

EAL6811M

Adjustable Acoustical Louver

Extruded Aluminum



APPLICATION

The EAL6811M is a 6" deep adjustable acoustical louver designed to reduce the noise transmission between areas. This louver is specifically designed for weather protection of intake and exhaust exterior wall applications. It provides high free area and low airflow resistance with sound absorbing insulated blades for areas that require noise separation.

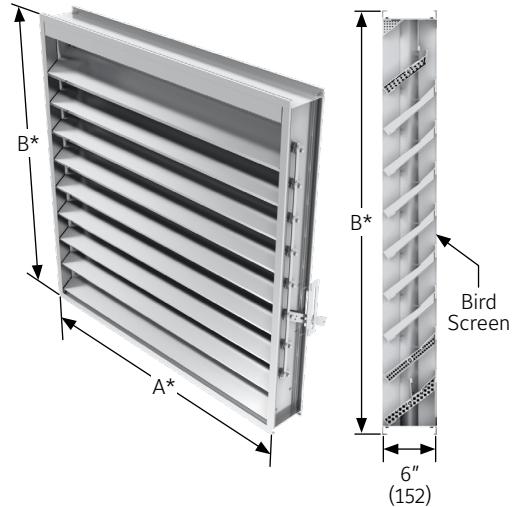
STANDARD CONSTRUCTION

Frame	6" (152) deep, 6063T6 extruded aluminum, .080" (2.0) nominal wall thickness. Caulking surfaces provided.
Blades	6063T6 extruded aluminum, .094" (2.4) exterior surface nominal wall thickness with .040" (1) perforated aluminum interior surface. Blades are positioned at 45° angle and spaced approximately 4 5/8" (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.
Seals	Parafoam blade seal. Aluminum jamb seal.
Linkage	Concealed in frame.
Bearings	Stainless steel sleeve pressed into frame.
Axes	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 m ²).
Maximum Factory Assembly Size	Shall be 64 sq. ft. (6m ²). 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

- ▶ 30% Free Area
- ▶ Aluminum construction for low maintenance and high resistance to corrosion
- ▶ Blade and jamb seals provide tight closure

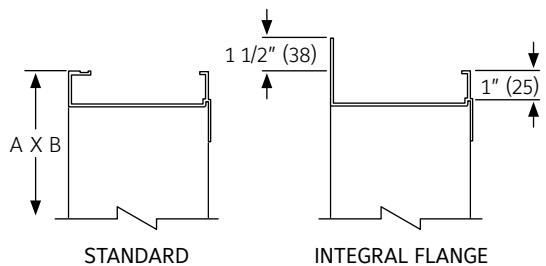


YEAR LIMITED WARRANTY



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



NOTES:

- Dimensions in parenthesis () indicate millimeters.
- Units can be furnished actual size or with size deducts.

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
- ▶ Blade and jamb seals
- ▶ A variety of bird and insect screens
- ▶ Installation angles
- ▶ Optional finishes available at additional cost. Please see [Paint Finishes and Color Guide](#) and [Finish Type Model Chart](#) for more details. Contact louversales@ruskin.com with questions

Consult Ruskin for other special requirements.

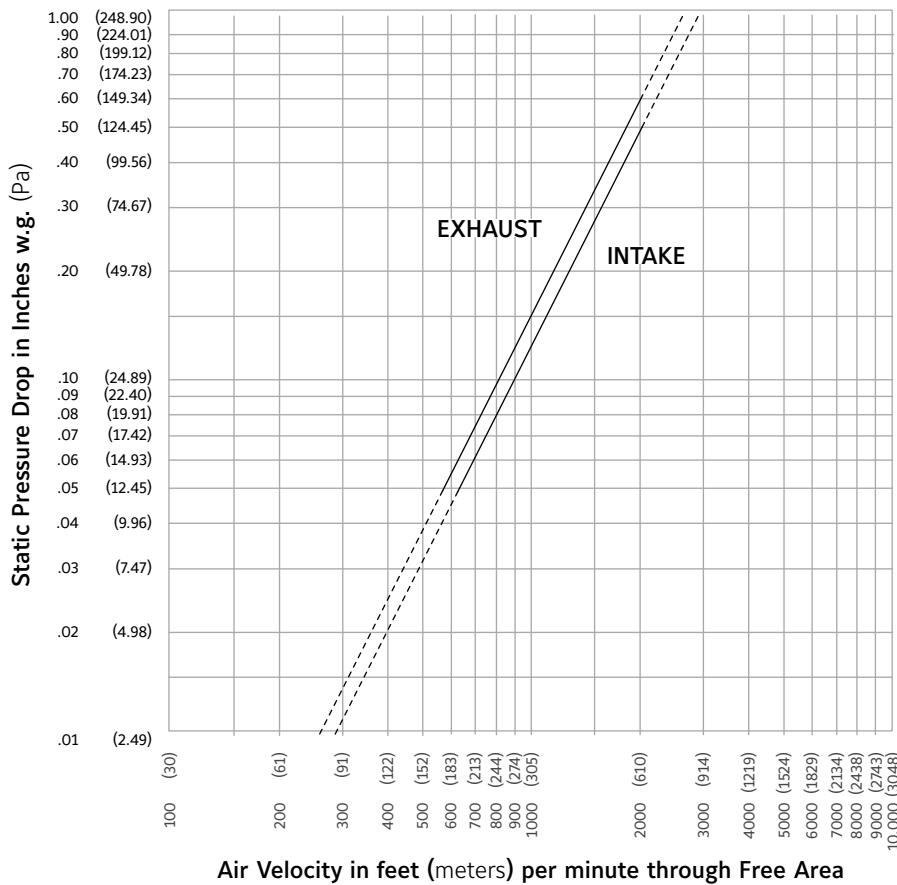
FREE AREA GUIDE

Free Area Guide shows free area in ft² and m² for various sizes of EAL6811M.

Width – Inches and Meters

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

PRESSURE DROP

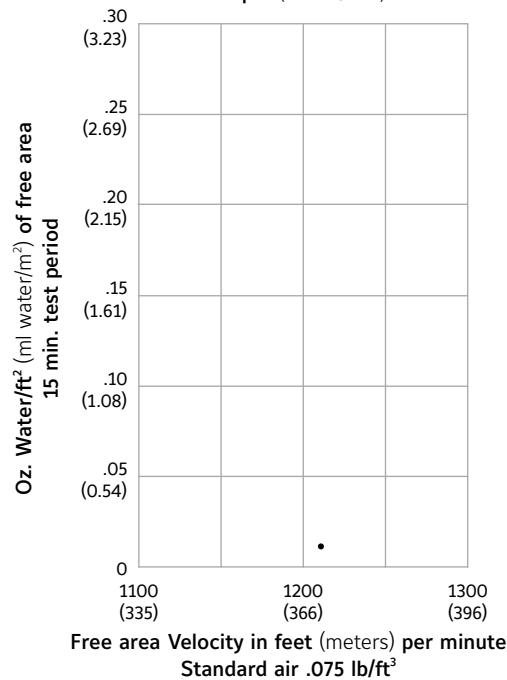


Ratings do not include the effect of a bird screen.

PERFORMANCE DATA

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
1250 fpm (381 m/min).



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 30 lbs. per sq. ft. (1.44kPa) (equivalent of a 110 mph [117 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: .094" (2.4) 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 4 5/8" (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.

LINKS TO IMPORTANT DOCUMENTS

Document Title

Paint Finishes and Color Guide

Limited Warranty Document



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