EXTRUDED ALUMINUM, 5” DEEP, FIXED SIGHT PROOF DRAINABLE TYPE BLADE

MODEL LE-52
STANDARD SPECIFICATIONS

FRAME: 5” DEEP CHANNEL, .081” THICK 6063-T5 EXTRUDED ALUMINUM ALLOY.

BLADES: .081” THICK 6063-T5 EXTRUDED ALUMINUM ALLOY.

FINISH: SEE ABOVE

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.

* PANELS OVER 72” WIDE WILL BE 6-1/2” DEEP DUE TO A VERTICAL INTERIOR BLADE SUPPORT ANGLE.

AWV certifies that the model LE-52 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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LE-52 STATIONARY LOUVER
Water Penetration: 0.01 oz (3.0 g) at 1098 fpm (5.58 m/s) recommended free area velocity
Pressure Drop: 0.33 in wg (8.18 Pa.) at 1098 fpm (5.58 m/s) and 9355 scfm (4.42 scm/s)
Free Area: 8.52 sq ft (0.792 sq m) = 53.3% 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

1. **Step #1:**
   
   \[
   \text{min. free area} = \frac{\text{Design CFM}}{\text{Max. Recommended Velocity}}
   \]

   \[
   = \frac{15000}{1098} = 13.66 \text{ sq ft}
   \]

### 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.

**Water Penetration and Pressure Drop Ratings:**

- **Water Penetration ratings:**
  - 0.01 oz/sqft at 1098 fpm (5.58 m/s)
  - Above 1250 fpm free area, water penetration are 1098 fpm at standard air - .075 lbs per cu ft.
  - Water penetration is based on mill finish, 48" x 48".
  - Both maximum recommended free area velocity and beginning of free area velocity are 1098 fpm at standard air - .075 lbs per cu ft.

- **Pressure Drop ratings:**
  - 0.33 in wg (8.18 Pa) at 1098 fpm (5.58 m/s) recommended free area velocity.
  - Pressure drop is based on maximum of 1250 fpm free area velocity.

**Note:**

Structural supports are not supplied as a standard and mounting accessories are not supplied as a standard.

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**LE-52**

Below is an explanation of how to use the AMCA Performance data for the recommended free area velocity of 1098 fpm (5.58 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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