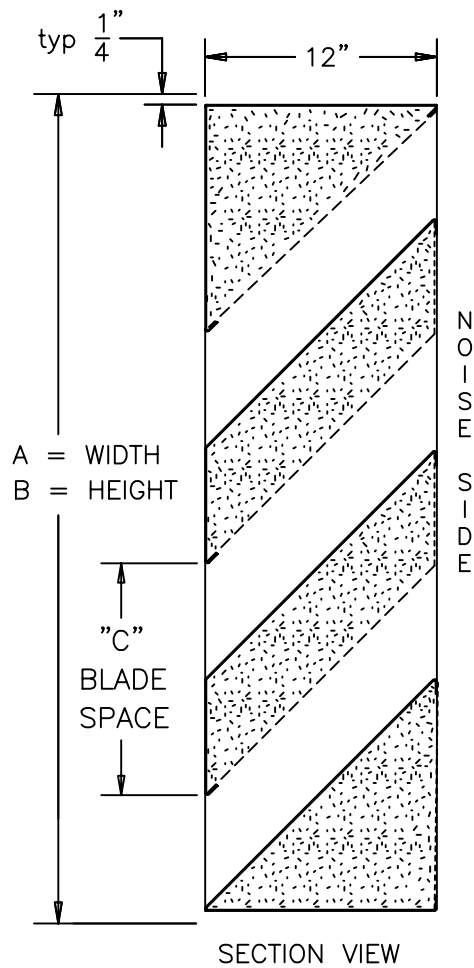
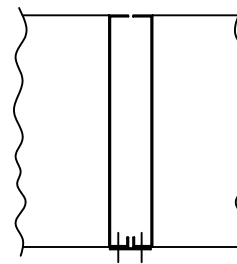


# FABRICATED GALVANIZED, 12" DEEP, HEAVY GAUGE, ACOUSTICAL FIXED TYPE BLADE



## MODEL LAG-1212 STANDARD SPECIFICATIONS

- FRAME: 12" 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:  $\frac{1}{2}$ " REMOVABLE EXPANDED ALUMINUM BIRD SCREEN, LOCATED ON INTERIOR (NOISE SIDE).
- MAXIMUM PANEL SIZE : 72" x 96".
- MINIMUM PANEL SIZE : 12" x 30".
- DIMENSIONS: "A" (WIDTH) AND "B" (HEIGHT) ARE OPENING SIZES. LOUVERS ARE MADE  $\frac{1}{2}$ " UNDERSIZE.



STANDARD VERTICAL  
MULLION

MODEL No.	"C" BLADE SPACE
LAG-1212	12"

### LOUVER MODEL No. DESCRIPTION

LAG	-	12	12
LOUVER ACOUSTICAL GALVANIZED		FRAME DEPTH	BLADE SPACING



American Warming & Ventilating certifies that the model LAG-1212 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 14

OCTAVE BAND	1	2	3	4	5	6	7	8
FREQUENCY (Hz)	63	125	250	500	1K	2K	4K	8K
TRANSMISSION LOSS (db)	9	6	6	13	19	11	9	9
FREE FIELD NOISE REDUCTION (db)	15	13	14	19	25	14	20	15

**awv** american warming and ventilating

A MESTEK COMPANY

7301 INTERNATIONAL DRIVE  
Phone (419) 865-5000

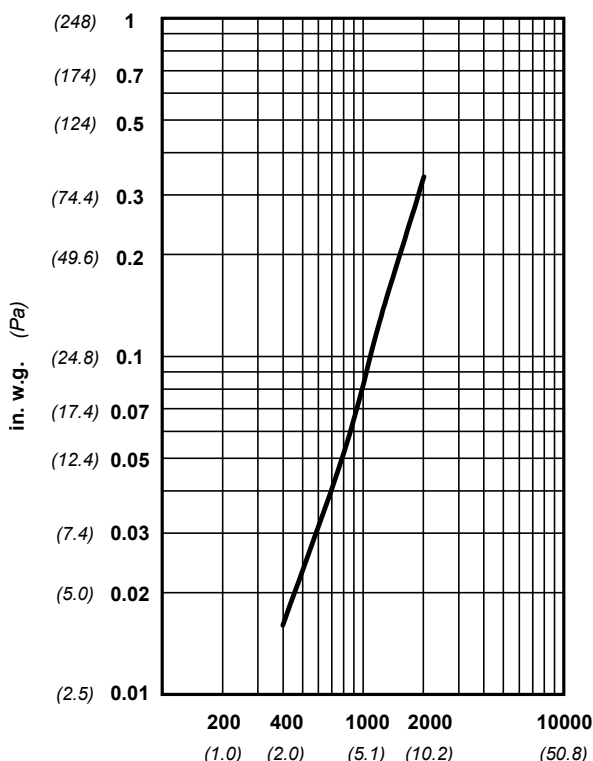
HOLLAND, OHIO  
Fax (419) 865-1375

## LAG-1212 ACOUSTICAL LOUVER

DRN. BY	ESS	DWG. NO.	REV.
DATE	6/2/11	LAG-1212	

**Water Penetration** : 0.01 oz (3.0 g) at 1089 fpm (5.53 m/s) recommended free area velocity  
**Pressure Drop** : 0.10 in wg (24.9 Pa.) at 1089 fpm (5.53 m/s) and 3931 scfm (1.86 scm/s)  
**Free Area** : 3.46 sq ft (0.321 sq m) = 21.6% 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



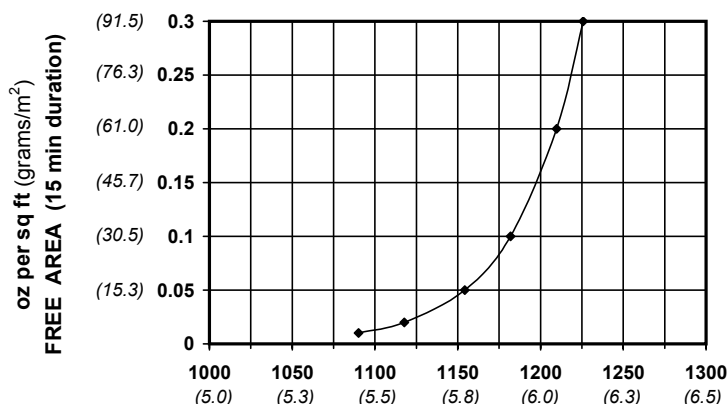
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### LAG-1212

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

HEIGHT	WIDTH								
	in.	12	18	24	30	36	48	60	72
	mm	305	457	610	762	914	1219	1524	1829
30	0.53	0.85	1.18	1.50	1.83	2.48	3.13	3.78	
762	0.049	0.079	0.110	0.139	0.170	0.230	0.291	0.351	
36	0.54	0.87	1.21	1.54	1.87	2.54	3.20	3.87	
914	0.050	0.081	0.112	0.143	0.174	0.236	0.297	0.360	
42	0.80	1.30	1.80	2.29	2.79	3.31	4.77	5.76	
1067	0.074	0.121	0.167	0.213	0.259	0.308	0.443	0.535	
48	0.82	1.32	1.82	2.33	2.83	3.46	4.84	5.84	
1219	0.076	0.123	0.169	0.216	0.263	0.321	0.450	0.543	
60	1.09	1.77	2.44	3.11	3.78	5.13	6.48	7.82	
1524	0.101	0.164	0.227	0.289	0.351	0.477	0.602	0.727	
72	1.37	2.21	3.06	3.90	4.74	6.43	8.11	9.80	
1829	0.127	0.205	0.284	0.362	0.440	0.597	0.753	0.910	
84	1.65	2.66	3.67	4.68	5.70	7.72	9.75	11.77	
2134	0.153	0.247	0.341	0.435	0.530	0.717	0.906	1.093	
96	1.92	3.11	4.29	5.47	6.65	9.02	11.39	13.75	
2438	0.178	0.289	0.399	0.508	0.618	0.838	1.058	1.277	

### WATER PENETRATION



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

Both maximum recommended free area velocity and beginning of water penetration are 1089 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.

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:

$$\text{min. free area} = \frac{\text{Design CFM}}{\text{Max. Recommended Velocity}} = \frac{5000}{1089} = 4.59 \text{ sq ft}$$

**Step #2:** From the free area table above the approximate louver size is 30" x 84" = (4.68 sq ft)

Below is an explanation of how to use the AMCA Performance data for the recommended free area velocity of 1089 fpm (5.53 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.