



PERFORMANCE LOUVERS



LOUVER TYPES **MDLA-200**





MASON ACOUSTICS

LOUVER TYPES MDLA-200



Fixed Blade Louver

Model	MDLA-200
Material	Aluminum
Blade	1/16 in. (1.5 mm)
Frame	1/13 in. (2 mm)
Louver Depth	5 6/10 in. (142 mm)
Front Blade Angle	55°
Blade Pitch	2 3/4 in. (70 mm)
Percent Free Area	47.56%
Wind Driven Rain at 3 in./hr (75 mm/hr) with Wind Velocity of 29 mph (13 m/s)	Class A

RECOMMENDED SPECIFICATION

General

Furnish and install louvers type MDLA-200 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 be Two-Piece Blades System consisting of the front horizontal louver blades with 1/16 in. (1.5 mm) thick, and the back horizontal louver blades with drainage gutters design of 1/16 in. (1.5 mm) thick, to transport rainwater to drainable vertical mullions, heads, sills, and jambs with minimum 1/13 in. (2 mm) thick from aluminum. The front 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 47.56%
 Wind Driven Rain at 3 in./hr
 (75 mm/hr) with Wind Velocity
 of 29 mph (13 m/s)..... Class A
 Discharge loss coefficient Class..... Class 3
 Pressure Drop for Intake at 2.5 m/s face velocity..... 13.2 Pa.

Finish

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

PERFORMANCE DATA MODEL MDLA-200

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 E (%)	Water Penetration Classification Class	Rain Fall		Wind Velocity	
fpm	m/s			in/hr	mm/hr	mph	m/s
193	0.98	99.7	A	3	75	29	13
286	1.45	99.4	A				
375	1.91	99.0	A				
479	2.43	98.5	B				
588	2.99	92.6	C				
674	3.42	89.5	C				

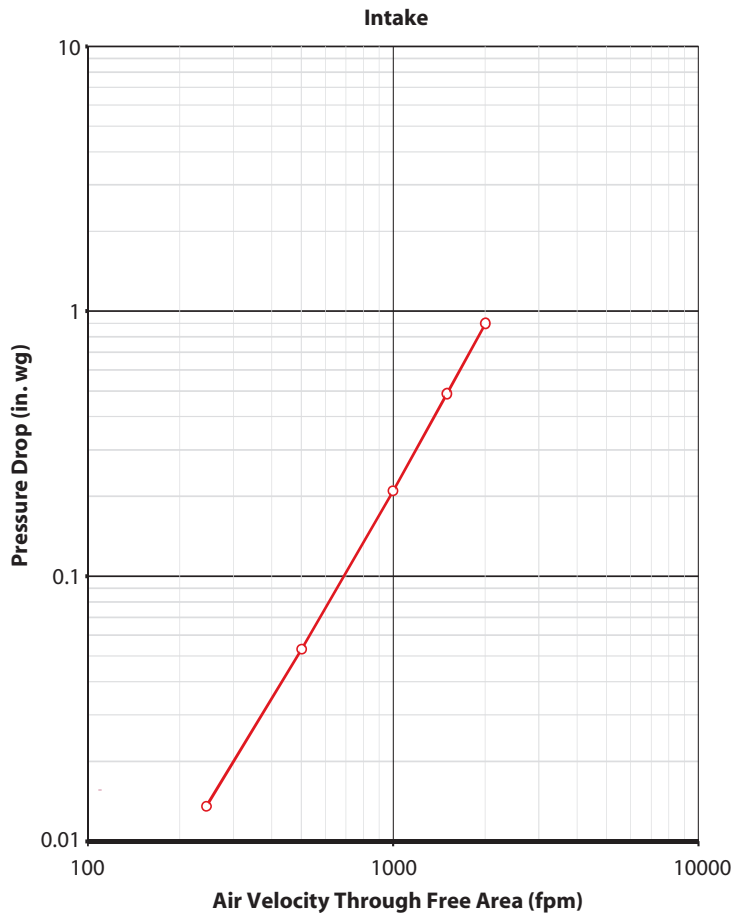
TABLE OF FREE AREA (SQ.FT) MDLA-200

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	0.46	0.68	0.91	1.14	1.37	1.6	1.82	2.05	2.28	2.51	2.74	2.96	3.19	3.42	3.65	3.88	4.1	4.33	4.56	4.79	5.02	5.24	5.47	5.7	5.93	6.16
18	0.68	1.03	1.37	1.71	2.05	2.39	2.74	3.08	3.42	3.76	4.1	4.45	4.79	5.13	5.47	5.81	6.16	6.5	6.84	7.18	7.52	7.87	8.21	8.55	8.89	9.23
24	0.91	1.37	1.82	2.28	2.74	3.19	3.65	4.1	4.56	5.02	5.47	5.93	6.38	6.84	7.3	7.75	8.21	8.66	9.12	9.58	10	10.5	10.9	11.4	11.9	12.3
30	1.14	1.71	2.28	2.85	3.42	3.99	4.56	5.13	5.7	6.27	6.84	7.41	7.98	8.55	9.12	9.69	10.3	10.8	11.4	12	12.5	13.1	13.7	14.3	14.8	15.4
36	1.37	2.05	2.74	3.42	4.1	4.79	5.47	6.16	6.84	7.52	8.21	8.89	9.58	10.3	10.9	11.6	12.3	13	13.7	14.4	15	15.7	16.4	17.1	17.8	18.5
42	1.6	2.39	3.19	3.99	4.79	5.59	6.38	7.18	7.98	8.78	9.58	10.4	11.2	12	12.8	13.6	14.4	15.2	16	16.8	17.6	18.4	19.2	20	20.7	21.5
48	1.82	2.74	3.65	4.56	5.47	6.38	7.3	8.21	9.12	10	10.9	11.9	12.8	13.7	14.6	15.5	16.4	17.3	18.2	19.2	20.1	21	21.9	22.8	23.7	24.6
54	2.05	3.08	4.1	5.13	6.16	7.18	8.21	9.23	10.3	11.3	12.3	13.3	14.4	15.4	16.4	17.4	18.5	19.5	20.5	21.5	22.6	23.6	24.6	25.7	26.7	27.7
60	2.28	3.42	4.56	5.7	6.84	7.98	9.12	10.3	11.4	12.5	13.7	14.8	16	17.1	18.2	19.4	20.5	21.7	22.8	23.9	25.1	26.2	27.4	28.5	29.6	30.8
66	2.51	3.76	5.02	6.27	7.52	8.78	10	11.3	12.5	13.8	15	16.3	17.6	18.8	20.1	21.3	22.6	23.8	25.1	26.3	27.6	28.8	30.1	31.4	32.6	33.9
72	2.74	4.1	5.47	6.84	8.21	9.58	10.9	12.3	13.7	15	16.4	17.8	19.2	20.5	21.9	23.3	24.6	26	27.4	28.7	30.1	31.5	32.8	34.2	35.6	36.9
78	2.96	4.45	5.93	7.41	8.89	10.4	11.9	13.3	14.8	16.3	17.8	19.3	20.7	22.2	23.7	25.2	26.7	28.2	29.6	31.1	32.6	34.1	35.6	37.1	38.5	40
84	3.19	4.79	6.38	7.98	9.58	11.2	12.8	14.4	16	17.6	19.2	20.7	22.3	23.9	25.5	27.1	28.7	30.3	31.9	33.5	35.1	36.7	38.3	39.9	41.5	43.1
90	3.42	5.13	6.84	8.55	10.3	12	13.7	15.4	17.1	18.8	20.5	22.2	23.9	25.7	27.4	29.1	30.8	32.5	34.2	35.9	37.6	39.3	41	42.8	44.5	46.2
96	3.65	5.47	7.3	9.12	10.9	12.8	14.6	16.4	18.2	20.1	21.9	23.7	25.5	27.4	29.2	31	32.8	34.7	36.5	38.3	40.1	42	43.8	45.6	47.4	49.2
102	3.88	5.81	7.75	9.69	11.6	13.6	15.5	17.4	19.4	21.3	23.3	25.2	27.1	29.1	31	32.9	34.9	36.8	38.8	40.7	42.6	44.6	46.5	48.5	50.4	52.3
108	4.1	6.16	8.21	10.3	12.3	14.4	16.4	18.5	20.5	22.6	24.6	26.7	28.7	30.8	32.8	34.9	36.9	39	41	43.1	45.1	47.2	49.2	51.3	53.4	55.4
114	4.33	6.5	8.66	10.8	13	15.2	17.3	19.5	21.7	23.8	26	28.2	30.3	32.5	34.7	36.8	39	41.2	43.3	45.5	47.7	49.8	52	54.2	56.3	58.5
120	4.56	6.84	9.12	11.4	13.7	16	18.2	20.5	22.8	25.1	27.4	29.6	31.9	34.2	36.5	38.8	41	43.3	45.6	47.9	50.2	52.4	54.7	57	59.3	61.6
126	4.79	7.18	9.58	12	14.4	16.8	19.2	21.5	23.9	26.3	28.7	31.1	33.5	35.9	38.3	40.7	43.1	45.5	47.9	50.3	52.7	55.1	57.5	59.9	62.2	64.6
132	5.02	7.52	10	12.5	15	17.6	20.1	22.6	25.1	27.6	30.1	32.6	35.1	37.6	40.1	42.6	45.1	47.7	50.2	52.7	55.2	57.7	60.2	62.7	65.2	67.7
138	5.24	7.87	10.5	13.1	15.7	18.4	21	23.6	26.2	28.8	31.5	34.1	36.7	39.3	42	44.6	47.2	49.8	52.4	55.1	57.7	60.3	62.9	65.6	68.2	70.8
144	5.47	8.21	10.9	13.7	16.4	19.2	21.9	24.6	27.4	30.1	32.8	35.6	38.3	41	43.8	46.5	49.2	52	54.7	57.5	60.2	62.9	65.7	68.4	71.1	73.9
150	5.7	8.55	11.4	14.3	17.1	20	22.8	25.7	28.5	31.4	34.2	37.1	39.9	42.8	45.6	48.5	51.3	54.2	57	59.9	62.7	65.6	68.4	71.3	74.1	77
156	5.93	8.89	11.9	14.8	17.8	20.7	23.7	26.7	29.6	32.6	35.6	38.5	41.5	44.5	47.4	50.4	53.4	56.3	59.3	62.2	65.2	68.2	71.1	74.1	77.1	80
162	6.16	9.23	12.3	15.4	18.5	21.5	24.6	27.7	30.8	33.9	36.9	40	43.1	46.2	49.2	52.3	55.4	58.5	61.6	64.6	67.7	70.8	73.9	77	80	83.1

Free Area Velocity (fpm)	Pressure Drop (in.wg.)	Discharge Loss Coefficient Class
2005	0.9	3
1504	0.49	3
999	0.21	3
502	0.05	3
1	2	3



MASON ACOUSTICS certifies that the louver MDLA-200 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 MDLA-200 Louver.