GALVANIZED STEEL, 4" DEEP, HEAVY GAUGE, J FIXED TYPE BLADE

MODEL LF-49
STANDARD SPECIFICATIONS

FRAME: 4" DEEP CHANNEL, 16 GAUGE GALVANIZED STEEL.

BLADES: 16 GAUGE GALVANIZED STEEL.

FINISH: MILL WITH TOUCH UP ON WELDS.

SCREEN: 1/2" REMOVABLE EXPANDED ALUMINUM BIRD SCREEN, LOCATED ON INTERIOR.

MAXIMUM PANEL SIZE: 96" x 96".

MINIMUM PANEL SIZE: 12" x 12".

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

SECTION VIEW

A = WIDTH
B = HEIGHT

EXTENDED SILL
OPTIONAL

ARCHITECTURAL VERTICAL
MULLION OPTIONAL

STANDARD HORIZONTAL
MULLION

FLANGED FRAME
OPTIONAL
(SILL SHOWN)

STANDARD VERTICAL
MULLION

AMCA CERTIFIED RATING

WATER PERFORMANCE
AIR PERFORMANCE

AWV certifies that the model LF-49 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.

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LF-49 STATIONARY LOUVER

DATE 12-14-00
Water Penetration: 0.01 oz (3.0 g) at 631 fpm (3.2 m/s) recommended free area velocity
Pressure Drop: 0.074 in wg (18.3 Pa.) at 631 fpm (3.2 m/s) and 5490 scfm (2.59 scm/s)
Free Area: 8.7 sq ft (0.808 sq m) = 54.4% for 48" x 48" (1.22m x 1.22m) test size

Below is an explanation of how to use the AMCA Performance data for the recommended free area velocity of 631 fpm (3.2 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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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: 15000 CFM design flow

Step #1:
min. free area = \frac{\text{Design CFM}}{\text{Max. Recommended Velocity}}
\quad = \frac{15000}{631} = 23.77 \text{ sq ft}

Step #2: From the free area table above the approximate louver size is 84" x 72" = (24.04 sq ft)