EXTRUDED ALUMINUM, 1–1/2” DEEP, FIXED J/K TYPE BLADE

MODEL A150
STANDARD SPECIFICATION

FRAME: 1–1/2” DEEP CHANNEL, .063 THICK 6063–T5 ALUMINUM ALLOY

BLADES: .063” THICK 6063–T5 ALUMINUM ALLOY.

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

FINISH: MILL.

MAX. PANEL SIZE: 96” x 96”

MIN. PANEL SIZE: 12” x 12”

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

* PANELS OVER 36” WIDE WILL BE 3” DEEP DUE TO A VERTICAL INTERIOR BLADE SUPPORT ANGLE.

A = WIDTH
B = HEIGHT

SECTION VIEW

EXTENDED SILL
OPTIONAL

ARCHITECTURAL
OPTIONAL

STANDARD HORIZONTAL
MULLION

WINDOW GLAZING FRAME
OPTIONAL

FLANGED FRAME
OPTIONAL
(JAMB SHOWN)

abi air balance
A MESTEK COMPANY
7435 INDUSTRIAL RO. FLORENCE, KY
Phone (419) 865–5000 Fax (419) 865–1375

A150 STATIONARY LOUVER

DRAWN BY: AMD

DATE: 12–01–02

Dwg. No.: A150

REV.
Water Penetration: 0.01 oz (3.0 g) at 519 fpm (2.64 m/s) recommended free area velocity
Pressure Drop: 0.049 in wg (12.1 Pa.) at 519 fpm (2.64 m/s) and 3913 scfm (1.85 scm/s)
Free Area: 7.54 sq ft (0.7 sq m) = 47.1% for 48" x 48" (1.22m x 1.22m) test size

### Intake Pressure Drop

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<th>in.</th>
<th>12</th>
<th>24</th>
<th>36</th>
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### Free Area in Square Feet (sq meters)

#### Water Penetration

Both maximum recommended free area velocity and beginning of water penetration are 519 fpm at standard air - .075 lbs per cu ft.

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

ABI certifies that the model A150 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 and water penetration ratings. A150

Below is an explanation of how to use the AMCA Performance data for the recommended free area velocity of 519 fpm (2.64 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: 4500 CFM design flow

**Step #1:**

\[
\text{min. free area} = \frac{\text{Design CFM}}{\text{Max. Recommended Velocity}}
\]

\[
= \frac{4500}{519} = 8.67 \text{ sq ft}
\]

**Step #2:** From the free area table above the approximate louver size is 60" x 48" = (9.17 sq ft)