**EXTRUDED ALUMINUM, 6” DEEP, FIXED DUAL DRAINABLE TYPE BLADE**

**MODEL LE-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.

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**SECTION VIEW**

**EXTENDED SILL**

**ARCHITECTURAL VERTICAL**

**MULLION OPTIONAL**

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American Warming and Ventilating certifies that the model LE-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.

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**AMERICAN WARMING AND VENTILATING**

**A MESTEK COMPANY**

7301 INTERNATIONAL DRIVE, HOLLAND, OHIO

Phone (419) 865-5000, Fax (419) 865-1375

**LE-34 STATIONARY LOUVER**

**DRN. BY:** JMC  **DWG. NO.:** LE-34  **REV.:**

**DATE:** 8/13/18
Water Penetration: 0.01 oz (3.0 g) at 955 fpm (4.78 m/s) recommended free area velocity  
Pressure Drop: 0.15 in wg (37 Pa.) at 955 fpm (4.78 m/s) and 7361 scfm (3.47 scm/s)  
Free Area: 7.71 sq ft (0.716 sq m) = 48.2% for 48” x 48” (1.22m x 1.22m) test size  

**INTAKE PRESSURE DROP**

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

<table>
<thead>
<tr>
<th>WIDTH</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>mm</td>
<td>305</td>
<td>610</td>
<td>914</td>
<td>1219</td>
<td>1524</td>
<td>1829</td>
<td>2134</td>
<td>2438</td>
</tr>
<tr>
<td>in.</td>
<td>12</td>
<td>24</td>
<td>36</td>
<td>48</td>
<td>60</td>
<td>72</td>
<td>84</td>
<td>96</td>
</tr>
<tr>
<td>in. wg. (Pa)</td>
<td>0.18</td>
<td>0.41</td>
<td>0.63</td>
<td>0.86</td>
<td>1.06</td>
<td>1.29</td>
<td>1.52</td>
<td>1.75</td>
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<tr>
<td>200</td>
<td>0.17</td>
<td>0.34</td>
<td>0.51</td>
<td>0.68</td>
<td>0.85</td>
<td>1.02</td>
<td>1.19</td>
<td>1.36</td>
</tr>
<tr>
<td>400</td>
<td>0.16</td>
<td>0.32</td>
<td>0.49</td>
<td>0.66</td>
<td>0.83</td>
<td>1.00</td>
<td>1.17</td>
<td>1.34</td>
</tr>
<tr>
<td>600</td>
<td>0.15</td>
<td>0.30</td>
<td>0.47</td>
<td>0.64</td>
<td>0.81</td>
<td>0.98</td>
<td>1.15</td>
<td>1.32</td>
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<tr>
<td>800</td>
<td>0.14</td>
<td>0.29</td>
<td>0.45</td>
<td>0.62</td>
<td>0.79</td>
<td>0.96</td>
<td>1.13</td>
<td>1.30</td>
</tr>
<tr>
<td>1000</td>
<td>0.13</td>
<td>0.28</td>
<td>0.44</td>
<td>0.61</td>
<td>0.78</td>
<td>0.95</td>
<td>1.12</td>
<td>1.29</td>
</tr>
</tbody>
</table>

**VELOCITY THROUGH FREE AREA fpm (m/s)**

- Airflow at standard air density - .075 lbs per cu ft
- Ratings do not include the effect of a wire bird screen
- Test based on a 48” x 48” test size per AMCA Standard 511
- AMCA Figure 5.5 Test Setup

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**LE-34**

Below is an explanation of how to use the AMCA Performance data for the recommended free area velocity of 955 fpm (4.78 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:**

\[
\text{min. free area} = \frac{\text{Design CFM}}{\text{Max. Recommended Velocity}} = \frac{15000}{955} = 15.71 \text{ sq ft}
\]

**Step #2:** From the free area table above the approximate louver size is 84” x 60” = (17.61 sq ft)

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