

ACL1245AFD

Stationary Acoustical Louver | Formed Aluminum

Miami-Dade County Approved | Miami-Dade County, Florida Notice of Acceptance
Number: 21.0512.01 (Expires 11/8/2022)



APPLICATION

The ACL1245AFD is a 12" deep Miami-Dade 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, .125" (3.175) aluminum channel.
Blades	.081" (2.057) aluminum exterior surface, with .050" (1.27) perforated aluminum interior surface that covers insulation. Blades positioned at 45° angle and spaced approximately 12" (305) center to center.
Acoustical Insulation	Ruskatherm blanket.
Screen	5/8" mesh x .040" (16 x 1) expanded flattened aluminum 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 609).
Approximate Shipping Weight	7 lbs. per sq. ft.
Maximum Factory Assembly Size	Shall be unlimited width x 120" (3048). 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.

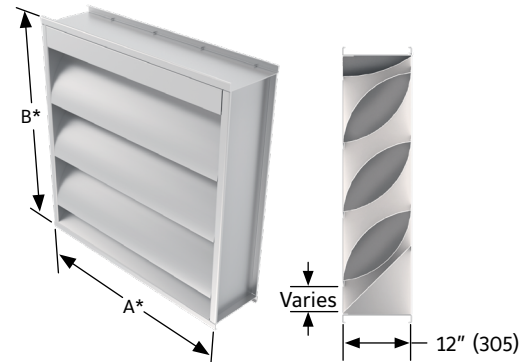
FEATURES

- ▶ 29% Free Area
- ▶ Insulated blades which provide effective sound attenuation and weather protection
- ▶ AMCA 500-L
- ▶ Architecturally pleasing appearance
- ▶ Maximum windload of +/- 150 PSF or less (7.18 kPa)
- ▶ Miami Dade NOA #21-0512.01

VARIATIONS

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

- ▶ Extended sill
- ▶ Front or rear security bars
- ▶ Filter racks
- ▶ Flange frame
- ▶ Clip Angles
- ▶ Blankoff panel
- ▶ A variety of bird and insect screens
- ▶ Selection of finishes: prime coat, Pearledize, 50% PVDF (modified fluoropolymer), epoxy, 70% PVDF, clear and color anodize. (Some variation in anodize color consistency is possible.)



See www.AMCA.org for all certified or listed products

Octave Band/ Frequency (Hz)	Transmission Loss	Free Field Noise Reduction (db) Ruskatherm Blanket
2/125	6	12
3/250	5	11
4/500	10	16
5/1000	15	21
6/2000	13	19
7/4000	11	17
STC		12
OITC		10

STC stands for Sound Transmission Class.

OITC stands for Outside Indoor Transmission class.

NOTES:

- Dimensions in parenthesis () indicate millimeters.
- Units furnished 1/4" (6) smaller than given opening dimensions.

PERFORMANCE DATA



IMPACT
RESISTANT
LOUVER
Basic Protection

See www.AMCA.org for all certified or listed products

This label does not imply
AMCA airflow performance
certification.

Ruskin certifies that the ACL1245AFD shown herein is approved to bear the AMCA Listing Label. The ratings shown are based on tests and procedures performed in accordance with AMCA Publications and comply with the requirements of the AMCA Listing Label Program.

The AMCA Listing Label applies to Wind Borne Debris Impact Resistant Louvers.

FREE AREA GUIDE

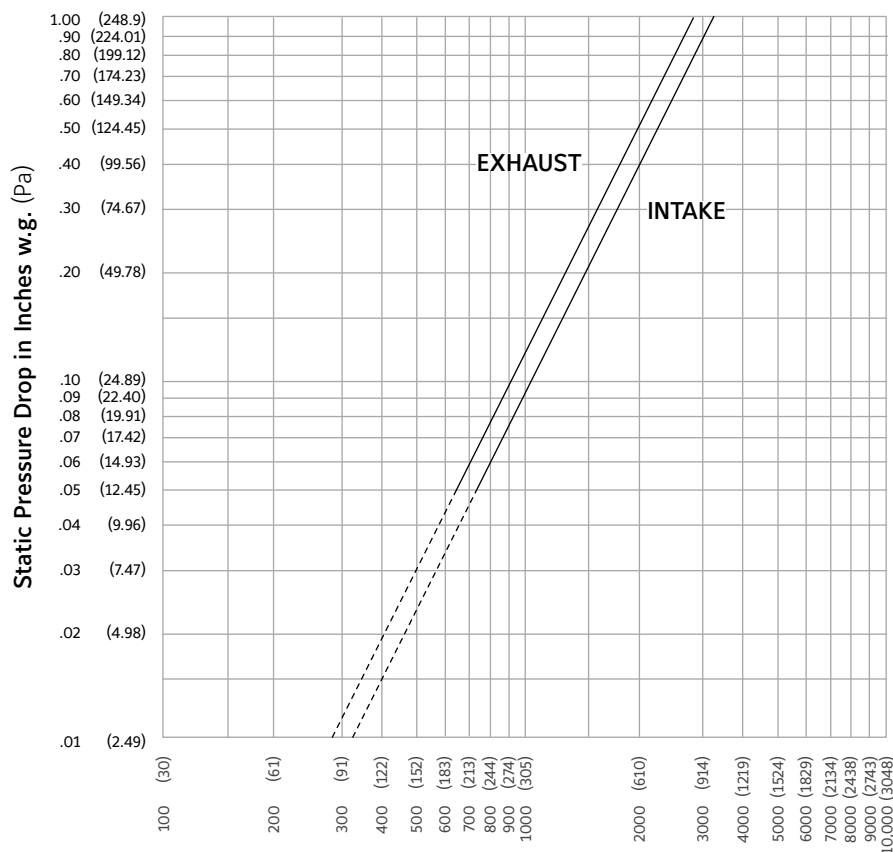
Free Area Guide shows free area in ft² and m² for various sizes of ACL1245AFD.

Width – Inches and Meters

	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
24	0.34	0.56	0.78	1.01	1.23	1.46	1.68	1.90	2.13
	0.03	0.05	0.07	0.09	0.11	0.14	0.16	0.18	0.20
30	0.34	0.56	0.78	1.01	1.23	1.46	1.68	1.90	2.13
	0.10	0.16	0.22	0.27	0.33	0.39	0.45	0.51	0.57
36	0.51	0.85	1.19	1.54	1.88	2.22	2.56	2.90	3.24
	0.05	0.08	0.11	0.14	0.17	0.21	0.24	0.27	0.30
42	0.51	0.85	1.19	1.54	1.88	2.22	2.56	2.90	3.24
	0.05	0.08	0.11	0.14	0.17	0.21	0.24	0.27	0.30
48	0.69	1.15	1.60	2.06	2.52	2.98	3.44	3.90	4.35
	0.06	0.11	0.15	0.19	0.23	0.28	0.32	0.36	0.40
54	0.69	1.15	1.60	2.06	2.52	2.98	3.44	3.90	4.35
	0.06	0.11	0.15	0.19	0.23	0.28	0.32	0.36	0.40
60	0.86	1.44	2.01	2.59	3.17	3.74	4.32	4.89	5.47
	0.08	0.13	0.19	0.24	0.29	0.35	0.40	0.45	0.51
66	0.86	1.44	2.01	2.59	3.17	3.74	4.32	4.89	5.47
	0.08	0.13	0.19	0.24	0.29	0.35	0.40	0.45	0.51
72	1.04	1.73	2.42	3.12	3.81	4.50	5.20	5.89	6.58
	0.10	0.16	0.23	0.29	0.35	0.42	0.48	0.55	0.61
78	1.04	1.73	2.42	3.12	3.81	4.50	5.20	5.89	6.58
	0.10	0.16	0.23	0.29	0.35	0.42	0.48	0.55	0.61
84	1.21	2.02	2.83	3.54	4.45	5.26	6.07	6.88	7.69
	0.11	0.19	0.26	0.34	0.41	0.49	0.56	0.64	0.72
90	1.21	2.02	2.83	3.64	4.45	5.26	6.07	6.88	7.69
	0.11	0.19	0.26	0.34	0.41	0.49	0.56	0.64	0.72
96	1.39	2.32	3.24	4.17	5.10	6.03	6.95	7.88	8.81
	0.13	0.22	0.30	0.39	0.47	0.56	0.65	0.73	0.82
102	1.39	2.32	3.24	4.17	5.10	6.03	6.95	7.88	8.81
	0.13	0.22	0.30	0.39	0.47	0.56	0.65	0.73	0.82
108	1.57	2.61	3.65	4.70	5.74	6.79	7.83	8.88	9.92
	0.15	0.24	0.34	0.44	0.53	0.63	0.73	0.83	0.92
114	1.57	2.61	3.65	4.70	5.74	6.79	7.83	8.88	9.92
	0.15	0.24	0.34	0.44	0.53	0.63	0.73	0.83	0.92
120	1.74	2.90	4.07	5.23	6.39	7.55	8.71	9.87	11.03
	0.16	0.27	0.38	0.49	0.59	0.70	0.81	0.92	1.03

Height – Inches and Meters

PRESSURE DROP



Ratings do not include the effect of a bird screen.

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

WATER PENETRATION GRAPH

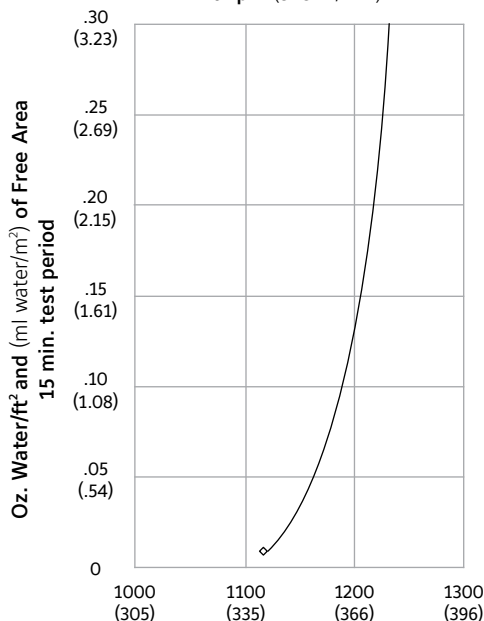
AMCA Standard 500 provides a reasonable basis for testing and rating louvers. Testing to AMCA 500 is performed under a certain set of laboratory conditions. This does not guarantee that other conditions will not occur in the actual environment where louvers must operate.

The louver system should be designed with a reasonable safety factor for louver performance. To ensure protection from water carry-over, 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
1126 fpm (343 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 150 lbs. per sq. ft. (7.18kPa) - specifier may substitute any loading required).

Louvers shall be Ruskin Model ACL1245AFD construction as follows:

Frame: .125" (3.175) aluminum channel.

Blades: .081" (2.057) aluminum exterior surface, with .050" (1.27) perforated aluminum interior surface that covers insulation. Blades angle 45° on 12" (305) centers.

Screen: 5/8" mesh x .040" (16 x 1) expanded flattened aluminum bird screen in removable frame.

Finish: Select finish specification from Ruskin/Valspar Finishes Brochure.

Published louver performance data bearing the AMCA Certified Ratings Seal for Air Performance, Water Penetration and sound attenuation 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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