

EAL6811M ADJUSTABLE ACOUSTICAL LOUVER EXTRUDED ALUMINUM

STANDARD CONSTRUCTION

FRAME

6" (152) deep, 6063T5 extruded aluminum, .125" (3.2) nominal wall thickness. Caulking surfaces provided.

BLADES

6063T5 extruded aluminum, .081" (2.1) exterior surface nominal wall thickness with .040" (1) perforated aluminum interior surface. Blades are positioned at 45° angle and spaced approximately 4⁵/₈" (118) center to center.

INSULATION

1" (25) fiberglass.

SCREEN

3/4" x .051" (19 X 1.3) expanded, flattened aluminum bird screen in removable frame. Screen adds approximately 1/2" (13) to louver depth.

LINKAGE

Concealed in frame.

BEARINGS

Stainless steel sleeve pressed into frame.

AXLES

1/2" (13) plated steel hex.

ACTUATOR

Locking louver quadrant.

FINISH

Mill.

MINIMUM SIZE

12"w x 12" h (305 x 305).

APPROXIMATE SHIPPING WEIGHT

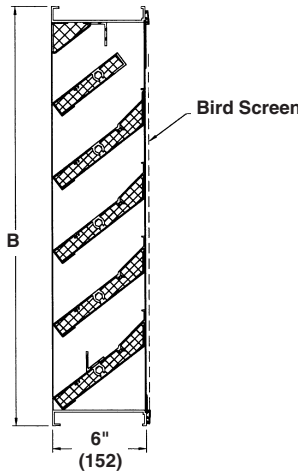
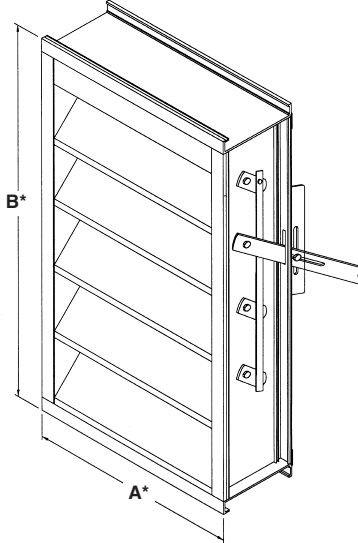
6 lbs./ft.² (29.2 kg per m²).

MAXIMUM FACTORY ASSEMBLY SIZE

Shall be 64 sq. ft. (6m²). Maximum single section size shall be 60"w x 96"h (1524 x 2438), with optional jamb seals 48"w x 96"h (1219 x 2438).

Louvers larger than the maximum factory assembly size will require field assembly of smaller sections.

Consult Ruskin for additional information.



FEATURES

The EAL6811M offers:

- 30% Free Area.
- Published performance ratings based on testing in accordance with AMCA Publication 511.
- Aluminum construction for low maintenance and high resistance to corrosion.

VARIATIONS

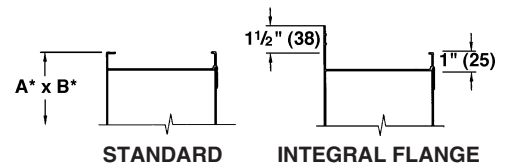
Variations to the basic design of the louver are available at additional cost. They include:

- Extended sill.
- Hinged frame.
- Front or rear security bars.
- Filter racks.
- A variety of bird and insect screens.
- Installation angles.
- Selection of finishes: prime coat, baked enamel (modified fluoropolymer), epoxy, Acrodize, Kynar, clear and color anodize. (Some variation in anodize color consistency is possible).

Consult Ruskin for other special requirements.

Octave Band Frequency (Hz)	Free Field Noise Reduction (db) 1" (25) Fiberglass Insulation
1/63	9
2/125	7
3/250	8
4/500	9
5/1000	10
6/2000	15
7/4000	16
8/8000	19

FRAME CONSTRUCTION



Dimensions in parenthesis () indicate millimeters.

*Unit furnished 1/4" (6) smaller than given opening dimensions.

TAG	QTY.	SIZE		FRAME	VARIATIONS
		A*-WIDE	B*-HIGH		
PROJECT ARCH./ENGR. REPRESENTATIVE			LOCATION CONTRACTOR DATE		

SUGGESTED SPECIFICATION

Furnish and install louvers as hereinafter specified where shown on plans or as described in schedules. Louvers shall be adjustable type. Louvers shall have a minimum of 30% free area based on a 48" wide x 48" high (1219 x 1219) size. Adjustable blades shall be contained within a 6" (152) frame. Louver components (heads, jambs, sills, blades & mullions) shall be factory assembled by the louver manufacturer. Louver sizes too large for shipping shall be built up by the contractor from factory assembled louver sections to provide overall sizes required. Louver design shall incorporate structural supports required to withstand a wind load of 20 lbs. per sq. ft. (.96kPa) (equivalent of a 90 mph [145 KPH] wind - specifier may substitute any loading required).

Louvers shall be Ruskin Model EAL6811M extruded 6063T5 aluminum alloy construction as follows:

Frame: 6" (152) deep, .125" (3.2) wall thickness.

Blades: .081" (2.1) wall thickness exterior surface with .040" (1) perforated aluminum interior surface, filled with 1" (25) fiberglass insulation. Blades positioned at 45° angle and spaced approximately 4⁵/₈" (118) center to center.

Screen: 3/4" x .051" (19 x 1.3) expanded, flattened aluminum in removable frame.

Finish: Select finish specification from Ruskin Finishes Brochure.

Published louver performance data bearing the AMCA Certified Ratings Seal for Air Performance & Water Penetration must be submitted for approval prior to fabrication and must demonstrate pressure drop and water penetration equal to or less than the Ruskin model specified.

PERFORMANCE DATA

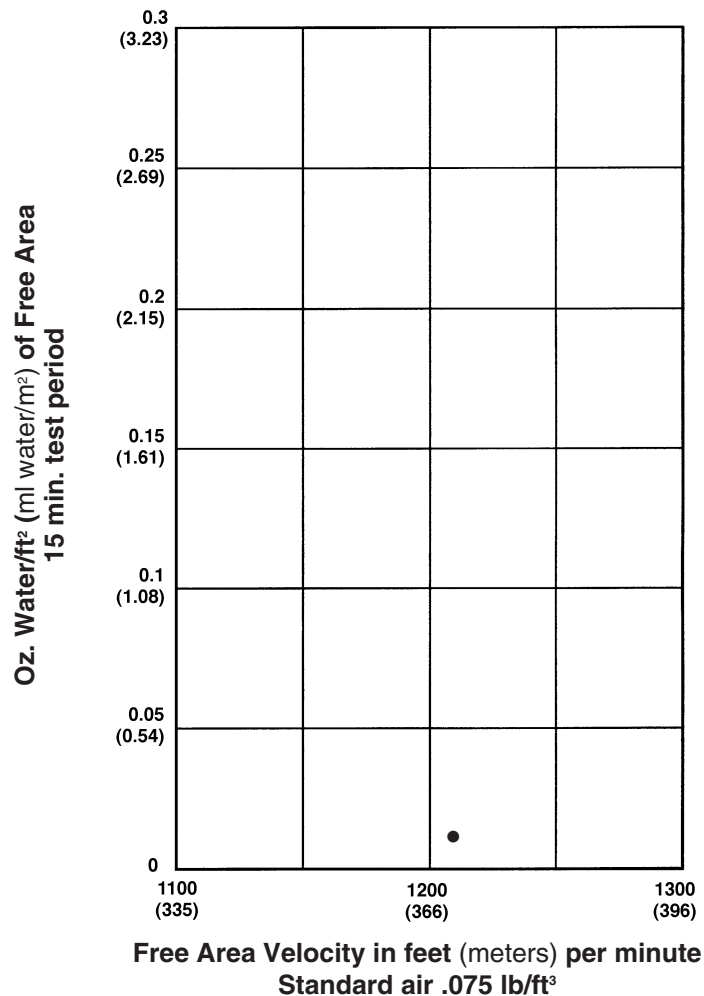
AMCA Standard 500 provides a reasonable basis for testing and rating louvers. Testing to AMCA 500 is performed under a certain set of laboratory conditions. This does not guarantee that other conditions will not occur in the actual environment where louvers must operate.

The louver system should be designed with a reasonable safety factor for louver performance. To ensure protection from water carryover, design with a performance level somewhat below maximum desired pressure drop and .01 oz./sq. ft. of water penetration.

WATER PENETRATION

Test size 48" wide x 48" high (1219 x 1219)

Beginning point of water penetration at .01 oz./sq. ft. is above 1250 fpm (381 m/min).



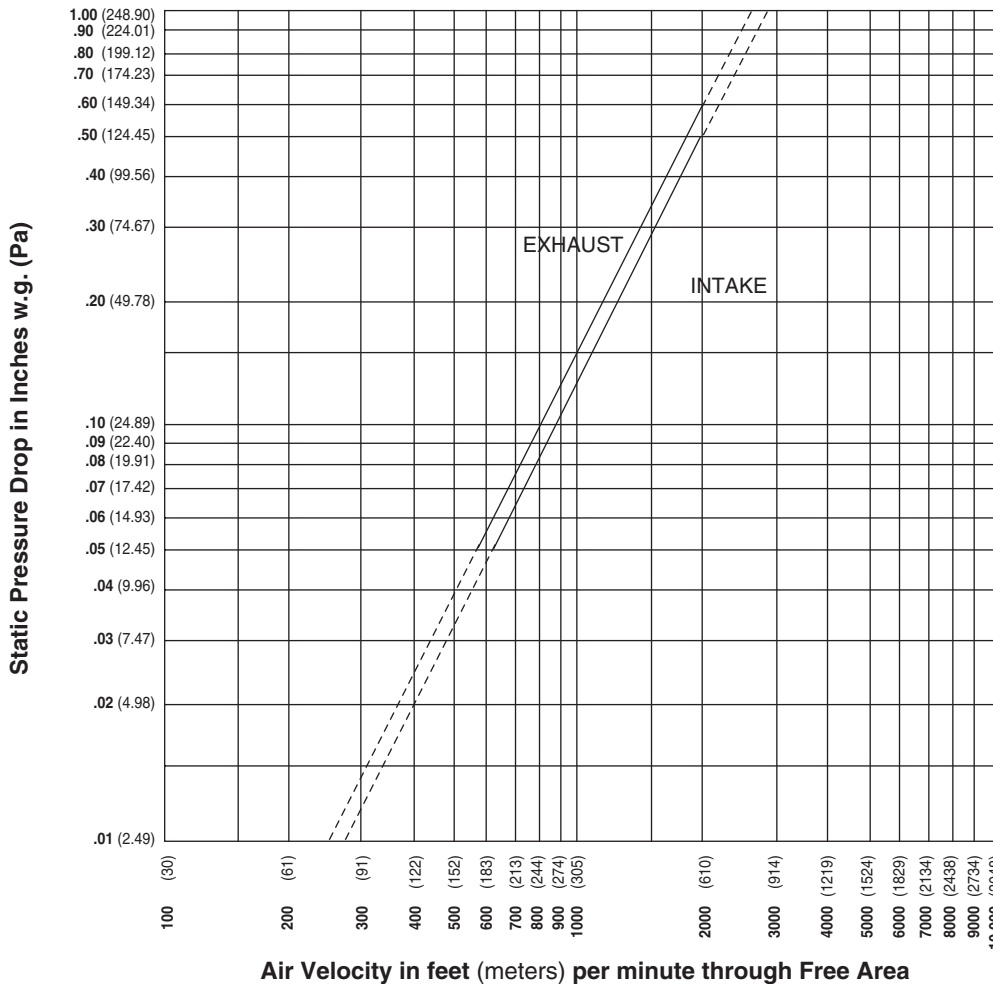
FREE AREA GUIDE

Free Area Guide shows free area in ft² and m² for various sizes of EAL6811M
Width – Inches and Meters

	12	18	24	30	36	42	48	54	60
	0.30	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52
12	0.14	0.22	0.30	0.38	0.47	0.55	0.63	0.71	0.80
0.30	0.01	0.02	0.03	0.04	0.04	0.05	0.06	0.07	0.07
18	0.26	0.42	0.58	0.74	0.90	1.06	1.22	1.37	1.53
0.46	0.02	0.04	0.05	0.07	0.08	0.10	0.11	0.13	0.14
24	0.46	0.75	1.03	1.31	1.59	1.87	2.15	2.44	2.72
0.61	0.04	0.07	0.10	0.12	0.15	0.17	0.20	0.23	0.25
30	0.59	0.95	1.31	1.66	2.02	2.38	2.74	3.10	3.46
0.76	0.05	0.09	0.12	0.15	0.19	0.22	0.25	0.29	0.32
36	0.72	1.15	1.58	2.02	2.45	2.89	3.32	3.76	4.19
0.91	0.07	0.11	0.15	0.19	0.23	0.27	0.31	0.35	0.39
42	0.84	1.36	1.86	2.37	2.89	3.40	3.91	4.42	4.93
1.07	0.08	0.13	0.17	0.22	0.27	0.32	0.36	0.41	0.46
48	1.04	1.68	2.31	2.94	3.58	4.21	4.85	5.48	6.11
1.22	0.10	0.16	0.21	0.27	0.33	0.39	0.45	0.51	0.57
54	1.17	1.88	2.59	3.30	4.01	4.72	5.43	6.14	6.85
1.37	0.11	0.17	0.24	0.31	0.37	0.44	0.50	0.57	0.64
60	1.29	2.08	2.87	3.65	4.44	5.23	6.01	6.80	7.59
1.52	0.12	0.19	0.27	0.34	0.41	0.49	0.56	0.63	0.71
66	1.50	2.41	3.32	4.22	5.13	6.04	6.95	7.86	8.77
1.68	0.14	0.22	0.31	0.39	0.48	0.56	0.65	0.73	0.82
72	1.62	2.61	3.59	4.58	5.57	6.55	7.54	8.52	9.51
1.83	0.15	0.24	0.33	0.43	0.52	0.61	0.70	0.79	0.88
78	1.75	2.81	3.87	4.93	6.00	7.06	8.12	9.18	10.25
1.98	0.16	0.26	0.36	0.46	0.56	0.66	0.76	0.85	0.95
84	1.87	3.01	4.15	5.29	6.43	7.57	8.71	9.84	10.98
2.13	0.17	0.28	0.39	0.49	0.60	0.70	0.81	0.92	1.02
90	2.08	3.34	4.60	5.86	7.12	8.38	9.64	10.91	12.17
2.29	0.19	0.31	0.43	0.54	0.66	0.78	0.90	1.01	1.13
96	2.25	3.62	4.99	6.36	7.73	9.10	10.46	11.83	13.20
2.44	0.21	0.34	0.46	0.59	0.72	0.85	0.97	1.10	1.23

Height – Inches and Meters

PRESSURE DROP



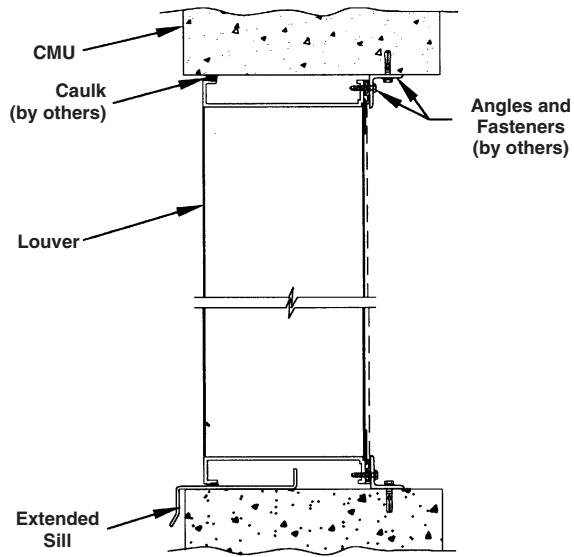
Ratings do not include the effect of a bird screen.



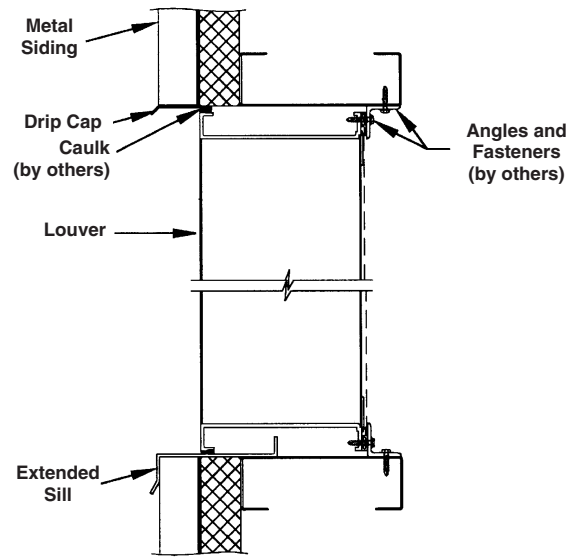
Ruskin Manufacturing Company certifies that the EAL6811M louver shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance ratings and water penetration ratings only.

TYPICAL INSTALLATION DETAILS

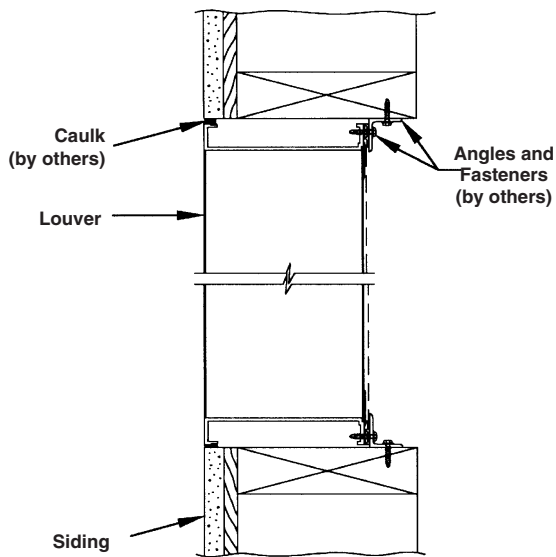
Masonry Wall



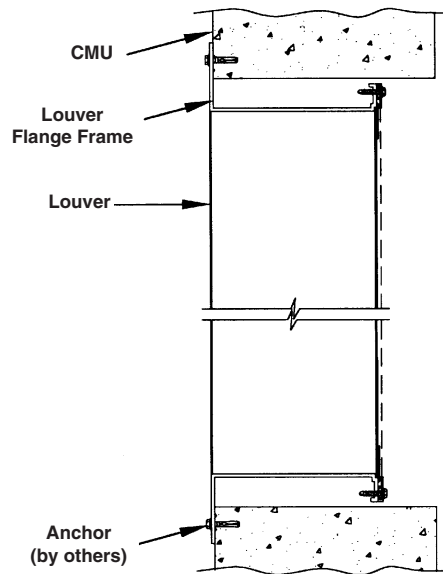
Metal Panel Wall



Wood Installation



Flange Mount



Accessories at additional cost.

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