1245RAAZ

Stationary Acoustical Louver

Formed Steel

RELIABLE

APPLICATION

The 1245RAAZ 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.

I STANDARD CONSTRUCTION

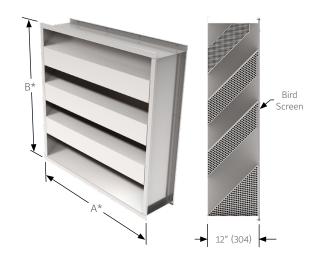
Frame	12" (305) deep, 16 gauge (1.6) galvanized steel channel.				
Blades Airfoil Shaped	18 gauge (1.3) galvanized steel exterior surface, with 22 gauge (.9) perforated steel interior surface that covers insulation. Blades positioned at 45° angle and spaced approximately 12" (305) center to center.				
Acoustical Insulation	Ruskatherm blanket.				
Screen	1/2" mesh x 19 gauge (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/m²).				
Maximum Factory Assembly Size	Shall be 32 sq. ft. $(3m^2)$. Maximum single section size shall be $48''w \times 96''h$ (1219 x 2438). Louvers larger than the maximum single section size will require field assembly of smaller sections.				

FEATURES

- Insulated blades which provide effective sound attenuation and weather protection
- Published performance ratings based on testing in accordance with AMCA Publication 511
- · Architecturally pleasing appearance
- 29% free area

VARIATIONS

- Extended sill
- · Front or rear security bars
- Filter racks
- · Blank off panels
- · Integral flange frame
- · Installation angles
- · A variety of bird and insect screens
- Optional finishes available at additional cost: prime coat, 50% PVDF (modified fluoropolymer), epoxy, Pearledize, 70% PVDF, clear and color anodize. (Anodize finish available only on aluminum construction. Some variation in anodize color consistency is possible)
- Formed aluminum frame with .125" (2.5) nominal wall thickness and .080" (2) blade with .040" (1) perforated aluminum interior surface







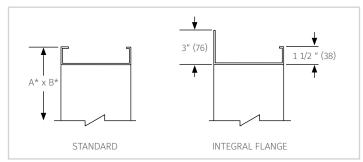


Octave Band/ Frequency (Hz)	Transmission Loss	Free Field Noise Reduction (db) Ruskatherm Blanket				
2/125	7	13				
3/250	6	12				
4/500	14	20				
5/1000	16	22				
6/2000	13	19				
7/4000	11	17				
STC	13					
OITC	11					

STC stands for Sound Transmission Class.

OITC stands for Outside Indoor Transmission class.

FRAME CONSTRUCTION



NOTES

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

■ 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.

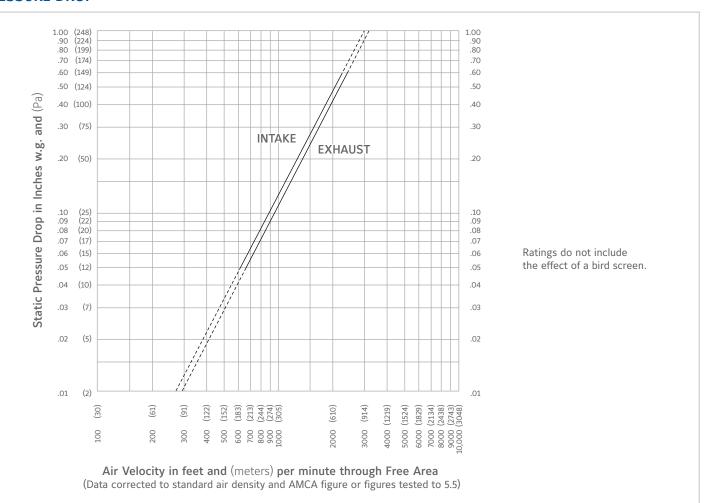
The louver system should be designed with a reasonable safety factor for louver performance. To ensure protection from water carry over, design with a performance level somewhat below maximum desired pressure drop and .01 oz./sq. ft. of water penetration.

FREE AREA GUIDE

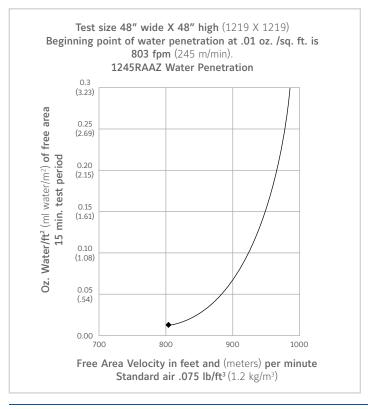
Free Area Guide shows free area in ft² and m² for various sizes of 1245RAAZ.

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

■ PRESSURE DROP



■ WATER PENETRATION





Reliable 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 Reliable Model 1245RAAZ construction as follows:

Frame: 16 gauge (1.6) galvanized steel channel.

Blades: 20 gauge (1.0) galvanized steel exterior surface, 22 gauge (.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 gauge (13 x 1.1) galvanized steel in removable frame.

Finish: Select finish specification from Reliable 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 Reliable model specified.



Document Title

Finishes and Color Guide

Limited Warranty Document



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