

ACL1245V

Stationary Acoustical Louver Formed Louver

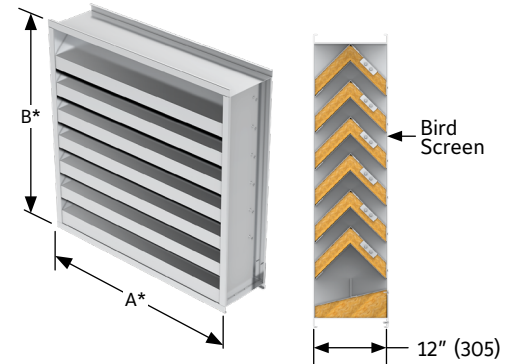


APPLICATION

The ACL1245V is a 12 inch deep, acoustical sight proof louver engineered to provide high efficiency airflow with integrated noise attenuating blade construction for exterior wall intake and exhaust applications. The unit employs insulated, sound absorptive blades arranged at a 45° angle to deliver meaningful transmission loss while maintaining low pressure drop and effective weather protection.

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. V-shaped blades positioned at 45° angle and spaced approximately 6" (152) center to center.
Acoustical Insulation	Mineral Wool
Screen	5/8" 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 610)
Approximate Shipping Weight	13 lbs. per sq. ft. (63 kg/m ²) for Galvanized steel, 6 lbs. per sq. ft. (29 kg/m ²) for Aluminum.
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.



Octave Band Frequency (Hz)	Transmission Loss	Free Field Noise Reduction (db)
2/125	5	12
3/250	2	10
4/500	11	18
5/1000	24	31
6/2000	24	32
7/4000	22	32
STC	16	
OITC	10	

STC stands for Sound Transmission Class.

OITC stands for Outside Indoor Transmission class.

FEATURES

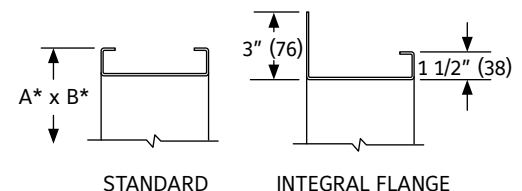
- ▶ Excellent Sound Attenuation (see table)
- ▶ 22% Free Area
- ▶ Beginning point of water penetration at 0.01oz./sq.ft. is 980 fpm (299 m.min.)
- ▶ Published performance rating based on testing in accordance with AMCA publication 511
- ▶ Architecturally pleasing appearance

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
 - ▶ Integral Flanges
 - ▶ 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

FRAME CONSTRUCTION



NOTES:

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

FREE AREA GUIDE

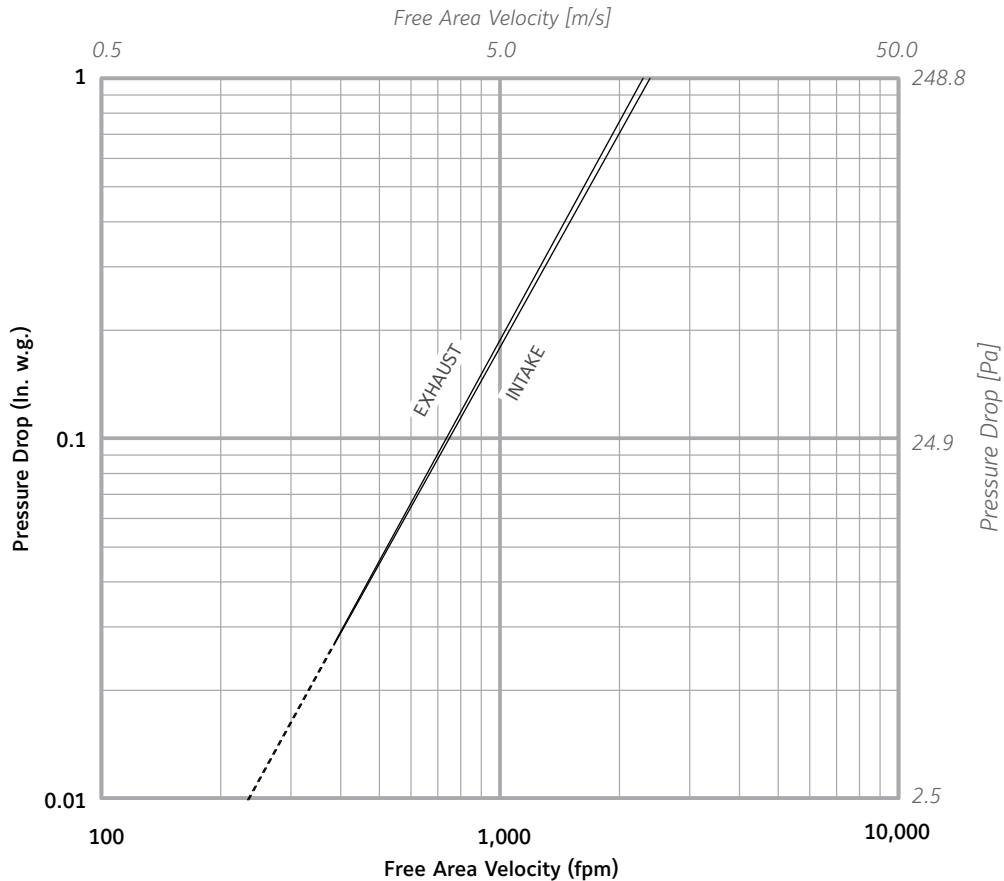
Free Area Guide shows free area in ft² and m² for various sizes of ACL1245V.

Width – Inches and Meters

Height – 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	0.23	0.39	0.54	0.70	0.85	1.01	1.16	1.32	1.47
	0.60	0.02	0.04	0.05	0.06	0.08	0.09	0.11	0.12	0.14
	30	0.35	0.59	0.82	1.06	1.30	1.53	1.77	2.00	2.24
	0.75	0.03	0.05	0.08	0.10	0.12	0.14	0.16	0.19	0.21
	36	0.47	0.79	1.11	1.42	1.74	2.06	2.37	2.69	3.01
	0.90	0.04	0.07	0.10	0.13	0.16	0.19	0.22	0.25	0.28
	42	0.60	0.99	1.39	1.79	2.18	2.58	2.98	3.38	3.77
	1.05	0.06	0.09	0.13	0.17	0.20	0.24	0.28	0.31	0.35
	48	0.72	1.19	1.67	2.15	2.63	3.11	3.58	4.06	4.54
	1.20	0.07	0.11	0.16	0.20	0.24	0.29	0.33	0.38	0.42
	54	0.84	1.40	1.96	2.51	3.07	3.63	4.19	4.75	5.31
	1.35	0.08	0.13	0.18	0.23	0.29	0.34	0.39	0.44	0.49
	60	0.96	1.60	2.24	2.88	3.52	4.16	4.79	5.43	6.07
	1.50	0.09	0.15	0.21	0.27	0.33	0.39	0.45	0.51	0.56
	66	1.08	1.80	2.52	3.24	3.96	4.68	5.40	6.12	6.84
	1.65	0.10	0.17	0.23	0.30	0.37	0.43	0.50	0.57	0.64
	72	1.20	2.00	2.80	3.60	4.40	5.20	6.01	6.81	7.61
	1.80	0.11	0.19	0.26	0.33	0.41	0.48	0.56	0.63	0.71
	78	1.32	2.20	3.09	3.97	4.85	5.73	6.61	7.49	8.37
	1.95	0.12	0.20	0.29	0.37	0.45	0.53	0.61	0.70	0.78
	84	1.44	2.41	3.37	4.33	5.29	6.25	7.22	8.18	9.14
	2.10	0.13	0.22	0.31	0.40	0.49	0.58	0.67	0.76	0.85
	90	1.56	2.61	3.65	4.69	5.74	6.78	7.82	8.87	9.91
	2.25	0.15	0.24	0.34	0.44	0.53	0.63	0.73	0.82	0.92
	96	1.69	2.81	3.93	5.06	6.18	7.30	8.43	9.55	10.67
	2.40	0.16	0.26	0.37	0.47	0.57	0.68	0.78	0.89	0.99
	102	1.81	3.01	4.22	5.42	6.62	7.83	9.03	10.24	11.44
	2.55	0.17	0.28	0.39	0.50	0.62	0.73	0.84	0.95	1.06
	108	1.93	3.21	4.50	5.78	7.07	8.35	9.64	10.92	12.21
	2.10	0.18	0.30	0.42	0.54	0.66	0.78	0.90	1.02	1.13
	114	2.05	3.41	4.78	6.15	7.51	8.88	10.24	11.61	12.98
	2.85	0.19	0.32	0.44	0.57	0.70	0.83	0.95	1.08	1.21
	120	2.17	3.62	5.06	6.51	7.96	9.40	10.85	12.30	13.74
	2.40	0.20	0.34	0.47	0.60	0.74	0.87	1.01	1.14	1.28

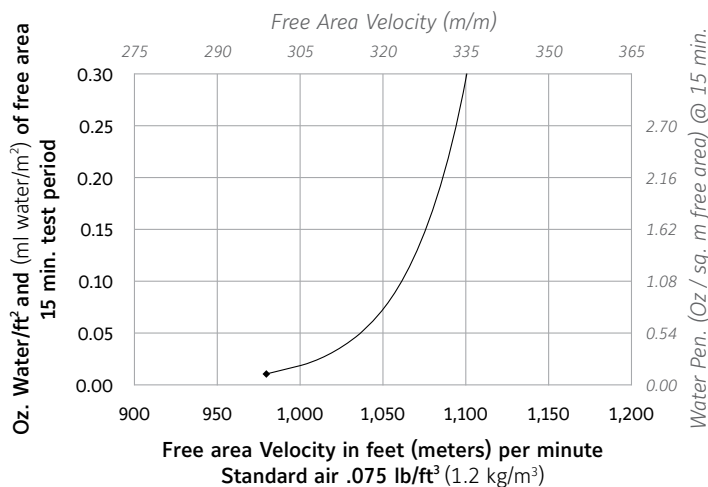
PRESSURE DROP

Air Performance (Pressure Drop) per AMCA 511 - Test Size 48" x 48" (1,219 mm x 1,219 mm). Tested per AMCA 500L (Test figures 6.5 & 5.5) without any screens or sill pan options. Results corrected to standard air density 0.075 lbs./ft³ (1.2 kg/m³)



WATER PENETRATION GRAPH

Water penetration Test size 48" wide X 48" high (1219 X 1219) Beginning point of water penetration at .01 oz./sq. ft. is 980 fpm (299 m/min).



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.

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 ACL1245V construction as follows:

Frame: 12" (305) deep 16 gauge (1.6) galvanized formed channel.

Blades: 18 gauge (1.3) galvanized steel exterior surface with 22 gauge (0.9) perforated steel interior surface that covers insulation. V-shaped blades are positioned at 45° angle and spaced approximately 6" (152) center to center.

Screen: 5/8" x .040" (16 x 1) expanded, flattened aluminum bird screen 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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