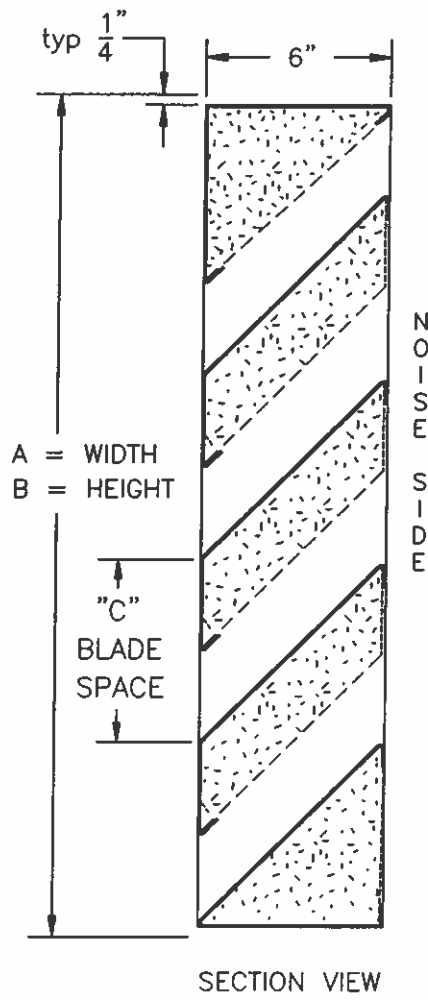
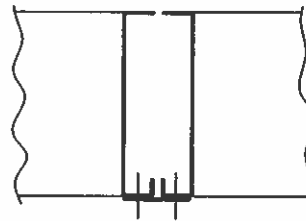


FABRICATED GALVANIZED, 6" DEEP, HEAVY GAUGE, ACOUSTICAL FIXED TYPE BLADE



MODEL LAG-66 STANDARD SPECIFICATIONS

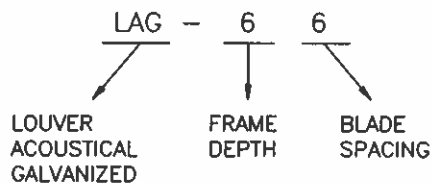
- FRAME: 6" DEEP, 16 GAUGE GALVANIZED.
- BLADES: 20 GAUGE GALVANIZED (NON NOISE SIDE).
22 GAUGE PERFORATED GALVANNEALED (NOISE SIDE)
- INSULATION: WATER RESISTANT SOUND ABSORBING MATERIAL
- FINISH: MILL.
- SCREEN: 1/2" REMOVABLE EXPANDED ALUMINUM BIRD SCREEN, LOCATED ON INTERIOR (NOISE SIDE).
- MAXIMUM PANEL SIZE: 72" X 96".
- MINIMUM PANEL SIZE: 12" X 15".
- DIMENSIONS: "A" (WIDTH) AND "B" (HEIGHT) ARE OPENING SIZES. LOUVERS ARE MADE 1/2" UNDERSIZE.



STANDARD VERTICAL
MULLION

MODEL No.	"C" BLADE SPACE
LAG-66	6"

LOUVER MODEL No. DESCRIPTION



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	6	6	9	13	15	14	14
FREE FIELD NOISE REDUCTION (db)	7	12	12	15	19	21	20	20



AWV certifies that the model LAG-66 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.

awv american warming and ventilating

A MESTEK COMPANY

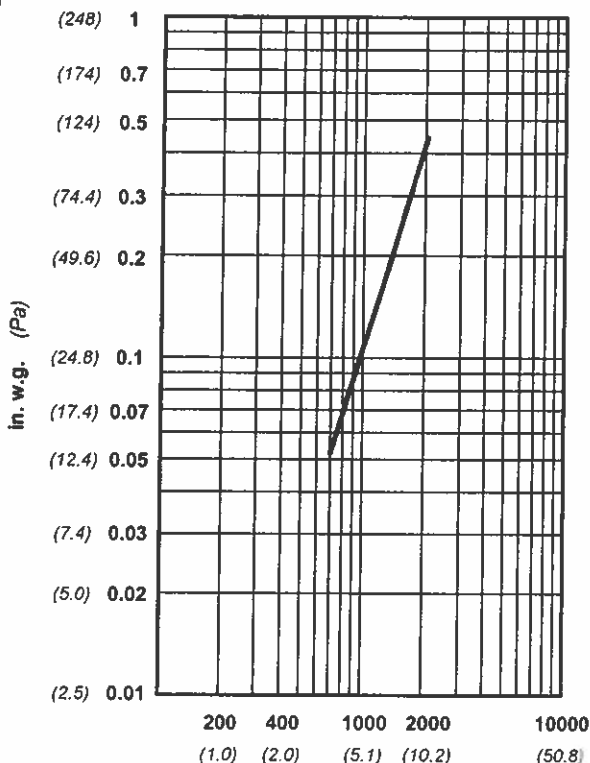
7301 INTERNATIONAL DRIVE HOLLAND, OHIO
Phone (419) 865-5000 Fax (419) 865-1375

LAG-66 ACOUSTICAL LOUVER

DRN. BY	JVC	DWG. NO.	REV.
DATE	3/21/07	LAG-66	

Water Penetration : 0.01 oz (3.0 g) at 858 fpm (4.36 m/s) recommended free area velocity
Pressure Drop : 0.076 in wg (18.8 Pa.) at 858 fpm (4.36 m/s) and 3629 scfm (1.71 scm/s)
Free Area : 4.23 sq ft (0.393 sq m) = 26.4% 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-66

Below is an explanation of how to use the AMCA Performance data for the recommended free area velocity of 858 fpm (4.36 m/s).

To determine minimum free area required for louver:

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

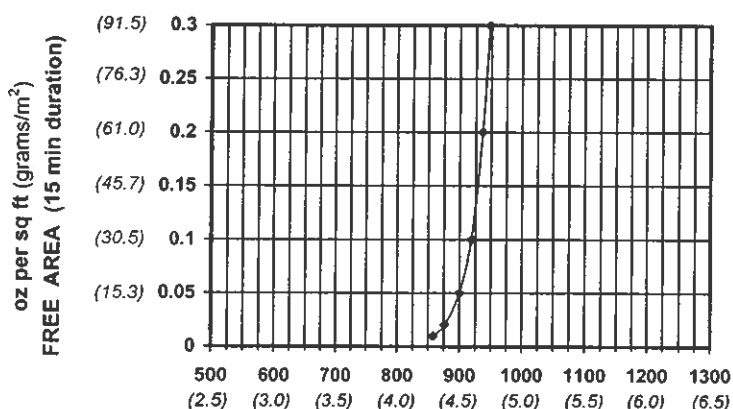
Step #2: Select the most desirable louver size, from the free area table, that meets the minimum free area requirement.

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

FREE AREA IN SQUARE FEET (sq meters)

HEIGHT	WIDTH								
	in. mm	12 305	18 457	24 610	30 762	36 914	48 1219	60 1524	72 1829
15	0.16	0.25	0.35	0.45	0.54	0.73	0.92	1.11	
381	0.015	0.023	0.033	0.042	0.050	0.068	0.085	0.103	
24	0.39	0.63	0.87	1.10	1.34	1.81	2.29	2.76	
610	0.036	0.059	0.081	0.102	0.124	0.168	0.213	0.256	
36	0.66	1.05	1.45	1.84	2.23	3.02	3.81	4.60	
914	0.061	0.098	0.135	0.171	0.207	0.281	0.354	0.427	
48	0.92	1.47	2.02	2.58	3.13	4.23	5.34	6.44	
1219	0.085	0.137	0.188	0.239	0.291	0.393	0.496	0.598	
60	1.18	1.89	2.60	3.31	4.02	5.44	6.86	8.28	
1524	0.110	0.176	0.242	0.308	0.373	0.505	0.637	0.769	
72	1.45	2.31	3.18	4.05	4.92	6.65	8.39	10.12	
1829	0.135	0.215	0.295	0.376	0.457	0.618	0.779	0.940	
84	1.71	2.73	3.76	4.79	5.81	7.86	9.91	11.96	
2134	0.159	0.254	0.349	0.445	0.540	0.730	0.921	1.111	
96	1.97	3.15	4.34	5.52	6.70	9.07	11.44	13.80	
2438	0.183	0.293	0.403	0.513	0.622	0.843	1.063	1.282	

WATER PENETRATION



VELOCITY THROUGH FREE AREA fpm (m/s)

Both maximum recommended free area velocity and beginning of water penetration are 858 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:

$$\text{min. free area} = \frac{\text{Design CFM}}{\text{Max. Recommended Velocity}} = \frac{5000}{858} = 5.83 \text{ sq ft}$$

Step #2: From the free area table above the approximate louver size is 72" x 48" = (6.44 sq ft)