EXTRUDED ALUMINUM, 6" DEEP, FIXED DRAINABLE TYPE BLADE

MODEL LE-33
STANDARD SPECIFICATIONS

FRAME: 6" 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) AND "B" (HEIGHT) ARE OPENING SIZES. LOUVERS ARE MADE 1/2" Undersize.

* PANELS OVER 48" WIDE WILL BE 7-1/2" DEEP DUE TO A VERTICAL INTERIOR BLADE SUPPORT ANGLE.

A = WIDTH
B = HEIGHT

SECTION VIEW

EXTENDED SILL
OPTIONAL

1/2"

MULLION

1 1/2"

FLANGED FRAME
OPTIONAL
(JAMB SHOWN)

ARCHITECTURAL VERTICAL

AMERICAN WARMING & VENTILATING
certifies that the model LE-33 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.

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

LE-33 STATIONARY LOUVER

DRN. BY: JVC  DWG. NO.:
DATE: 5/17/10  REV.

LE-33
Water Penetration: 0.01 oz (3.0 g) at 1033 fpm (5.25 m/s) recommended free area velocity
Pressure Drop: 0.19 in wg (47.3 Pa.) at 1033 fpm (5.25 m/s) and 8264 scfm (3.90 scm/s)
Free Area: 8 sq ft (0.743 sq m) = 50% for 48" x 48" (1.22m x 1.22m) test size

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

<table>
<thead>
<tr>
<th>WIDTH</th>
<th>mm</th>
<th>in.</th>
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<tr>
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<tr>
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<td>96</td>
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</table>

**WATER PENETRATION**

![AMCA Certified Ratings](image)

American Warmimg & Ventilating certifies that the model LE-33 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 apply to air performance and water penetration ratings.

**LE-33**

Below is an explanation of how to use the AMCA Performance data for the recommended free area velocity of 1033 fpm (5.25 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.

Example:

Given: 15000 CFM design flow

**Step #1:**

\[
\text{min. free area} = \frac{\text{Design CFM}}{\text{Max. Recommended Velocity}} = \frac{15000}{1033} = 14.52 \text{ sq ft}
\]

**Step #2:** From the free area table above the approximate louver size is 84" x 48" (14.09 sq ft)