

Hollow Metal Frame For Existing Masonry Opening

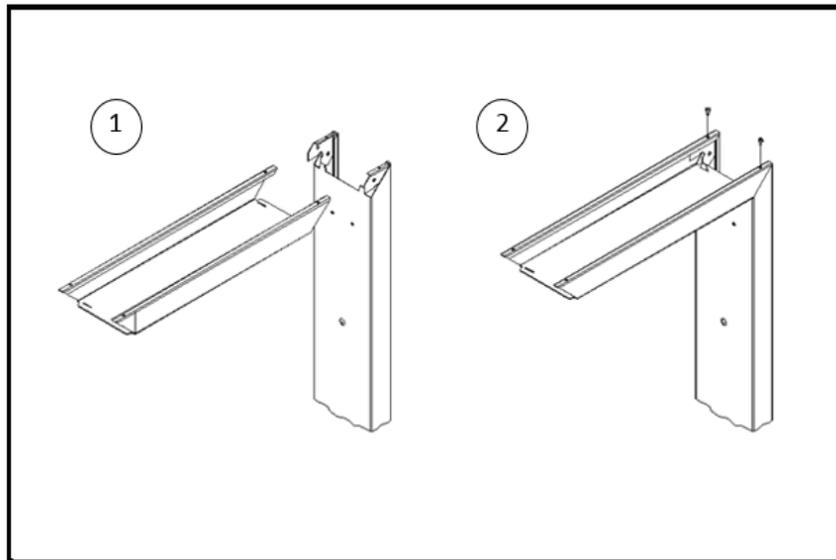
Parts List

- One header
- Two legs
- Four #8 – 1/2 sheet metal screws
- **Fasteners and other screws are not provided

Unpack shipment, check order, and make sure all parts are present according to the Parts List.

Assembly Instructions For 3-Piece Frames (continue to page 2 if frame is welded/1-piece)

1. Lay out the two legs and the header on the ground.
2. Line up one of the legs with the corner of the header and overlap the corner tabs.
3. Insert jamb tabs on the leg into the corresponding openings on the header.
4. Repeat steps 3 and 4 for other leg.
5. Use a Phillips screwdriver to secure screw into the proper pre-drilled holes to attach all three pieces of the frame.

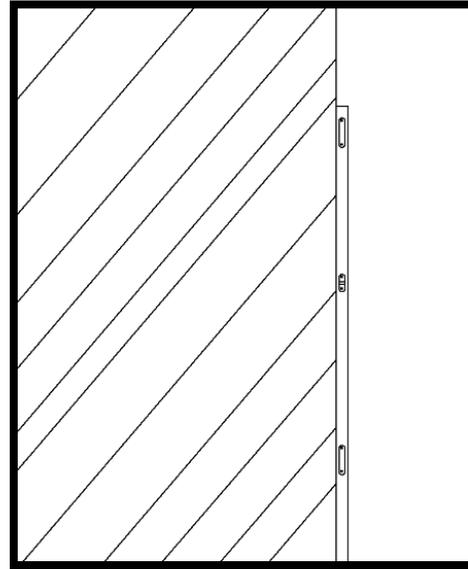
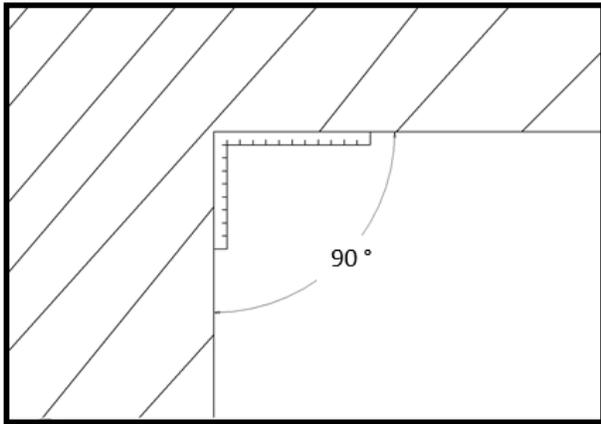


Bill of Materials for Installation

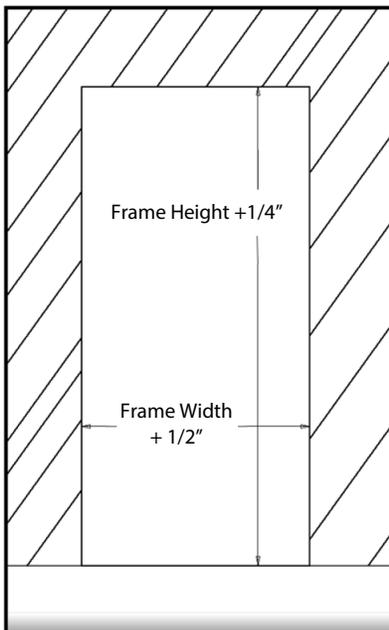
- | | |
|------------------|-------------------------------------|
| - Framing square | - Architectural drawings of product |
| - 6' level | - Wood spreader bar/PLS tool |
| - Tape measure | - Shims |
| - Chalk line | - Backer rod or caulking |
| - String | |
| - Tape | |

Installation Instructions

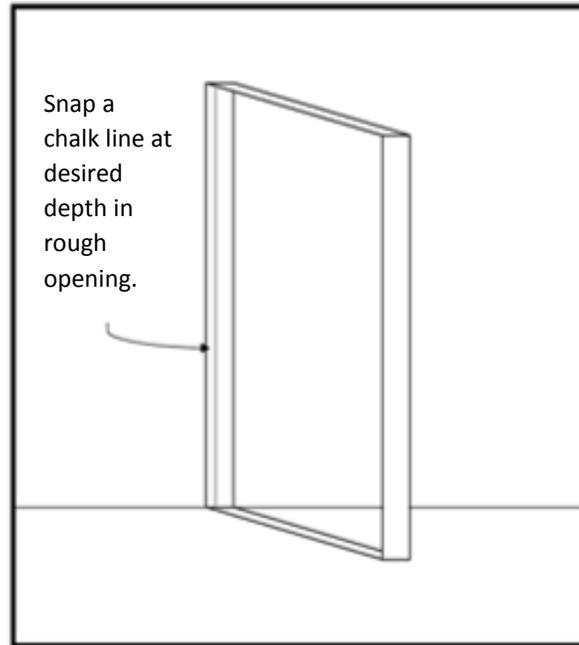
1. Measure the rough opening to ensure that the frame will fit. Run a long string diagonally from each corner to check alignment of the rough opening. Check alignment on the other side.
2. Use a framing square to confirm that the corners of the rough opening are square.
3. Use a 6' level to check level and plumb of the rough opening walls. Check level of floor. The frame should be installed level at the highest side and frame should be shimmed on the lower side.



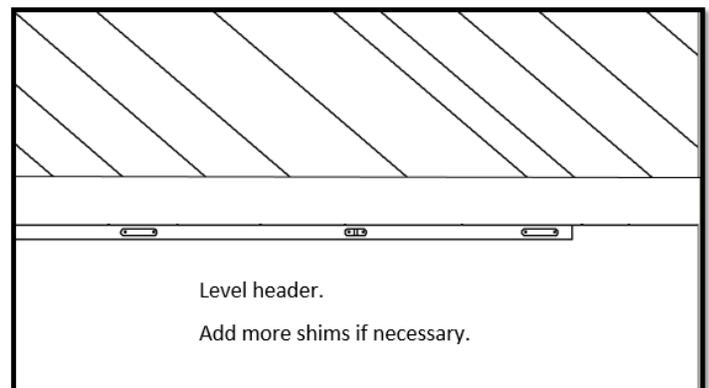
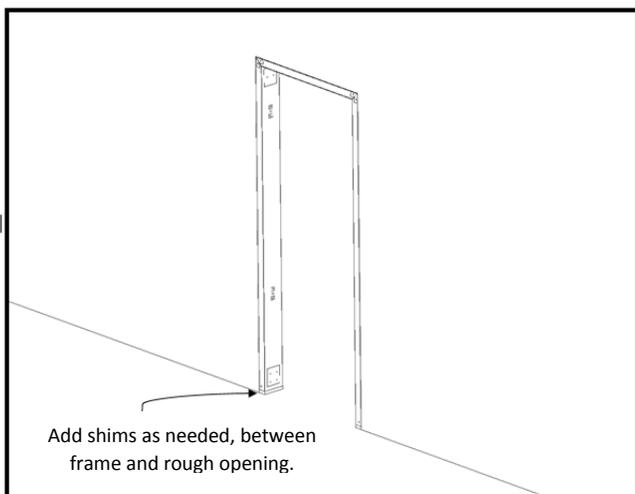
4. Refer to order to confirm that the rough opening dimensions are correct. This will help determine the amount of shimming needed to install the frame. The rough opening should be at least the width of the frame + 1/2" and height of the frame + 1/4".



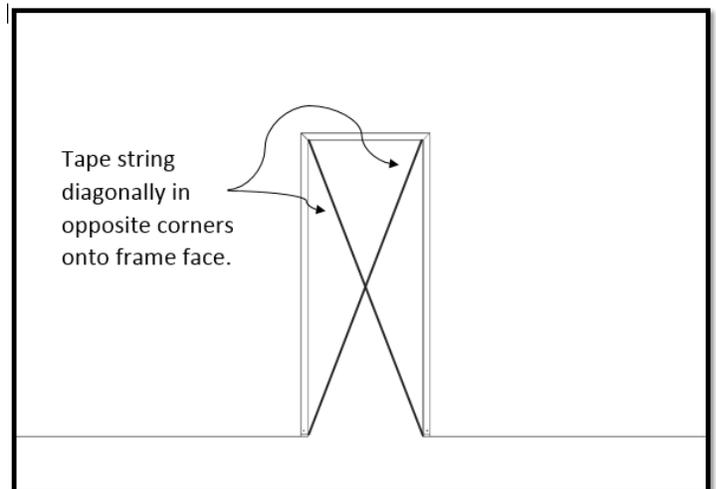
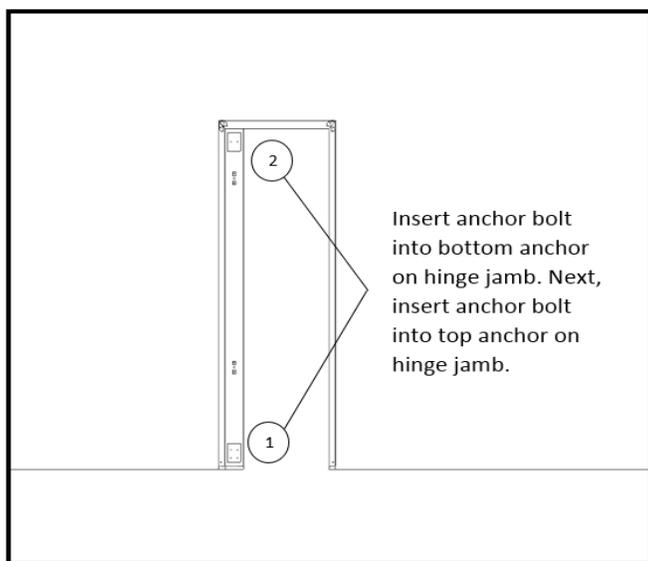
5. On the hinge side of the rough opening snap a chalk line at desired depth in the rough opening. This will determine the frame location on the face side, as frames are not always centered in the opening.



6. Place frame inside opening and add shims as needed to the bottom of the frame on the lock side. This will ensure the hinge side stays tight to the wall. Divide the shims evenly between the two jambs if the amount of shims needed exceeds the maximum 1/4". For the best results, use tapered shims between anchors and the wall (above the holes for bolts).
7. Level the header, use more shims under the bottom of the frame if necessary.



8. Line up the hinge jamb with the chalk line and confirm level and plumb of hinge jamb.
9. Drill appropriate size and depth holes (per fastener manufacturer's instructions) for one-piece anchor bolts.
10. For the hinge jamb side, drill and secure one anchor at a time. Insert anchor bolt into hinge jamb starting with the bottom anchor and tighten securely following bolt manufacturer's recommended torque. Insert top bolt in the hinge jamb, checking frame alignment before installing. Continue this process to drill and secure the remaining bolts.
11. Tape a long string to the face of the frame in each of the opposite corners, running diagonally, to check alignment of frame. You may need to move one string from inside to the outside to make sure of correct alignment. Leave the strings on the frame until the frame is completely anchored.
12. Check alignment of frame with the two cross strings.



13. Check for plumb and square the strike jamb; shim if necessary. **Any shims used here should be placed directly above the anchor points.
14. Repeat steps 10 and 11 to anchor the strike jamb side to the wall (or other hinge jamb on paired application).
15. Place shims between header and wall if necessary.
16. Backer rod and/or caulking should be used where gaps occur between the frame and the wall. See specified caulk manufacturer's instructions for details. **Refer to architectural specifications for the appropriate sealant material to be used at fire or smoke control openings. It is typical that gaps are sealed as part of the installation process.