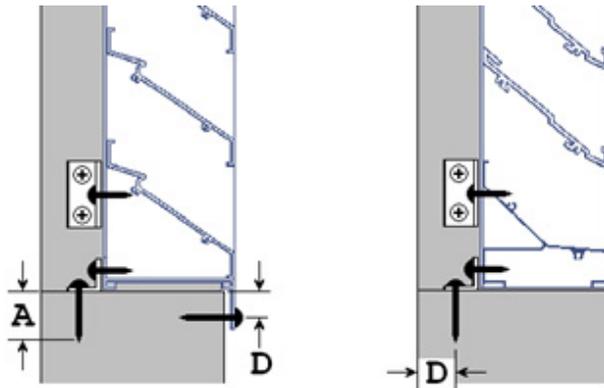
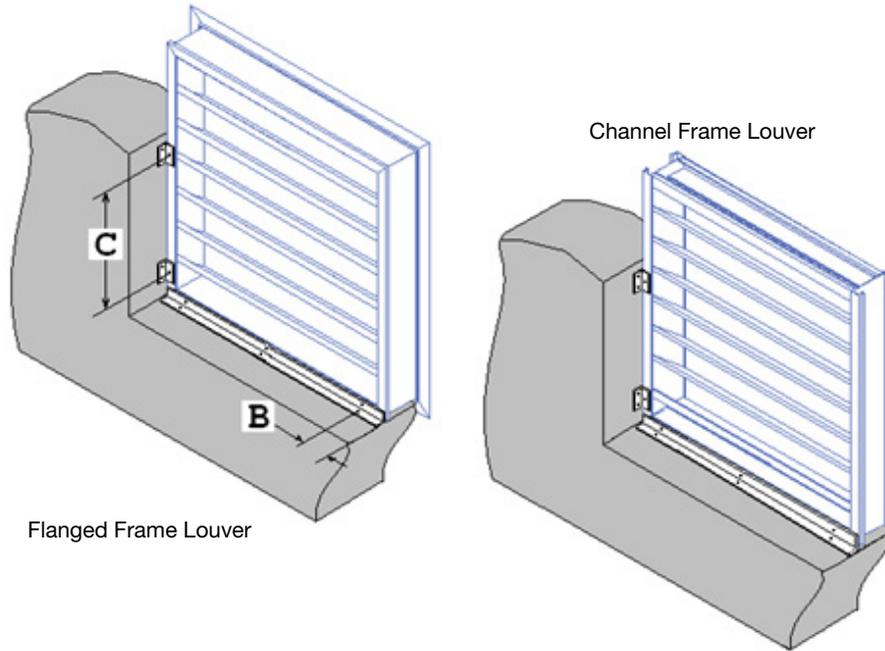


These are the minimum recommendations for installation. The installer is responsible for complying with all local requirements and project specifications. The installer shall also be responsible to caulk the louver water-tight before installation.

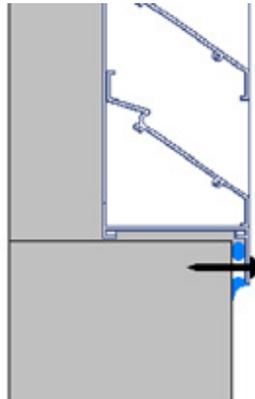


Louver being installed with angles or angle clips should have fasteners located as per the following chart:

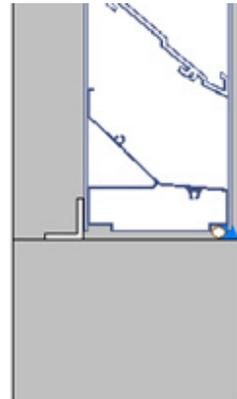
Rough Opening Material	Screw Size	Minimum Fastener Engagement	Maximum Distance from End	Maximum Spacing	Minimum Distance to Opening Edge
		(A)	(B)	(C)	(D)
Concrete	3/16-1/4" Concrete Screw	Note	1 Times the Louver Frame Depth	4 Times the Louver Frame Depth	1 1/8" - 1 1/2"
	1/2" Anchor	Note			Note
Metal	#10-#14 Tek Screw	Through			1/2"
	1/4" Bolt	Through			3/4"
Wood	#10-#14 Screw	1 1/2"	3/4"		

Note: Per Manufacturers Recommendation

For flanged frames  
Caulk opening  
perimeter before  
seating the frame  
and after installation.



For gaps  
over 1/4"  
install  
backer rod.



1. The opening should be at least 1/4" larger than the louver in each direction.
2. Install separate flashing or sill pan if required.
3. Shim the louver so it is central in the opening and square and plumb.
4. For flanged frame assembly, caulk the entire perimeter of the opening before seating the flange against the wall.
5. For channel frame assembly, position the louver, per approved architectural drawings, and anchor the angles or angle clips as per the schedule above.
6. Install #10 to #14 sheet metal screws (or TEC screws) into the louver frame/flange starting 1 frame depth from each edge (i.e. 4" from the corner for a 4" louver). (Always use deference to project or architect specified fasteners and fastening requirements).
7. Screws should then be spaced no more than 4 frame depths apart.
8. Usual torque requirements for sheet metals screws is 12-24 inch pounds for #10 screws and 40-52 inch pounds for #14 (1/4") range screws.
9. Caulk the entire perimenter. Use backer rod for gaps over 1/4".