TIMELY
PREFINISHED STEEL DOOR FRAMES
A DIVISION OF S.D.S. INDUSTRIES, INC.

Steel Sub Frame

Installation Steps

next

TOOLS REQUIRED		
Tape measure	Weiss Snips (to trim components if necessary)	Screwgun/drill
Pencil or marker	Powder Actuated Fastener gun with appropriate fasteners	Caulk or other sealant
	Tapcon Screws with appropriate pilot drill bit	Caulking gun

1 VERIFY EXISTING OPENING DIMENSIONS

Wall thickness

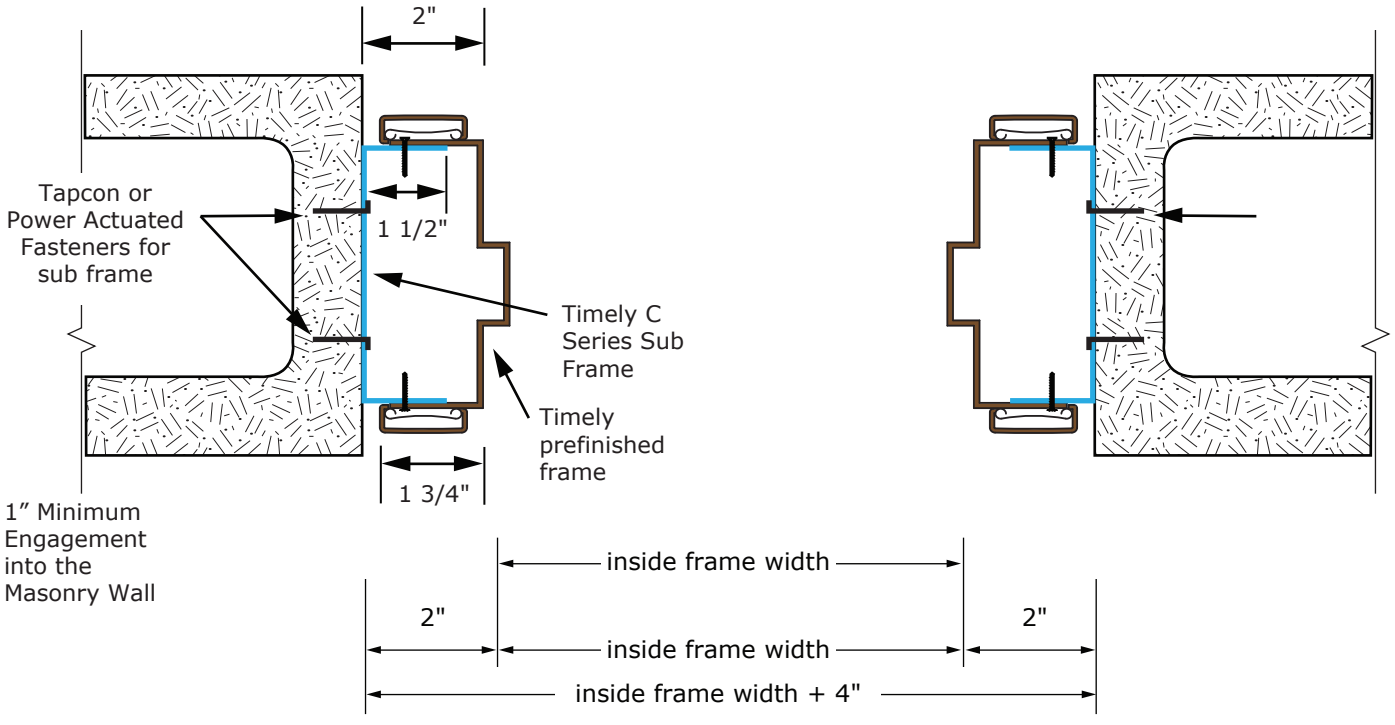
Wall Thickness must not be less than the overall depth of the sub frame. The wall material must be solid or have blocking to ensure solid anchorage of the sub frame. Make sure the wall surface is clean and free from irregularities that may impair solid mounting of the frame.

Opening Width

Maximum = door frame nominal width + 4 1/4"
Minimum = door frame nominal width + 4"

	Casing	Frame Face	Min. Add
Face width with casing –	TA-8	1 3/4" x 2 = 3 1/2"	4"
	TA-23	1 3/4" x 2 = 3 1/2"	4"
	TA-28	1 3/4" x 2 = 3 1/2"	4"
	TA-30	1 3/4" x 2 = 3 1/2"	4"

Timely Frame in Masonry Wall-Sub Frame Application



*Max Gap Between Wall (Rough Opening) and Frame shall not exceed 1/4" around the entire perimeter of the frame.

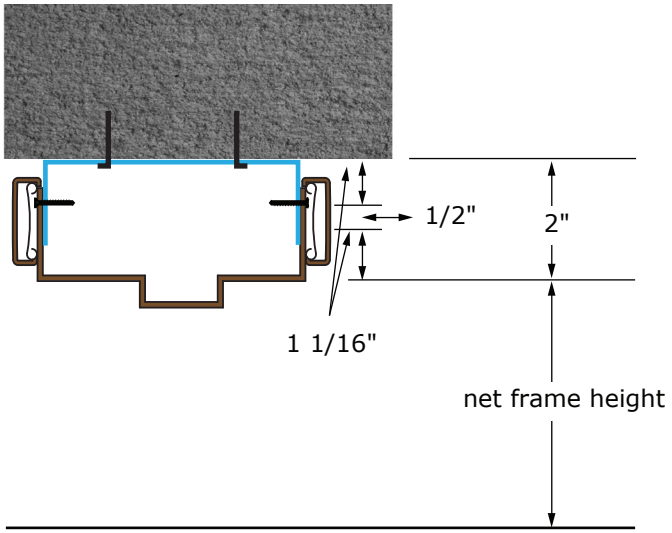
Opening Height

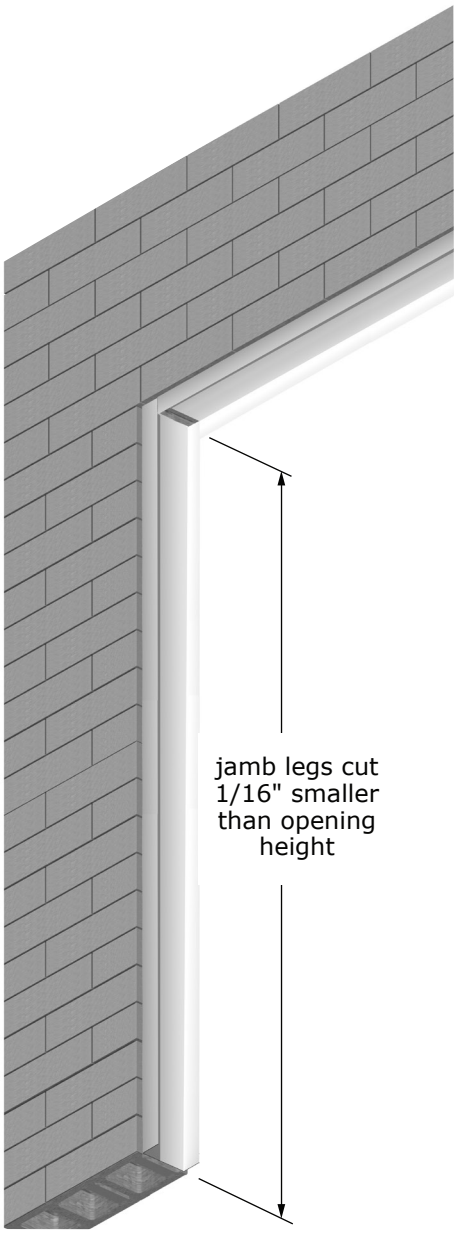
Maximum = Net inside door frame height + 2 1/4"

Minimum = Net inside door frame height + Face width with casing +2"

	Casing	Frame Face	Min. Add
Face width with casing –	TA-8	1 3/4"	2"
	TA-23	1 3/4"	2"
	TA-28	1 3/4"	2"
	TA-30	1 3/4"	2"

Maximum Finished Opening Height



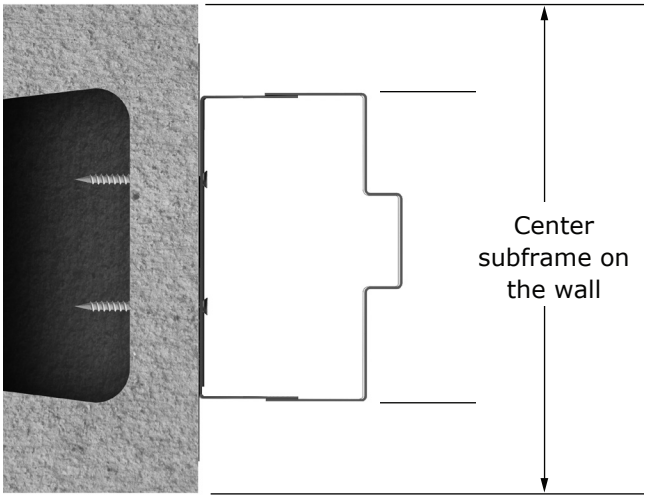


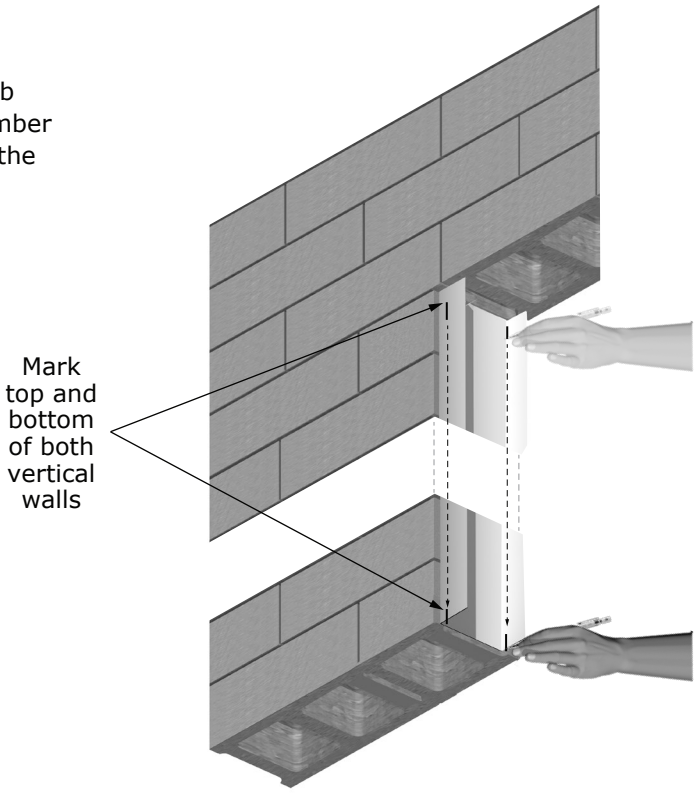
2 VERIFY SUB FRAME DIMENSIONS

Jamb legs of the sub frame are cut 1/16" smaller than the existing opening height. Verify that the jamb length is within the height limitations shown in step 1. The header is cut to fit between the jamb legs. The net length of the header is the existing opening width less 3 3/16". Parts can be trimmed at the jobsite using metal snips. If parts are too short, jamb legs can be located flush at the top and the space at the bottom can be caulked after the frame is installed. If the header is too short, gaps up to 3/16" can be caulked. If the gaps are larger, it is recommended that a new header piece is ordered before proceeding with the installation.

3 LOCATE SUB FRAME POSITION ON WALL

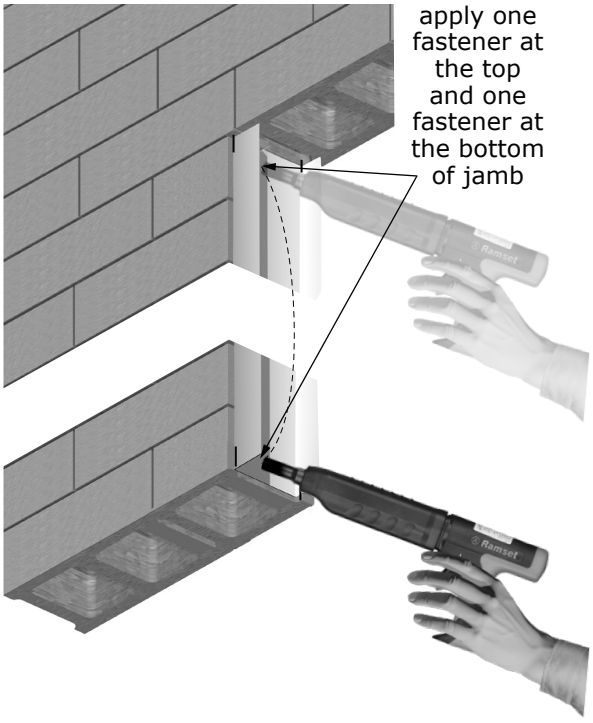
If the sub frame is to be centered on the wall, subtract the jamb depth dimension from the total wall thickness. Divide this number by 2 to establish the edge of the sub frame. Mark the wall at the bottom and top of both vertical walls.

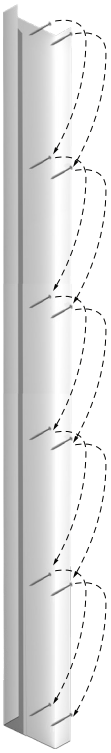




4 ATTACH SUB FRAME LEGS

Position one sub frame jamb leg aligned with the mark at the top. Apply one fastener at the top. If using powder actuated fasteners, follow the manufacturer's instructions for proper load and fastener size. If using Tapcon screws, follow instructions for screw size being used. Align bottom of frame with mark and install a fastener at the bottom of the leg. Continue to fasten the jamb leg to the wall using fasteners at approximately 16" intervals the entire length of the leg. Fasteners should be place at both edges of the jamb leg but no closer than 2" from the outside edge of the wall to avoid spalling of the concrete or masonry. Attach the opposite leg in the same manner.

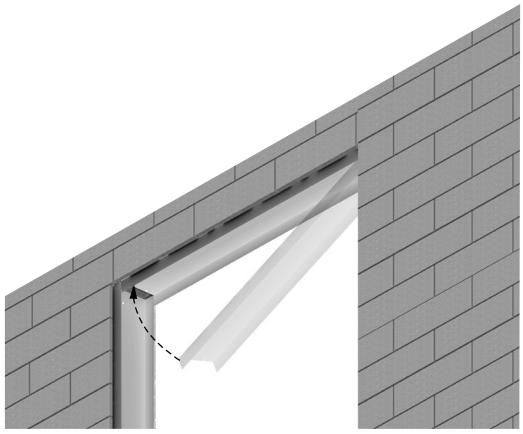


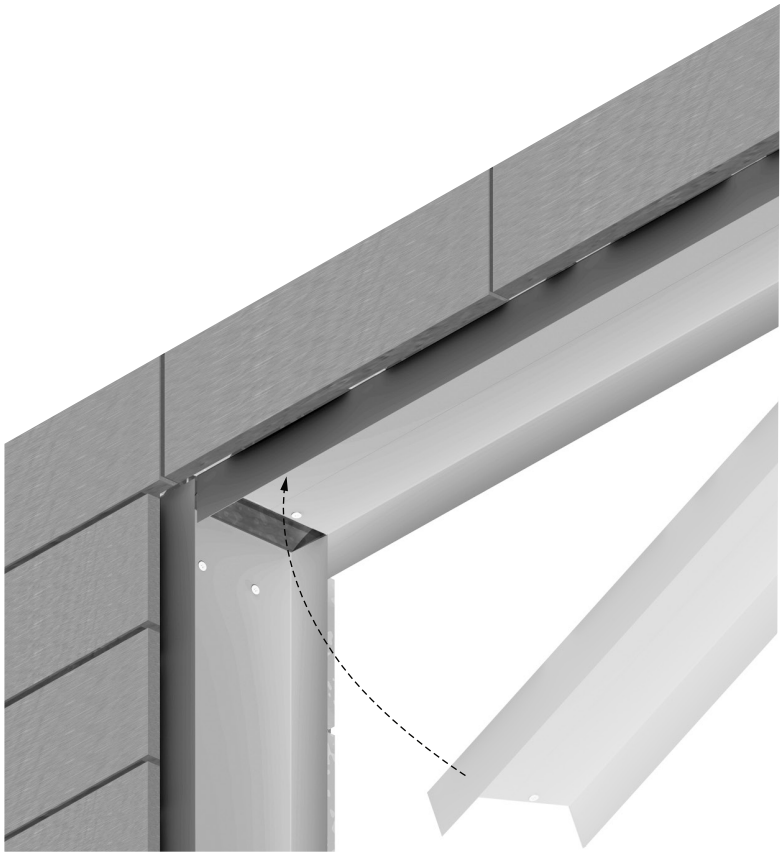


*Sub Frame shall be attached 2" from either end of the Sub Frame and every 16" on center (side by side).

5 **ATTACH SUB FRAME HEADER**

Position the header between the two jamb legs aligned with the flange on the legs. Apply fasteners as described in step 4.





6 **CAULK SUB FRAME**

Apply caulking to all perimeter edges to seal the fame against moisture or air penetration. If necessary, apply a small bead of caulk to the joint between the legs and header. Caulk the bottom of the jamb legs as required.