



Louver Construction Details

For Air Balance Louvers
Stationary and Adjustable Louvers
Made from Extruded Aluminum or Steel

Stationary Extruded Aluminum Louvers

Reference Chart

Model	AMCA	Louver Depth	Blade Style	Blade Angle	Blade Spacing	% Free Area (48" x 48")	Jamb Splice Detail	Vert. Mull. Detail	Horiz. Mull. Detail	Vert. Angle Splice Detail	Splice Int. Detail	Sup. Angle Detail
A150		1½"	Baffle	30°	1½"		3	1	5	4	7, 8	6
A245	✓	2"	Baffle	45°	2¾"	45%	3	1	5	4	7, 8	6
A200	✓	2"	Chevron		1"	43%	3	1	5	4	7, 8	6
A258	✓	2"	Drainable	45°	2¾"	45%	3	1	5	4	7, 8	6
A328	✓	3"	Chevron		1⅜"	44%	3	1	5	4	7, 8	6
A455	✓	4"	Standard	45°	4"	57%	3	1	5	4	7, 8	6
A455 (CL)		4"	Standard	45°	4"	57%	3	2	5	4	7, 8	6
A465	✓	4"	Baffle	45°	4"	56%	3	1	5	4	7, 8	6
A465 (CL)		4"	Baffle	45°	4"	56%	3	2	5	4	7, 8	6
A430	✓	4"	Standard	37°	3½"	57%	3	1	5	4	7, 8	6
A430 (CL)		4"	Standard	37°	3½"	57%	3	2	5	4	7, 8	6
A435	✓	4"	Drainable	37°	3½"	57%	3	1	5	4	7, 8	6
A435 (CL)		4"	Drainable	45°	3½"	57%	3	2	5	4	7, 8	6
A424	✓	4"	Drainable	45°	4"	52%	3	1	5	4	7, 8	6
A424 (CL)		4"	Drainable	45°	4"	52%	3	2	5	4	7, 8	6
A440		4"	Baffle	30°	3"		3	1	5	4	7, 8	6
A440 (CL)		4"	Baffle	30°	3"		3	2	5	4	7, 8	6
A445	✓	4"	Drainable	45°	5"	51%	3	1	5	4	7, 8	6
A445 (CL)		4"	Drainable	45°	5"	51%	3	2	5	4	7, 8	6
A490	✓	4"	Chevron		1⅝"	47%	3	1	5	4	7, 8	6
A491	✓	4"	Chevron		1⅝"	47%	3	1	5	4	7, 8	6
A220	✓	4"	Drainable	45°	4"	52%	3	1	5	4	7, 8	6
A590	✓	5"	Chevron		2"	44%	3	1	5	4	7, 8	6
A500	✓	5"	Chevron		2¼"	48%	3	1	5	4	7, 8	6
A520	✓	5"	Chevron		2"	44%	3	1	5	4	7, 8	6
A655	✓	6"	Standard	45°	5⅜"	55%	3	1	5	4	7, 8	6
A655 (CL)		6"	Standard	45°	5⅜"	55%	3	2	5	4	7, 8	6
A635	✓	6"	Drainable		4½"	56%	3	1	5	4	7, 8	6
A635 (CL)		6"	Drainable		4½"	56%	3	2	5	4	7, 8	6
A675	✓	6"	Std.+ Drain	37°	3½"	44%	3	1	5	4	7, 8	6
A675 (CL)		6"	Std.+ Drain	37°	3½"	44%	3	2	5	4	7, 8	6
A634	✓	6"	Drainable		4½"	56%	3	1	5	4	7, 8	6
A634 (CL)		6"	Drainable		4½"	56%	3	2	5	4	7, 8	6
A650 (CL)	✓	6"	Drainable		5⅜"	53%	3	1	5	4	7, 8	6
A624	✓	6"	Chevron		1⅝"	53%	3	1	5	4	7, 8	6
A320	✓	6"	Drainable	35°	4"	58%	3	1	5	4	7, 8	6
A680	✓	6"	Chevron		1⅝"	49%	3	1	5	4	7, 8	6
A750	✓	7"	Chevron		2¼"	45%	3	1	5	4	7, 8	6
A850		8"	Chevron		2¼"	56%	3	1	5	4	7, 8	6
A820	✓	8"	Chevron		1 ¼"	29%	3	1	5	4	7, 8	6

Stationary Formed Steel Louvers

Reference Chart

Model	AMCA	Louver Depth	Blade Style	Blade Angle	Blade Spacing	% Free Area (48" x 48")	Jamb Splice Detail	Vert. Mull. Detail	Horiz. Mull. Detail	Vert. Angle Splice Detail	Splice Int. Detail	Sup. Angle Detail
S245		2"	Standard	45°	2 $\frac{1}{8}$ "		11	9, 10	13	12	15, 16	14
S480		4"	Chevron		3"		11	9, 10	13	12	15, 16	14
S400	✓	4"	Standard	45°	4 $\frac{1}{8}$ "	51%	11	9, 10	13	12	15, 16	14
S405	✓	4"	Baffle	45°	4 $\frac{1}{8}$ "	52%	11	9, 10	13	12	15, 16	14
S445	✓	4"	Drainable	45°	4"	50%	11	9, 10	13	12	15, 16	14
S430		4"	Standard	30°	3"		11	9, 10	13	12	15, 16	14
G461	✓	4"	Standard			34%	11	9, 10	13	12	15, 16	14
S655		6"	Standard	45°	6 $\frac{9}{16}$ "		11	9, 10	13	12	15, 16	14
S605		6"	Baffle	45°	6 $\frac{9}{16}$ "		11	9, 10	13	12	15, 16	14
S645	✓	6"	Drainable	45°	6"	52%	11	9, 10	13	12	15, 16	14
S635	✓	6"	Drainable	35°	3 $\frac{1}{2}$ "	55%	11	9, 10	13	12	15, 16	14
S630		6"	Standard	30°	4"		11	9, 10	13	12	15, 16	14

Adjustable Extruded Aluminum Louvers

Reference Chart

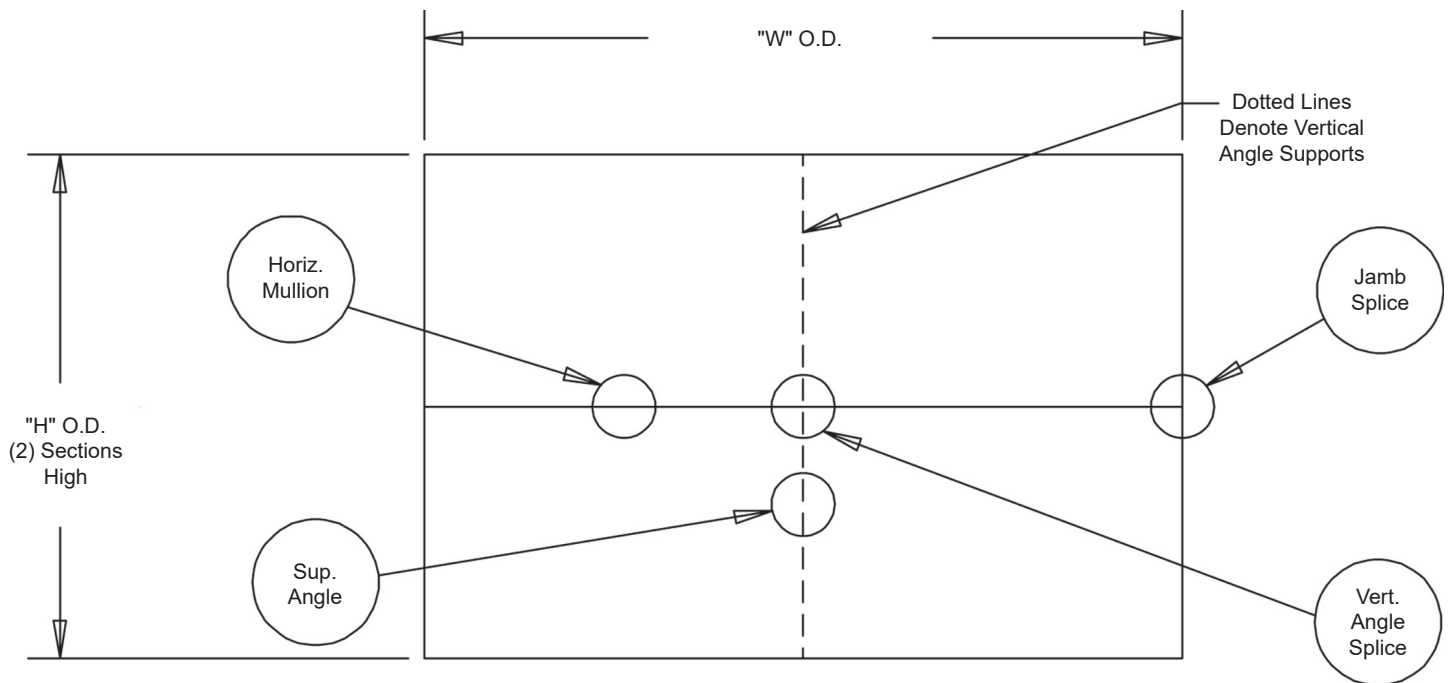
Model	AMCA	Louver Depth	Blade Style	Blade Spacing	% Free Area (48" x 48")	Vert. Mullion Detail	Horz. Mullion Detail	Int. Splice Detail	Side Arm Drive Detail	Side Arm Drive at Mullion Detail	Interconnected Drive Detail
A455A		4"	Pin-Lock	4"	43%	1	5	7, 8	17	18	19
A444M		4"	Pin-Lock	4"		1	5	7, 8	17	18	19
A445A		4"	Drainable	4"	44%	1	5	7, 8	17	18	19
A445AM		4"	Drainable	4"		1	5	7, 8	17	18	19
A454C	✓	4"	Drainable	3½"	52%	1	5	7, 8	17	18	19
A454CM		4"	Drainable	3½"		1	5	7, 8	17	18	19
A488A	✓	6"	Pin-Lock	4"	67%	1	5	7, 8	17	18	19
A655A		6"	Baffle	4½"	57%	1	5	7, 8	17	18	19
A655AM		6"	Baffle	4½"		1	5	7, 8	17	18	19
A635A		6"	Drainable	4½"	54%	1	5	7, 8	17	18	19
A635AM		6"	Drainable	4½"		1	5	7, 8	17	18	19
A655C	✓	6"	Drainable	4½"	52%	1	5	7, 8	17	18	19
A665CM		6"	Drainable	4½"		1	5	7, 8	17	18	19
A635AF		6"	Drainable	4½"	52%	1	5	7, 8	17	18	19
A681C	✓	6"	Pin-Lock	4½"	52%	1	5	7, 8	17	18	19
A681CM		6"	Pin-Lock	4½"		1	5	7, 8	17	18	19

Adjustable Formed Steel Louvers

Reference Chart

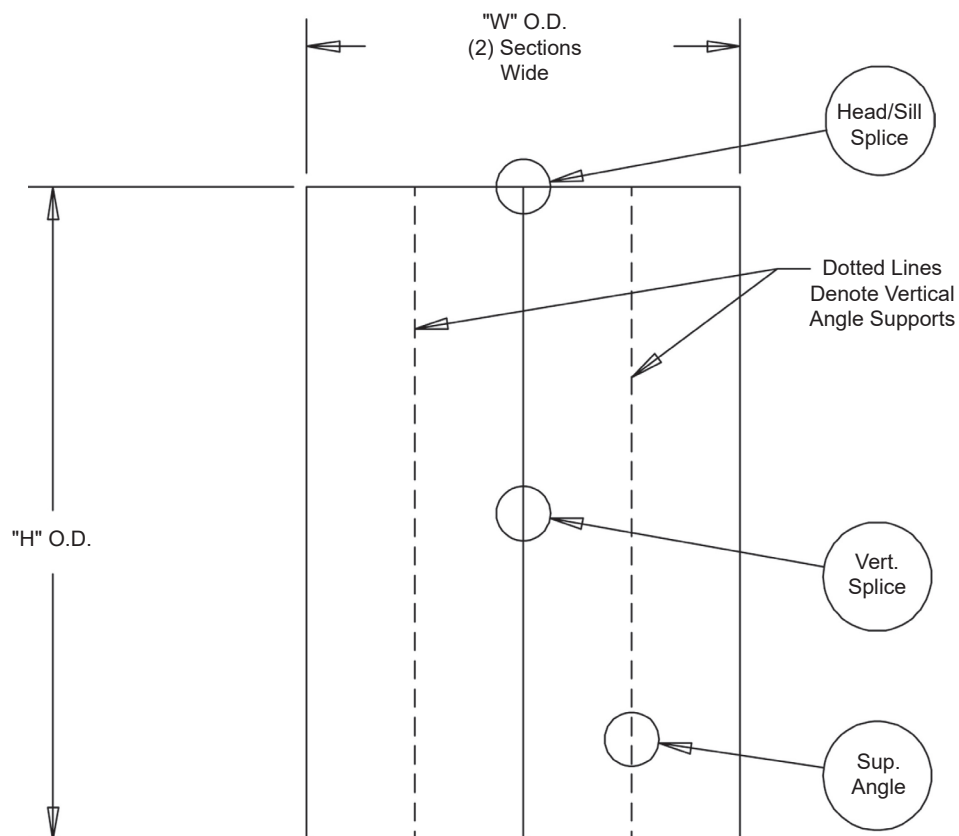
Model	AMCA	Louver Depth	Blade Style	Blade Angle	Blade Spacing	% Free Area (48" x 48")	Jamb Splice Detail	Vert. Mull. Detail	Horiz. Mull. Detail	Vert. Angle Splice Detail	Splice Int. Detail	Sup. Angle Detail
S455A		4"	Standard		4⅝"	48%	9	13	15, 16	17	18	19
S445A		4"	Standard		4⅝"	44%	9	13	15, 16	17	18	19
S645A		6"	Standard		3½"	55%	9	13	15, 16	17	18	19
S695		6"	Standard		6"		9	13	15, 16	17	18	19
S735C		7"	Drainable		3"		9	13	15, 16	17	18	19
AAC73A		7"	Drainable		3"	45%	9	13	15, 16	17	18	19

Schematic Louver Drawings



Louver Type #1

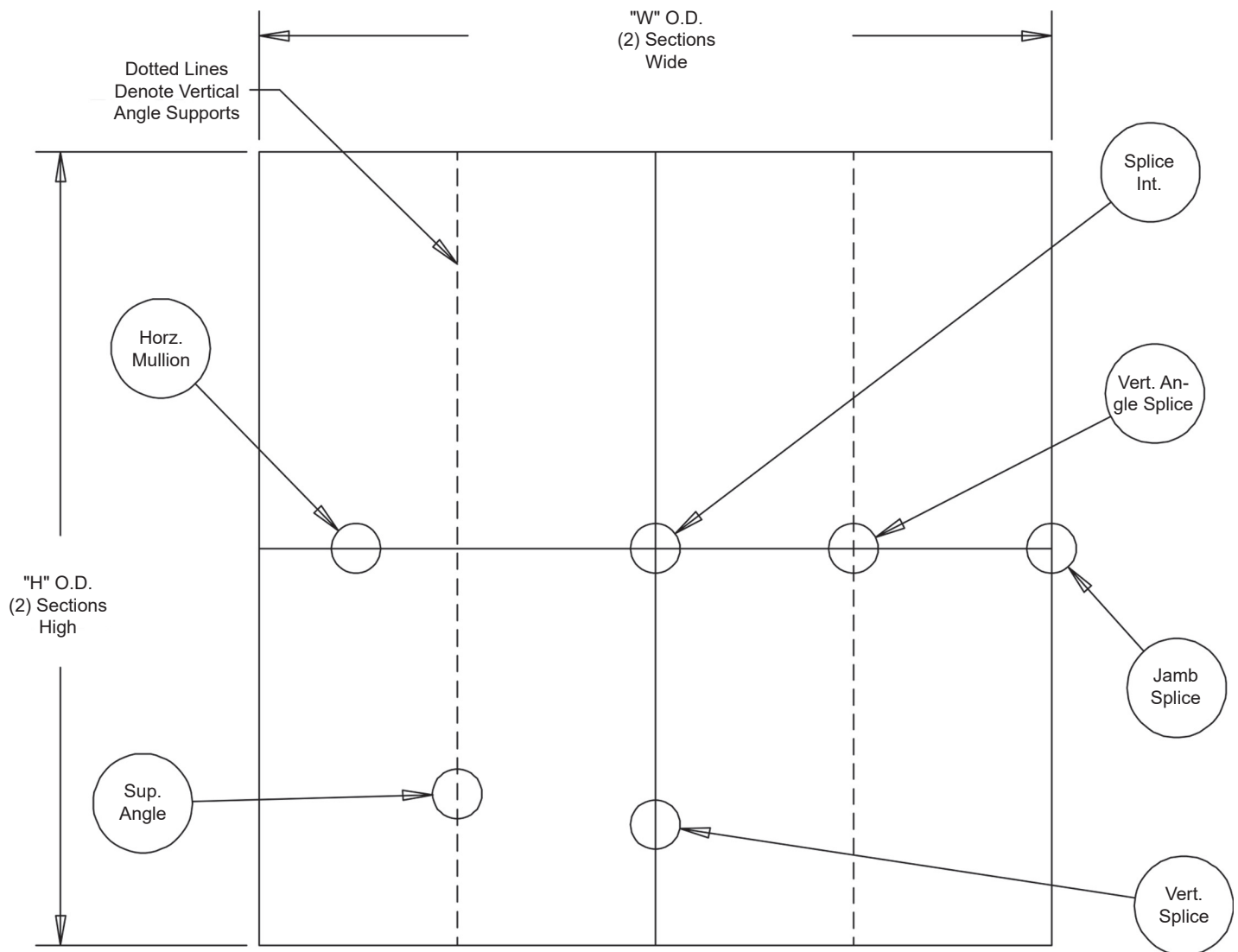
Horizontal splice and vertical angle supports, single section wide by two sections high.



Louver Type #2

Vertical splice and vertical angle supports, two sections wide by one section high.

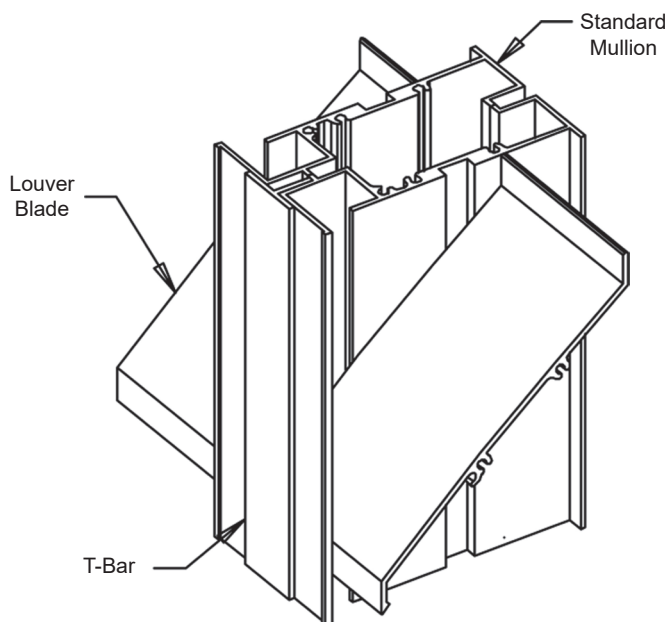
Schematic Louver Drawings



Louver Type #3

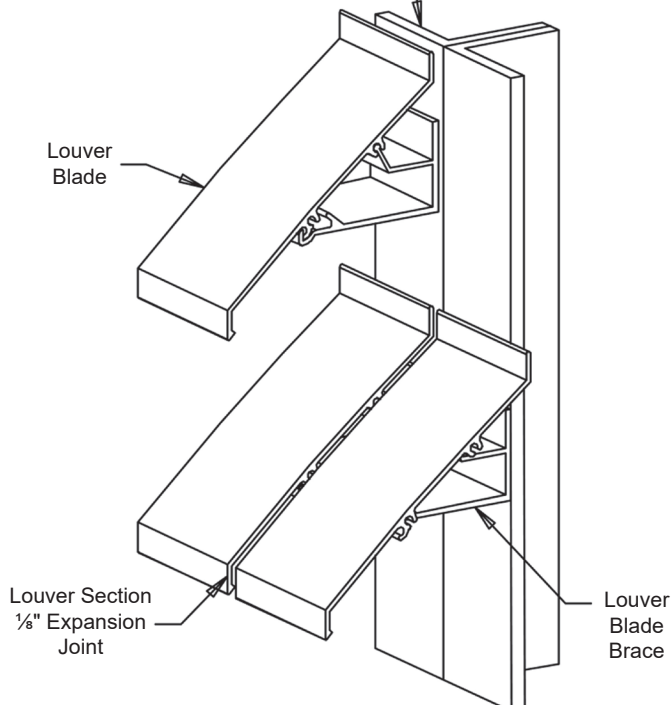
Horizontal and vertical splice with vertical angle supports, two sections wide by two sections high.

Extruded Aluminum Louver Details

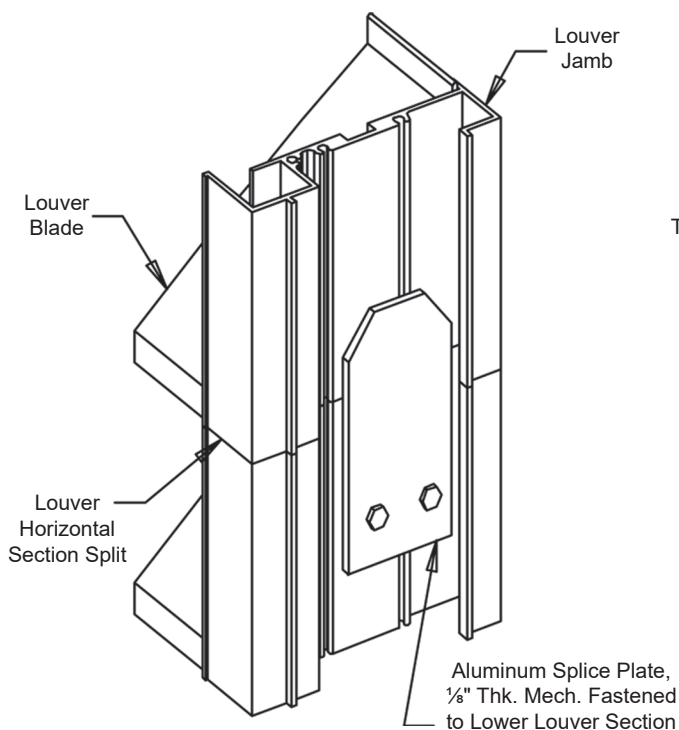


Detail #1
Jamb Splice for Standard Mullion

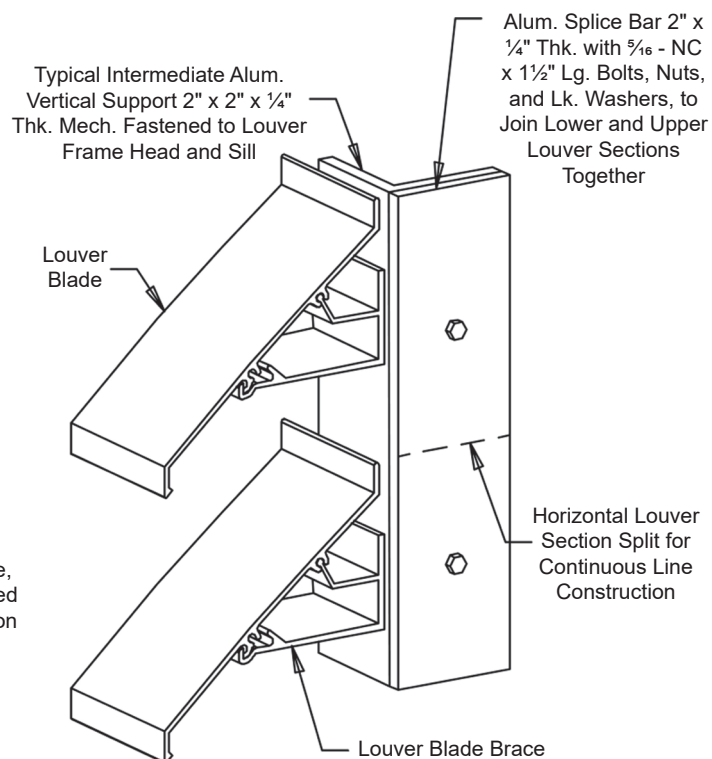
Continuous Line Vertical Aluminum
2" x 2" x 1/4" thk. Support Angles,
Fastened Together With 5/16" - NC x
1 1/2" Lg. Bolts, Nuts, and Lk. Washers.
Furnished by Manufacturer.



Detail #2
Jamb Splice for Continuous Line

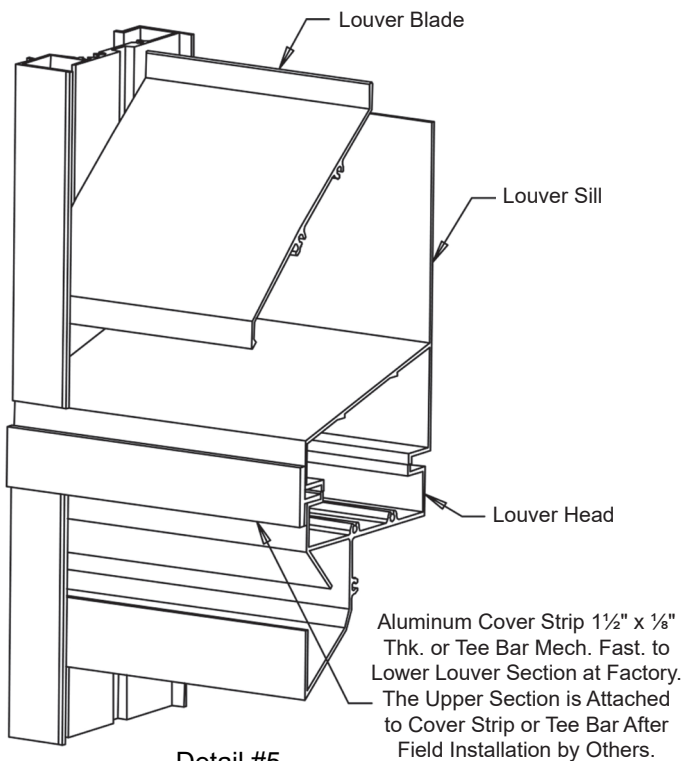


Detail #3
Jamb Splice with Splice Plate

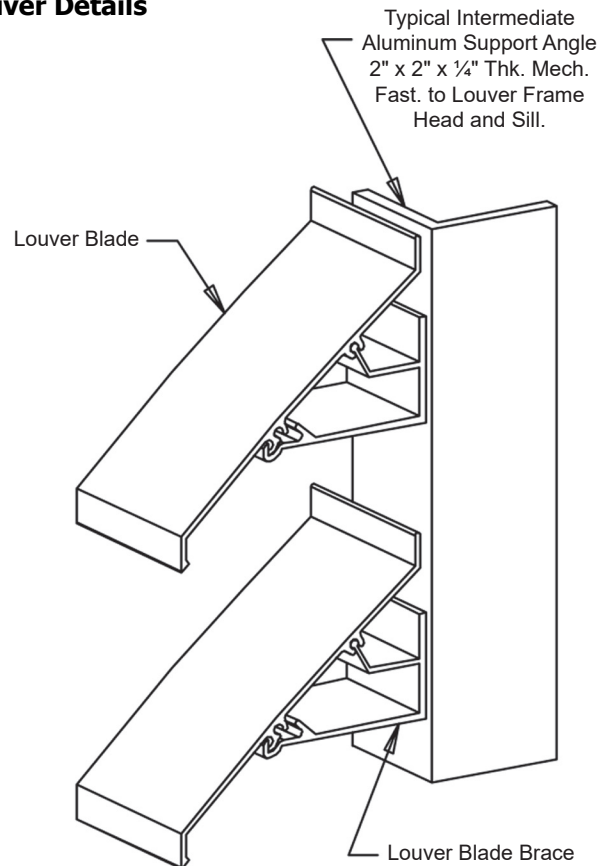


Detail #4
Vertical Angle Splice

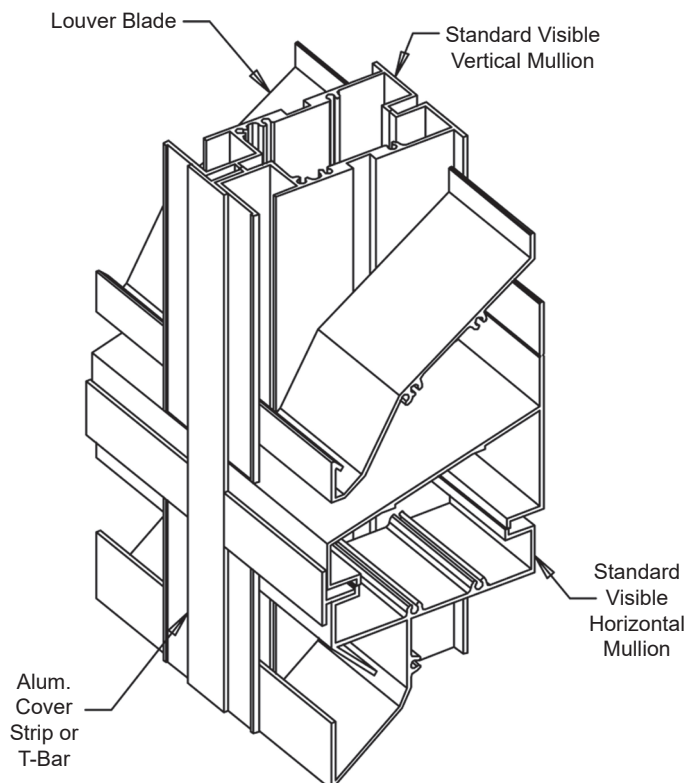
Extruded Aluminum Louver Details



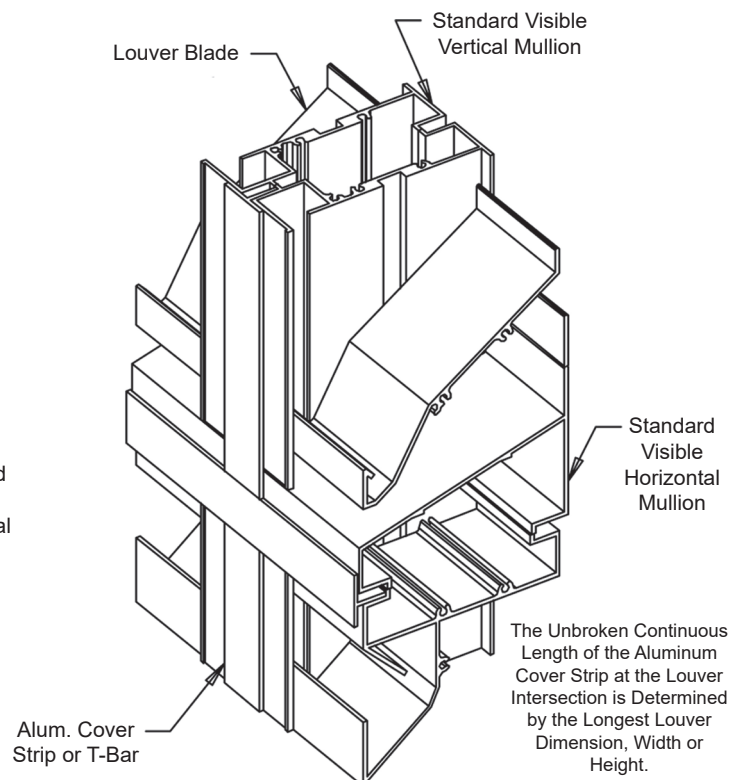
Detail #5
Horizontal Mullion Detail



Detail #6
Support Angle Detail

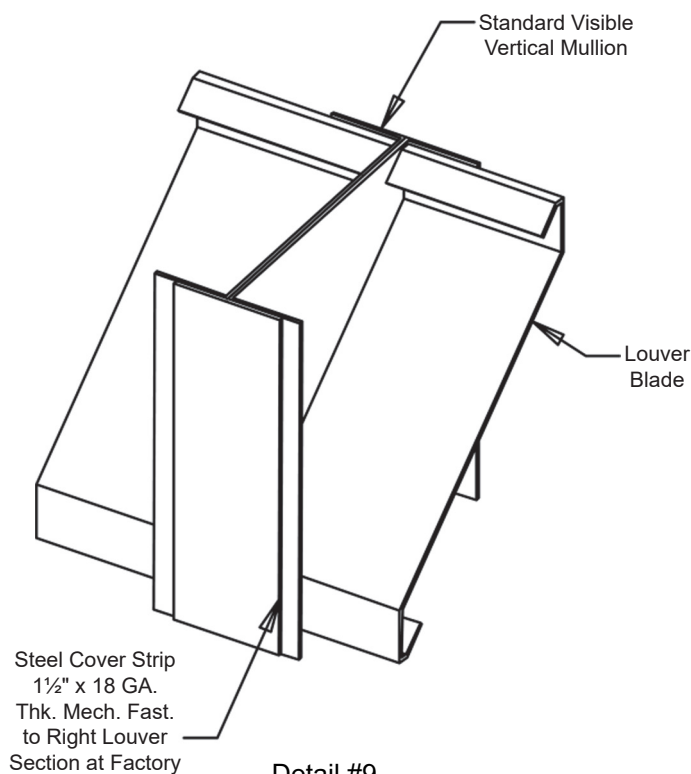


Detail #7
Splice Interconnected Detail
(Vertical Continuous)



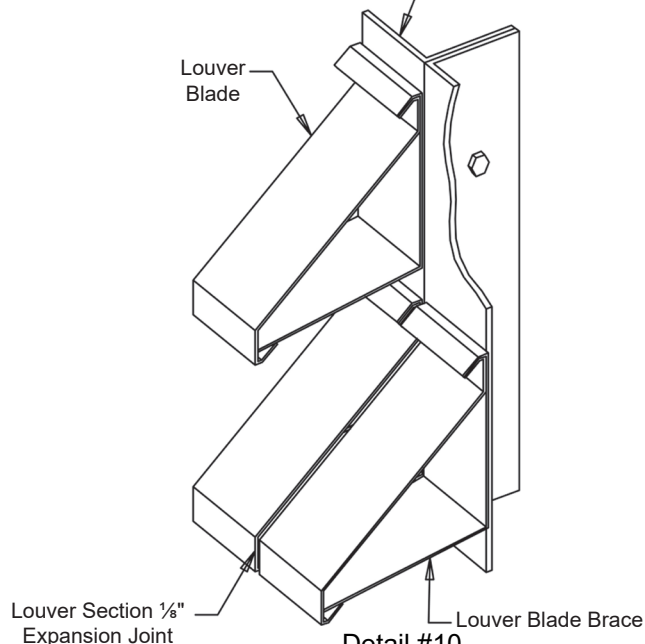
Detail #8
Splice Interconnected Detail
(Horizontal Continuous)

Fabricated Steel Louver Details



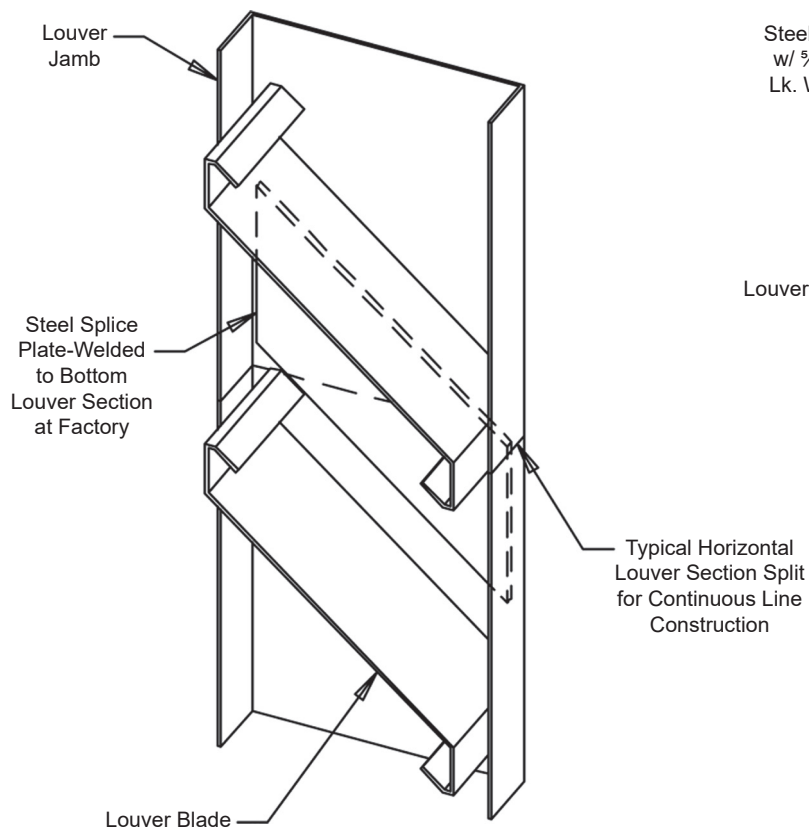
Detail #9
Vertical Mullion Detail

Continuous Line Vertical Steel 2" x 2" x 1/8" Thk. Support Angles, Fast. Together with 5/16" - NC x 1 1/2" Lg. Bolts, Nuts and Lk. Washers. Furnished by Manufacturer.

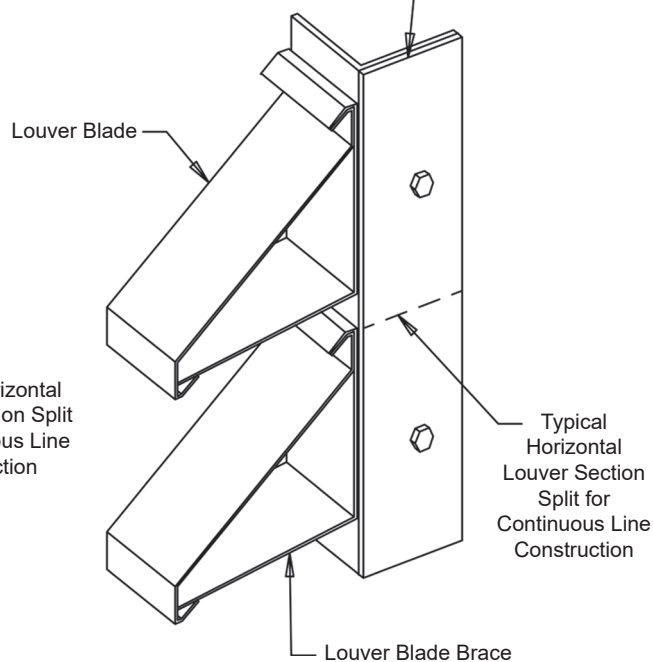


Detail #10
Vertical Mullion (Continuous Line)

Steel Splice Bar 2" x 10 GA. Furnished w/ 5/16" - NC x 1 1/2" Lg. Bolts, Nuts and Lk. Washers to Join Lower and Upper Louver Sections Together

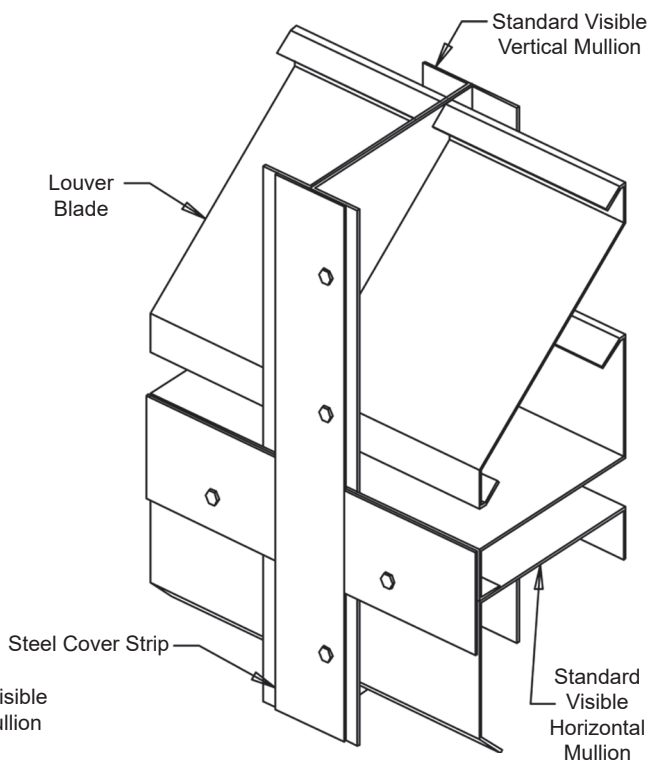
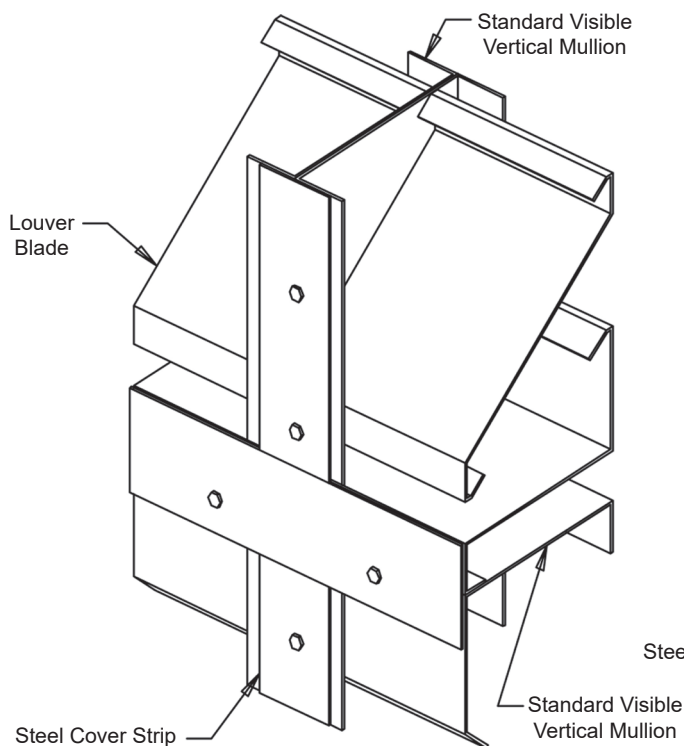
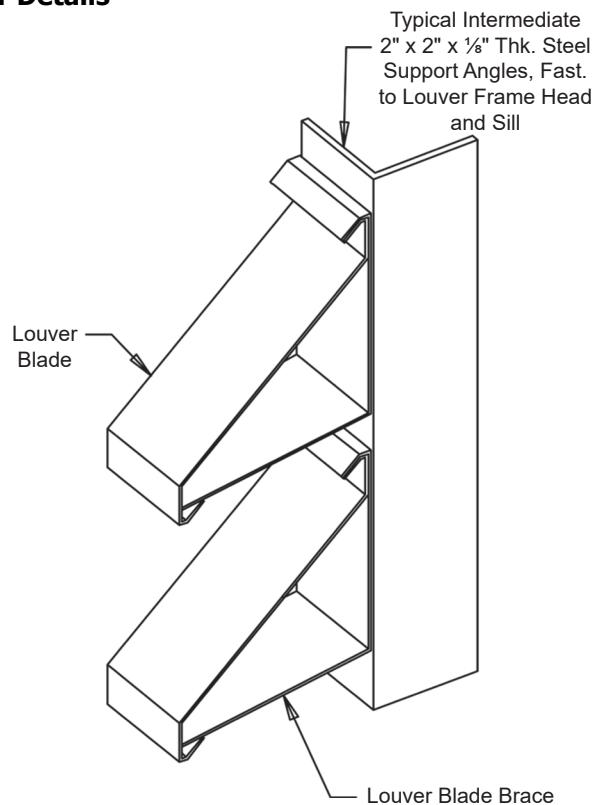
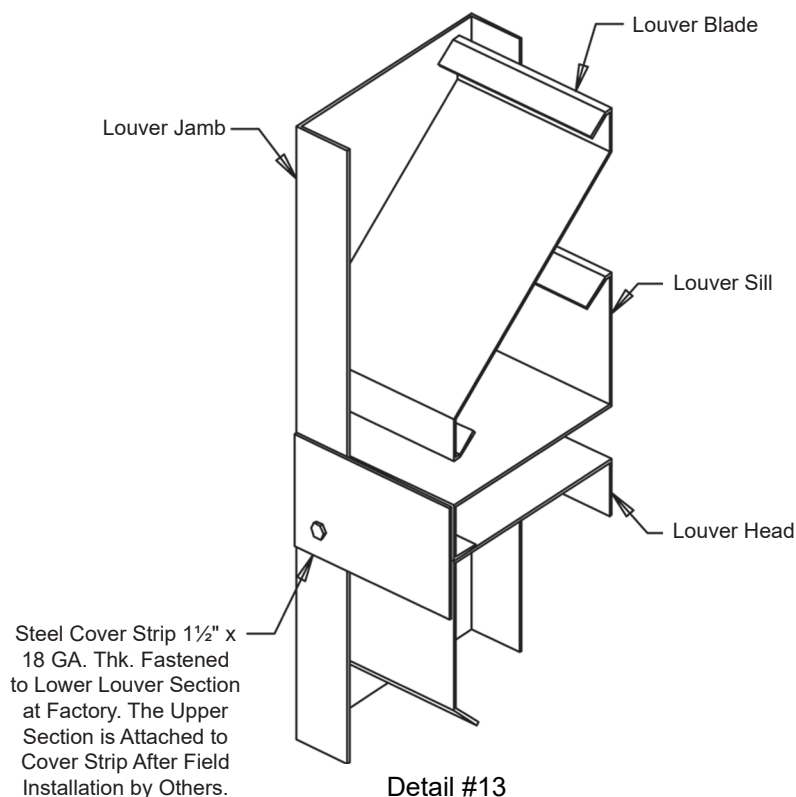


Detail #11
Jamb Splice Detail



Detail #12
Vertical Angle Splice Detail

Fabricated Steel Louver Details

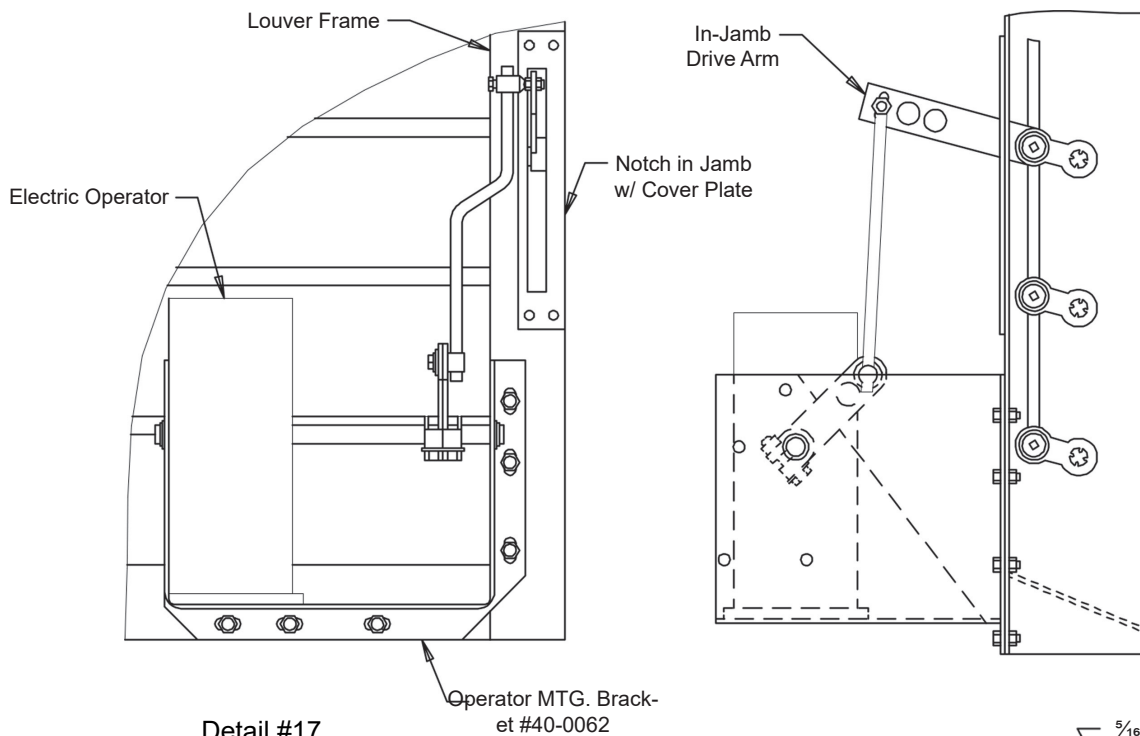


Louver Construction Details

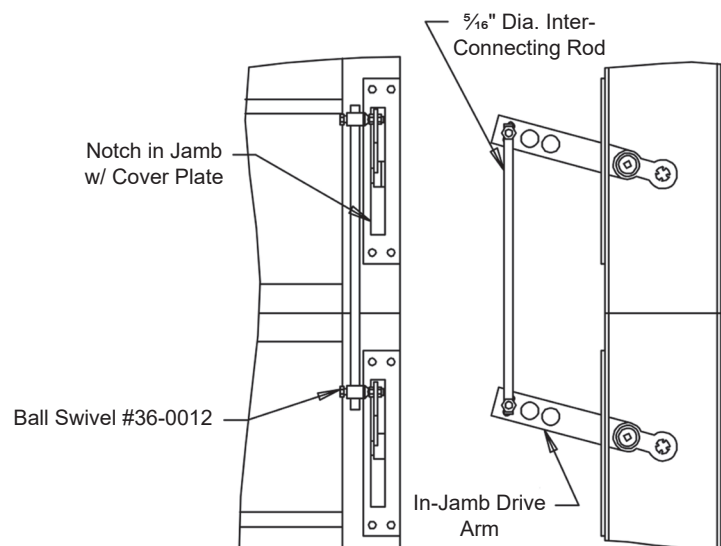
For Stationary and Adjustable Louvers ▲ Extruded Aluminum and Steel

Page 11

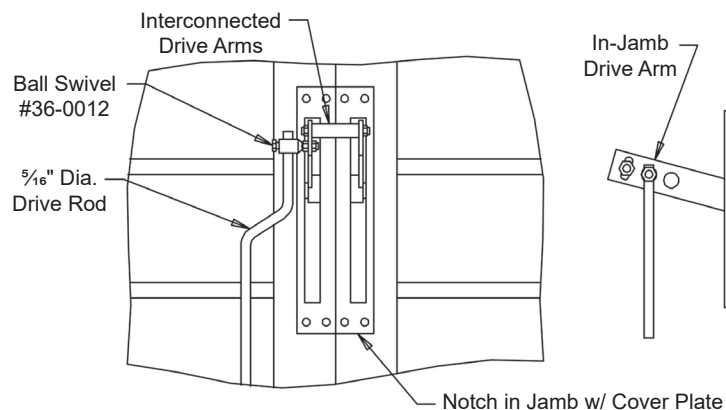
Adjustable Aluminum and Steel Louver Details



Detail #17
Side Arm Drive Detail



Detail #18
Side Arm Drive at Mullion Detail



Detail #19
Interconnected Drive Detail

air balance

Dampers ▲ Louvers
UL Life Safety Products
Division of Mestek
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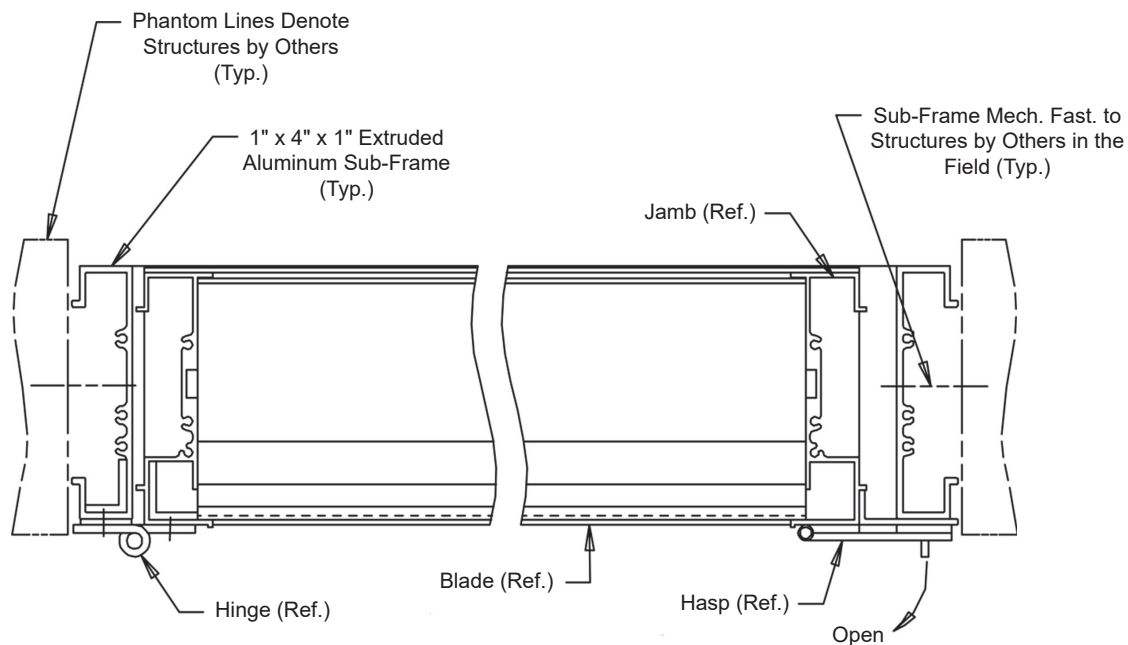
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Louver Construction Details

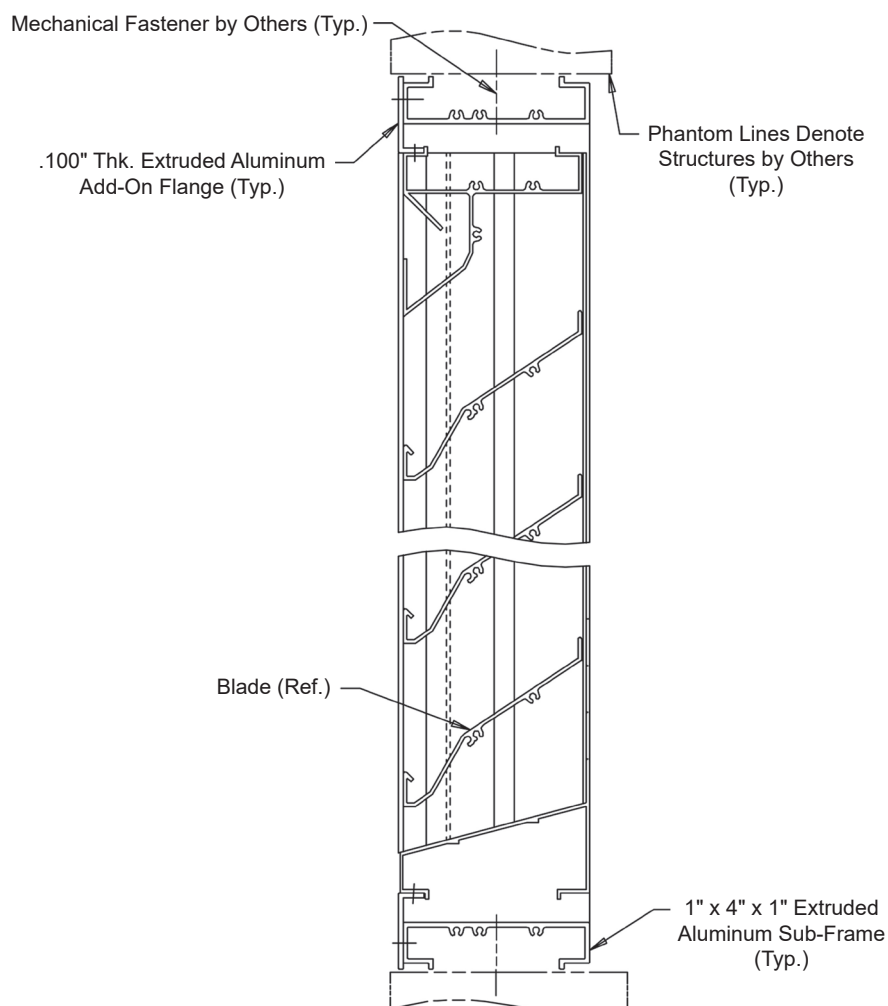
For Stationary and Adjustable Louvers ▲ Extruded Aluminum and Steel

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Special Louver Mounting Details



Hinged Louver Door w/ Subframe



Removable Flanged Frame Louver Section

air balance

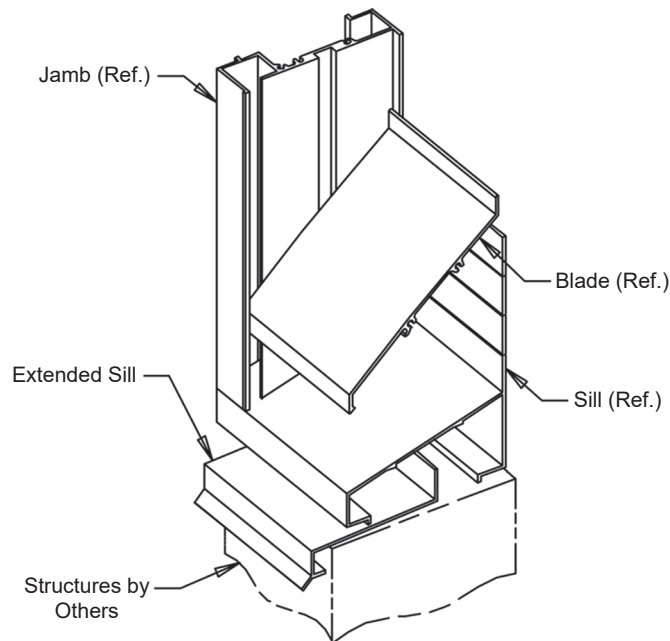
Dampers ▲ Louvers
UL Life Safety Products
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Member of AMCA

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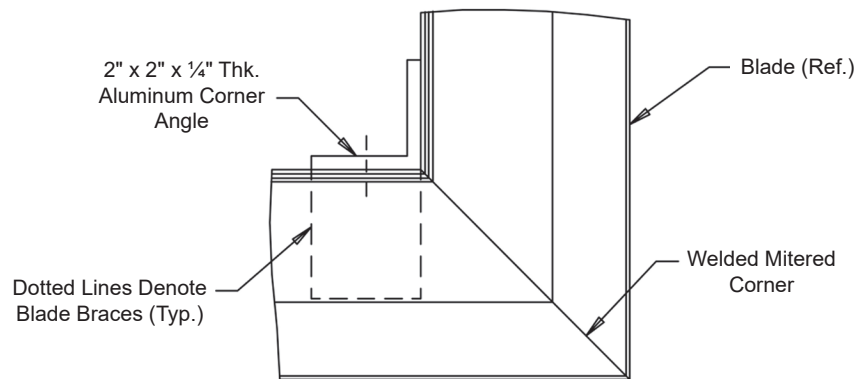
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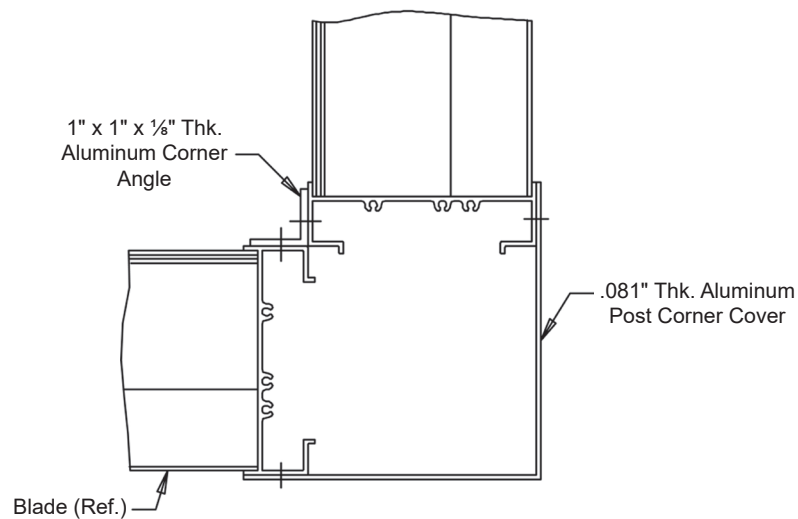
Special Louver Mounting Details



Extended Sill Detail



Mitered Corner Detail



Posted Corner Detail

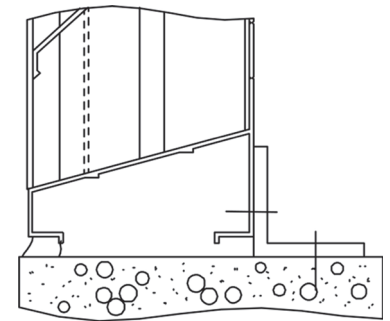
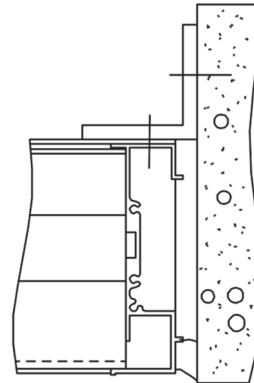
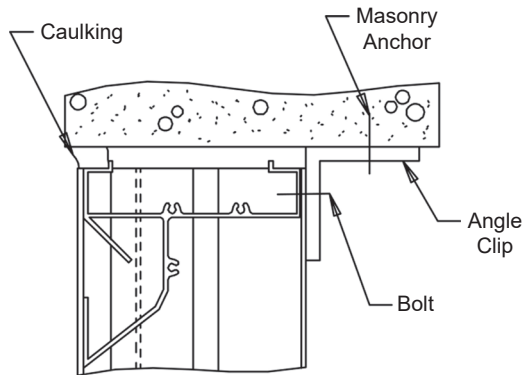
Typical Louver Installation Methods - Channel Frame

Head

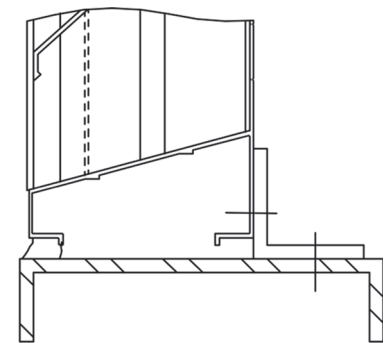
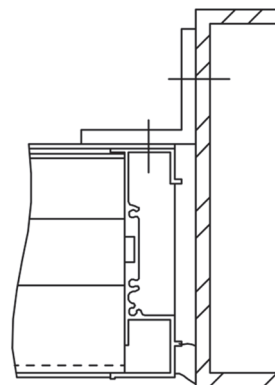
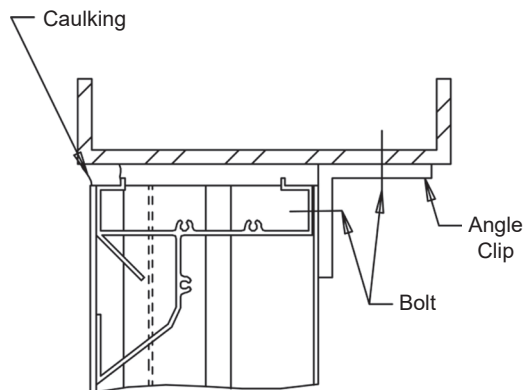
Jamb

Sill

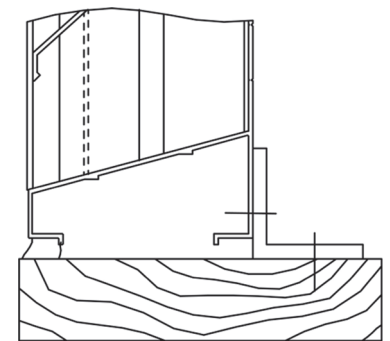
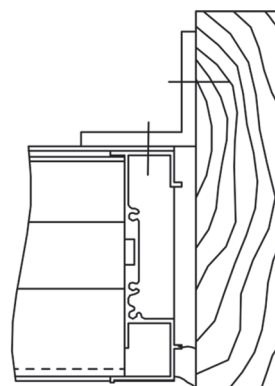
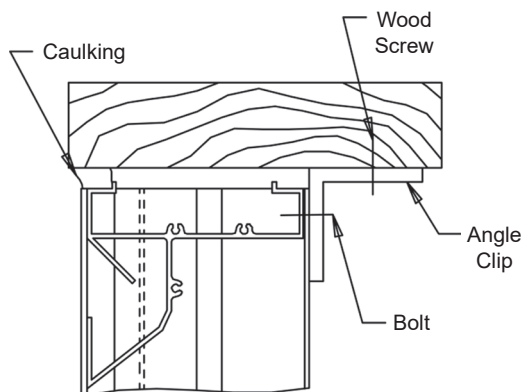
Masonry Opening



Steel Opening



Wood Opening



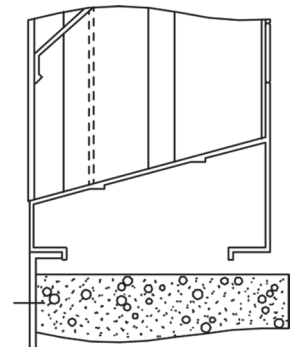
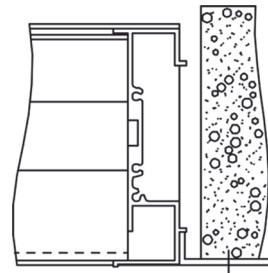
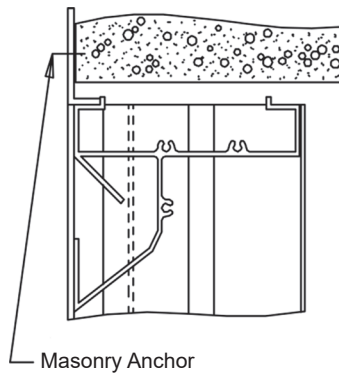
Typical Louver Installation Methods - Flanged Frame

Head

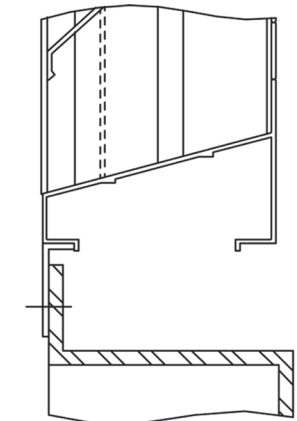
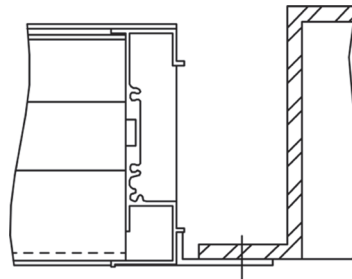
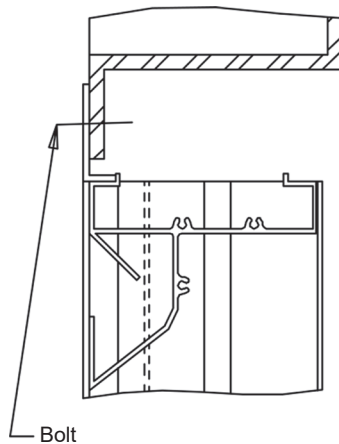
Jamb

Sill

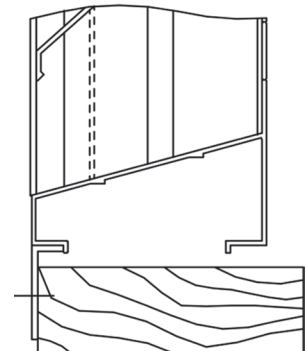
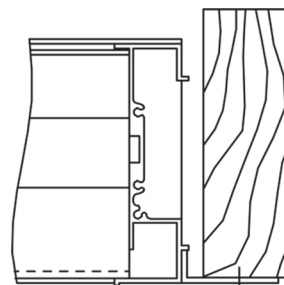
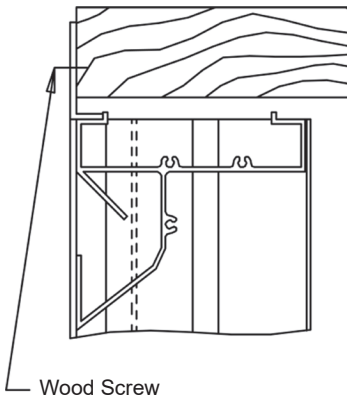
**Masonry
Opening**



**Steel
Opening**



**Wood
Opening**



**Corrugated
Opening**

