



**Commercial Acoustics**  
 5960 W. WASHINGTON STREET  
 PHOENIX, ARIZONA 85043-3523  
 (602) 233-2322 FAX 233-2033

A DIVISION OF METAL FORM MANUFACTURING

# Model MFLA-12AF Fabricated Acoustical Louver

12" Deep Airfoil Blade  
 Regular Pressure Loss

## Specifications

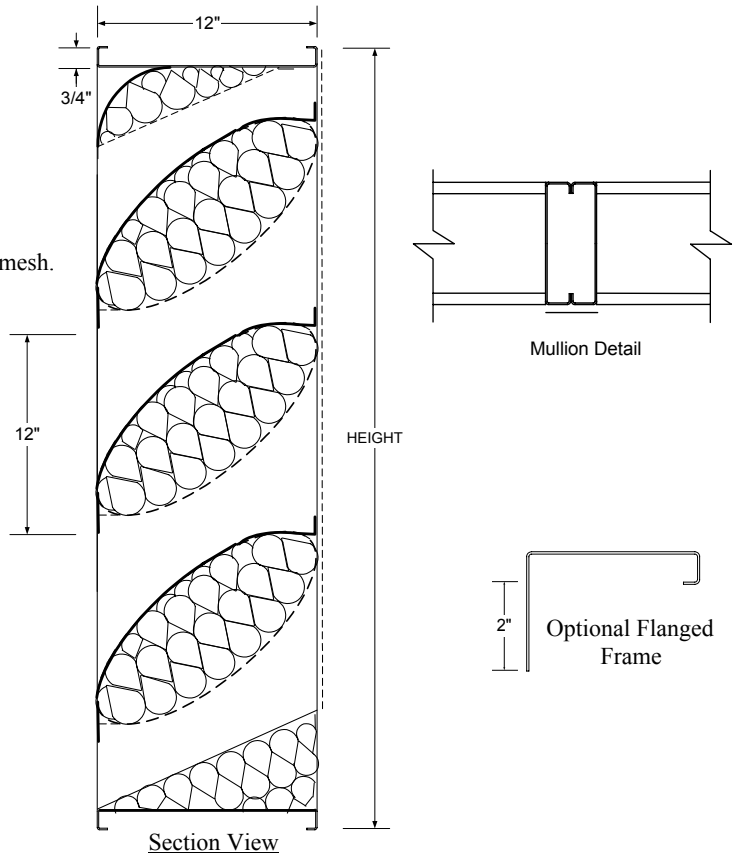
- Frame:** 18ga. galvanized channel frame.
- Blades:** 20ga. galvanized steel / 22ga. galvanized perforated steel.
- Insulation:** 2 lb. density fibreglass.
- Screen:** 1/2" x 1/2" x 19ga. galvanized steel mesh.
- Finish:** Standard mill.
- Minimum size:** 24"w x 24"h.
- Maximum size:** 72"w x 120"h.  
Multiple section - unlimited size.

## Options

- Flanged frame.
- Sill extension.
- Sleeves.
- Sub frame (requires flanged louver).
- Screens - Many variations of screens are available, consult factory.
- Finishes - Many types of finishes are available, consult factory.
- Other options are available, consult factory.

## Notes

1. Width x height are nominal opening dimensions. Unless specified otherwise, units will be constructed 1/4" undersize.
2. Metal Form reserves the right to improve design or change specifications at any time.



Tag	Qty.	Width	Height	No. of Panels (W x H)	Options	Finishes/Specify	Remarks

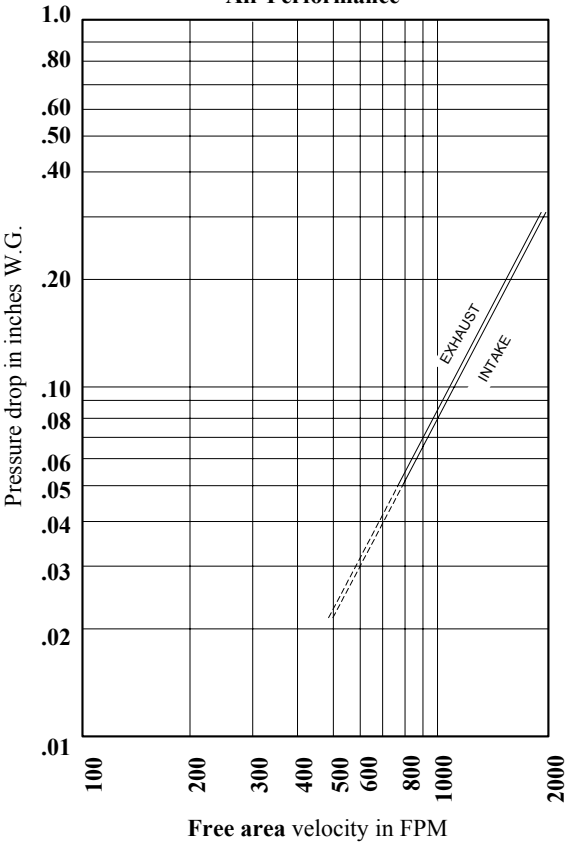
**Project:** \_\_\_\_\_  
**Architect:** \_\_\_\_\_  
**Engineer:** \_\_\_\_\_  
**Contractor:** \_\_\_\_\_

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 Form No. LA-12AF12

Refer to back page for performance data.

# Model MFLA-12AF Performance Data

**Air Performance**



**Acoustical Performance**

Octave Band/Freq. (Hz)	1/63	2/125	3/250	4/500	5/1k	6/2k	7/4k	8/8k
Transmission Loss (dB)	3	7	8	10	15	15	12	10
Noise Reduction (dB)	10	13	15	17	21	21	19	15

•As measured in accordance with ASTM E 90-02/NVLAP 08/P06

**Aerodynamic Performance**

Pressure Loss (iwg)	0.05	0.15	0.2	0.35	0.45	0.6	0.75	1
Face Velocity, fpm	250	429	500	650	746	850	965	1122

Test unit size 48" x 48"  
 Graphs are corrected to standard air density .075 lbs. per cubic feet.  
 Ratings do not include the effects of a bird screen.

**Free Area Chart - Sq. Ft.**

	<b>120</b>	4.23	5.36	6.49	7.62	8.75	9.88	11.01	12.14	13.26
	<b>108</b>	3.81	4.83	5.84	6.86	7.87	8.89	9.91	10.92	11.94
	<b>96</b>	3.39	4.29	5.19	6.10	7.00	7.90	8.81	9.71	10.61
	<b>84</b>	2.96	3.75	4.54	5.33	6.12	6.91	7.70	8.49	9.29
	<b>72</b>	2.54	3.22	3.89	4.57	5.25	5.93	6.60	7.28	7.96
	<b>66</b>	2.19	2.78	3.37	3.95	4.54	5.12	5.71	6.29	6.88
	<b>60</b>	2.12	2.68	3.25	3.81	4.37	4.94	5.50	6.07	6.63
	<b>54</b>	1.69	2.14	2.60	3.05	3.50	3.95	4.40	4.85	5.31
	<b>48</b>	1.69	2.14	2.60	3.05	3.50	3.95	4.40	4.85	5.31
	<b>42</b>	1.27	1.61	1.95	2.29	2.62	2.96	3.30	3.64	3.98
	<b>36</b>	1.27	1.61	1.95	2.29	2.62	2.96	3.30	3.64	3.98
	<b>30</b>	0.85	1.07	1.30	1.52	1.75	1.98	2.20	2.43	2.65
	<b>24</b>	0.85	1.07	1.30	1.52	1.75	1.98	2.20	2.43	2.65
		<b>24</b>	<b>30</b>	<b>36</b>	<b>42</b>	<b>48</b>	<b>54</b>	<b>60</b>	<b>66</b>	<b>72</b>

Height (inches) is on the y-axis and Width (inches) is on the x-axis.