

CERTIFIED PERFORMANCE DATA

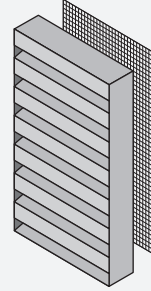
ALV

Acoustic Louver
V Blade

How to Specify Example:

48 X 60 ALV-MV X 12

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Duct Duct Louver Louver
Width Height Model Depth



Depth (in.)	Model	Octave Band Transmission Loss (dB)								Free Area (%)	Face Velocity (fpm) Pressure Drop (in.wg)			
		63	125	250	500	1000	2000	4000	8000		150	250	350	500
6	ALV-LV-6	6	8	9	12	17	20	21	20	18	0.10	0.27	0.53	1.08
	ALV-MV-6	6	6	8	10	15	19	19	19	26	0.07	0.18	0.36	0.73
8	ALV-LV-8	7	9	10	13	17	21	20	20	19	0.10	0.28	0.54	1.10
	ALV-MV-8	6	6	7	10	15	20	19	20	28	0.06	0.18	0.35	0.71
12	ALV-LV-12	6	10	12	16	23	26	20	22	21	0.09	0.24	0.47	0.97
	ALV-MV-12	7	7	10	13	20	21	20	20	30	0.06	0.17	0.33	0.67
18	ALV-LV-18	10	12	16	21	28	27	25	24	19	0.10	0.27	0.52	1.06
	ALV-MV-18	9	10	14	18	25	24	23	22	28	0.07	0.19	0.37	0.76
24	ALV-LV-24	11	16	17	25	31	29	26	24	19	0.11	0.30	0.59	1.21
	ALV-MV-24	11	13	15	22	28	26	25	23	26	0.08	0.22	0.43	0.88

■ Pressure drop may be too high for most practical applications

Acoustical Performance

Transmission Loss (TL) determined by ASTM E90. Noise Reduction (NR) may be determined as: NR=TL+6. Insertion Loss (IL) may be estimated using: IL=TL+2 for all bands of interest.

Aerodynamic Performance

Free Area and Pressure Drop determined by AMCA Standard 500-L for free inlet and outlet under ideal conditions. System effects due to ducted conditions, low height, or obstructions may increase pressure drop by a factor of 1.5 or higher.

Dimensions

Maximum single piece size: 60" x 120"; larger louver sizes will be multiple pieces. Minimum height: 12". Louver with less than 30" high, will require assistance with product selection to minimize risk of higher pressure drop values.

Available Options

- > Bird screen: 1" x 1" heavy wire mesh
- > Surface preparation and finishing:
 - > Mill finish
 - > Prime coat
 - > Satin coat/galvaneal
 - > Baked enamel
 - > Anodized (aluminum only)
 - > Other finishes available
- > Aluminum or Stainless steel
- > Media protection:
 - > Tedlar
 - > Fiberglass oath
- > Custom louver shapes and design for special applications

