## How to Install Punch and Dimple Frames (Welded or KD) in Masonry Openings

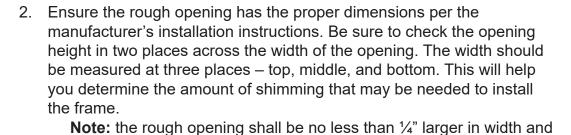


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A video demonstration of these procedures can be viewed at <u>www.steeldoor.org</u>.

In any building project, secure openings require the proper installation of a door frame. In this video, we will demonstrate how to install punch and dimple frames in masonry openings.

- 1. Locate the correct frame by matching the opening number to the number on the frame.



 $\frac{3}{16}$ " in height than the frame. The maximum rough opening should



not exceed  $\frac{3}{8}$  larger than the frame width and  $\frac{1}{4}$  in height.

- Check the opening for plumb, level, and square. Use a 6' level for both 3. jambs and a framing square for the corners. If the rough opening is out of spec for plumb, level or square, do not proceed with installing the frame.
- 4. Determine the placement of the frame within the width of the wall per the job specification. It may be centered or offset to one side of the opening. If installing a knock down frame, assemble the frame per the manufacturer's instructions



If you are installing a welded frame, remove the shipping spreader bar 5. before placing the frame in the opening. Note: Temporary shipping bars must be removed and are NOT to be used as spreader bars to set the frame.



6. Make a mark at the top and the bottom of the masonry wall. Snap a chalk line between the two marks. Set the frame into the opening using the chalk line on the wall to locate it.



7. Install a setting spreader bar at the bottom of the frame.



8. Verify that the head is level. If it is not level, shim under the bottom of the frame.



9. Shim at the bottom of the frame, keeping the hinge side tight to the wall and adding shims to the lock side to tighten the frame to the spreader bar. If more than a ¼" shim is needed, divide the amount of shims evenly between the two jambs. Make sure all four rabbets of the frame touch the spreader bar. This will prevent a twist in the frame.



10. Add shims to the jambs and measure to ensure the appropriate width is maintained. Align the hinge jamb to the chalk line. Check the jamb for level and plumb.



11. Determine the size hole needed for the anchor per the installation instructions or project specifications. We recommend drilling and anchoring one anchor at a time. Start with the bottom anchor on the hinge jamb. Drill and install the anchor. Ensure the frame remains plumb and level and then tighten the anchor to the manufacturer's recommended torque.



12. Verify the frame's alignment is correct, then install the top and middle anchors, checking the frame alignment as each anchor is installed. Also check the jamb for straightness with a level as each anchor bolt is installed.



13. Tape string to the face of the frame in opposite corners running diagonally to confirm they are in alignment. Leave the string in place until the frame is completely installed.



14. Begin anchoring the strike jamb in the same sequence as the hinge jamb. Be sure to check the width at the center of the frame as you install the anchors.



15. Remove the string and spreader bar. Fill any gaps between the frame and wall with caulk or a backer rod. Your frame installation is complete and is now ready for the next phase of construction.

The procedures in the manual are only guidelines. Please follow all applicable building codes, standards, and accepted practices specific to your geographic location.

For more information or to watch the video, visit <u>www.steeldoor.org</u>.



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