

ACL1245

Stationary Acoustical Louver Formed Louver



APPLICATION

The ACL1245 is a 12" deep 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	12" (305) deep 16 gauge (1.6) galvanized formed channel or 0.125" thk. (3.1) Aluminum 5005-H34 formed channel.
Blades	18 gauge (1.3) galvanized steel exterior surface with 22 gauge (0.9) perforated steel interior surface. 0.08" thick (2) aluminum 5005-H34 exterior surface with 0.05" thick (1.2) perforated interior surface. Blades positioned at 45° angle and spaced approximately 12" (305) center to center.
Acoustical Insulation	Mineral Wool.
Screen	1/2" mesh x 19 gage (13 x 1.1) galvanized bird screen in removable frame. Screen adds approximately 1/2" (13) to louver depth.
Finish	Mill.
Minimum Size	12"w x 24"h (305 x 610).
Approximate Shipping Weight	11 lbs. per sq. ft. (53.7 kg/m ²).
Maximum Factory Assembly Size	Maximum single section size shall be 60" x 120" (1524 x 3048). Louvers larger than the maximum single section size will require field assembly of smaller sections.

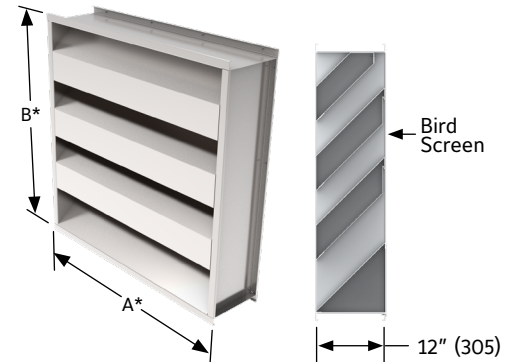
FEATURES

- ▶ Excellent Sound Attenuation (see table)
- ▶ 29% Free Area
- ▶ Beginning point of water penetration at 0.01oz./sq.ft. is 803 fpm (245 m.min.)
- ▶ Published performance rating based on testing in accordance with AMCA publication 511
- ▶ Architecturally pleasing appearance

VARIATIONS

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

- ▶ Various Screens
 - ▶ Extended Sills
 - ▶ Installation Angles, both clip and continuous angles available
 - ▶ Drip Cap
 - ▶ Filter Racks
 - ▶ Security Bars
 - ▶ Intragural Flanges
 - ▶ Glazing Frame
 - ▶ Sleeves
 - ▶ 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

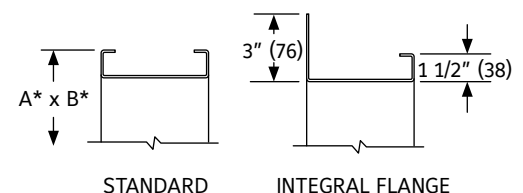


Octave Band Frequency (Hz)	Transmission Loss	Free Field Noise Reduction (db) Ruskatherm Blanket
2/125	7	13
3/250	6	12
4/500	14	20
5/1000	16	22
6/2000	13	19
7/4000	11	17
STC		13
OITC		11

STC stands for Sound Transmission Class.

OITC stands for Outside Indoor Transmission class.

FRAME CONSTRUCTION



NOTES:

- Dimensions in inches, parenthesis () indicated millimeters
- Units can be furnished actual size or with sizes deducts

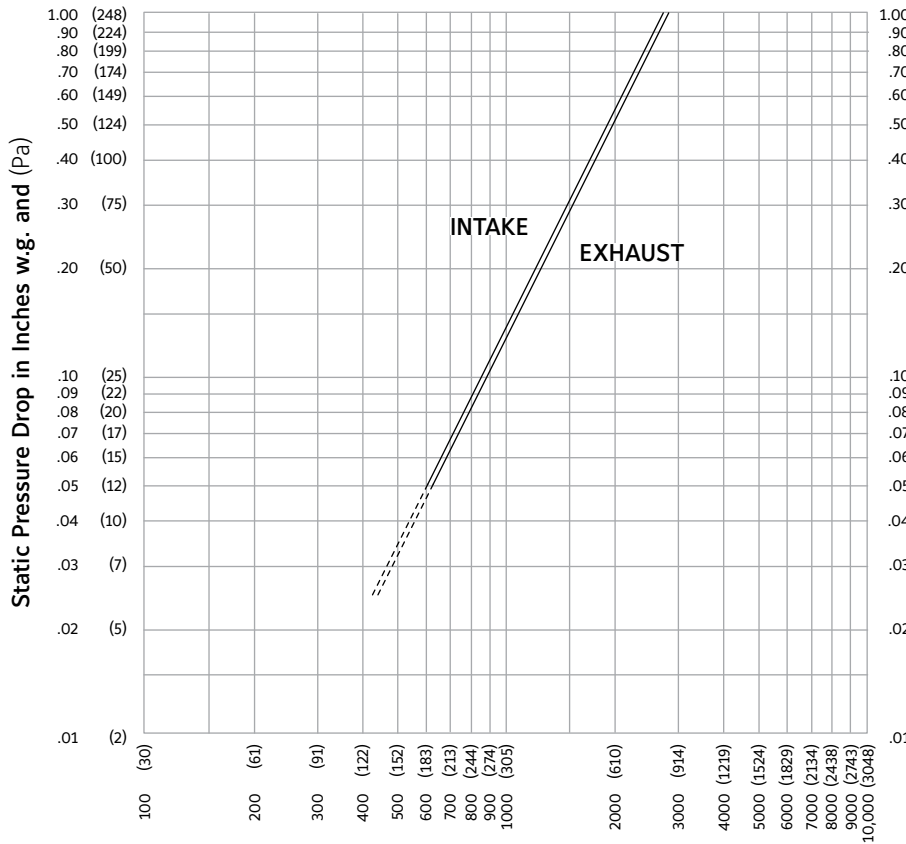
FREE AREA GUIDE

Free Area Guide shows free area in ft² and m² for various sizes of ACL1245.

Width – Inches and Millimeters

		12	18	24	30	36	42	48	54	60
		0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	1.50
Height – Inches and Millimeters	24	0.39	0.65	0.92	1.18	1.44	1.70	1.96	2.22	2.48
	0.60	0.04	0.06	0.09	0.11	0.13	0.16	0.18	0.21	0.23
	30	0.65	1.09	1.52	1.96	2.39	2.83	3.27	3.70	4.14
	0.75	0.05	0.08	0.11	0.14	0.17	0.20	0.23	0.26	0.29
	36	0.65	1.09	1.52	1.96	2.39	2.83	3.27	3.70	4.14
	0.90	0.06	0.10	0.14	0.18	0.22	0.26	0.30	0.34	0.38
	42	0.91	1.52	2.13	2.74	3.35	3.96	4.57	5.18	5.79
	1.05	0.08	0.14	0.20	0.25	0.31	0.37	0.43	0.48	0.54
	48	0.91	1.52	2.13	2.74	3.35	3.96	4.57	5.18	5.79
	1.20	0.08	0.14	0.20	0.25	0.31	0.37	0.43	0.48	0.54
	54	1.17	1.96	2.74	3.52	4.31	5.09	5.87	6.66	7.44
	1.35	0.11	0.18	0.25	0.33	0.40	0.47	0.55	0.62	0.69
	60	1.17	1.96	2.74	3.52	4.31	5.09	5.87	6.66	7.44
	1.50	0.11	0.18	0.25	0.33	0.40	0.47	0.55	0.62	0.69
	66	1.44	2.39	3.35	4.31	5.26	6.22	7.18	8.13	9.09
	1.65	0.13	0.22	0.31	0.40	0.49	0.58	0.67	0.76	0.85
72	1.44	2.39	3.35	4.31	5.26	6.22	7.18	8.13	9.09	
1.80	0.13	0.22	0.31	0.40	0.49	0.58	0.67	0.76	0.85	
78	1.70	2.83	3.96	5.09	6.22	7.35	8.48	9.61	10.74	
1.95	0.16	0.26	0.37	0.47	0.58	0.68	0.79	0.89	1.00	
84	1.70	2.83	3.96	5.09	6.22	7.35	8.48	9.61	10.74	
2.10	0.16	0.26	0.37	0.47	0.58	0.68	0.79	0.89	1.00	
90	1.96	3.26	4.57	5.87	7.18	8.48	9.79	11.09	12.40	
2.25	0.18	0.30	0.43	0.55	0.67	0.79	0.91	1.03	1.15	
96	1.96	3.26	4.57	5.87	7.18	8.48	9.79	11.09	12.40	
2.40	0.18	0.30	0.43	0.55	0.67	0.79	0.91	1.03	1.15	
102	2.22	3.70	5.18	6.65	8.13	9.61	11.09	12.57	14.05	
2.55	0.21	0.34	0.48	0.62	0.76	0.89	1.03	1.17	1.31	
108	2.22	3.70	5.18	6.65	8.13	9.61	11.09	12.57	14.05	
2.10	0.21	0.34	0.48	0.62	0.76	0.89	1.03	1.17	1.31	
114	2.48	4.13	5.78	7.44	9.09	10.74	12.39	14.05	15.70	
2.85	0.23	0.38	0.54	0.69	0.85	1.00	1.15	1.31	1.46	
120	2.48	4.13	5.78	7.44	9.09	10.74	12.39	14.05	15.70	
2.40	0.23	0.38	0.54	0.69	0.85	1.00	1.15	1.31	1.46	

PRESSURE DROP



Air Velocity in feet and (meters) per minute through Free Area

(Data corrected to standard air density and AMCA figure tested to 5.5)

Ratings do not include the effect of a bird screen.

PERFORMANCE DATA

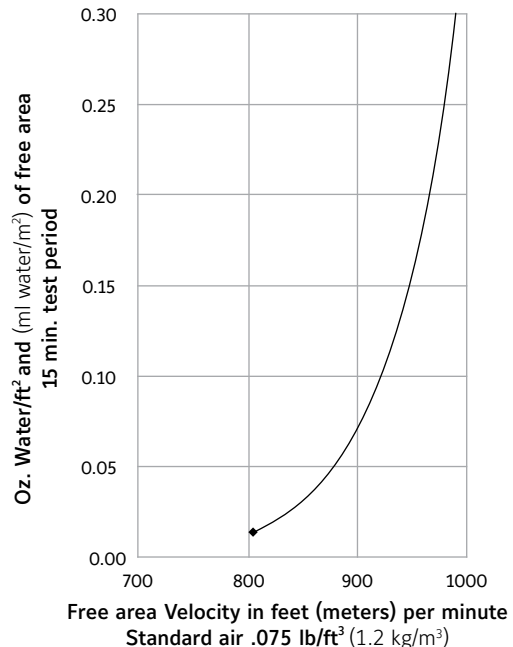
AMCA Standard 500 provides a reasonable basis for testing and rating louvers. Testing to AMCA 500 is performed under a certain set of laboratory conditions. This does not guarantee that other conditions will not occur in the actual environment where louvers must operate.

The louvers 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.



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

Water penetration
 Test size 48" wide X 48" high (1219 X 1219)
 Beginning point of water penetration at .01 oz. /sq. ft. is
 803 fpm (245 m/min).



Free area Velocity in feet (meters) per minute
 Standard air .075 lb/ft³ (1.2 kg/m³)

SUGGESTED SPECIFICATION

Furnish and install louvers as hereinafter specified where shown on plans or as described in schedules. Louvers shall be stationary acoustical type contained within a 12" (305) frame. Louver components (heads, jambs, sills, blades, and 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 windload of 30 psf (1.44 kPa) - equivalent of a 110 mph (177 kph) wind - specifier may substitute any loading required).

Louvers shall be Ruskin Model ACL1245 construction as follows:

Frame: 16 gage (1.6) galvanized steel channel.

Blades: 18 ga (1.3) galvanized steel exterior surface, 22 gage (.9) perforated steel interior surface that covers insulation. Blades are positioned at 45° angle and spaced approximately 12" (305) center to center.

Screen: 1/2" mesh x 19 gage (13 x 1.1) galvanized steel in removable frame.

Finish: Select finish specification from Ruskin Finishes Brochure.

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

LINKS TO IMPORTANT DOCUMENTS

Document Title
Paint Finishes and Color Guide
Limited Warranty Document



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