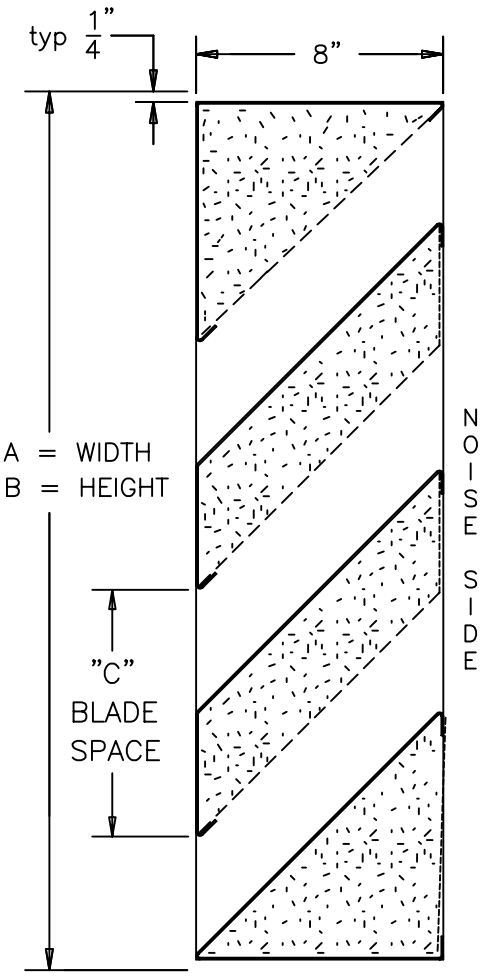
FABRICATED ALUMINUM, 8" DEEP, HEAVY GAUGE, ACOUSTICAL FIXED TYPE BLADE



SECTION VIEW

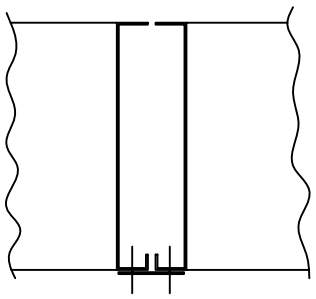
MODEL AAC–88
STANDARD SPECIFICATIONS

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.



STANDARD VERTICAL MULLION

MODEL No.	"C" BLADE SPACE
AAC–88	8"

LOUVER MODEL No. DESCRIPTION

AAC – 8 8

- AAC – LOUVER ACOUSTICAL ALUMINUM
- 8 – FRAME DEPTH
- 8 – BLADE SPACING

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

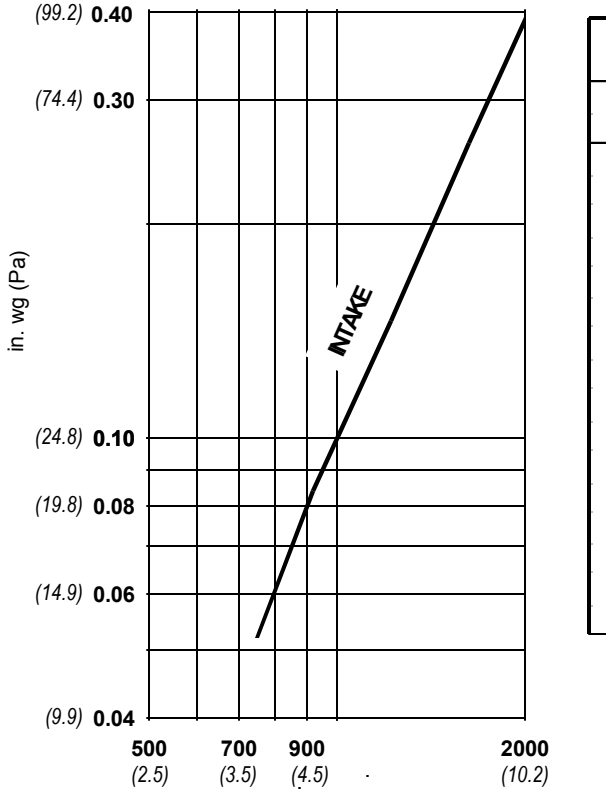
abi® air balance
A Mestek Company
450 Riverside Drive Wyalusing, PA 18853
Phone (570) 746-1888 Fax: (570) 746-9286

AAC–88 ACOUSTICAL LOUVER

DRN. BY	DWG. NO.	REV.
ESS	AAC–88	
DATE 10-04-06		

Water Penetration : .01 oz. *(3.0 g.)* **at 990 fpm** *(5.03 m/s)* **recommended free area velocity**
Pressure Drop
Free Area : 4.03 sq.ft. *(0.374 sq. m.)* **= 25% for 48" x 48"** *(1.22 m x 1.22 m)* **test size**

PRESSURE DROP



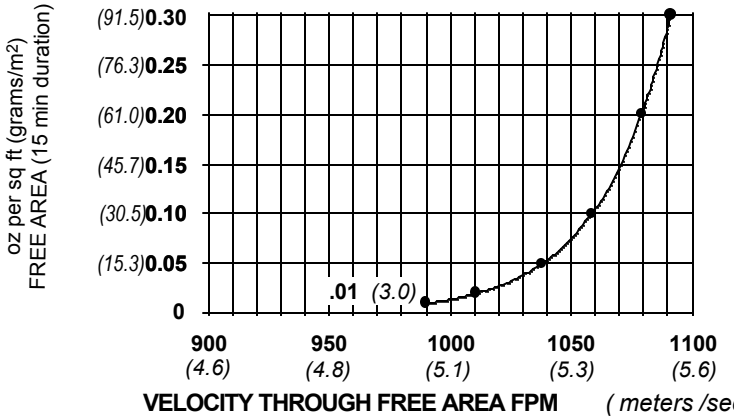
standard air - .075 lbs. per cu. ft.
Ratings do not include the effect of a bird screen

This product was tested in accordance with AMCA Standard 500L.

FREE AREA IN SQUARE FEET *(sq. meters)*

HEIGHT		WIDTH							
	in.	12	24	30	36	42	48	54	60
	mm	304	609	762	914	1066	1219	1371	1524
	20	0.31	0.69	0.88	1.08	1.27	1.46	1.66	1.85
	508	0.03	0.06	0.08	0.10	0.12	0.14	0.15	0.17
	24	0.31	0.69	0.88	1.08	1.27	1.46	1.66	1.85
	609	0.03	0.06	0.08	0.10	0.12	0.14	0.15	0.17
	36	0.66	1.50	1.92	2.34	2.76	3.18	3.60	4.02
	914	0.06	0.14	0.18	0.22	0.26	0.30	0.33	0.37
	48	0.84	1.90	2.43	2.97	3.50	4.03	4.56	5.09
	1219	0.08	0.18	0.23	0.28	0.32	0.37	0.42	0.47
	60	1.20	2.72	3.48	4.24	4.99	5.75	6.51	7.27
	1524	0.11	0.25	0.32	0.39	0.46	0.53	0.61	0.68
	72	1.38	3.12	4.00	4.87	5.74	6.61	7.48	8.36
	1828	0.13	0.29	0.37	0.45	0.53	0.61	0.70	0.78
	84	1.74	3.93	5.03	6.13	7.23	8.33	9.43	10.52
	2133	0.16	0.37	0.47	0.57	0.67	0.77	0.88	0.98
	96	1.92	4.34	5.55	6.76	7.97	9.18	10.39	11.61
	2438	0.18	0.40	0.52	0.63	0.74	0.85	0.97	1.08

WATER PENETRATION



Both maximum recommended free area velocity and beginning of water penetration are **990 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.**

Below is an explanation of how to use the performance data for the recommended free area velocity of 990 *(5.03 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.

Example: Given 5,000 CFM design flow
Step #1:
min. free area = $\frac{\text{Design CFM}}{\text{Max. Recommended Velocity}}$
= $\frac{5{,}000}{990}$ = **5.05 sq. ft.**

Step #2: From the free area table above the approximate louver size is **60" x 48"** = (5.09 sq. ft.)