

# INSTALLATION INSTRUCTIONS FOR PREHUNG ENTRY DOORS

**IMPORTANT:** Read and understand the entire procedure before attempting to install the unit. Please note that this is a supplemental instruction. Installation instructions will also be attached to the purchased unit.

## STEP 1. SELECT DOOR AND SIDELITE COMBINATIONS

- All doors pictured assume you are standing on the outside of the building.
- Door sizes used for this form are: 32" x 80" and 36" x 80".
- Rough openings are calculated using 14" wide sidelites. Deduct 2" from the rough opening width for each 12" sidelite or deduct 3-3/4" from RO width for each 10" sidelite.
- RO = Rough Opening (door viewed from the outside of building) Rough Opening Heights Inswing – 82", Outswing – 81 1/8".
- When selecting a transom consult a store associate for rough opening height specification.
- Rough opening width is measured from the inside of the stud frame to the inside of the opposite stud. Do not measure from gyproc, moulding, or casings.
- Rough opening height is measured from the floor to the bottom of the header (top of rough opening). Rough opening height required is 82" for all doors which open in and 81 1/8" for doors which open out.
- Rough opening size allows 1/4" shim space on each side of the door.
- To measure the rough opening on a door that is being replaced, remove interior casings to ensure accurate measurements from stud to stud and from floor to header.
- Note: It is easier to reduce the rough opening size by shimming or adding wall studs than it is to enlarge a rough opening.

<b>DOOR SIZE</b>	<b>SINGLE DOOR RO WIDTH</b>	<b>SINGLE DOOR w 1 S/L RO WIDTH</b>	<b>SINGLE DOOR w 1 S/L RO WIDTH</b>	<b>DOOR SIZE</b>
32"	<input type="checkbox"/> 34-1/4"	<input type="checkbox"/> 49-3/4"	<input type="checkbox"/> 49-3/4"	64"
36"	<input type="checkbox"/> 38-1/4"	<input type="checkbox"/> 53-3/4"	<input type="checkbox"/> 53-3/4"	72"
				<b>DOUBLE DOORS RO WIDTH</b>
				<input type="checkbox"/> 66-3/4"
				<input type="checkbox"/> 74-3/4"

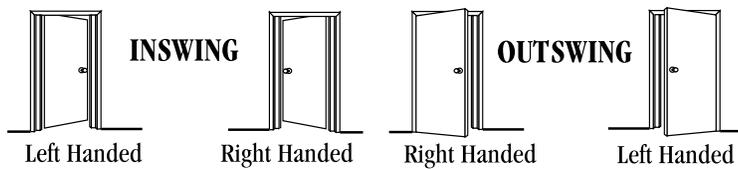
**NOTE:** Rough openings shown for 14" sidelites. For 12" sidelites deduct 2" for each sidelite. For 10" sidelites deduct 3-3/4" for each sidelite. For rough openings for doors with transoms, please see a Millwork Associate.

## STEP 2. DETERMINE DOOR FRAME SIZE

- 2" x 4" or 2" x 6" construction simply refers to the width of lumber used to frame the rough opening.
- Jamb is wider than framing lumber to allow the jamb to overlap the wallboard, panelling, siding etc.
- Brickmold covers the gap between the rough opening and the door jamb on the exterior wall and door casing should be applied on the interior.

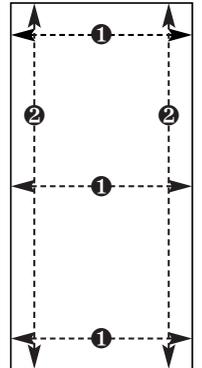
## STEP 3. DETERMINE DOOR SWING

- All double door systems allow for both doors to open. However, during normal usage one door is stationary (inactive door) while the other door opens and closes (active door).
- Outswing units supplied with a bumper type threshold.
- All doors pictured assume you are standing on the outside of the building.

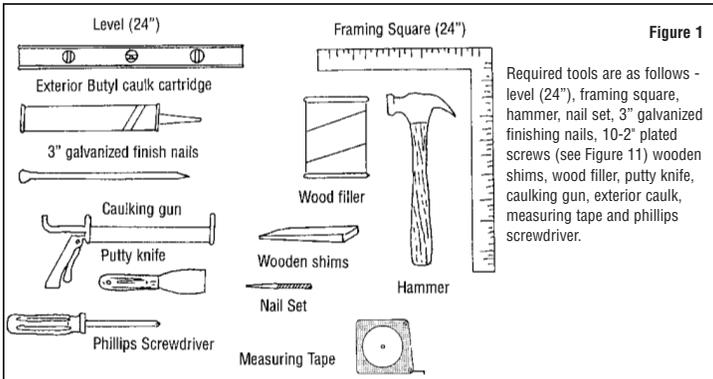


### How to measure for your new Prehung Entry Door

- Measure width at top, center, and bottom of opening between the studs. What is the smallest measurement? (Rough Opening Only)
- Measure height at both sides of the opening from the floor up to the bottom of the header. What is the smallest measurement? (Rough Opening Only)

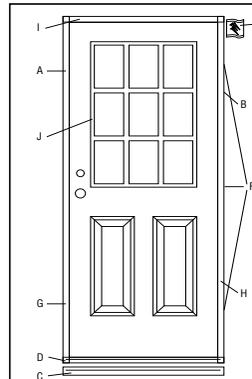


## STEP 4. TOOLS AND SUPPLIES



**Figure 1**  
Required tools are as follows - level (24"), framing square, hammer, nail set, 3" galvanized finishing nails, 10-2" plated screws (see Figure 11) wooden shims, wood filler, putty knife, caulking gun, exterior caulk, measuring tape and phillips screwdriver.

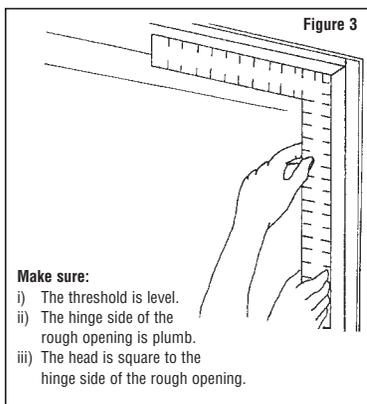
## STEP 5. COMPONENTS OF A PREHUNG ENTRY DOOR UNIT



- A - Primed Jamb
- B - Compression Weatherstripping
- C - Thermally Broken Sill
- D - Door Sweep (installed)
- E - Screw Bag and Installation Instructions
- F - Hinges (3)
- G - Lock Side Jamb
- H - Hinge Side Jamb
- I - Header
- J - Glass Insert

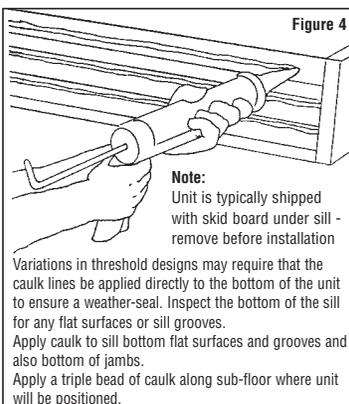
**Figure 2**

## STEP 6. SQUARE AND PLUMB ROUGH STUD OPENING



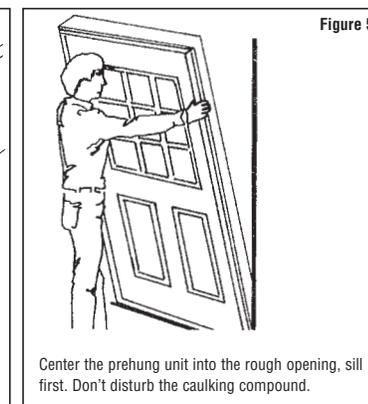
- Make sure:**
- i) The threshold is level.
  - ii) The hinge side of the rough opening is plumb.
  - iii) The head is square to the hinge side of the rough opening.

## STEP 7. APPLY WATER PROOF CAULKING



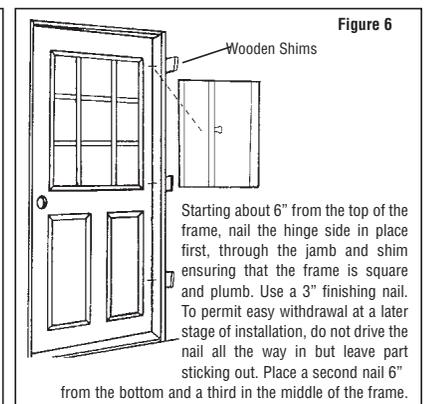
**Note:** Unit is typically shipped with skid board under sill - remove before installation  
Variations in threshold designs may require that the caulk lines be applied directly to the bottom of the unit to ensure a weather-seal. Inspect the bottom of the sill for any flat surfaces or sill grooves. Apply caulk to sill bottom flat surfaces and grooves and also bottom of jambs. Apply a triple bead of caulk along sub-floor where unit will be positioned.

## STEP 8. INSTALL PREHUNG UNIT INTO ROUGH OPENING



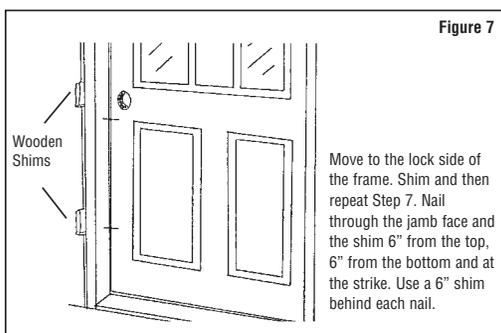
Center the prehung unit into the rough opening, sill first. Don't disturb the caulking compound.

## STEP 9. TEMPORARILY NAIL HINGE SIDE OF FRAME



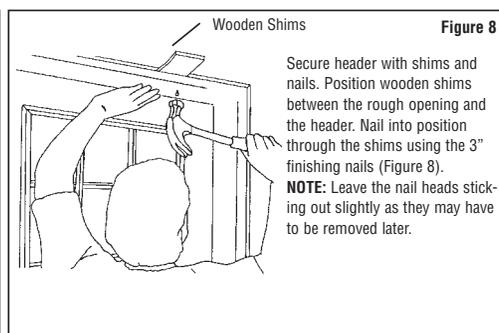
Starting about 6" from the top of the frame, nail the hinge side in place first, through the jamb and shim ensuring that the frame is square and plumb. Use a 3" finishing nail. To permit easy withdrawal at a later stage of installation, do not drive the nail all the way in but leave part sticking out. Place a second nail 6" from the bottom and a third in the middle of the frame.

## STEP 10. TEMPORARILY NAIL LOCK-SIDE OF FRAME



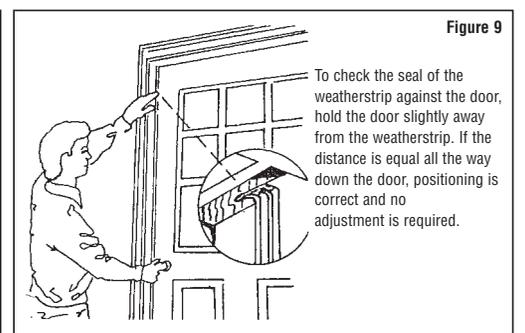
Move to the lock side of the frame. Shim and then repeat Step 7. Nail through the jamb face and the shim 6" from the top, 6" from the bottom and at the strike. Use a 6" shim behind each nail.

## STEP 11. TEMPORARILY NAIL REMAINDER OF FRAME



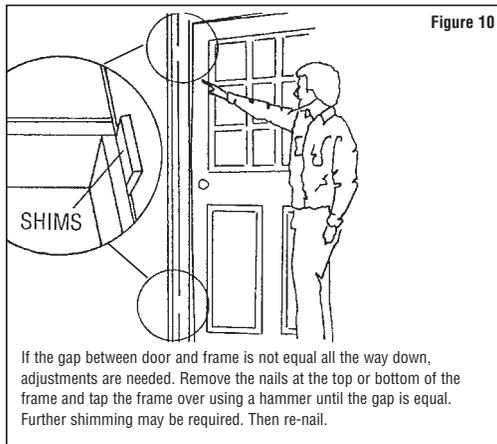
Secure header with shims and nails. Position wooden shims between the rough opening and the header. Nail into position through the shims using the 3" finishing nails (Figure 8).  
**NOTE:** Leave the nail heads sticking out slightly as they may have to be removed later.

## STEP 12. CHECK WEATHERSTRIP SEAL

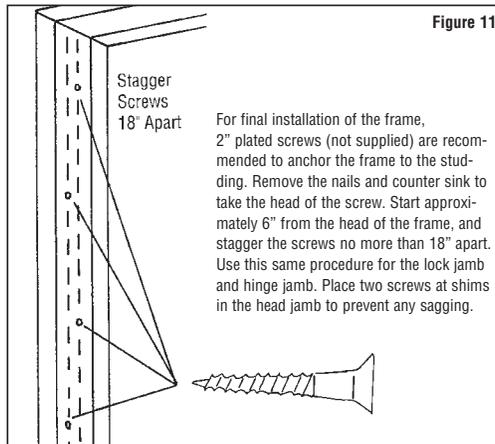


To check the seal of the weatherstrip against the door, hold the door slightly away from the weatherstrip. If the distance is equal all the way down the door, positioning is correct and no adjustment is required.

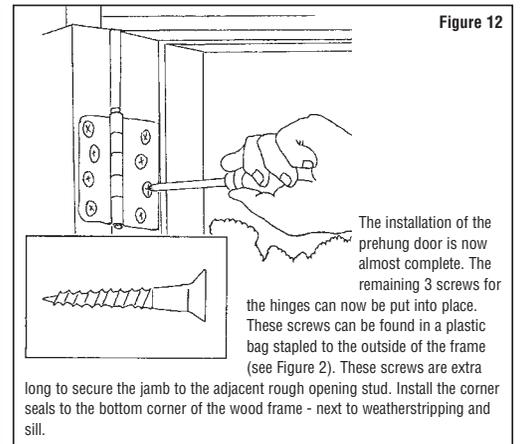
## STEP 13. MAKING ADJUSTMENTS



## STEP 14. FINAL INSTALLATION OF FRAME



## STEP 15. INSTALL REMAINING SCREWS INTO HINGES



# HOW TO PAINT PREHUNG ENTRY DOORS

## Masonite® Steel and Smooth Fiberglass Entry Doors

### IMPORTANT

Please read and understand the entire painting procedures before attempting to finish the door. Be sure to follow the paint manufacturer's detailed application instructions on the product label.

#### Requirements:

Find a well-lit finishing location that is dust-free, well ventilated and within the climate conditions recommended by the coating manufacturer. Recommended temperature should be between 50°F - 90°F (10°C - 32°C) degrees Fahrenheit.

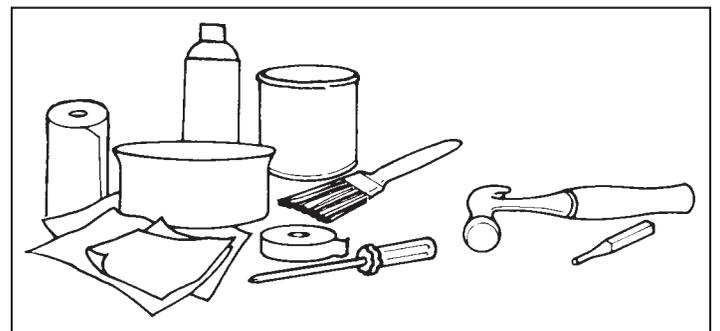
#### You will need the following:

##### Coatings and accessories:

- Mineral spirits or acetone
- Soapy water (mild detergent in warm water)
- One pair of rubber gloves
- Stir sticks
- Masking tape
- Safety razor blades
- Paint
  - High-quality, oil-base or 100% acrylic water-based latex paint of desired color
  - Laquer paints are not recommended
- 2-1/2" wide brush appropriate for type of paint (A natural bristle brush should be used with oil-based paint and a synthetic bristle brush should be used with latex paint.)
- 220 grit sandpaper

##### Tools:

- Hammer
- Center punch
- Phillips screwdriver
- Safety glasses
- Air-less sprayer (optional)



**Note:** Painting instructions specifically refer to the door and sidelite panels. Oil-based paint should not be used on wood frame components (frames & brickmould).

## HOW TO START

Doors can be painted either hanging in the opening or removed from the frame (recommended). Should you remove the door, take care to protect it from damage. Sidelites will need to be finished vertically. To remove the door from the frame, use a center punch and hammer. Strike the hinge pin from the bottom until it pops up (for outswing & self closing units – hinge leaf must be removed from the door). Drive the hinge pin as far as possible with the punch. Using a pair of pliers, grasp the hinge pin and, while twisting, pull the pin out. Remove all door hardware.

## Prepare the Door Surface

**IMPORTANT:** For adequate paint adhesion the door surface must be free of dust, debris and other surface contaminants.

**Steel** doors should be wiped clean with a solvent such as acetone or mineral spirits. Allow the cleaning solvent to dry completely – until there is no residual odor. Once wiped clean, the door must be lightly sanded with a 220-grit sandpaper. After sanding, the door must be washed with a mild detergent in warm soapy water, rinsed and then dried.

**Fiberglass** doors should be wiped clean with a solvent such as acetone or mineral spirits. Allow the cleaning solvent to dry completely – until there is no residual odor. Next, the door must be washed with a mild detergent in warm soapy water, rinsed and then dried.

Mask (tape) off all surfaces that will not be painted including all glass.

## Painting the Door

Use exterior, high quality, oil-based or 100% acrylic water-based latex paint of desired color. High quality interior paint can be used on the interior surface of the door only. Laquer paints are not recommended.

Follow the manufacturer's instructions for paint application by using either a brush or a handheld sprayer.

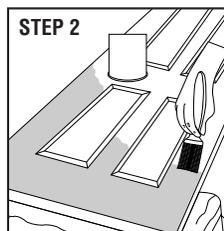
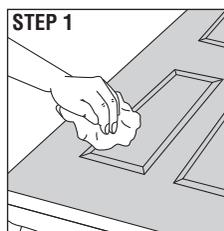
#### Painting:

Put on gloves, safety glasses, and prepare your materials. Before starting, and occasionally throughout the project, stir the paint using smooth strokes until the texture is creamy – avoid creating bubbles.

#### Finishing with Brush Application:

Dip the brush into the paint, then use the rim of the container to release any excess paint. Apply paint as evenly as possible while still wet.

Brush strokes should follow the grain direction of the selected area. Start working on the panels and sticking (moulding profiles), then the vertical center mullion, next the horizontal rails, then the vertical stiles, and finally, the outside edges (stiles and top rail, see figure 1 for details). Doors that are outswing or have adjustable surface mounted sweeps will need to have the sweep removed and the bottom rail painted.



#### Finishing with Spray Applicator:

Follow the manufacturer's instructions for thinning the paint; (i.e. thin latex paint with water or oil-based with solvent for better atomization and spraying results). Strain paint before filling the spray pot.

The door can be painted in horizontal (recommended) or vertical position; however, the paint should be applied in continuous strokes extending six inches past the edges of the door. This will ensure uniformity across the entire surface of the door. Multiple light coats are better than one heavy coat.

Avoid runs as a result of overspraying.

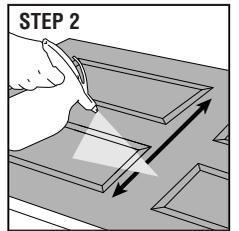
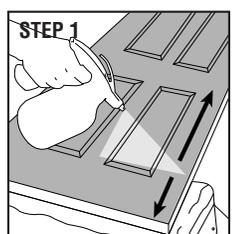
#### Drying:

**IMPORTANT:** Let the paint dry completely, following the manufacturer's recommended drying time before handling the painted surface or applying a second coat. If possible, allow the door to dry in a horizontal position to minimize paint runs. High humidity and/or low temperatures may extend your drying time.

**WARNING:** Doors painted with dark colors or doors with attached storm doors, may become very hot to the touch in direct sunlight.

Do not paint the weather strip and do not close door until paint is dry (see paint manufacturer's specifications on minimum drying time).

To maintain product warranty: Paint the door, frame, header and brickmould within 45 days of installation. Repainting every 1 to 7 years will be required, depending upon weather exposure.



**Masonite Helpline 1-800-663-Door (3667)**  
**9:00 am - 9:00 pm Monday - Saturday**  
**10:00 am - 4:00 pm Sunday, EST**