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

MODEL LF-47
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

EXTENDED SILL
OPTIONAL

ARCHITECTURAL VERTICAL
MULLION OPTIONAL

STANDARD HORIZONTAL

FLANGED FRAME
OPTIONAL (JAMB SHOWN)

AMCA CERTIFIED RATINGS

AWV certifies that the model LF-47 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.

LF-47 STATIONARY LOUVER

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

LF-47
Water Penetration: 0.01 oz (3.0 g) at 627 fpm (3.18 m/s) recommended free area velocity
Pressure Drop: 0.084 in wg (20.9 Pa.) at 627 fpm (3.18 m/s) and 4552 scfm (2.15 scm/s)
Free Area: 7.26 sq ft (0.674 sq m) = 45.4% for 48" x 48" (1.22m x 1.22m) test size

Step #1: To determine minimum free area required for louver:
Example: Given: 15000 CFM design flow
Step #1: min. free area = \[
\frac{\text{Design CFM}}{\text{Max. Recommended Velocity}} = \frac{15000}{627} = 23.92 \text{ sq ft}
\]
Step #2: From the free area table above the approximate louver size is 84" x 84" = (24.1 sq ft)

Below is an explanation of how to use the AMCA Performance data for the recommended free area velocity of 627 fpm (3.18 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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LF-47

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