

### EDV-545

(standard)

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

## Ratings

**Free Area:** [48" × 48" (1219 × 1219) unit]: 8.03 ft<sup>2</sup> (0.75 m<sup>2</sup>)  
50.2%

### Performance @ Beginning Point of Water Penetration

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

**Air Volume Delivered:** 10,038 cfm (4.74 m<sup>3</sup>/s)

**Pressure Loss:** 0.55 in.wg. (136 Pa)

**Velocity @ 0.15 in.wg. Pressure Loss:** 666 fpm (3.38 m/s)

**AMCA 540 (impact resistant, Enhanced protection) listed**

**AMCA 550 (high velocity rain resistant) listed**

**Design Load:** 100 psf

The EDV-545 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 at a minimum louver depth. For installation, the EDV-545 offers a standard continuous angle option. The EDV-545 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 6005A-T6 extruded aluminum

**Frame:** 5-3/8" deep × 0.081" thick (137 × 2) channel

**Blades(Rear):** 45° × 0.05" (1.3) thick vertical chevron style

**Blades(Front):** 45° × 0.08" (2) thick horizontal J style

**Screen:** 1/2" × 0.063" (12.7 × 1.6) expanded and flattened aluminum

**Mullion:** Visible

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

**Maximum Size:**

Single section: 60" × 96" (1524 × 2438)

Multiple section: Unlimited width × 96" (2438)

**Shipping Weight (approximate):** 8 lbs/ft<sup>2</sup> (39 kg/m<sup>2</sup>)

### ■ 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

### ■ Burglar bars



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

# PERFORMANCE

## EDV-545

Extruded Aluminum Louver  
5-3/8" deep • Vertical Blade

### Free Area (ft<sup>2</sup>)

Width (Inches)

	12	18	24	30	36	42	48	54	60
12	0.22	0.36	0.49	0.63	0.76	0.90	1.03	1.17	1.30
18	0.48	0.76	1.05	1.33	1.62	1.90	2.19	2.47	2.76
24	0.73	1.17	1.61	2.05	2.49	2.93	3.37	3.81	4.25
30	0.99	1.59	2.18	2.78	3.37	3.97	4.56	5.16	5.75
36	1.25	2.00	2.75	3.50	4.25	5.00	5.75	6.50	7.25
42	1.50	2.41	3.31	4.21	5.11	6.02	6.92	7.82	8.72
48	1.75	2.79	3.84	4.89	5.93	6.98	8.03	9.08	10.12
54	1.99	3.19	4.38	5.58	6.78	7.97	9.17	10.36	11.56
60	2.23	3.58	4.92	6.26	7.60	8.94	10.28	11.62	12.96
66	2.49	3.98	5.48	6.97	8.47	9.96	11.45	12.95	14.44
72	2.75	4.40	6.05	7.69	9.34	10.99	12.64	14.29	15.94
78	3.01	4.81	6.61	8.42	10.22	12.02	13.83	15.63	17.43
84	3.26	5.22	7.18	9.14	11.10	13.06	15.02	16.97	18.93
90	3.51	5.62	7.73	9.84	11.95	14.05	16.16	18.27	20.38
96	3.76	6.02	8.27	10.53	12.79	15.04	17.30	19.56	21.81

Height (Inches)



#### Certified Ratings:

All-Lite certifies that the model EDV-545 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.



**HIGH VELOCITY RAIN  
RESISTANT WITH BLADES  
FULLY OPEN AND  
IMPACT RESISTANT LOUVER**  
*Enhanced Protection Level E*

See [www.AMCA.org](http://www.AMCA.org) for all certified or listed products

This label does not signify  
AMCA airflow performance  
certification.

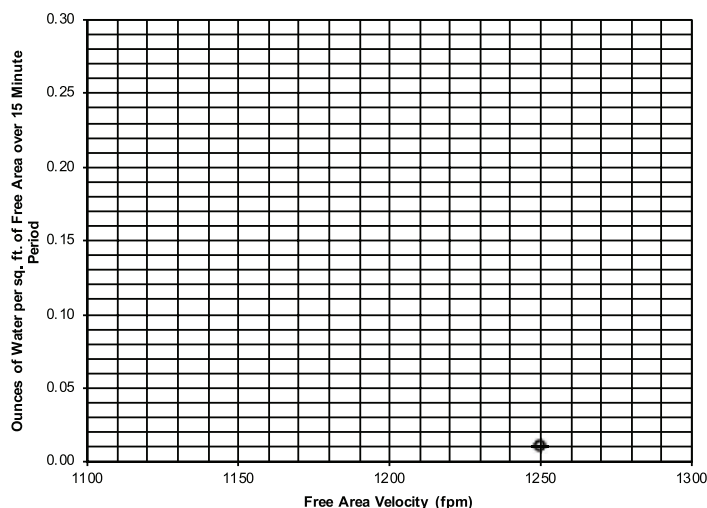
#### Certified Ratings:

All-Lite certifies that the model EDV-545 shown herein is approved to bear the AMCA listing label. The ratings shown are based on tests and procedures performed in accordance with AMCA publications and comply with the requirements of the AMCA listing label program. The AMCA listing label applies to high velocity rain and wind borne debris impact resistant louvers.

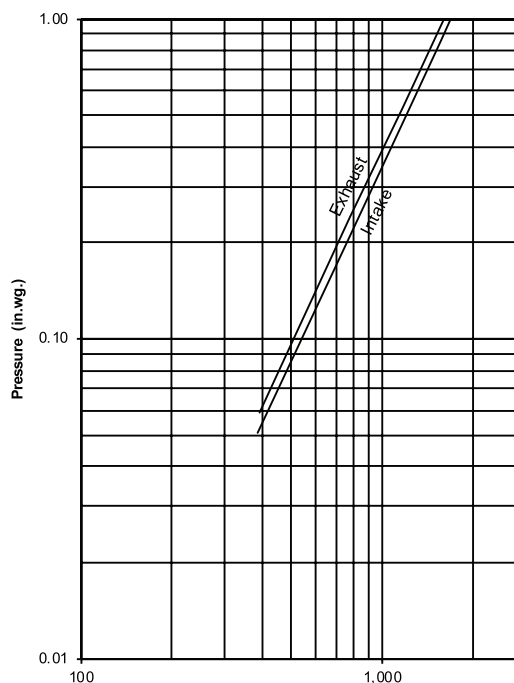
## Water Penetration

AMCA defines the beginning point of water penetration as the free area velocity at the intersection of a simple linear regression of test data and the line of 0.01 ounces of water per square foot of free area measured through a 48" x 48" louver during a 15 minute period. The AMCA water penetration test provides a method for comparing louver models and designs as to their efficiency in resisting the penetration of rainfall under specific lab conditions. We recommend that intake louvers are selected with a reasonable margin of safety below the beginning point of water penetration in order to avoid unwanted penetration during severe storm conditions.

Beginning Point of Water Penetration = 1,250 fpm



## Pressure Loss



Louver Test Size = 48" x 48" (1219 x 1219)  
Pressure loss tested in accordance with Figure 5.5 of AMCA  
Standard 500-L. Data corrected to standard air density.

# PERFORMANCE

## EDV-545

Extruded Aluminum Louver  
5-3/8" deep • Vertical Blade

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

Wind Velocity	Rainfall	Airflow	Core Velocity <sup>1</sup>	Effectiveness Ratio	Wind-Driven Rain Penetration Class	Discharge Loss Class <sup>2</sup>
29 mph	3 in/hr	10,591 cfm	984 fpm	100%	A	3
50 mph	8 in/hr	10,600 cfm	985 fpm	99.8%	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 ft<sup>2</sup> (1 m<sup>2</sup>).

2. Discharge Loss Coefficient is calculated by dividing the louver's actual airflow rate by the theoretical airflow rate for an unobstructed opening. The higher the coefficient, the lower the resistance to airflow.

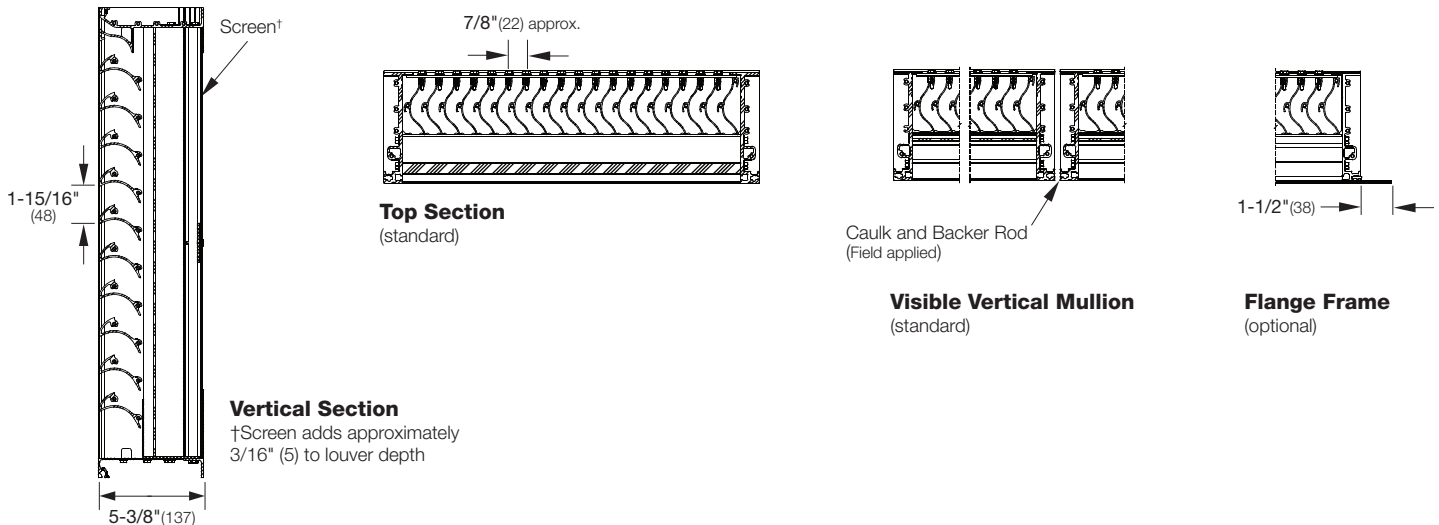
#### Wind Driven Rain

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

#### Discharge Loss

Class	Coefficient
1	0.4 and above
2	0.3 to 0.399
3	0.2 to 0.299
4	0.199 and below

### Attributes



### Supplemental Options

