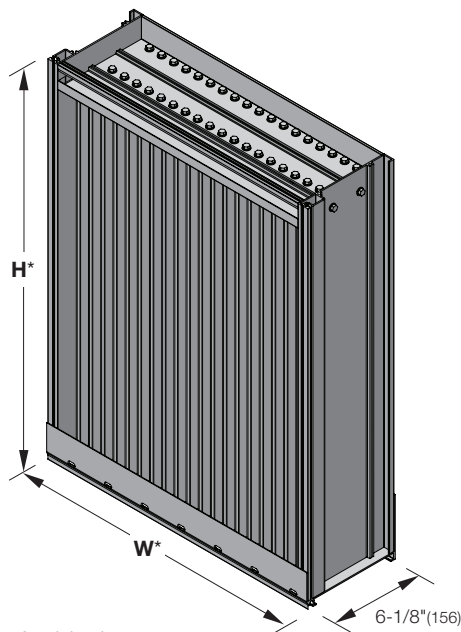




ECV-645

(standard)

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

Ratings

Free Area: [48" × 48" (1219 × 1219) unit]: 8.4 ft² (0.78m²)
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 m³/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" × 0.050" (15.9 × 1.3) expanded and flattened aluminum

Mullion: Visible

Minimum Size: 12" × 12" (305 × 305)

Maximum Size:

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

120" × 60" (3048 × 1524)

Multiple section: Unlimited

Shipping Weight (approximate): 12 lbs/ft² (59 kg/m²)

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)



Certified Ratings:

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

NOTE:

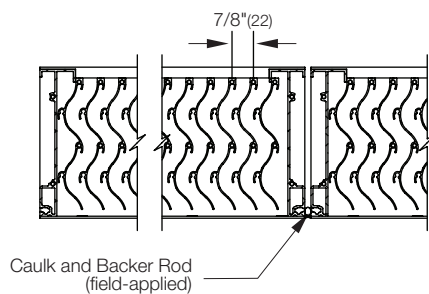
1. Core area is the open area of the louver face (face area less louver frame). Core velocity is the airflow divided by core area. Test louver core area is 10.77 ft² (1 m²).

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

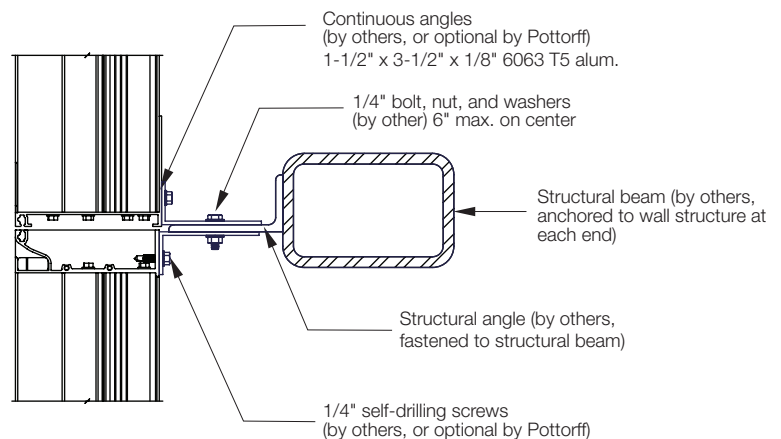
Wind Driven Rain

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

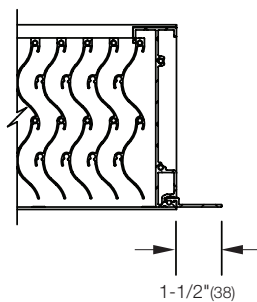
Attributes



Visible Vertical Mullion
(standard)



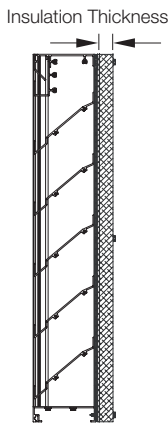
Horizontal Mullion
(standard)



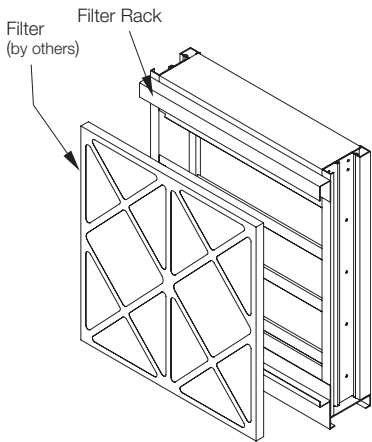
Flange Frame
(optional)

Supplemental Options

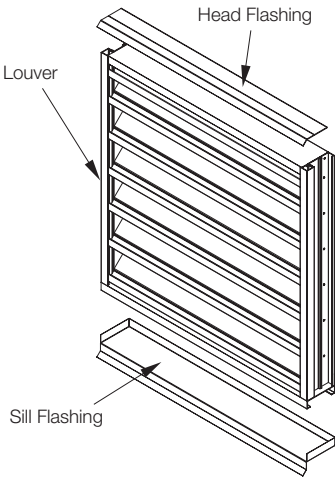
ECV-645
Extruded Aluminum Louver
6" deep • Vertical Blade



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