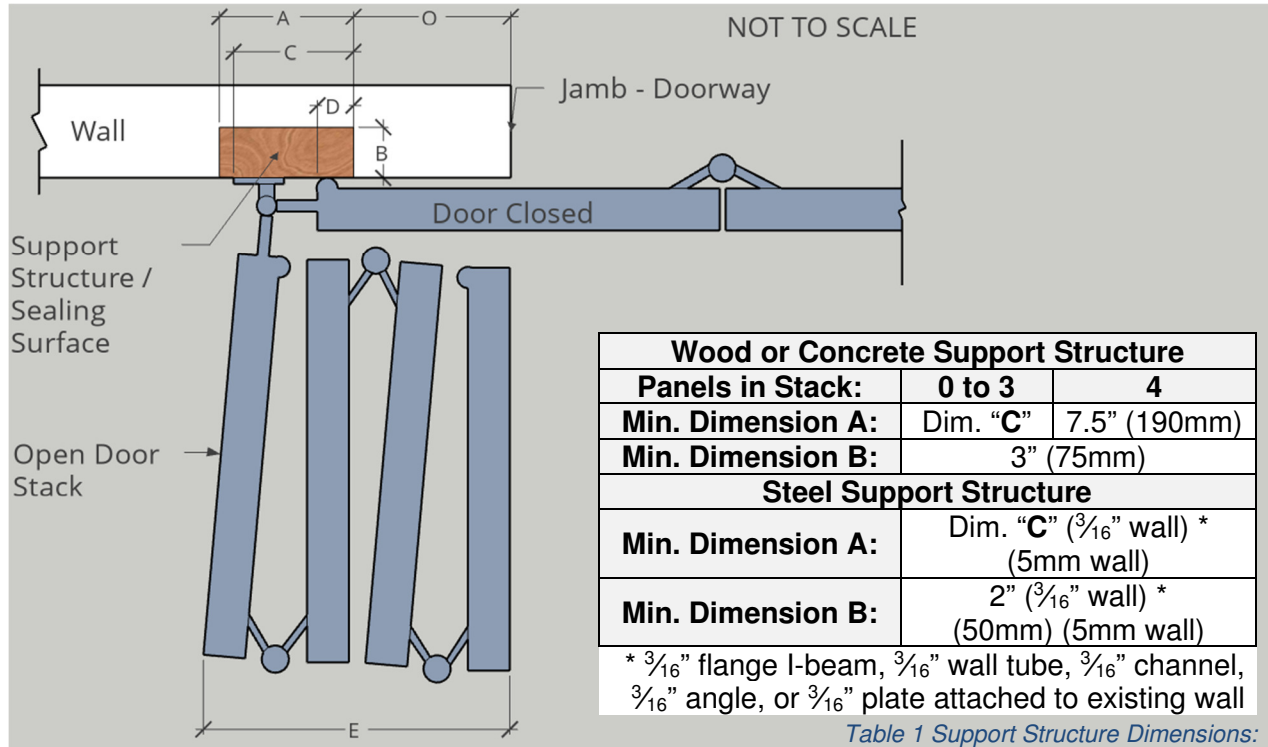


Door Opening Framing Requirements

Vertical Framing Detail (may be combined with ASCE load requirements)



Panels in Stack:	0	1	2	3	4
Dimension C:	1½" (38mm)	5" (125mm)		7" (175mm)	5¾" (145mm)
Dimension D:	1½" (38mm)				2¼" (55mm)
Dimension E:	N/A	6" (150mm)	8" (200mm)	14" (350mm)	20" (500mm)
Dimension E: (w/ Std. Operator)	N/A	N/A	14" * (350mm) *	N/A	26" ** (670mm) **

* Does not include 2" protrusion into opening at top of the door (angle bracket on second panel)

** Does not include 7" protrusion into opening at top of the door (motor cover on fourth panel)

Table 2: Hinge and Seal Positioning Dimensions

Panels in Stack:	0 or 1	2		3		4	
Swing:	Either	In **	Out	In	Out	In **	Out
Dimension O: (stack overlap)	0	0	3" * (75mm)	2" (50mm)	3½" * (90mm)	8" (205mm)	14" (355mm)
W/ Std. Operator:	N/A		2" * (50mm)	N/A	N/A		10" * (255mm)

* Treat outswing doors without floor plates and without inside mounted wind latches as inswing

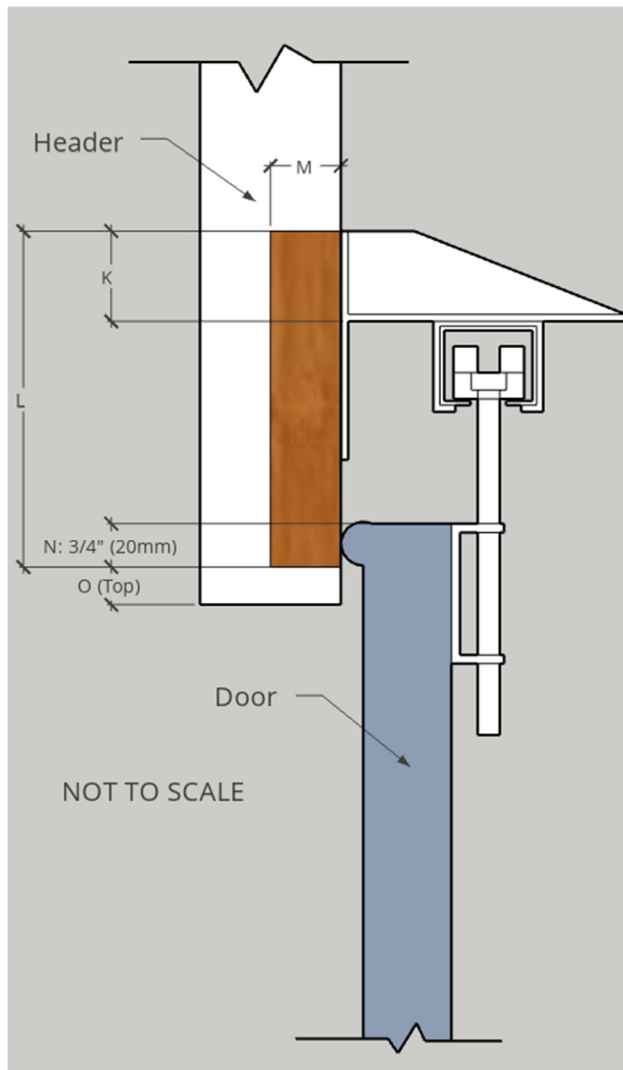
** Add 2" (50mm) to the overlap to keep the guide bolt bracket from protruding into the opening

Table 3: Standard Overlap Dimensions

Note 1: Dimension "E" is width of open-door stack. Allow ½" (12mm) per panel between the door stack and any wall or other component to prevent overshoot interference during opening.

Note 2: If overlap is not provided, open door stack impinges the opening by dimension "O".

Header Framing Detail (may be combined with ASCE load requirements)



Dimensions (one side of door)				
Width (mm)	Mass (kg)	Panels	K (mm)	L (mm)
< 8' (2440)	< 310lbs (140)	2	3/16" (5)	5" (125)
< 12' (3660)	< 465lbs (210)	3	*	*
> 8' (2440)	> 310lbs (140)	2	2 1/2" (65)	9" (230)
> 12' (3660)	> 465lbs (210)	3		12 1/2" (320)
All	All	4		
Minimum Dimension M:				
Wood/Concrete:		3" (75mm)		
Steel:		2" (3/16" wall) ** (50mm) (5mm wall)		

* Panels taller than 16' (5m) may require additional space. Contact factory for details
 ** 3/16" wall tube, 3/16" channel, 3/16" angle, 3/16" flange I-beam, or 3/16" plate attached to existing header

Table 4: Header and Rail Dimensions

Note 3: (a) the sealing surface of the header, (b) the hinge mounting surfaces, and (c) the sealing surface of the walls must all be in the same plane (co-planar).

Note 4: Dimension O (Top) – specified when door is ordered, generally, 1/2" (12mm) to allow for variations in actual threshold elevation.

Note 5: Rails may be suspended from above. Maintain spacing between rail and header using standard wall brackets (Dimension K = 3/16") or an equivalent substitute.

Note 6: Rails are not level and slope up from the door split to the jamb to follow the door lift. For doors with two or three leaves per side, the rise is 3/4" (20mm) and with four leaves, 1 3/4" (45mm). There is additional rise, up to 1/2" (12.5mm), if the door stack opens more than 90°.

Note 7: Rails are not parallel to the header face. Minimum separation between the header and the rail is as shown and is at the door split. Separation is greater at the door jamb end of the rail.