

CERTIFIED PERFORMANCE DATA

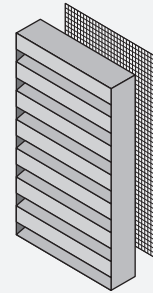
ALF

Acoustic Louver Flat Blade

How to Specify Example:

48 X **60** **ALF-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
4	ALF-LV-4	4	7	6	9	13	14	14	12	17	0.06	0.17	0.33	0.67
	ALF-MV-4	4	6	6	8	10	12	11	10	25	0.03	0.09	0.18	0.36
6	ALF-LV-6	6	9	9	13	17	17	17	15	17	0.06	0.18	0.35	0.71
	ALF-MV-6	6	7	8	8	15	16	14	14	24	0.03	0.09	0.18	0.37
8	ALF-LV-8	7	10	11	16	20	19	18	17	18	0.07	0.18	0.36	0.73
	ALF-MV-8	6	7	8	10	17	18	17	17	28	0.03	0.09	0.17	0.35
12	ALF-LV-12	8	12	17	22	24	24	19	20	19	0.07	0.20	0.38	0.78
	ALF-MV-12	9	9	12	16	18	19	19	18	26	0.04	0.12	0.24	0.49
18	ALF-LV-18	11	14	17	23	26	25	21	20	16	0.08	0.21	0.42	0.86
	ALF-MV-18	10	12	15	20	22	22	20	18	22	0.05	0.14	0.27	0.56

□ 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

