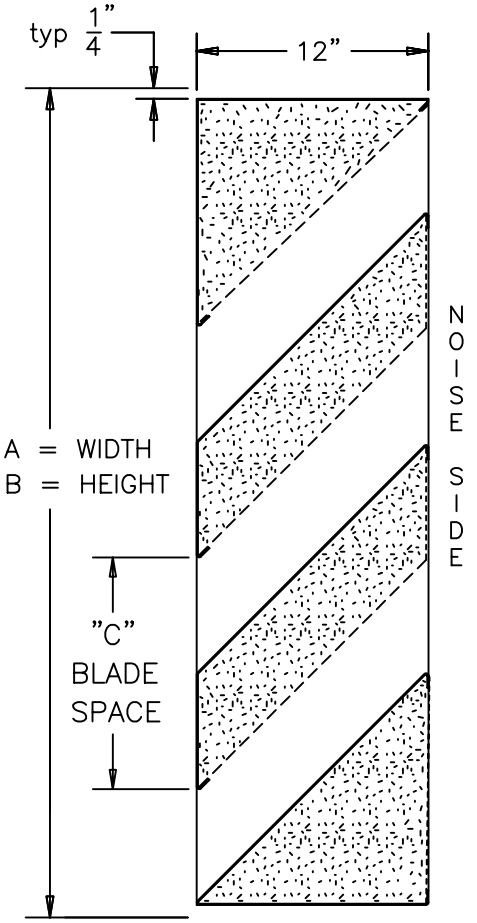
FABRICATED ALUMINUM, 12" DEEP, HEAVY GAUGE, ACOUSTICAL FIXED TYPE BLADE



SECTION VIEW

MODEL LAA–1212
STANDARD SPECIFICATIONS

FRAME: 12" DEEP, 12 GAUGE ALUMINUM.

BLADES: 16 GAUGE ALUMINUM (NON NOISE SIDE).
20 GAUGE PERFORATED ALUMINUM (NOISE SIDE).

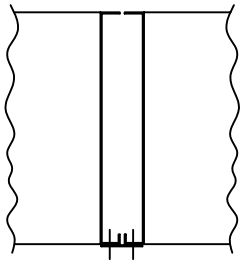
INSULATION: WATER RESISTANT SOUND ABSORBING MATERIAL

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 30"

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



STANDARD VERTICAL MULLION

MODEL No.	"C" BLADE SPACE
LAA–1212	12"

LOUVER MODEL No. DESCRIPTION

LAA – 12 12

- LAA: LOUVER ACOUSTICAL ALUMINUM
- 12: FRAME DEPTH
- 12: BLADE SPACING

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STC CLASS 14

OCTAVE BAND	1	2	3	4	5	6	7	8
FREQUENCY (Hz)	63	125	250	500	1K	2K	4K	8K
TRANSMISSION LOSS (db)	9	7	8	13	19	14	11	9
FREE FIELD NOISE REDUCTION (db)	15	13	14	19	25	20	17	15

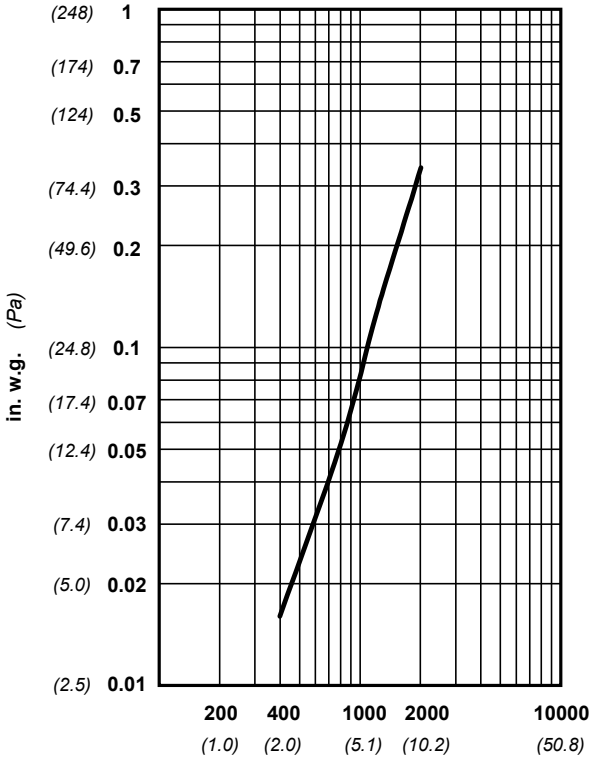
awv® american warming and ventilating
A MESTEK COMPANY
7301 INTERNATIONAL DRIVE HOLLAND, OHIO
Phone (419) 865–5000 Fax (419) 865–1375

LAA–1212 ACOUSTICAL LOUVER

DRN. BY	DWG. NO.	REV.
ESS	LAA–1212	
DATE 6/2/11		

Water Penetration : 0.01 oz (3.0 g) at 1089 fpm (5.53 m/s) recommended free area velocity
Pressure Drop : 0.10 in wg (24.9 Pa.) at 1089 fpm (5.53 m/s) and 3931 scfm (1.86 scm/s)
Free Area : 3.46 sq ft (0.321 sq m) = 21.6% for 48" x 48" (1.22m x 1.22m) test size

INTAKE PRESSURE DROP

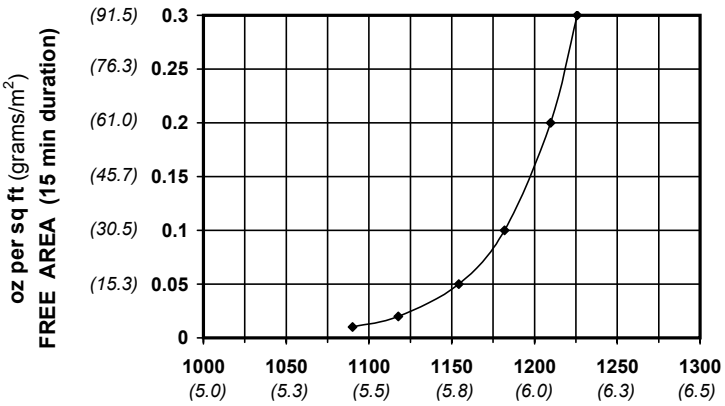


VELOCITY THROUGH FREE AREA fpm (m/s)
standard air- .075 lbs per cu ft
Ratings do not include the effect of a wire bird screen
Test based on a 48" x 48" test size per AMCA Standard 511

FREE AREA IN SQUARE FEET *(sq meters)*

HEIGHT	WIDTH								
	in.	**12**	**18**	**24**	**30**	**36**	**48**	**60**	**72**
	mm	*305*	*457*	*610*	*762*	*914*	*1219*	*1524*	*1829*
	30	**0.53**	**0.85**	**1.18**	**1.50**	**1.83**	**2.48**	**3.13**	**3.78**
	762	*0.049*	*0.079*	*0.110*	*0.139*	*0.170*	*0.230*	*0.291*	*0.351*
	36	**0.54**	**0.87**	**1.21**	**1.54**	**1.87**	**2.54**	**3.20**	**3.87**
	914	*0.050*	*0.081*	*0.112*	*0.143*	*0.174*	*0.236*	*0.297*	*0.360*
	42	**0.80**	**1.30**	**1.80**	**2.29**	**2.79**	**3.31**	**4.77**	**5.76**
	1067	*0.074*	*0.121*	*0.167*	*0.213*	*0.259*	*0.308*	*0.443*	*0.535*
	48	**0.82**	**1.32**	**1.82**	**2.33**	**2.83**	**3.46**	**4.84**	**5.84**
	1219	*0.076*	*0.123*	*0.169*	*0.216*	*0.263*	*0.321*	*0.450*	*0.543*
	60	**1.09**	**1.77**	**2.44**	**3.11**	**3.78**	**5.13**	**6.48**	**7.82**
	1524	*0.101*	*0.164*	*0.227*	*0.289*	*0.351*	*0.477*	*0.602*	*0.727*
	72	**1.37**	**2.21**	**3.06**	**3.90**	**4.74**	**6.43**	**8.11**	**9.80**
	1829	*0.127*	*0.205*	*0.284*	*0.362*	*0.440*	*0.597*	*0.753*	*0.910*
	84	**1.65**	**2.66**	**3.67**	**4.68**	**5.70**	**7.72**	**9.75**	**11.77**
	2134	*0.153*	*0.247*	*0.341*	*0.435*	*0.530*	*0.717*	*0.906*	*1.093*
	96	**1.92**	**3.11**	**4.29**	**5.47**	**6.65**	**9.02**	**11.39**	**13.75**
	2438	*0.178*	*0.289*	*0.399*	*0.508*	*0.618*	*0.838*	*1.058*	*1.277*

WATER PENETRATION



VELOCITY THROUGH FREE AREA fpm (m/s)
Both maximum recommended free area velocity and beginning of water penetration are 1089 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.

amca CERTIFIED RATINGS
WATER PENETRATION
AIR PERFORMANCE
AIR MOVEMENT AND CONTROL ASSOCIATION, INC.
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LAA-1212

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 AMCA Performance data for the recommended free area velocity of 1089 fpm (5.53 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: 5000 CFM design flow

Step #1:

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

$$= \frac{5000}{1089} = \textbf{4.59 sq ft}$$

Step #2: From the free area table above the approximate louver size is 30" x 84" = (4.68 sq ft)