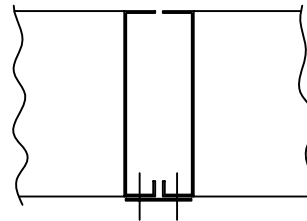
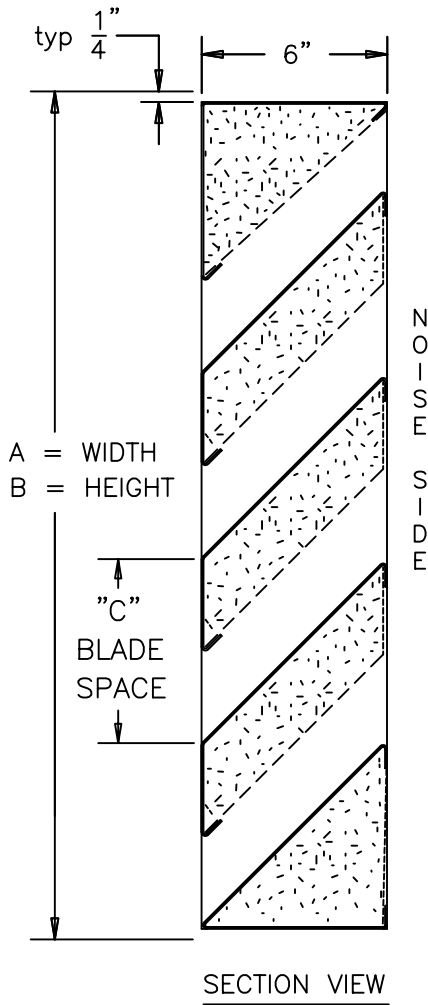


FABRICATED ALUMINUM, 6" DEEP, HEAVY GAUGE, ACOUSTICAL FIXED TYPE BLADE

MODEL AAC-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.



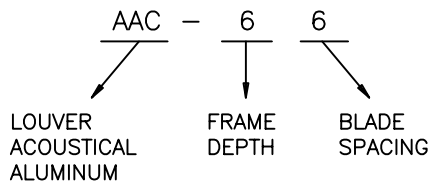
MODEL No.	"C" BLADE SPACE
AAC-66	6"

STANDARD VERTICAL
MULLION



ABI certifies that the model AAC-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.

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

abi air balance

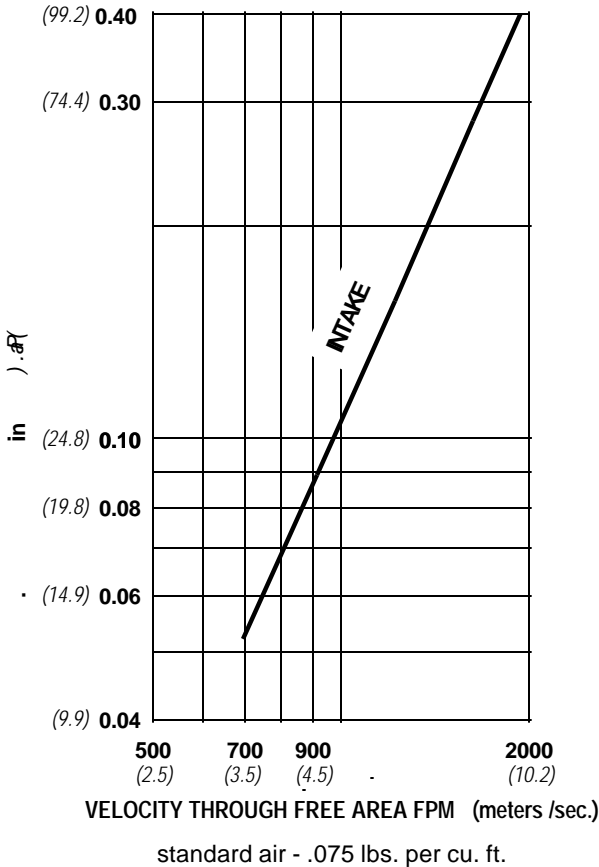
A MESTEK COMPANY
7435 INDUSTRIAL RD FLORENCE, KY
Phone (419) 865-5000 Fax (419) 865-1375

AAC-66 ACOUSTICAL LOUVER

DRN. BY ESS	DWG. NO. AAC-66	REV.
DATE 01-10-03		

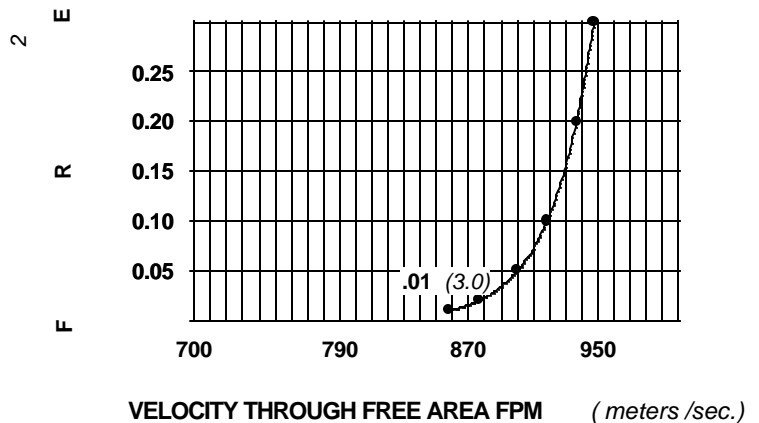
Water Penetration : .01 oz. (3.0 g) at 858 fpm (4.36 m/s) recommended free area velocity
Pressure Drop : .076 in. wg. (18.8 Pa.) at 858 fpm (4.36 m/s) and 3460 SCFM (1.63 scm/s)
Free Area

PRESSURE DROP



FREE AREA IN SQUARE FEET (sq. meters)

		WIDTH													
		in.	12	24	30	36	42	48	54	60	66	72			
HEIGHT	mm	304	609	762	914	1066	1219	1371	1524	1676	1828				
	20	0.26	0.58	0.74	0.89	1.05	1.21	1.37	1.52	1.68	1.84				
	508	0.02	0.05	0.07	0.08	0.10	0.11	0.13	0.14	0.16	0.17				
	24	0.39	0.87	1.10	1.34	1.58	1.81	2.05	2.29	2.52	2.76				
	609	0.04	0.08	0.10	0.12	0.15	0.17	0.19	0.21	0.23	0.26				
	36	0.66	1.45	1.84	2.23	2.63	3.02	3.42	3.81	4.21	4.60				
	914	0.06	0.13	0.17	0.21	0.24	0.28	0.32	0.35	0.39	0.43				
	48	0.92	2.02	2.58	3.13	3.68	4.23	4.78	5.34	5.89	6.44				
	1219	0.09	0.19	0.24	0.29	0.34	0.39	0.44	0.50	0.55	0.60				
	60	1.18	2.60	3.31	4.02	4.73	5.44	6.15	6.86	7.57	8.28				
	1524	0.11	0.24	0.31	0.37	0.44	0.51	0.57	0.64	0.70	0.77				
	72	1.45	3.18	4.05	4.92	5.78	6.65	7.52	8.39	9.25	10.12				
	1828	0.13	0.30	0.38	0.46	0.54	0.62	0.70	0.78	0.86	0.94				
	84	1.71	3.76	4.78	5.81	6.84	7.86	8.89	9.91	10.94	11.96				
2133	0.16	0.35	0.44	0.54	0.64	0.73	0.83	0.92	1.02	1.11					
96	1.97	4.34	5.52	6.70	7.89	9.07	10.25	11.44	12.62	13.80					
2438	0.18	0.40	0.51	0.62	0.73	0.84	0.95	1.06	1.17	1.28					



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AAC-66

Below is an explanation of how to use the AMCA performance data for the recommended free area velocity of 858 (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.

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 5,000 CFM design flow

Step #1:

$$\text{min. free area} = \frac{\text{Design CFM}}{\text{Max. Recommended Velocity}} = \frac{5,000}{858} = 5.83 \text{ sq. ft.}$$

Step #2: From the free area table above the approximate louver size is **54" x 60"** = (6.15 sq. ft.)