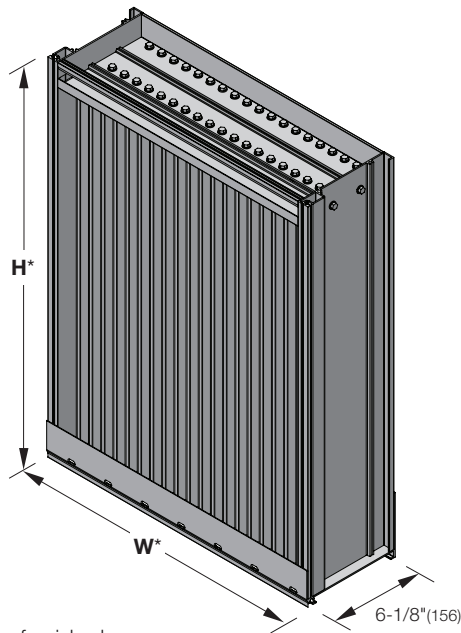


# ALL-LITE

## ECV-645

Extruded Aluminum Louver  
6" deep • Vertical Blade



### ECV-645

(standard)

\*Louver dimensions furnished approximately 1/2" (13) undersize.

## Ratings

**Free Area:** [48" x 48" (1219 x 1219) unit]: 8.4 ft<sup>2</sup> (0.78m<sup>2</sup>)  
52.6%

### Performance @ Beginning Point of Water Penetration

**Free Area Velocity:** 1,250 fpm (6.35 m/s)

**Air Volume Delivered:** 10,525 cfm (4.97 m<sup>3</sup>/s)

**Pressure Loss:** 0.47 in.wg. (116 Pa)

**Velocity @ 0.15 in.wg. Pressure Loss:** 698 fpm (3.54 m/s)

**AMCA 540 (impact resistant, Enhanced protection) listed**  
**AMCA 550 (high velocity rain resistant) listed**

**Std. Design Load:** 150 psf

*The ECV-645 is engineered and tested to withstand extreme loads, debris impact, and cyclic fatigue associated with the severe weather effects of hurricanes while maintaining maximum water infiltration resistance. For installation, the ECV-645 offers a continuous angle option. The ECV-645 is AMCA 540 and 550 listed, making it ideally suited for use in hurricane-prone and wind-borne debris regions as per the International Building Code*

## Standard Construction

**Material:** Mill finish 6063-T6 extruded aluminum

**Frame:** 6" deep x 0.081" thick (152 x 2) channel

**Blades:** 0.050" (1) thick vertical chevron style

**Screen:** 5/8" x 0.050" (15.9 x 1.3) expanded and flattened aluminum

**Mullion:** Visible

**Minimum Size:** 12" x 12" (305 x 305)

**Maximum Size:**

Single section: 60" x 120" (1524 x 3048)

120" x 60" (3048 x 1524)

Multiple section: Unlimited

**Shipping Weight (approximate):** 12 lbs/ft<sup>2</sup> (59 kg/m<sup>2</sup>)

## Options

### ■ Factory finish:

- High Performance Fluoropolymer ■ Prime Coat
- Baked Enamel ■ Clear Anodize ■ Integral Color Anodize

### ■ Frame Options:

- 1-1/2" (38) flange frame

### ■ Installation Hardware

- Continuous angles

### ■ Alternate bird or insect screens

### ■ Insulated or non-insulated blank-off panels

### ■ Filter racks

### ■ Head and/or sill flashing

### ■ Frame closure

### ■ Burglar bars

### ■ Net OD (actual size)

5 year  
warranty



### Certified Ratings:

All-Lite certifies that the model ECV-645 shown herein is licensed to bear the AMCA seal. The ratings shown are based on test 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, water penetration and wind-driven rain ratings.



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**NOTE:** Dimensions in parentheses ( ) are millimeters.  
Information is subject to change without notice or obligation.



# PERFORMANCE

**ECV-645**

Extruded Aluminum Louver  
6" deep • Vertical Blade

## Wind Driven Rain Performance - AMCA 500L Wind-Driven Rain Test

| Wind Velocity | Rainfall | Airflow<br>cfm (m³/s) | Core Velocity¹<br>fpm (m/s) | Free Area Velocity²<br>fpm (m/s) | Effectiveness<br>Ratio | Wind-Driven Rain<br>Penetration Class |
|---------------|----------|-----------------------|-----------------------------|----------------------------------|------------------------|---------------------------------------|
| 50 mph        | 8 in/hr  | 10,154 (4.8)          | 943 (4.8)                   | 1,638 (8.3)                      | 100.0%                 | A                                     |

**NOTE:**

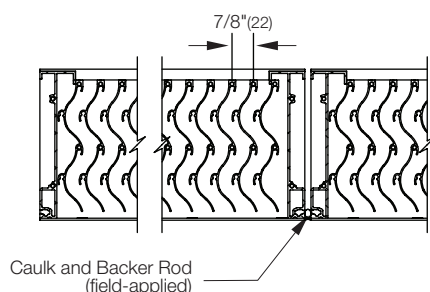
1. Core area is the open area of the louver face (face area less louver frame). Core velocity is the airflow divided by core area. Test louver core area is 10.77 ft² (1 m²).

2. Free area velocity is the airflow divided by free area. Test louver free area is 6.2 ft² (0.58 m²).

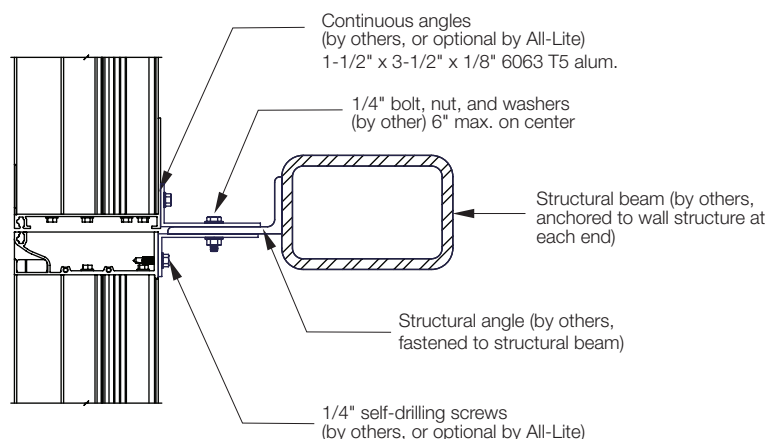
**Wind Driven Rain**

| Class | Effectiveness |
|-------|---------------|
| A     | 99% and above |
| B     | 95% to 98.9%  |
| C     | 80% to 94.9%  |
| D     | below 80%     |

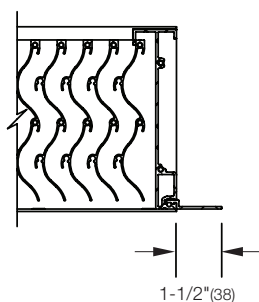
## Attributes



**Visible Vertical Mullion**  
(standard)



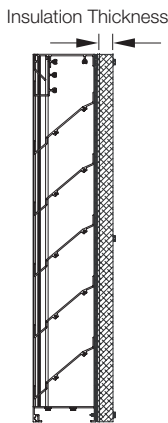
**Horizontal Mullion**  
(standard)



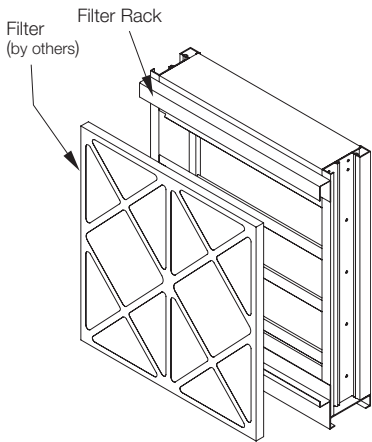
**Flange Frame**  
(optional)

# Supplemental Options

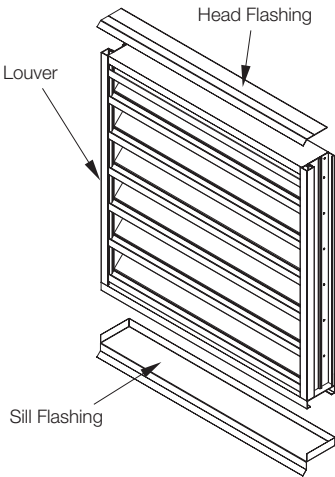
**ECV-645**  
Extruded Aluminum Louver  
6" deep • Vertical Blade



**Blank-Off Options**  
Non-Insulated and Gasketed  
1" Insulated (4.25 R-value)  
2" Insulated (8.75 R-value)



**Filter Rack**



**Flashing Options**  
Head and Sill Available