EXTRUDED ALUMINUM, 6" DEEP, FIXED DRAINABLE TYPE BLADE

MODEL IL-34
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

ARCHITECTURAL VERTICAL MULLION OPTIONAL

FLANGED FRAME
OPTIONAL
(JAMB SHOWN)

STANDARD HORIZONTAL MULLION

STANDARD VERTICAL MULLION

L&D certifies that the model IL-34 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.

IL-34 STATIONARY LOUVER

LOUVERS & DAMPERS
A MESTEK COMPANY

7435 INDUSTRIAL ROAD
FLORENCE, KY
Phone (859) 647-2299
Fax (859) 647-7810

DRN. BY
ESS
DWC. NO.
REV.

DATE
01-06-01

IL-34
Water Penetration: .01 oz. (3.0 g.) at 1212 fpm (6.15 m/s) recommended free area velocity
Pressure Drop: .24 in. wg. (59.5 Pa.) at 1212 fpm (6.15 m/s) and 9344 SCFM (4.41 scm/s)
Free Area: .71 sq.ft. (0.716 sq. m.) = 48.1% for 48" x 48" (1.22 m x 1.22 m) test size

### PRESSURE DROP

#### VELOCITY THROUGH FREE AREA FPM (meters/sec.)

Standard air - .075 lbs. per cu. ft.
Ratings do not include the effect of a bird screen

#### LOUVERS & DAMPERS

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#### IL-34

Below is an explanation of how to use the AMCA Performance data for the recommended free area velocity of 1212 fpm (6.15 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.

### FREE AREA IN SQUARE FEET (sq. meters)

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### WATER PENETRATION

#### VELOCITY THROUGH FREE AREA FPM (meters/sec.)

Both maximum recommended free area velocity and beginning of water penetration are 1212 fpm at standard air - .075 lbs. per cu. ft. The above water penetration data is based on mill finish, 48" x 48" test size per AMCA Standard 511.

Openings that require multiple louver panels in both width and height will require internal structural supports. It is recommended that large openings be divided with structural members so that the louvers will span either width or height with a single panel. Unusually high wind loading may require structural supports on non-multiple wide and multiple high assemblies. Structural supports and mounting accessories are not supplied as a standard.

**Example:**

Given 15,000 CFM design flow

**Step #1:**

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

\[
= \frac{15,000}{1212} = 12.37 \text{ sq. ft.}
\]

**Step #2:** From the free area table above the approximate louver size is 36" x 36" = (12.37 sq. ft.)