MODEL EAV-66
Miami-Dade HVHZ Louver • 6” Deep • Chevron Blades • Stationary • Vertical • Extruded Aluminum

Standard Materials and Construction
FRAME: Head and Sill: .125” thick (nominal) extruded aluminum alloy 6063-T52/T6.
Jambs: .080” thick (nominal) extruded aluminum alloy 6063-T52/T6.
BLADE: .081” thick (nominal) extruded aluminum, 6063-T52/T6 alloy.
SILL PAN: .060” thick (nominal) formed aluminum.
SCREEN: (Located on interior.)
½” removable expanded aluminum bird screen.
FINISH: Mill

Test Methods
Miami-Dade County Florida Test Protocols:
• TAS-100(A)-95
• TAS (PA) 201
• TAS (PA) 202
• TAS (PA) 203

Options
Finish - Baked Enamel, Kynar, Anodize
Concealed Mullion

Notes
1. Nominal deductions will be made to the opening size given.
2. Panel width not to exceed 96”. Panel height not to exceed 96”. Panel square footage not to exceed 32 sq. ft.
3. Unlimited assembly width utilizing standard mullions or optional concealed mullions. Assembly height limited to a single panel. Consult factory for openings greater than 96” high.
4. Approximate shipping weight is 7.0 lbs./sq.ft.

Louver Sizes:

<table>
<thead>
<tr>
<th>Min Panel</th>
<th>Max Single Panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>18”W x 18”H</td>
<td>See Note 2</td>
</tr>
</tbody>
</table>

Windload requirements may limit panel sizes.

Substrates
Qualified substrates are steel, 3000-PSI concrete, or southern pine.

This louver has been tested to AMCA Standard 540 for Wind Borne Debris Impact Resistance and AMCA Standard 550 for High Velocity Wind Driven Rain.

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https://goo.gl/DJ5UtM
## Performance Data

### Pressure Drop
- Free Area: 7.85 sq.ft. (0.729 m²) = 49.1% for 48"W x 48"H (1.22m x 1.22m) sample tested in accordance with AMCA Standard 500-L.

### Missile Impact
- "Enhanced Protection" Rated at 55 mph (80 m/s) per ASTM 1886/1996.

### Free Area sq. ft. (sq. meters)

<table>
<thead>
<tr>
<th>Width in. (mm)</th>
<th>18&quot; (457)</th>
<th>24&quot; (610)</th>
<th>36&quot; (914)</th>
<th>48&quot; (1219)</th>
<th>60&quot; (1524)</th>
<th>72&quot; (1829)</th>
<th>84&quot; (2134)</th>
<th>96&quot; (2438)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Drop in. w.g. (PA)</td>
<td>(0.086)</td>
<td>(0.113)</td>
<td>(0.181)</td>
<td>(0.245)</td>
<td>(0.314)</td>
<td>(0.381)</td>
<td>(0.446)</td>
<td>(0.516)</td>
</tr>
<tr>
<td>Pressure Drop in. w.g. (PA)</td>
<td>(0.114)</td>
<td>(0.148)</td>
<td>(0.242)</td>
<td>(0.337)</td>
<td>(0.423)</td>
<td>(0.516)</td>
<td>(0.602)</td>
<td>(0.697)</td>
</tr>
<tr>
<td>Pressure Drop in. w.g. (PA)</td>
<td>(0.179)</td>
<td>(0.234)</td>
<td>(0.364)</td>
<td>(0.533)</td>
<td>(0.668)</td>
<td>(0.817)</td>
<td>(0.952)</td>
<td>(1.102)</td>
</tr>
<tr>
<td>Pressure Drop in. w.g. (PA)</td>
<td>(0.244)</td>
<td>(0.320)</td>
<td>(0.525)</td>
<td>(0.729)</td>
<td>(0.913)</td>
<td>(1.116)</td>
<td>(1.302)</td>
<td>(1.507)</td>
</tr>
</tbody>
</table>

### Wind-Driven Rain Penetration Classes

<table>
<thead>
<tr>
<th>Water Penetration Class</th>
<th>Effectiveness Ratio Percentage</th>
<th>Coefficient of Discharge Class</th>
<th>Core Velocity FPM (m/s)</th>
<th>Ventilation Airflow CFM (cm/min)</th>
<th>Free Area Velocity FPM (m/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class A</td>
<td>100%</td>
<td>Class I</td>
<td>980 (5)</td>
<td>10,546 (299)</td>
<td>2,170 (11)</td>
</tr>
</tbody>
</table>

### Discharge Loss Coefficient Classes

<table>
<thead>
<tr>
<th>Water Penetration Class</th>
<th>Effectiveness Ratio Percentage</th>
<th>Coefficient of Discharge Class</th>
<th>Core Velocity FPM (m/s)</th>
<th>Ventilation Airflow CFM (cm/min)</th>
<th>Free Area Velocity FPM (m/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class A</td>
<td>99.2%</td>
<td>Class I</td>
<td>784 (4)</td>
<td>8,440 (239)</td>
<td>1,736 (8.8)</td>
</tr>
<tr>
<td>Class A</td>
<td>99.1%</td>
<td>Class I</td>
<td>877 (4.5)</td>
<td>9,445 (267)</td>
<td>1,943 (9.9)</td>
</tr>
<tr>
<td>Class A</td>
<td>99.1%</td>
<td>Class I</td>
<td>982 (5)</td>
<td>10,578 (300)</td>
<td>2,176 (11)</td>
</tr>
</tbody>
</table>

### AMCA Certified Ratings

- **High Velocity Rain Resistant with Blades**
- **Fully Open and Impact Resistant Louver**
- **Basic Protection Level D**
- **High Velocity Rain Penetration Classes**
- **Discharge Loss Coefficient Classes**
- **Core Velocity FPM (m/s)**
- **Ventilation Airflow CFM (cm/min)**
- **Free Area Velocity FPM (m/s)**

Arrow United Industries certifies that the Model EAV-66 shown herein is approved 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 and Wind Driven Rain Ratings only.

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High Velocity Rain Resistant with Blades

Fully Open and Impact Resistant Louver

Basic Protection Level D

**High Velocity Rain Penetration Classes**

**Discharge Loss Coefficient Classes**

**Core Velocity FPM (m/s)**

**Ventilation Airflow CFM (cm/min)**

**Free Area Velocity FPM (m/s)**

Wind driven rain performance tests based on 1 m x 1 m (39.37” x 39.37”) Louver with 7.85 sq.ft. (0.729 m²) free area.
Standard Boxed Frame Louver Model EAV-66

Installation Instructions

Notes
1. Mounting 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 provided by others.

5. Sealant between flanged angle sleeve and the substrate provided by installer.

6. Two mounting angles run the full width of the louver.

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https://goo.gl/DJ5UtM
Flanged Frame Louver Model EAV-66

Installation Instructions

Notes
1. Mounting clip 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 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 provided by others.

5. Sealant between flanged angle sleeve and the substrate provided by installer.

6. Two mounting angles run the full height and length of louver.

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https://goo.gl/DJ5U7M

450 Riverside Dr • Wyalusing PA, 18853 • Phone 570-746-1888 • Fax 570-746-9286
AUI-09-01-06
Flanged Frame Louver Model EAV-66

Installation Instructions

For TAS-100 Approved Model EAV-66 Louver/Damper

Notes
1. The Flanged Sleeve option can be used with any approved substrate.
2. Use shims to obtain uniform clearance between the louver and the louver opening on all sides. Shims are provided by others.
3. Sealant between flanged angle sleeve and the substrate provided by installer.
4. Two mounting angles run the full width of the louver.