



3900 Dr. Greaves Rd. • Kansas City, MO 64030 • (816) 761-7476 • FAX (816) 765-8955

## ACL1245D STATIONARY ACOUSTICAL LOUVER

MIAMI-DADE COUNTY APPROVED

MIAMI-DADE COUNTY, FLORIDA NOTICE OF ACCEPTANCE NUMBER: 17-1025.03 (Expires 8/4/21)  
FORMED ALUMINUM

### 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

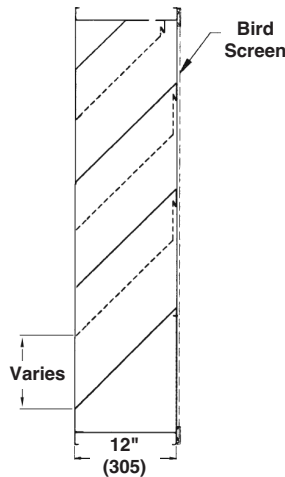
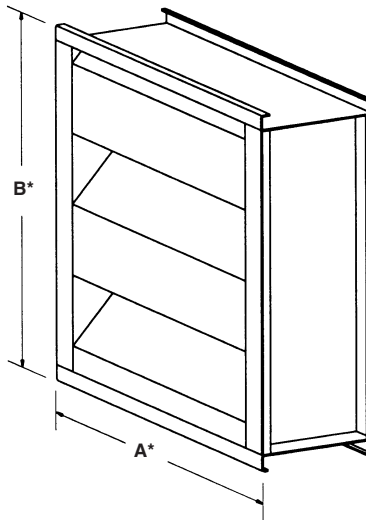
12"w x 18"h (305 x 457).

#### 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

- 22% Free Area.
- Insulated blades which provide effective sound attenuation and weather protection.
- AMCA 500-L
- Architecturally pleasing appearance.
- Maximum windload +/-150 PSF (7.18 kPa).
- Miami Dade NOA #17-1025.03
- Missile impact resistant.
- AMCA 540 Listed.

### 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.
- A variety of bird and insect screens.
- Selection of finishes: prime coat, 50% PVDF (modified fluoropolymer), epoxy, Pearledize, 70% PVDF, clear and color anodize. (Some variation in anodize color consistency is possible.)



IMPACT RESISTANT LOUVER  
Basic Protection

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

This label does not signify AMCA airflow performance certification.

Ruskin certifies that the ACL1245D 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.

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

ACL1245D meets the requirements for the following:

- AMCA 540 Listed
- Miami-Dade NOA Approval 17-1025.03
- AMCA 500-L Tested

Dimensions in parenthesis ( ) indicate millimeters.

\*Units 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 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 wind-load of 150 lbs. per sq. ft. (7.18kPa) - specifier may substitute any loading required).

Louvers shall be Ruskin Model ACL1245D 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.

## PERFORMANCE DATA

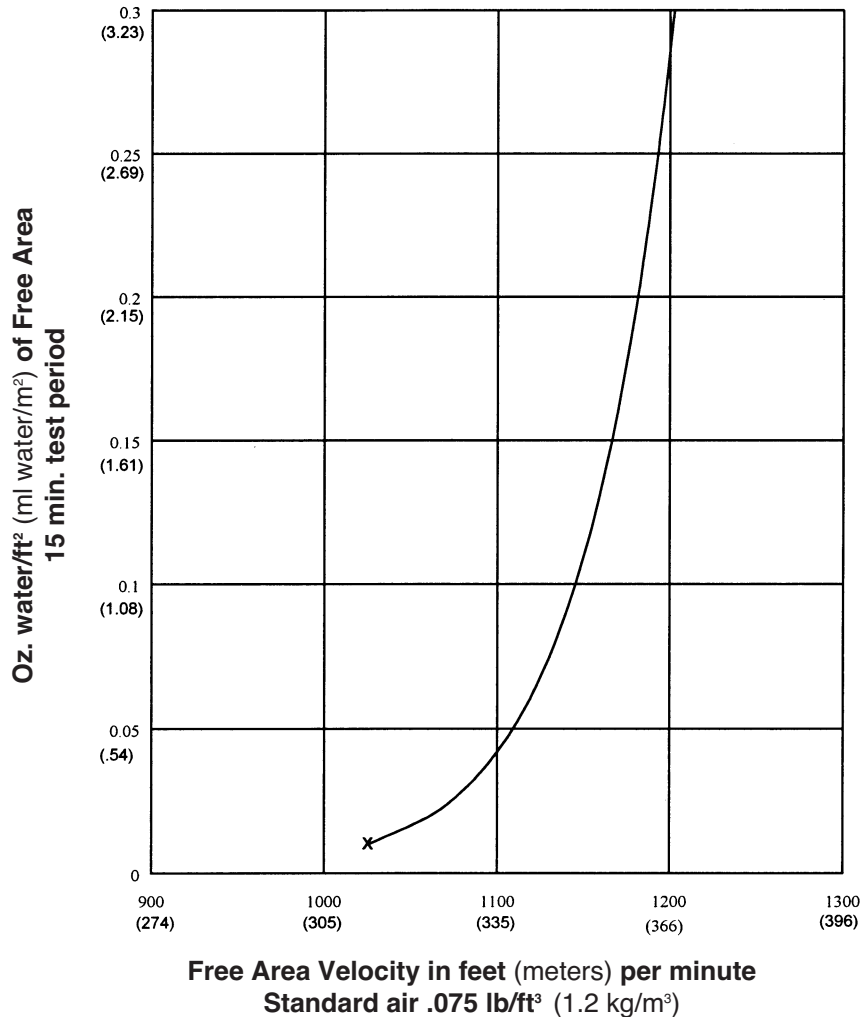
AMCA Standard 500 provides a reasonable basis for testing and rating louvers. Testing to AMCA 500 is performed under a certain set of laboratory conditions. This does not guarantee that other conditions will not occur in the actual environment where louvers must operate.

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.

### WATER PENETRATION

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

Beginning point of water penetration at .01 oz./sq. ft. is 1025 fpm (312 m/min).



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.

# FREE AREA GUIDE

Free Area Guide shows free area in ft<sup>2</sup> and m<sup>2</sup> for various sizes of ACL1245D  
Width – Inches and Meters

Height – Inches and Millimeters	Width – Inches and Millimeters																		
	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	66 1.68	72 1.83	78 1.98	84 2.13	90 2.29	96 2.44	102 2.59	108 2.74	114 2.90	120 3.05
18 0.46	0.13 0.01	0.22 0.02	0.31 0.03	0.40 0.04	0.49 0.05	0.58 0.05	0.67 0.06	0.76 0.07	0.85 0.08	0.89 0.08	0.98 0.09	1.07 0.10	1.16 0.11	1.25 0.12	1.34 0.12	1.42 0.13	1.51 0.14	1.60 0.15	1.69 0.16
24 0.61	0.40 0.04	0.66 0.06	0.92 0.09	1.19 0.11	1.45 0.13	1.71 0.16	1.98 0.18	2.24 0.21	2.50 0.23	2.64 0.25	2.90 0.27	3.16 0.29	3.43 0.32	3.69 0.34	3.95 0.37	4.22 0.39	4.48 0.42	4.75 0.44	5.01 0.47
30 0.76	0.39 0.04	0.65 0.06	0.72 0.09	1.18 0.11	1.44 0.13	1.70 0.16	1.96 0.18	2.22 0.21	2.49 0.23	2.62 0.24	2.88 0.27	3.14 0.29	3.40 0.32	3.66 0.34	3.93 0.37	4.19 0.39	4.45 0.41	4.71 0.44	4.97 0.46
36 0.91	0.65 0.06	1.09 0.10	1.53 0.14	1.96 0.18	2.40 0.22	2.84 0.26	3.27 0.30	3.71 0.34	4.15 0.39	4.36 0.41	4.80 0.45	5.24 0.49	5.67 0.53	6.11 0.57	6.55 0.61	6.98 0.65	7.42 0.69	7.85 0.73	8.29 0.77
42 1.07	0.65 0.06	1.09 0.10	1.52 0.14	1.96 0.18	2.39 0.22	2.82 0.26	3.26 0.30	3.69 0.34	4.13 0.38	4.34 0.40	4.78 0.44	5.21 0.48	5.65 0.53	6.08 0.57	6.52 0.61	6.95 0.65	7.39 0.69	7.82 0.73	8.26 0.77
48 1.22	0.91 0.08	1.52 0.14	2.13 0.20	2.73 0.25	3.35 0.31	3.96 0.37	4.57 0.42	5.18 0.48	5.79 0.54	6.09 0.57	6.70 0.62	7.31 0.68	7.92 0.74	8.53 0.79	9.14 0.85	9.72 0.91	10.35 0.96	10.96 1.02	11.57 1.08
54 1.37	0.91 0.08	1.52 0.14	2.13 0.20	2.73 0.25	3.34 0.31	3.95 0.37	4.55 0.42	5.16 0.48	5.77 0.54	6.07 0.56	6.68 0.62	7.29 0.68	7.89 0.73	8.50 0.79	9.11 0.85	9.72 0.90	10.32 0.96	10.93 1.02	11.54 1.07
60 1.52	1.17 0.11	1.95 0.18	2.74 0.25	3.52 0.33	4.30 0.40	5.08 0.47	5.86 0.55	6.65 0.62	7.43 0.69	7.82 0.73	8.60 0.80	9.38 0.87	10.16 0.95	10.95 1.02	11.73 1.09	12.51 1.16	13.29 1.24	14.07 1.31	14.86 1.38
66 1.68	1.17 0.11	1.95 0.18	2.73 0.25	3.51 0.33	4.29 0.40	5.07 0.47	5.85 0.54	6.63 0.62	7.41 0.69	7.80 0.73	8.58 0.80	9.36 0.87	10.14 0.94	10.92 1.02	11.70 1.09	12.48 1.16	13.26 1.23	14.04 1.31	14.82 1.38
72 1.83	1.43 0.13	2.39 0.22	3.34 0.31	4.30 0.40	5.25 0.49	6.20 0.58	7.16 0.67	8.11 0.75	9.07 0.84	9.55 0.89	10.50 0.98	11.46 1.07	12.41 1.15	13.36 1.24	14.32 1.33	15.27 1.42	16.23 1.51	17.18 1.60	18.14 1.69
78 1.98	1.43 0.13	2.38 0.22	3.33 0.31	4.29 0.40	5.24 0.49	6.19 0.58	7.15 0.66	8.10 0.75	9.05 0.84	9.53 0.89	10.48 0.97	11.43 1.06	12.39 1.15	13.34 1.24	14.29 1.33	15.24 1.42	16.20 1.51	17.15 1.59	18.10 1.68
84 2.13	1.69 0.16	2.82 0.26	3.95 0.37	5.07 0.47	6.20 0.58	7.33 0.68	8.45 0.79	9.58 0.89	10.71 1.00	11.27 1.05	12.40 1.15	13.53 1.26	14.66 1.36	15.78 1.47	16.91 1.57	18.04 1.68	19.16 1.78	20.29 1.89	21.42 1.99
90 2.29	1.69 0.16	2.81 0.26	3.94 0.37	5.06 0.47	6.19 0.58	7.32 0.68	8.44 0.78	9.57 0.89	10.69 0.99	11.25 1.05	12.38 1.15	13.51 1.26	14.63 1.36	15.76 1.47	16.88 1.57	18.01 1.67	19.13 1.78	20.26 1.88	21.38 1.99
96 2.44	1.95 0.18	3.25 0.30	4.55 0.42	5.85 0.54	7.15 0.66	8.45 0.79	9.75 0.91	11.05 1.03	12.35 1.15	13.00 1.21	14.30 1.33	15.60 1.45	16.90 1.57	18.20 1.69	19.50 1.81	20.80 1.93	22.10 2.06	23.40 2.18	24.70 2.30

Width – Inches and Millimeters

## PRESSURE DROP

