HURRICANE LOUVER: ALUMINUM 5" DEEP, FIXED DRAINABLE SIGHTPROOF TYPE BLADE, WITHSTANDS DESIGN PRESSURE UP TO +/- 120 PSF

MODEL LE-54 STANDARD SPECIFICATIONS

FRAME: 5" DEEP CHANNEL, 0.078" THICK 6063-T6 EXTRUDED ALUMINUM ALLOY.

BLADES: 0.060" THICK 6063-T6 EXTRUDED ALUMINUM ALLOY. 0.080" OPTIONAL.

FINISH: MILL.

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

MAXIMUM PANEL SIZE: 60" x 96".
WINDLOAD REQUIREMENTS MAY LIMIT PANEL SIZES.

MINIMUM PANEL SIZE: 12" x 12".

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

DESIGN DATA: PASSED MIAMI-DADE COUNTY FLORIDA TEST PROTOCOLS TAS (PA) 201, TAS (PA) 202, AND TAS (PA) 203.

NOA NO.: 09-1015.10
FBC NO.: PENDING

American Warming and Ventilating LE-54 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, water penetration ratings, and wind driven rain ratings.

7301 INTERNATIONAL DRIVE HOLLAND, OHIO
Phone (419) 865-5000 Fax (419) 865-1375

LE-54 STATIONARY LOUVER

DRN. BY DWW DWG. NO. REV.
DATE 12/28/09 LE-54
**Water Penetration:** 0.01 oz (3.0 g) at 1250 fpm (6.35 m/s) recommended free area velocity

**Pressure Drop:** 0.31 in wg (76.8 Pa.) at 1250 fpm (6.35 m/s) and 8850 scfm (4.18 scm/s)

**Free Area:** 7.08 sq ft (0.658 sq m) = 44.3% for 48” x 48” (1.22m x 1.22m) test size

### Wind Driven Rain Performance 29 mph (46.7 kph) with 3 in/h (76 mm/h)

<table>
<thead>
<tr>
<th>Water Penetration</th>
<th>Effectiveness Ratio</th>
<th>Coefficient of Discharge</th>
<th>Core Ventilation</th>
<th>Free Area Airflow</th>
<th>Velocity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class A</td>
<td>99.0%</td>
<td></td>
<td>583 fpm (3 m/s)</td>
<td>6276 cfm (3 cm/s)</td>
<td>1333 fpm</td>
</tr>
</tbody>
</table>

### Wind Driven Rain Performance 50 mph (80.5 kph) with 8 in/h (203 mm/h)

<table>
<thead>
<tr>
<th>Water Penetration</th>
<th>Effectiveness Ratio</th>
<th>Coefficient of Discharge</th>
<th>Core Ventilation</th>
<th>Free Area Airflow</th>
<th>Velocity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class B</td>
<td>95.7%</td>
<td></td>
<td>673 fpm (3.5 m/s)</td>
<td>7243 cfm (3 cm/s)</td>
<td>1307 fpm</td>
</tr>
</tbody>
</table>

**Note:**

- Water Penetration is calculated at 1250 fpm (6.35 m/s) recommended free area velocity and a minimum of 0.01 oz/sq ft.
- The AMCA test was unable to determine the beginning water penetration due to the fact that is lies above 1250 fpm through free area.

**WATER PENETRATION**

- Less than 0.1 oz/sq ft AMCA Standards
  - Based on maximum of 1250 fpm free area velocity and a min of 0.01 oz/sq ft free area of water penetration.
  - The AMCA test was unable to determine the beginning water penetration due to the fact that lies above 1250 fpm through free area.

**WIND PENETRATION**

- Free area velocity and beginning of water penetration are 1250 fpm at standard air - 0.75 lbs per cu ft.
- The above water penetration data is based on mill finish, 48” x 48” test size per AMCA Standard 511.

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**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>
</tr>
</thead>
<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. w.g.</td>
<td>1</td>
<td>0.7</td>
<td>0.5</td>
<td>0.3</td>
<td>0.2</td>
<td>0.1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**FREE AREA THROUGH FREE AREA in (m) standard air - .075 lbs per cu ft**

- Ratings do not include the effect of a wire birdscreen
- Test based on a 48” x 48” test size per AMCA Standard 511
STANDARD BOXED FRAME LE–54
INSTALLATION INSTRUCTIONS

NOTES:
1) MOUNTING CLIP ANGLES AND MULLION SUPPORT ANGLES CAN BE INSTALLED WITH "LEGS IN" OR "LEGS OUT" FOR ANY APPROVED SUBSTRATE.

2) "LEGS OUT" IS THE STANDARD CONSTRUCTION, "LEGS IN" IS OPTIONAL.

3) USE SHIMS TO OBTAIN UNIFORM CLEARANCE BETWEEN THE LOUVER AND THE LOUVER OPENING ON ALL SIDES, SHIMS ARE BY OTHERS.

4) SHIMS UNDER SILL PANS MUST ALLOW ENOUGH SPACE TO INSERT "LEG IN" OPTION INTO THE OPENING.

5) SEE DADE COUNTY NOA 09–1015.10 FOR INSTALLATION DETAILS.
FLANGED SLEEVE LE-54
INSTALLATION INSTRUCTIONS

NOTES:
1) MOUNTING CLIP ANGLES AND MULLION SUPPORT ANGLES CAN BE INSTALLED WITH "LEGS IN" OR "LEGS OUT" FOR ANY APPROVED SUBSTRATE.

2) "LEGS OUT" IS THE STANDARD CONSTRUCTION, "LEGS IN" IS OPTIONAL.

3) THE FLANGED SLEEVE OPTION CAN BE USED WITH ANY APPROVED SUBSTRATE.

4) USE SHIMS TO OBTAIN UNIFORM CLEARANCE BETWEEN THE LOUVER AND THE LOUVER OPENING ON ALL SIDES, SHIMS ARE BY OTHERS.

5) SEALANT/CAULK BETWEEN FLANGED ANGLE SLEEVE AND SUBSTRATE (TYP. 4 SIDES) BY INSTALLER.

6) TWO MOUNTING ANGLES RUN THE FULL HEIGHT AND LENGTH OF LOUVER.

7) SEE DADE COUNTY NOA 09-1015.10 FOR INSTALLATION DETAILS.