

Air Flow Company, Inc.

850 W. Fullerton Ave. • Addison, IL 60101
Tel (630) 628-1138 Fax (630) 628-1149

Model AL 112

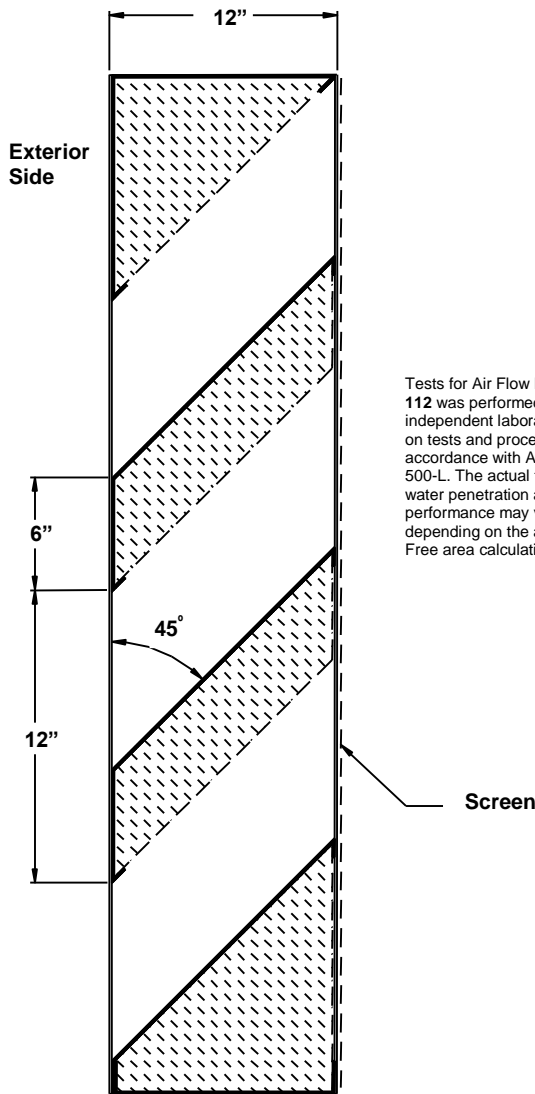
Formed Steel Acoustical Louver
12" deep, 45° Straight Blade

Project: _____
Arch / Eng: _____

Contractor: _____
Customer: _____

LOUVER SCHEDULE

Item	Qty	Opening Size (W x H)	Frame Style	Finish	Screen	Material gauge	Mullions	Notes



Tests for Air Flow Louver Model AL-112 was performed in an independent laboratory and based on tests and procedures made in accordance with AMCA standard 500-L. The actual test results of water penetration and air performance may vary (+/-10%) depending on the actual application. Free area calculations are (+/-5%)

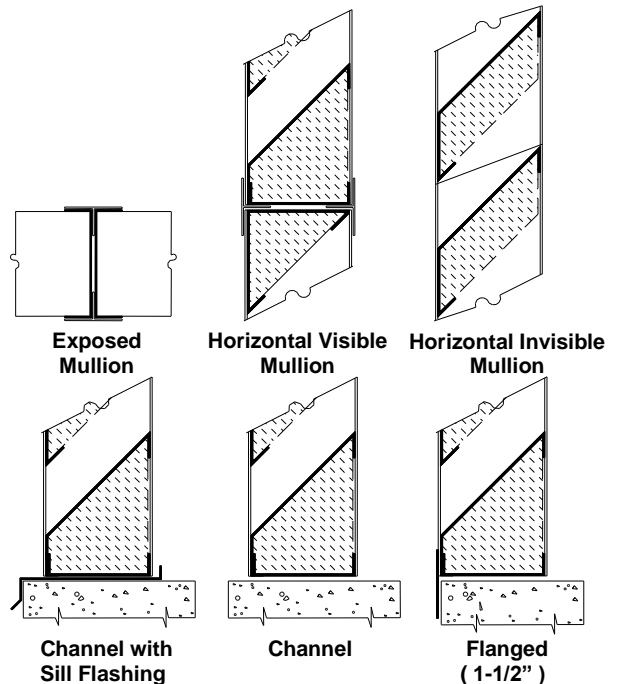
TYPICAL VERTICAL SECTION

STANDARD LOUVER CONSTRUCTION

- Frames:** .Channel, 16 gauge galvanized steel
- Blades:** 20 gauge galvanized steel
- Fasteners:** Mechanical type plated steel rivets on face
- Screen:** 1/2" mesh x 19 gauge no frame
- Finish:** Mill
- Undersized:** 1/4" under opening sizes
- Mullions:** Visible
- Minimum size:** 12" x 12"
- Maximum single section:** 60" x 120"
(Larger sizes are available with heavier gauge)

OPTIONS:

- Material: Heavier gauge, (304 or 316) Stainless steel or 5005-H34 formed aluminum
- Fasteners: Welded construction
- Screen: Insect, aluminum or stainless steel
- Finish: Prime coat, baked enamel, powder coat, Kynar 500
- Mullion: Invisible
- Sill Extension

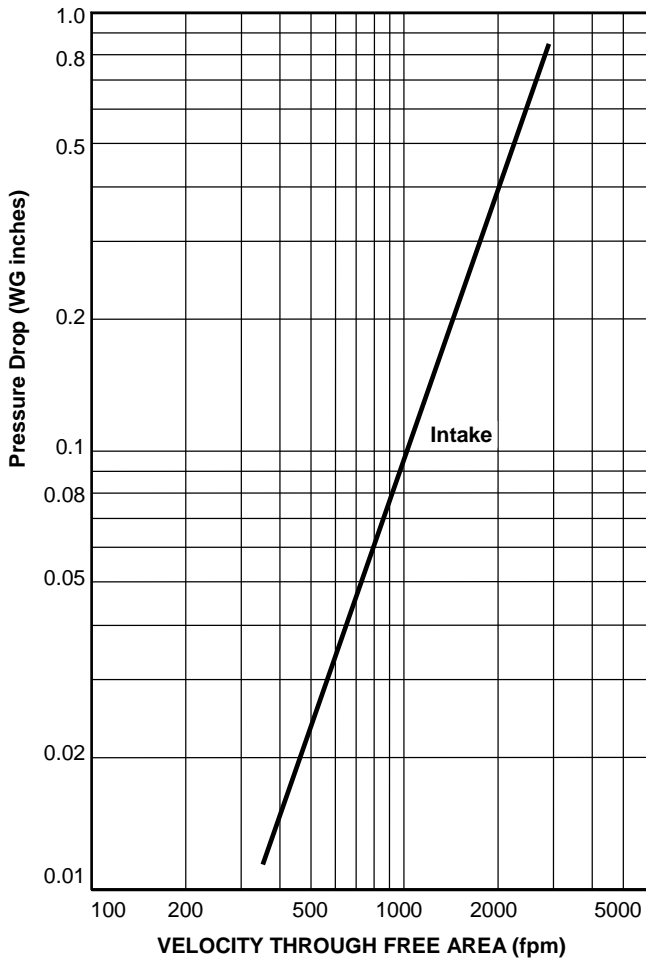


- Free Area
- Air Performance
- Water Penetration

Free Area Calculations (sq. ft.)

		W I D T H (inches)														
		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
H E I G H T (inches)	12															
	18	0.26	0.41	0.57	0.72	0.87	1.02	1.18	1.33	1.48	1.64	1.79	1.94	2.09	2.25	2.40
	24	0.31	0.49	0.67	0.86	1.04	1.22	1.40	1.59	1.77	1.95	2.13	2.32	2.50	2.68	2.86
	30	0.56	0.90	1.23	1.57	1.90	2.24	2.58	2.91	3.25	3.58	3.92	4.25	4.59	4.92	5.26
	36	0.61	0.98	1.34	1.71	2.07	2.44	2.80	3.17	3.53	3.90	4.26	4.63	4.99	5.36	5.72
	42	0.87	1.39	1.90	2.42	2.94	3.46	3.97	4.49	5.01	5.53	6.04	6.56	7.08	7.60	8.12
	48	0.92	1.46	2.01	2.56	3.11	3.65	4.20	4.75	5.29	5.84	6.39	6.94	7.48	8.03	8.58
	54	1.17	1.87	2.57	3.27	3.97	4.67	5.37	6.07	6.77	7.47	8.17	8.87	9.57	10.27	10.97
	60	1.22	1.95	2.68	3.41	4.14	4.87	5.60	6.33	7.06	7.79	8.52	9.25	9.98	10.71	11.44
	66	1.48	2.36	3.24	4.12	5.01	5.89	6.77	7.65	8.54	9.42	10.30	11.18	12.07	12.95	13.83
	72	1.52	2.44	3.35	4.26	5.17	6.08	7.00	7.91	8.82	9.73	10.64	11.56	12.47	13.38	14.29
	78	1.78	2.84	3.91	4.97	6.04	7.10	8.17	9.23	10.30	11.36	12.43	13.49	14.56	15.62	16.69
	84	1.83	2.92	4.02	5.11	6.21	7.30	8.40	9.49	10.58	11.68	12.77	13.87	14.96	16.06	17.15
	90	2.08	3.33	4.58	5.83	7.07	8.32	9.57	10.81	12.06	13.31	14.56	15.80	17.05	18.30	19.55
96	2.13	3.41	4.69	5.96	7.24	8.52	9.79	11.07	12.35	13.62	14.90	16.18	17.45	18.73	20.01	
102	2.39	3.82	5.25	6.68	8.11	9.54	10.97	12.40	13.83	15.25	16.68	18.11	19.54	20.97	22.40	
108	2.44	3.90	5.36	6.81	8.27	9.73	11.19	12.65	14.11	15.57	17.03	18.49	19.95	21.41	22.87	
114	2.69	4.30	5.92	7.53	9.14	10.75	12.36	13.98	15.59	17.20	18.81	20.42	22.04	23.65	25.26	
120	2.74	4.38	6.02	7.67	9.31	10.95	12.59	14.23	15.87	17.51	19.16	20.80	22.44	24.08	25.72	

Air Performance



Tests for Air Flow Louver Model

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The sound data shown are in accordance ASTM E90 and ASTM E413.

OCTAVE BANDS								
Frequency (hz)	1	2	3	4	5	6	7	8
	63	125	250	500	1000	2000	4000	8000
Transmission Loss (DB)	9	8	8	14	19	9	15	9
Free Field Noise Reduction (DB)	15	14	14	20	25	15	21	15

Water Penetration

Beginning of water penetration = 1050 FPM
(15 minutes duration)

