

# CERTIFIED PERFORMANCE DATA

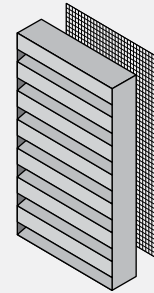
## ALA

Acoustic Louver  
Airfoil Blade

### How to Specify Example:

**48** X **60** **ALA-MV** X **12**

↑ Duct Width    ↑ Duct Height    ↑ Louver Model    ↑ Louver 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		350	500	700	1000
6	ALA-MV-6	6	6	7	9	15	15	14	14	19	0.11	0.22	0.44	0.90
	ALA-HV-6	6	4	6	7	13	14	12	13	29	0.07	0.15	0.29	0.59
8	ALA-MV-8	6	6	8	11	15	16	15	15	20	0.10	0.21	0.41	0.84
	ALA-HV-8	5	3	5	8	13	15	14	15	30	0.08	0.17	0.33	0.67
12	ALA-MV-12	9	9	12	14	18	17	16	16	19	0.15	0.30	0.59	1.20
	ALA-HV-12	10	6	10	11	15	16	16	14	29	0.09	0.19	0.37	0.74
18	ALA-MV-18	9	11	14	16	23	21	18	17	20	0.15	0.31	0.61	1.24
	ALA-HV-18	8	9	12	13	20	18	16	15	30	0.09	0.18	0.35	0.71
24	ALA-MV-24	10	13	15	21	27	25	18	18	20	0.16	0.33	0.64	1.31
	ALA-HV-24	10	10	13	18	24	22	17	17	30	0.09	0.18	0.35	0.70

□ 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:
  - > Vibar™
  - > Fiberglass oath
- > Custom louver shapes and design for special applications

