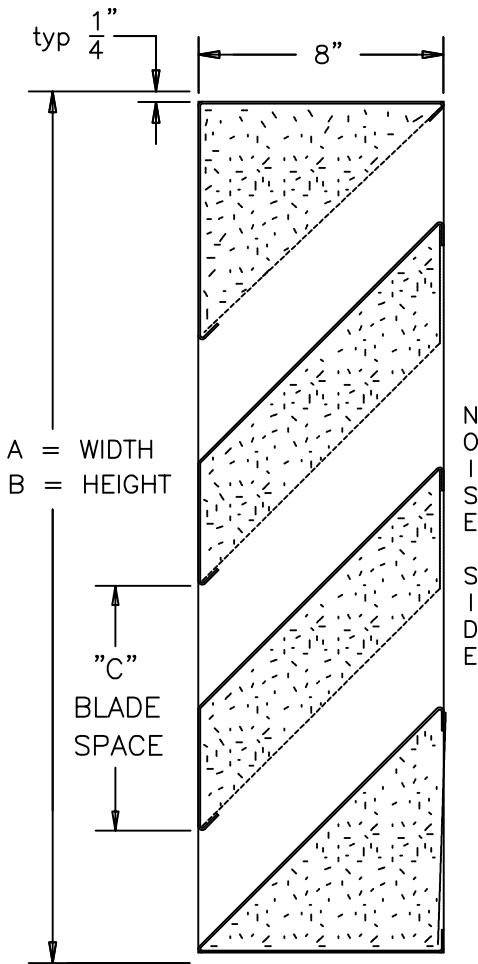


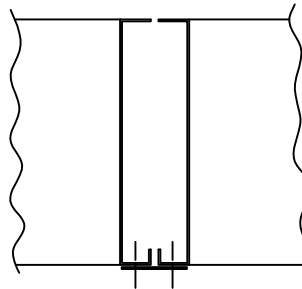
FABRICATED ALUMINUM, 8" DEEP, HEAVY GAUGE, ACOUSTICAL FIXED TYPE BLADE

MODEL LAA-88 STANDARD SPECIFICATIONS

- FRAME: 8" 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 20".
- DIMENSIONS: "A" (WIDTH) AND "B" (HEIGHT) ARE OPENING SIZES. LOUVERS ARE MADE 1/2" UNDERSIZE.



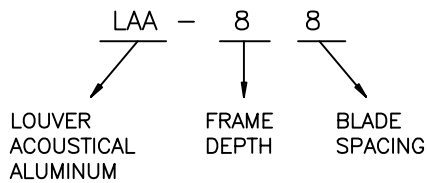
SECTION VIEW



STANDARD VERTICAL
MULLION

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

LOUVER MODEL No. DESCRIPTION



American Warming & Ventilating certifies that the model LAA-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.

awv american warming and ventilating

A MESTEK COMPANY

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

LAA-88 ACOUSTICAL LOUVER

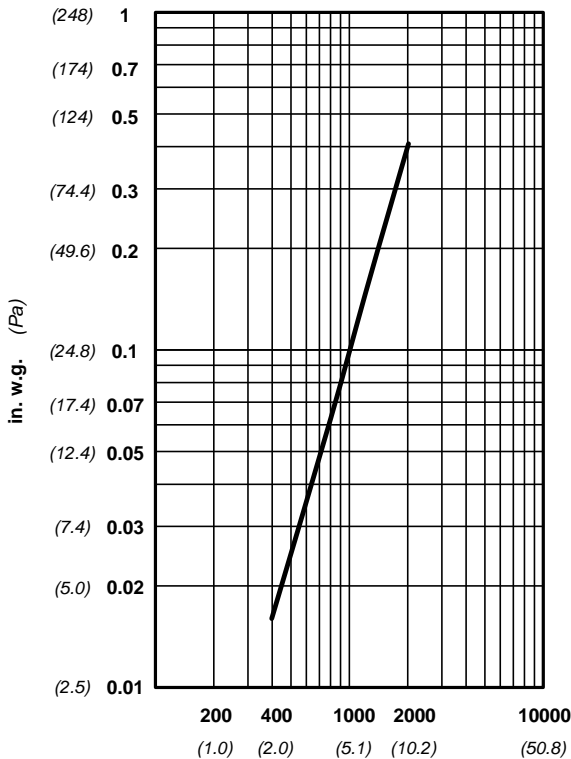
STC CLASS 12

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

DRN. BY JMC	DWG. NO. LAA-88	REV.
DATE 06/05/17		

Water Penetration : 0.01 oz (3.0 g) at 849 fpm (4.25 m/s) recommended free area velocity
Pressure Drop : 0.07 in wg (17.4 Pa.) at 849 fpm (4.25 m/s) and 3405 scfm (1.61 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)

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



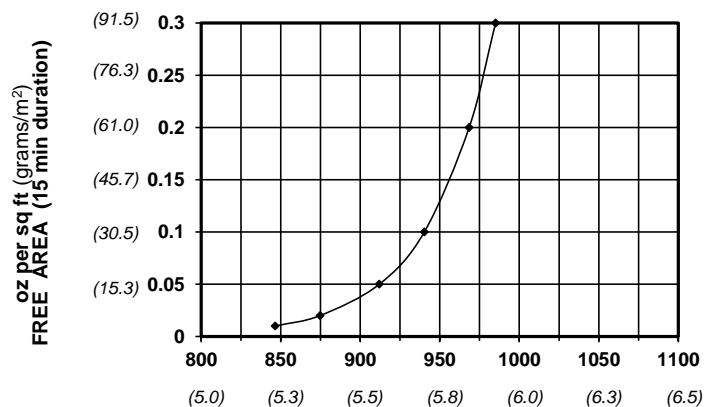
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LAA-88

FREE AREA IN SQUARE FEET (sq meters)

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

WATER PENETRATION



VELOCITY THROUGH FREE AREA fpm (m/s)

Both maximum recommended free area velocity and beginning of water penetration are 849 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:

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

$$= \frac{5000}{849} = 5.89 \text{ sq ft}$$

Step #2: From the free area table above the approximate louver size is 36" x 96" = (6.51 sq ft)

Below is an explanation of how to use the AMCA Performance data for the recommended free area velocity of 849 fpm (4.25 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.