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.

SECTION VIEW

A = WIDTH
B = HEIGHT
"C" BLADE SPACE

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

LOUVER MODEL No. DESCRIPTION
AAC – 6 6

LOUVER ACOUSTICAL ALUMINUM FRAME DEPTH BLADE SPACING

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.

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. REV.
01-10-03 AAC-66
Below is an explanation of how to use the AMCA performance data for the recommended free area velocity of 858 fpm (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.

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

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<th>WIDTH</th>
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**FREE AREA IN SQUARE FEET**

(1 oz. = 28.35 g)

**PRESSURE DROP**

(1 in. wg. = 25.4 mm Hg)

**WATER PENETRATION**

(1 oz. = 28.35 g)

**PRESSURE DROP**

(FM = Feet per Minute)

**VELOCITY THROUGH FREE AREA FPM**

(meters/sec.)

standard air = .075 lbs. per cu. ft.

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AAC-66

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 louveres 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:**

min. free area = design CFM

Max. Recommended Velocity

= 5,000

858

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