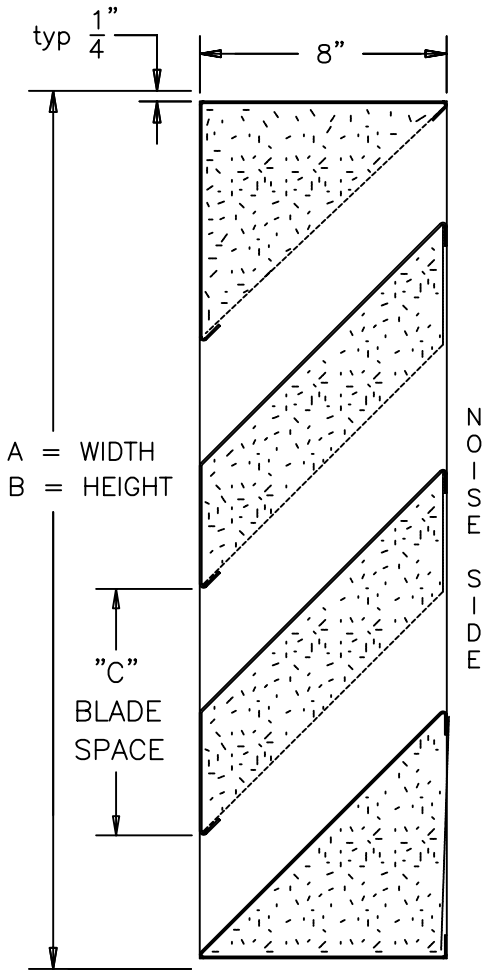


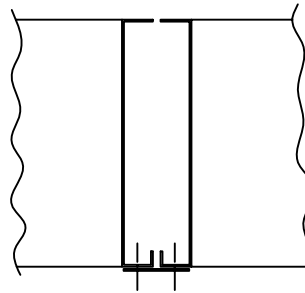
# FABRICATED GALVANIZED, 8" DEEP, HEAVY GAUGE, ACOUSTICAL FIXED TYPE BLADE

## MODEL LAG-88 STANDARD SPECIFICATIONS

- FRAME: 8" DEEP, 16 GAUGE GALVANIZED STEEL.
- BLADES: 20 GAUGE GALVANIZED STEEL (NON NOISE SIDE).  
22 GAUGE PERFORATED GALVANNEALED STEEL (NOISE SIDE).
- INSULATION: WATER RESISTANT SOUND ABSORBING MATERIAL.
- FINISH: MILL.
- SCREEN: 1/2" REMOVABLE EXPANDED ALUMINUM BIRD SCREEN, LOCATED ON INTERIOR (NOISE SIDE).
- MAXIMUM PANEL SIZE: 72" X 96".
- MINIMUM PANEL SIZE: 12" X 20".
- DIMENSIONS: "A" (WIDTH) AND "B" (HEIGHT) ARE OPENING SIZES. LOUVERS ARE MADE 1/2" UNDERSIZE.



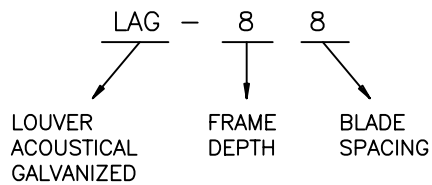
SECTION VIEW



STANDARD VERTICAL  
MULLION

MODEL No.	"C" BLADE SPACE
LAG-88	8"

LOUVER MODEL No. DESCRIPTION



American Warming & Ventilating certifies that the model LAG-88 louver shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance ratings and water penetration ratings.

STC CLASS 12

OCTAVE BAND	1	2	3	4	5	6	7	8
FREQUENCY (Hz)	63	125	250	500	1K	2K	4K	8K
TRANSMISSION LOSS (db)	1	5	6	9	13	16	13	11
FREE FIELD NOISE REDUCTION (db)	7	11	12	15	19	22	19	17

**awv** american warming and ventilating

A MESTEK COMPANY

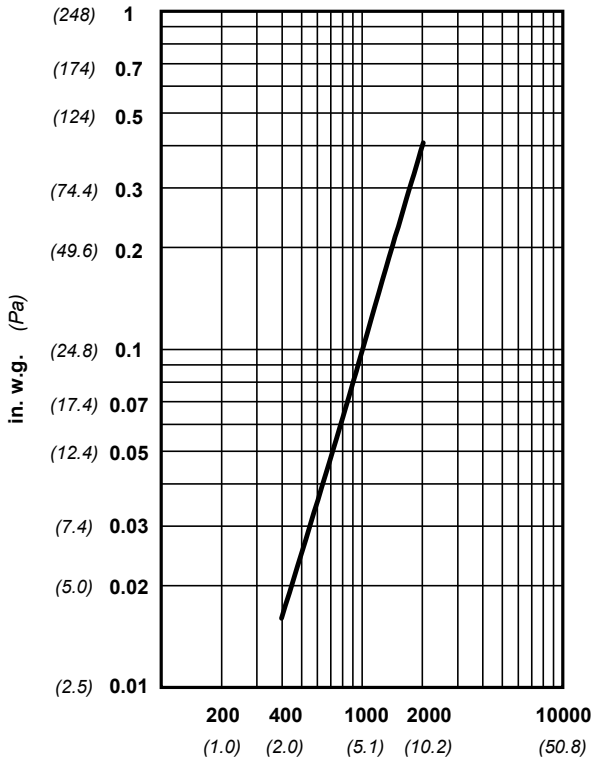
7301 INTERNATIONAL DRIVE HOLLAND, OHIO  
Phone (419) 865-5000 Fax (419) 865-1375

### LAG-88 ACOUSTICAL LOUVER

DRN. BY	ESS	DWG. NO.	LAG-88	REV.
DATE	10/8/10			

**Water Penetration** : 0.01 oz (3.0 g) at 956 fpm (4.86 m/s) recommended free area velocity  
**Pressure Drop** : 0.09 in wg (22.4 Pa.) at 956 fpm (4.86 m/s) and 3834 scfm (1.81 scm/s)  
**Free Area** : 4.01 sq ft (0.373 sq m) = 25.1% for 48" x 48" (1.22m x 1.22m) test size

**INTAKE PRESSURE DROP**



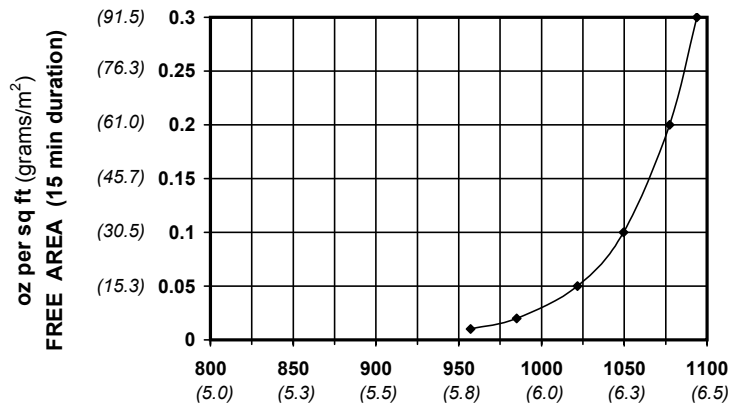
**VELOCITY THROUGH FREE AREA fpm (m/s)**  
 standard air - .075 lbs per cu ft

Ratings do not include the effect of a wire bird screen  
 Test based on a 48" x 48" test size per AMCA Standard 511

**FREE AREA IN SQUARE FEET (sq meters)**

		WIDTH								
		in. mm	12 305	18 457	24 610	30 762	36 914	48 1219	60 1524	72 1829
HEIGHT	20 508	0.33 0.031	0.53 0.049	0.73 0.068	0.93 0.086	1.13 0.105	1.54 0.143	1.94 0.180	2.34 0.217	
	24 610	0.34 0.032	0.55 0.051	0.76 0.071	0.97 0.090	1.18 0.110	1.59 0.148	2.01 0.187	2.43 0.226	
	36 914	0.67 0.062	1.08 0.100	1.50 0.139	1.91 0.177	2.32 0.216	3.14 0.292	3.97 0.369	4.79 0.445	
	48 1219	0.85 0.079	1.38 0.128	1.90 0.177	2.43 0.226	2.96 0.275	4.01 0.373	5.06 0.470	6.11 0.568	
	60 1524	1.18 0.110	1.91 0.177	2.64 0.245	3.37 0.313	4.10 0.381	5.56 0.517	7.01 0.651	8.47 0.787	
	72 1829	1.37 0.127	2.21 0.205	3.05 0.283	3.89 0.361	4.73 0.439	6.42 0.596	8.10 0.753	9.78 0.909	
	84 2134	1.70 0.158	2.74 0.255	3.79 0.352	4.83 0.449	5.88 0.546	7.97 0.740	10.06 0.935	12.15 1.129	
	96 2438	1.88 0.175	3.04 0.282	4.20 0.390	5.36 0.498	6.51 0.605	8.83 0.820	11.14 1.035	13.46 1.250	

**WATER PENETRATION**



**VELOCITY THROUGH FREE AREA fpm (m/s)**

Both maximum recommended free area velocity and beginning of water penetration are 956 fpm at standard air - .075 lbs per cu ft.

The above water penetration data is based on mill finish, 48" x 48" test size per AMCA Standard 511.



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**LAG-88**

Below is an explanation of how to use the AMCA Performance data for the recommended free area velocity of 956 fpm (4.86 m/s).

To determine minimum free area required for louver:

**Step #1:** Divide the required CFM flow by the maximum recommended free area velocity.

**Step #2:** Select the most desirable louver size, from the free area table, that meets the minimum free area requirement.

**Step #3:** Compare specified performance to the certified water penetration and pressure drop ratings.

Openings that require multiple louver panels in both width and height will require internal structural supports. It is recommended that large openings be divided with structural members so that the louvers will span either width or height with a single panel. Unusually high wind loading may require structural supports on non-multiple wide and multiple high assemblies. **Structural supports and mounting accessories are not supplied as a standard.**

Example: Given: 5000 CFM design flow

**Step #1:**

$$\text{min. free area} = \frac{\text{Design CFM}}{\text{Max. Recommended Velocity}} = \frac{5000}{956} = 5.23 \text{ sq ft}$$

**Step #2:** From the free area table above the approximate louver size is 30" x 96" = (5.36 sq ft)