



PERFORMANCE LOUVERS



LOUVER TYPES **MSLB-100**





MASON ACOUSTICS

LOUVER TYPES MSLB-100



Fixed Blade Louver

Model	MSLB-100
Material	Aluminum
Blade	1/16 in. (1.5 mm)
Frame	1/13 in. (2 mm)
Louver Depth	5 1/3 in. (135 mm)
Louver Depth without Frame	3 1/3 in. (85 mm)
Blade Angle	55°
Blade Pitch	2 3/4 in. (70 mm)
Percent Free Area	61.00%
Wind Driven Rain at 3 in./hr (75 mm/hr) with Wind Velocity of 29 mph (13 m/s)	Class C

RECOMMENDED SPECIFICATION

General

Furnish and install louvers type MSLB-100 as indicated on the architectural drawings as designed and manufactured by Mason Acoustics.

Submittals

Manufacturer shall submit shop drawings incorporating key plan, elevations, sections and details showing profiles, and anchorage details.

Material

The louver systems shall consist of horizontal louver blades with 1/16 in. (1.5 mm) thick, vertical mullions with 2 in. x 2 in. (50 mm x 50 mm) by minimum 1/13 in. (2 mm) thick in square box shape from aluminum. The blade angle shall be 55° with blade pitch 2 3/4 in. (70 mm). All louvers to be furnished with aluminum flattened expanded mesh bird screen or aluminum insect screen as specified.

Performance Data

The manufacturer shall submit test data on a 48 in. wide x 48 in. high (1220 mm x1220 mm). louver unit showing that the test data is conformed to AMCA 500-L as follows;



Percent Free Area 61.00%
 Wind Driven Rain at 3 in./hr
 (75 mm/hr) with Wind Velocity
 of 29 mph (13 m/s)..... Class C
 Discharge loss coefficient Class..... Class 1
 Pressure Drop for Intake at 2.5 m/s face velocity..... 8 Pa.

Finish

The louvers shall be finished with electrostatic powder coating or Kynar 500 PVDF finishes.

PERFORMANCE DATA MODEL MSLB-100

Aerodynamic & Wind Driven Rain Test

Mason Acoustics is the member of “AMCA”, Air Movement and Control Association International Mason Performance Louvers have been tested in accordance with the International Standard.

Wind Driven Test



Wind Driven Rain Test conducted according to AMCA 500-L Figures 5.11

Wind Driven Rain Penetration Classifications	
Class	Effectiveness %
A	1 to 0.99%
B	0.989 to 0.95%
C	0.959 to 0.80%
D	below 0.80%

WIND DRIVEN RAIN CLASSIFICATION

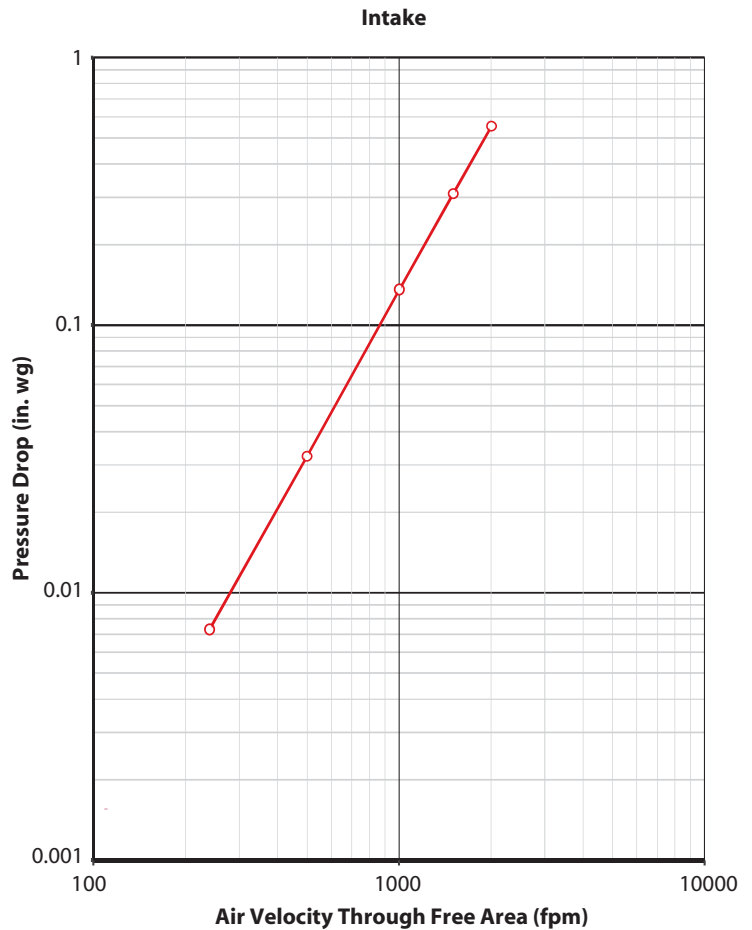
Core Velocity Through Louver		Water Penetration Effectiveness	Water Penetration Classification	Rain Fall		Wind Velocity	
fpm	m/s	E (%)	Class	in/hr	mm/hr	mph	m/s
0	0	95.4	B	3	75	29	13
130	0.66	94.5	C				
199	1.01	93.8	C				
285	1.45	93.2	C				
380	1.93	92.6	C				
473	2.40	91.2	C				
583	2.96	88.6	C				
686	3.48	84.8	C				

TABLE OF FREE AREA (SQ.FT) MSLB-100

Width (Inches)

Height (Inches)	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144	150	156	162
12	0.61	0.92	1.22	1.53	1.83	2.14	2.44	2.75	3.05	3.36	3.66	3.97	4.27	4.58	4.88	5.19	5.49	5.8	6.1	6.41	6.71	7.02	7.32	7.63	7.93	8.24
18	0.92	1.37	1.83	2.29	2.75	3.2	3.66	4.12	4.58	5.03	5.49	5.95	6.41	6.86	7.32	7.78	8.24	8.69	9.15	9.61	10.1	10.5	11	11.4	11.9	12.4
24	1.22	1.83	2.44	3.05	3.66	4.27	4.88	5.49	6.1	6.71	7.32	7.93	8.54	9.15	9.76	10.4	11	11.6	12.2	12.8	13.4	14	14.6	15.3	15.9	16.5
30	1.53	2.29	3.05	3.81	4.58	5.34	6.1	6.86	7.63	8.39	9.15	9.91	10.7	11.4	12.2	13	13.7	14.5	15.3	16	16.8	17.5	18.3	19.1	19.8	20.6
36	1.83	2.75	3.66	4.58	5.49	6.41	7.32	8.24	9.15	10.1	11	11.9	12.8	13.7	14.6	15.6	16.5	17.4	18.3	19.2	20.1	21	22	22.9	23.8	24.7
42	2.14	3.2	4.27	5.34	6.41	7.47	8.54	9.61	10.7	11.7	12.8	13.9	14.9	16	17.1	18.1	19.2	20.3	21.4	22.4	23.5	24.6	25.6	26.7	27.8	28.8
48	2.44	3.66	4.88	6.1	7.32	8.54	9.76	11	12.2	13.4	14.6	15.9	17.1	18.3	19.5	20.7	22	23.2	24.4	25.6	26.8	28.1	29.3	30.5	31.7	32.9
54	2.75	4.12	5.49	6.86	8.24	9.61	11	12.4	13.7	15.1	16.5	17.8	19.2	20.6	22	23.3	24.7	26.1	27.5	28.8	30.2	31.6	32.9	34.3	35.7	37.1
60	3.05	4.58	6.1	7.63	9.15	10.7	12.2	13.7	15.3	16.8	18.3	19.8	21.4	22.9	24.4	25.9	27.5	29	30.5	32	33.6	35.1	36.6	38.1	39.7	41.2
66	3.36	5.03	6.71	8.39	10.1	11.7	13.4	15.1	16.8	18.5	20.1	21.8	23.5	25.2	26.8	28.5	30.2	31.9	33.6	35.2	36.9	38.6	40.3	41.9	43.6	45.3
72	3.66	5.49	7.32	9.15	11	12.8	14.6	16.5	18.3	20.1	22	23.8	25.6	27.5	29.3	31.1	32.9	34.8	36.6	38.4	40.3	42.1	43.9	45.8	47.6	49.4
78	3.97	5.95	7.93	9.91	11.9	13.9	15.9	17.8	19.8	21.8	23.8	25.8	27.8	29.7	31.7	33.7	35.7	37.7	39.7	41.6	43.6	45.6	47.6	49.6	51.5	53.5
84	4.27	6.41	8.54	10.7	12.8	14.9	17.1	19.2	21.4	23.5	25.6	27.8	29.9	32	34.2	36.3	38.4	40.6	42.7	44.8	47	49.1	51.2	53.4	55.5	57.6
90	4.58	6.86	9.15	11.4	13.7	16	18.3	20.6	22.9	25.2	27.5	29.7	32	34.3	36.6	38.9	41.2	43.5	45.8	48	50.3	52.6	54.9	57.2	59.5	61.8
96	4.88	7.32	9.76	12.2	14.6	17.1	19.5	22	24.4	26.8	29.3	31.7	34.2	36.6	39	41.5	43.9	46.4	48.8	51.2	53.7	56.1	58.6	61	63.4	65.9
102	5.19	7.78	10.4	13	15.6	18.1	20.7	23.3	25.9	28.5	31.1	33.7	36.3	38.9	41.5	44.1	46.7	49.3	51.9	54.4	57	59.6	62.2	64.8	67.4	70
108	5.49	8.24	11	13.7	16.5	19.2	22	24.7	27.5	30.2	32.9	35.7	38.4	41.2	43.9	46.7	49.4	52.2	54.9	57.6	60.4	63.1	65.9	68.6	71.4	74.1
114	5.8	8.69	11.6	14.5	17.4	20.3	23.2	26.1	29	31.9	34.8	37.7	40.6	43.5	46.4	49.3	52.2	55.1	58	60.8	63.7	66.6	69.5	72.4	75.3	78.2
120	6.1	9.15	12.2	15.3	18.3	21.4	24.4	27.5	30.5	33.6	36.6	39.7	42.7	45.8	48.8	51.9	54.9	58	61	64.1	67.1	70.2	73.2	76.3	79.3	82.4
126	6.41	9.61	12.8	16	19.2	22.4	25.6	28.8	32	35.2	38.4	41.6	44.8	48	51.2	54.4	57.6	60.8	64.1	67.3	70.5	73.7	76.9	80.1	83.3	86.5
132	6.71	10.1	13.4	16.8	20.1	23.5	26.8	30.2	33.6	36.9	40.3	43.6	47	50.3	53.7	57	60.4	63.7	67.1	70.5	73.8	77.2	80.5	83.9	87.2	90.6
138	7.02	10.5	14	17.5	21	24.6	28.1	31.6	35.1	38.6	42.1	45.6	49.1	52.6	56.1	59.6	63.1	66.6	70.2	73.7	77.2	80.7	84.2	87.7	91.2	94.7
144	7.32	11	14.6	18.3	22	25.6	29.3	32.9	36.6	40.3	43.9	47.6	51.2	54.9	58.6	62.2	65.9	69.5	73.2	76.9	80.5	84.2	87.8	91.5	95.2	98.8
150	7.63	11.4	15.3	19.1	22.9	26.7	30.5	34.3	38.1	41.9	45.8	49.6	53.4	57.2	61	64.8	68.6	72.4	76.3	80.1	83.9	87.7	91.5	95.3	99.1	103
156	7.93	11.9	15.9	19.8	23.8	27.8	31.7	35.7	39.7	43.6	47.6	51.5	55.5	59.5	63.4	67.4	71.4	75.3	79.3	83.3	87.2	91.2	95.2	99.1	103	107
162	8.24	12.4	16.5	20.6	24.7	28.8	32.9	37.1	41.2	45.3	49.4	53.5	57.6	61.8	65.9	70	74.1	78.2	82.4	86.5	90.6	94.7	98.8	103	107	111

Free Area Velocity (fpm)	Pressure Drop (in.wg.)	Discharge Loss Coefficient Class
2009	0.56	1
1505	0.31	1
1002	0.14	1
500	0.03	1
240	0.01	1



MASON ACOUSTICS certifies that the louver MSLB-100 shown herein is licensed to bear the AMCA SEAL. The ratings shown are based on tests and procedures performed in accordance with AMCA PUBLICATION 511 and comply with the requirement of the AMCA CERTIFIED RATINGS PROGRAM. The AMCA CERTIFIED RATINGS SEAL applies to WIND DRIVEN RAIN RATINGS and Air Performance for MSLB-100 Louver.