EXTRUDED ALUMINUM, 4” DEEP, FIXED DRAINABLE TYPE BLADE

MODEL LE-21
STANDARD SPECIFICATIONS

FRAME: 4” DEEP CHANNEL, .081” THICK 6063-T5 EXTRUDED ALUMINUM ALLOY.
BLADES: .081” THICK 6063-T5 EXTRUDED ALUMINUM ALLOY.
FINISH: MILL.
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) “B” (HEIGHT) ARE OPENING SIZES. LOUVERS ARE MADE 1/2” UNDERSIZE.

★ PANELS OVER 60” WIDE WILL BE 5-1/2” DEEP DUE TO A VERTICAL INTERIOR BLADE SUPPORT ANGLE.

SECTION VIEW

EXTENDED SILL
OPTIONAL

ARCHITECTURAL VERTICAL MULLION OPTIONAL

A = WIDTH
B = HEIGHT

FLANGED FRAME
OPTIONAL
(JAMB SHOWN)

STANDARD HORIZONTAL MULLION

STANDARD VERTICAL MULLION

AMERICAN CERTIFIED RATINGS

American Warming and Ventilating certifies that the model LE-21 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

LE-21 STATIONARY LOUVER

DRN. BY ESS DWG. NO. REV.
DATE 1/4/12 LE-21

LE-21
**Water Penetration**  
: 0.01 oz (3.0 g) at 1025 fpm (5.21 m/s) recommended free area velocity

**Pressure Drop**  
: 0.20 in wg (49.8 Pa.) at 1025 fpm (5.21 m/s) and 8210 scfm (3.87 scm/s)

**Free Area**  
: 8.01 sq ft (0.744 sq m) = 50.1% for 48" x 48" (1.22m x 1.22m) test size

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**INTAKE PRESSURE DROP**

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

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**WATER PENETRATION**

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Below is an explanation of how to use the AMCA Performance data for the recommended free area velocity of 1025 fpm (5.21 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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Optional data for the specified free area: 

**AREAS:**  
- 0.02 in wg (0.51 Pa) at 1025 fpm (5.21 m/s)  
- 0.01 oz (3.0 g) at 1025 fpm (5.21 m/s) recommended free area velocity

**Ratings do not include the effect of a wire bird screen**

**Figure 5.5. Data are based on intake performance.**

**Openings that require multiple louver panels in both width and height will require internal structural supports.**

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**Example:**  
Given: 15000 CFM design flow

**Step #1:**  
min. free area = \( \frac{\text{Design CFM}}{\text{Max. Recommended Velocity}} \)  
\( = \frac{15000}{1025} = 14.6 \text{ sq ft} \)

**Step #2:** From the free area table above the approximate louver size is 48" x 48" = (14.16 sq ft)