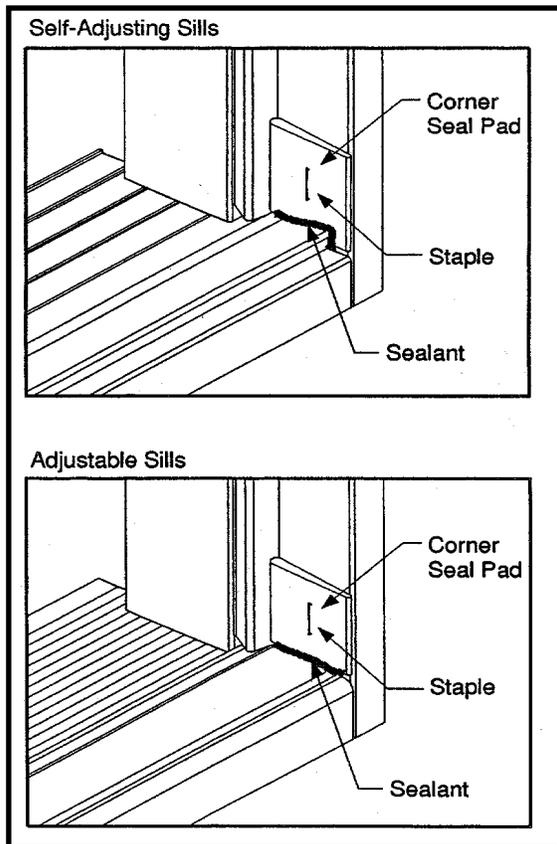


Figure #4

To apply the corner pads, ensure that the tapered side of the pad faces direction from which the door will close.

NOTE: *If the door has a public access sill, then the door must be installed in a covered and/or protected area. This is due to the fact that there is no dam on the sill to protect against air and water infiltration.*

9. Additional frame anchoring.

- **Doors with Sidelites:**

- Shim above posts or jambs separating doors and sidelites. Screw or nail through frame into header, adjacent to shims.

- **Double Doors:**

- Screw or nail through frame into header, at center where doors meet. *Do not shim.*

- **Terrace Doors:**

Shim above mullion posts and screw or nail through frame, into header, at either side of post.

Weatherproof, finish and maintain entry door system.

- Caulk around entire unit on “weather” side; seal brickmould to siding or facing, seal front bottom edge of sill (see figure #5), seal all joints between jambs and mouldings. Properly insulate between the studs and the outside of the frame to help prevent drafts.



Figure #5 Must caulk around the entire perimeter of the door

Place and set galvanized finish nails through brickmould around perimeter.
Cover all countersunk fasteners with exterior-grade putty.

- Seal joints between exterior hardware trim and door face to prevent air and water infiltration.
- Provide and maintain a properly installed cap flashing to protect top surfaces from water damage.
- Paint or stain according to Therma-Tru instructions. Do not paint gasketing or weatherstrip.
- Bare unprotected wood will weather and degrade and change color. All bare wood and steel surfaces exposed to weather must be primed and painted or stained and top coated within two weeks of exposure. Paint all steel edges. Please ensure that the bottom edge of the steel is painted when complete.
- Swing-out doors must have all edges – sides, top, and bottom – finished.
- Inspect and maintain these edges as regularly as all other surfaces.
- Maintain or replace sealants and finishes as soon as any deterioration is evident. For semi-gloss or glossy paints or clear coats, do this when the surface becomes dull or rough. More severe exposures require more frequent maintenance.
- All Dashwood doors must be finished and maintained in accordance with these recommendations - failure to do so may affect the applicable warranty.

Finishing instructions.

Work only when temperatures are between 50° and 90°F and with the humidity less than 85%. Do not finish in direct sunlight.

STEEL and SMOOTH-STAR® Doors:

To Paint Doors: Clean first with mild detergent and water or use a TSP (tri-sodium phosphate) solution. Rinse well and allow to dry completely. Use high-quality acrylic latex house paint, following manufacturer's directions for application. Use exterior grade finishes for outside surfaces. Paint edges and exposed ends of door.

To Paint Doorlite Frames: Remove any excess glazing sealant by first spraying with a window cleaner or water. Use a single edge razor blade to score the glazing along the edge of the frame. Holding the razor blade at a 45° angle, scrape glazing from glass. Wipe remaining residue off with window cleaner or mineral spirits. Clean frame with a mild detergent and water, or use a TSP solution. Rinse well and allow to dry completely. Mask off glass. Prime doorlite frames with an alkyd or acrylic-based primer. Allow primer to dry before applying finish paint coats. Use high-quality acrylic latex house paint, following paint manufacturer's application instructions. Use exterior grade finishes for outside surfaces.

CLASSIC-CRAFT® and FIBER-CLASSIC® Doors:

To Finish Doorlite Frames and Panel Inserts: Remove any excess glazing sealant by first spraying with a window cleaner or water. Use a single edge razor blade to score the glazing along the edge of the frame. Holding the razor blade at a 45° angle, scrape glazing from glass. Wipe remaining residue off with window cleaner or mineral spirits. Mask off glass.

To Paint Doors: Clean first with mild detergent and water or use a TSP (tri-sodium phosphate) solution. Rinse well and allow to dry completely. Prime with an alkyd or acrylic-based primer. Allow primer to dry completely, then paint with oil-based or acrylic latex house paint, following paint manufacturer's application instructions. Use a primer and paint that are compatible. Use exterior grade finishes for outside surfaces. Paint edges and exposed ends of door.

To Stain Fiber-Classic or Classic Craft Doors: Clean first with a clean cloth and mineral spirits and allow to air dry OR wash door with a mild detergent and water, or a TSP (tri-sodium phosphate) solution. Rinse well and allow it to dry completely. For stained surfaces, we only recommend the use of the stain and clear coat products found

in the Therma-Tru Finishing System kit. Apply stain with a rag. Allow between 5-10 minutes for stain to “set-up”, depending on the desire for a lighter or darker shade. Brush with the natural bristle brush in the direction of the grain to “feather” or blend the stain to a rich wood look. Clean brush tips frequently with a dry rag to remove excess stain. Stain and brush out each grained section one at a time until completed. Allow a minimum of 48 hours drying time for the stain to cure, before applying the clear coat. See the Therma-Tru Finishing Kit Instructions for complete details.

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A – document creation	June 4, 2004	