FABRICATED GALVANIZED, 6” DEEP, HEAVY GAUGE, ACOUSTICAL FIXED TYPE BLADE

MODEL LAG-66
STANDARD SPECIFICATIONS

FRAME: 6” DEEP, 16 GAUGE GALVANIZED.

BLADES: 20 GAUGE GALVANIZED (NON NOISE SIDE), 22 GAUGE PERFORATED GALVANNEALED (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
LAG-66 6"

LOUVER MODEL No. DESCRIPTION
LAG - 6 6

LOUVER ACOUSTICAL GALVANIZED FRAME DEPTH BLADE SPACING

STC CLASS 12

AWV certifies that the model LAG-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.

-American Warming and Ventilating-

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

LAG-66 ACOUSTICAL LOUVER

DRN. BY JVC
DWC. NO.
REV.

DATE 3/21/07

LAG-66
Water Penetration: 0.01 oz (3.0 g) at 858 fpm (4.36 m/s) recommended free area velocity
Pressure Drop: 0.076 in wg (18.8 Pa) at 858 fpm (4.36 m/s) and 3629 scfm (1.71 scm/s)
Free Area: 4.23 sq ft (0.393 sq m) = 26.4% for 48" x 48" (1.22m x 1.22m) test size

### Water Penetration

**VELOCITY THROUGH FREE AREA** fpm (m/s)

*standard air - 0.75 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

**WATER PENETRATION**

*oz per sq ft (grams/m²) per minute duration* (15 min duration)

**FREE AREA** (15 min duration)

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**VELOCITY THROUGH FREE AREA** fpm (m/s)

Both maximum recommended free area velocity and beginning of water penetration are 858 fpm at standard air - 0.75 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:**

\[
\text{min. free area} = \frac{\text{Max. Recommended Velocity}}{\text{Design CFM}} = \frac{5.83 \text{ sq ft}}{858} = 0.07 \text{ sq ft}
\]

**Step #2:**

From the free area table above the approximate louver size is 72" x 48" = (6.44 sq ft)

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AMCA CERTIFIED RATINGS
WATER PENETRATION
AIR PERFORMANCE

LAG-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.