**EXTRUDED ALUMINUM, 1-1/2" DEEP, FIXED J/K TYPE BLADE**

**MODEL TE-15**

**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.

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**SECTION VIEW**

**EXTENDED SILL**

**ARCHITECTURAL**

**OPTIONAL**

**STANDARD HORIZONTAL MULLION**

**FLANGED FRAME**

**OPTIONAL**

(JAMB SHOWN)

**STANDARD VERTICAL MULLION**

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L&D certifies that the model TE-15 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.

**LOUVERS & DAMPERS**

A MESTEK COMPANY

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

TE-15 STATIONARY LOUVER

ORN. BY  ESS  DWG. NO.  REV.

DATE 12-01-02  TE-15
Water Penetration: .01 oz. (3.0 g.) at 519 fpm (2.63 m/s) recommended free area velocity
Pressure Drop: .048 in. wg. (12.1 Pa) at 519 fpm (2.63 m/s) and 3685 SCFM (1.74 scm/s)
Free Area: 7.54 sq.ft. (0.70 sq. m.) = 47% 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

AMCA CERTIFIED RATINGS

Below is an explanation of how to use the AMCA performance data for the recommended free area velocity of 519 fpm (2.63 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)

<table>
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<tr>
<th>WIDTH</th>
<th>12</th>
<th>24</th>
<th>36</th>
<th>48</th>
<th>60</th>
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<tr>
<td></td>
<td>mm</td>
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<tr>
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### WATER PENETRATION

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

Both maximum recommended free area velocity and begining of water penetration are 519 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. Usually 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: 4,500 CFM design flow

**Step #1:**

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

\[ = \frac{4,500}{519} = 8.67 \text{ sq. ft.} \]

**Step #2:**

From the free area table above the approximate louver size is 48" x 60" = (8.97 sq. ft.)