GALVANIZED STEEL, 4” DEEP, HEAVY GAUGE, J FIXED TYPE BLADE

MODEL FL-47
STANDARD SPECIFICATIONS

FRAME: 4” DEEP CHANNEL, 16 GAUGE GALVANIZED STEEL.

BLADES: 16 GAUGE GALVANIZED STEEL.

FINISH: MILL WITH TOUCH UP ON WELDS.

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.

SECTION VIEW

EXTENDED SILL
OPTIONAL

ARCHITECTURAL VERTICAL
MULLION OPTIONAL

STANDARD HORIZONTAL

FLANGED FRAME
OPTIONAL
(JAMB SHOWN)

STANDARD VERTICAL
MULLION

L&O certifies that the model FL-47 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
FL-47 STATIONARY LOUVER

DRN. BY ESS DWG. NO. REV.
DATE 12-01-02 FL-47
Water Penetration: 0.01 oz (3.0 g) at 566 fpm (2.87 m/s) recommended free area velocity
Pressure Drop: 0.065 in wg (16.1 Pa.) at 566 fpm (2.87 m/s) and 4109 scfm (1.54 scm/s)
Free Area: 7.26 sq ft (0.674 sq m) = 45.4% 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>IN.</th>
<th>mm</th>
<th>12</th>
<th>24</th>
<th>36</th>
<th>48</th>
<th>60</th>
<th>72</th>
<th>84</th>
<th>96</th>
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<tbody>
<tr>
<td>HEIGHT</td>
<td>1.5</td>
<td>38.1</td>
<td>3.81</td>
<td>5.19</td>
<td>6.56</td>
<td>1.7</td>
<td>9.14</td>
<td>10.52</td>
<td>12.79</td>
<td>14.71</td>
</tr>
<tr>
<td>10</td>
<td>2.5</td>
<td>63.5</td>
<td>4.24</td>
<td>3.81</td>
<td>1.46</td>
<td>0.61</td>
<td>0.95</td>
<td>1.75</td>
<td>2.56</td>
<td>3.47</td>
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<tr>
<td>2.4</td>
<td>63.5</td>
<td>4.24</td>
<td>1.66</td>
<td>1.46</td>
<td>0.61</td>
<td>0.95</td>
<td>1.75</td>
<td>2.56</td>
<td>3.47</td>
<td>4.38</td>
</tr>
<tr>
<td>1.0</td>
<td>25.4</td>
<td>3.81</td>
<td>5.19</td>
<td>6.56</td>
<td>1.7</td>
<td>9.14</td>
<td>10.52</td>
<td>12.79</td>
<td>14.71</td>
<td>16.86</td>
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<tr>
<td>0.75</td>
<td>20.3</td>
<td>3.21</td>
<td>4.57</td>
<td>6.01</td>
<td>1.44</td>
<td>8.01</td>
<td>9.44</td>
<td>11.68</td>
<td>13.91</td>
<td>16.04</td>
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<td>3.81</td>
<td>1.46</td>
<td>0.61</td>
<td>0.95</td>
<td>1.75</td>
<td>2.56</td>
<td>3.47</td>
<td>4.38</td>
</tr>
<tr>
<td>0.25</td>
<td>3.2</td>
<td>0.91</td>
<td>1.22</td>
<td>0.48</td>
<td>0.19</td>
<td>0.29</td>
<td>0.56</td>
<td>0.84</td>
<td>1.12</td>
<td>1.40</td>
</tr>
</tbody>
</table>

**WATER PENETRATION**

<table>
<thead>
<tr>
<th>VELOCITY THROUGH FREE AREA fpm (m/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>standard air - .075 lbs per cu ft</td>
</tr>
<tr>
<td>Ratings do not include the effect of a wire bird screen</td>
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</tbody>
</table>

Below is an explanation of how to use the AMCA Performance data for the recommended free area velocity of 566 fpm (2.87 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.

L&O certifies that the model FL-47 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 51 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance and water penetration ratings.

FL-47

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 supports 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: 15000 CFM design flow

**Step #1:**

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

\[
= \frac{566}{15000} = 3.8 \text{ sq ft}
\]

Step #2: From the free area table above the approximate louver size is 48" x 48" = (24.5 sq ft)