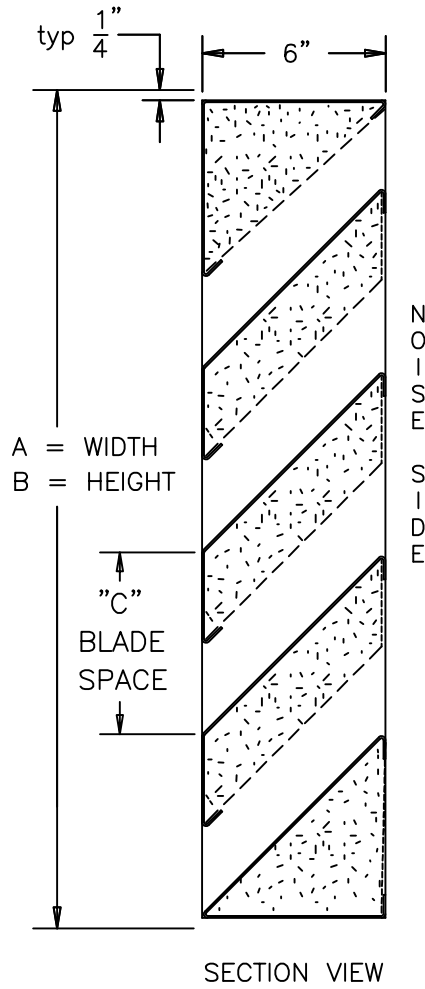
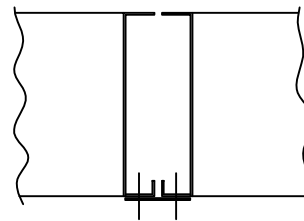


# FABRICATED ALUMINUM, 6" DEEP, HEAVY GAUGE, ACOUSTICAL FIXED TYPE BLADE



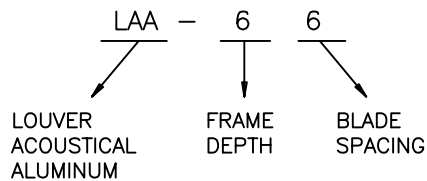
## MODEL LAA-66 STANDARD SPECIFICATIONS

- FRAME: 6" DEEP, 12 GAUGE ALUMINUM.
- BLADES: 16 GAUGE ALUMINUM (NON NOISE SIDE).  
20 GAUGE PERFORATED ALUMINUM (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.



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

### LOUVER MODEL No. DESCRIPTION



AWV certifies that the model LAA-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

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Phone (419) 865-5000 Fax (419) 865-1375

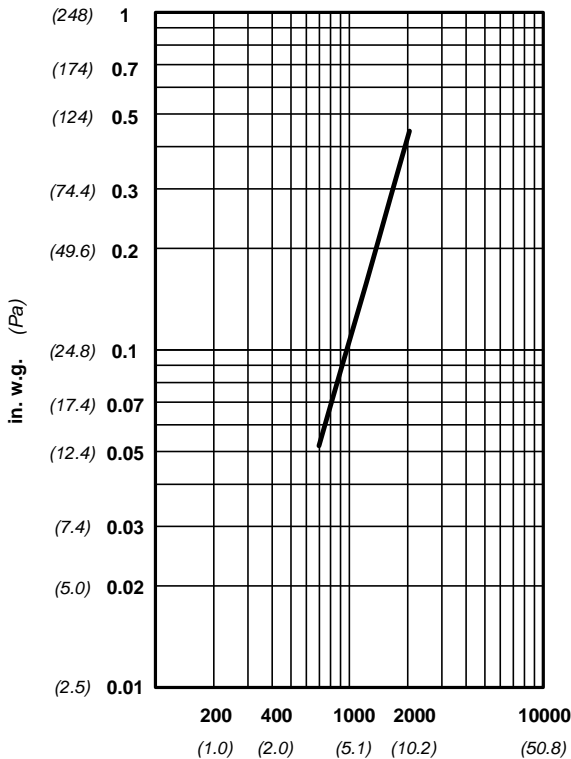
STC CLASS 12								
OCTAVE BAND	1	2	3	4	5	6	7	8
FREQUENCY (Hz)	63	125	250	500	1K	2K	4K	8K
TRANSMISSION LOSS (db)	1	6	6	9	13	15	14	14
FREE FIELD NOISE REDUCTION (db)	7	12	12	15	19	21	20	20

## LAA-66 ACOUSTICAL LOUVER

DRN. BY	JMC	DWG. NO.	LAA-66	REV.
DATE	12-21-18			

**Water Penetration** : 0.01 oz (3.0 g) at 858 fpm (4.29 m/s) recommended free area velocity  
**Pressure Drop** : 0.078 in wg (19.4 Pa.) at 858 fpm (4.29 m/s) and 3861 scfm (1.82 scm/s)  
**Free Area** : 4.50 sq ft (0.00 sq m) = 28.1% for 48" x 48" (1.22m x 1.22m) test size

**INTAKE PRESSURE DROP**



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

Airflow at standard air density - .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  
 AMCA Figure 5.5 Test Setup



American Warming and Ventilating certifies that the model LE-34 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 and water penetration ratings.

**LAA-66**

Below is an explanation of how to use the AMCA Performance data for the recommended free area velocity of 858 fpm (4.29 m/s).

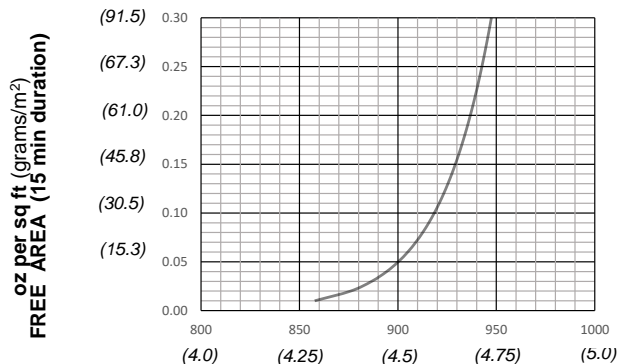
To determine minimum free area required for louver:

- 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)**

		WIDTH							
		in.	12	18	24	30	36	48	60
HEIGHT	mm	305	457	610	762	914	1219	1524	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	4.50	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:**

$$\text{min. free area} = \frac{\text{Design CFM}}{\text{Max. Recommended Velocity}}$$

$$= \frac{10,000}{858} = 11.66 \text{ sq ft}$$

**Step #2:** From the free area table above the approximate louver size is 72" x 84" = (11.96 sq ft)