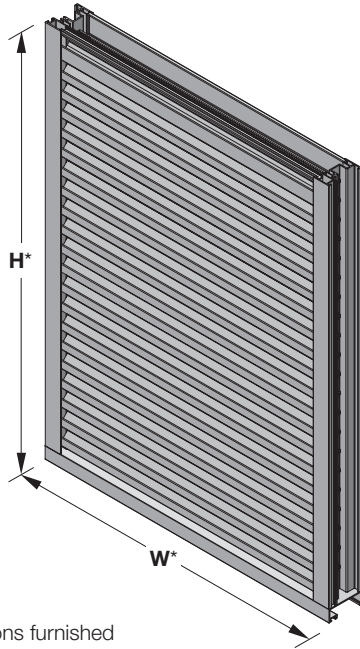




### ECD-245

(standard)

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

## Ratings

**Free Area:** [48" × 48" (1219 × 1219) unit]: 6.6 ft<sup>2</sup> (0.61m<sup>2</sup>)  
41.3%

### Performance @ Beginning Point of Water Penetration

**Free Area Velocity:** 1,006 fpm (5.11 m/s)

**Air Volume Delivered:** 6,649 cfm (3.14 m<sup>3</sup>/s)

**Pressure Loss:** 0.27 in.wg. (67 Pa)

**Velocity @ 0.15 in.wg. Pressure Loss:** 760 fpm (3.86 m/s)

The ECD-245 offers exceptional protection against wind-driven rain under the most severe conditions. The ECD-245 incorporates horizontal blades and is available in a wide array of anodized and painted finishes including custom color matching.

## Standard Construction

**Material:** Mill finish 6063-T5 extruded aluminum

**Frame:** 2" deep × 0.060" thick (51 × 1.5) channel

**Blades:** 0.060" (1.5) thick horizontal chevron style

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

**Mullion:** Visible

**Minimum Size:** 4" × 5" (102 × 127)

**Maximum Size:**

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

120" × 60" (3048 × 1524)

Multiple section: Unlimited

**Shipping Weight (approximate):** 3.5 lbs/ft<sup>2</sup> (17 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 ■ Custom-size flange
- Glazing frame ■ Stucco flange

### ■ Installation Hardware

- Clip angles ■ Continuous angles

### ■ Alternate bird or insect screens

### ■ Hidden mullion

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

### ■ Filter racks

### ■ Hinged frame

### ■ Subframe

### ■ Head and/or sill flashing

### ■ Burglar Bars

### ■ Frame closure

### ■ Net OD (actual size)



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

# PERFORMANCE

## ECD-245

Extruded Aluminum Louver  
2" deep • 45° Horizontal Blade

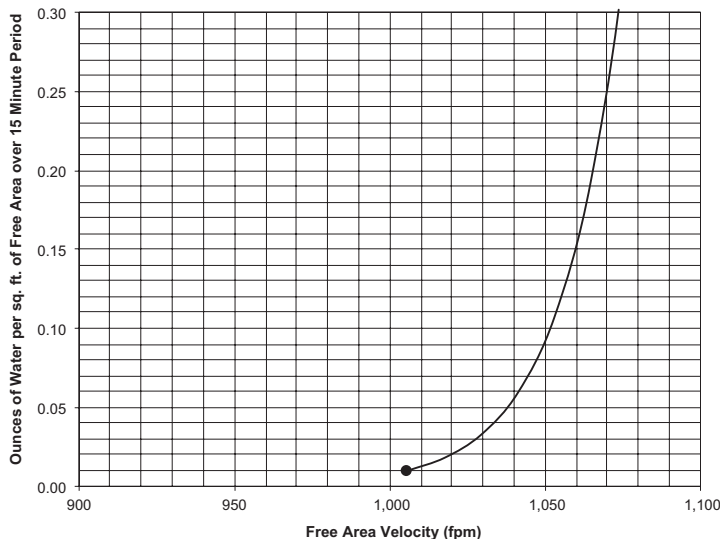
### Free Area (ft<sup>2</sup>)

|     | Width (Inches) |      |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----|----------------|------|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|     | 4              | 12   | 18  | 24  | 30   | 36   | 42   | 48   | 54   | 60   | 66   | 72   | 78   | 84   | 90   | 96   | 102  | 108  | 114  | 120  |
| 5   | 0.01           | 0.04 | 0.1 | 0.1 | 0.1  | 0.1  | 0.2  | 0.2  | 0.2  | 0.2  | 0.3  | 0.3  | 0.3  | 0.3  | 0.4  | 0.4  | 0.4  | 0.4  | 0.5  | 0.5  |
| 12  | 0.1            | 0.3  | 0.4 | 0.6 | 0.8  | 0.9  | 1.1  | 1.2  | 1.4  | 1.6  | 1.7  | 1.9  | 2.0  | 2.2  | 2.4  | 2.5  | 2.7  | 2.9  | 3.0  | 3.2  |
| 18  | 0.1            | 0.5  | 0.7 | 1.0 | 1.3  | 1.6  | 1.9  | 2.1  | 2.4  | 2.7  | 3.0  | 3.2  | 3.5  | 3.8  | 4.1  | 4.4  | 4.6  | 4.9  | 5.2  | 5.5  |
| 24  | 0.1            | 0.7  | 1.1 | 1.5 | 1.8  | 2.2  | 2.6  | 3.0  | 3.4  | 3.8  | 4.2  | 4.6  | 5.0  | 5.4  | 5.8  | 6.2  | 6.6  | 7.0  | 7.4  | 7.8  |
| 30  | 0.2            | 0.9  | 1.4 | 1.9 | 2.4  | 2.9  | 3.4  | 3.9  | 4.4  | 5.0  | 5.5  | 6.0  | 6.5  | 7.0  | 7.5  | 8.0  | 8.5  | 9.1  | 9.6  | 10.1 |
| 36  | 0.2            | 1.0  | 1.7 | 2.3 | 2.9  | 3.6  | 4.2  | 4.8  | 5.5  | 6.1  | 6.7  | 7.3  | 8.0  | 8.6  | 9.2  | 9.9  | 10.5 | 11.1 | 11.8 | 12.4 |
| 42  | 0.2            | 1.2  | 2.0 | 2.7 | 3.5  | 4.2  | 5.0  | 5.7  | 6.5  | 7.2  | 8.0  | 8.7  | 9.5  | 10.2 | 10.9 | 11.7 | 12.4 | 13.2 | 13.9 | 14.7 |
| 48  | 0.3            | 1.4  | 2.3 | 3.2 | 4.0  | 4.9  | 5.7  | 6.6  | 7.5  | 8.3  | 9.2  | 10.1 | 10.9 | 11.8 | 12.6 | 13.5 | 14.4 | 15.2 | 16.1 | 16.9 |
| 54  | 0.3            | 1.6  | 2.6 | 3.6 | 4.6  | 5.5  | 6.5  | 7.5  | 8.5  | 9.4  | 10.4 | 11.4 | 12.4 | 13.3 | 14.3 | 15.3 | 16.3 | 17.3 | 18.2 | 19.2 |
| 60  | 0.4            | 1.8  | 2.9 | 4.0 | 5.1  | 6.2  | 7.3  | 8.4  | 9.5  | 10.6 | 11.7 | 12.7 | 13.8 | 14.9 | 16.0 | 17.1 | 18.2 | 19.3 | 20.4 | 21.5 |
| 66  | 0.4            | 2.0  | 3.2 | 4.4 | 5.6  | 6.8  | 8.1  | 9.3  | 10.5 | 11.7 |      |      |      |      |      |      |      |      |      |      |
| 72  | 0.4            | 2.2  | 3.5 | 4.9 | 6.2  | 7.5  | 8.8  | 10.1 | 11.5 | 12.8 |      |      |      |      |      |      |      |      |      |      |
| 78  | 0.5            | 2.4  | 3.8 | 5.3 | 6.7  | 8.2  | 9.6  | 11.0 | 12.5 | 13.9 |      |      |      |      |      |      |      |      |      |      |
| 84  | 0.5            | 2.6  | 4.1 | 5.7 | 7.3  | 8.8  | 10.4 | 11.9 | 13.5 | 15.0 |      |      |      |      |      |      |      |      |      |      |
| 90  | 0.6            | 2.8  | 4.5 | 6.1 | 7.8  | 9.5  | 11.1 | 12.8 | 14.5 | 16.1 |      |      |      |      |      |      |      |      |      |      |
| 96  | 0.6            | 3.0  | 4.8 | 6.5 | 8.3  | 10.1 | 11.9 | 13.7 | 15.5 | 17.2 |      |      |      |      |      |      |      |      |      |      |
| 102 | 0.6            | 3.2  | 5.1 | 7.0 | 8.9  | 10.8 | 12.7 | 14.6 | 16.5 | 18.4 |      |      |      |      |      |      |      |      |      |      |
| 108 | 0.7            | 3.4  | 5.4 | 7.4 | 9.4  | 11.4 | 13.4 | 15.4 | 17.5 | 19.5 |      |      |      |      |      |      |      |      |      |      |
| 114 | 0.7            | 3.6  | 5.7 | 7.8 | 9.9  | 12.1 | 14.2 | 16.3 | 18.5 | 20.6 |      |      |      |      |      |      |      |      |      |      |
| 120 | 0.7            | 3.7  | 6.0 | 8.2 | 10.5 | 12.7 | 15.0 | 17.2 | 19.5 | 21.7 |      |      |      |      |      |      |      |      |      |      |

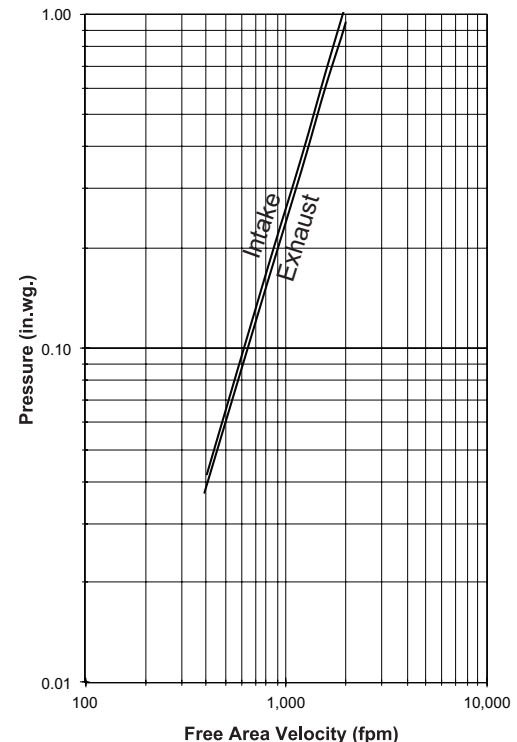
### Water Penetration

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 = 1,006 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.

### 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 |
|---------------|----------|-----------------------|-----------------------------|----------------------------------|------------------------|---------------------------------------|
| 29 mph        | 3 in/hr  | 2,123 (1.0)           | 197 (1.0)                   | 432 (2.2)                        | 99%                    | A                                     |
| 50 mph        | 8 in/hr  | 3,011 (1.4)           | 280 (1.4)                   | 612 (3.1)                        | 95%                    | A                                     |

**NOTE:**

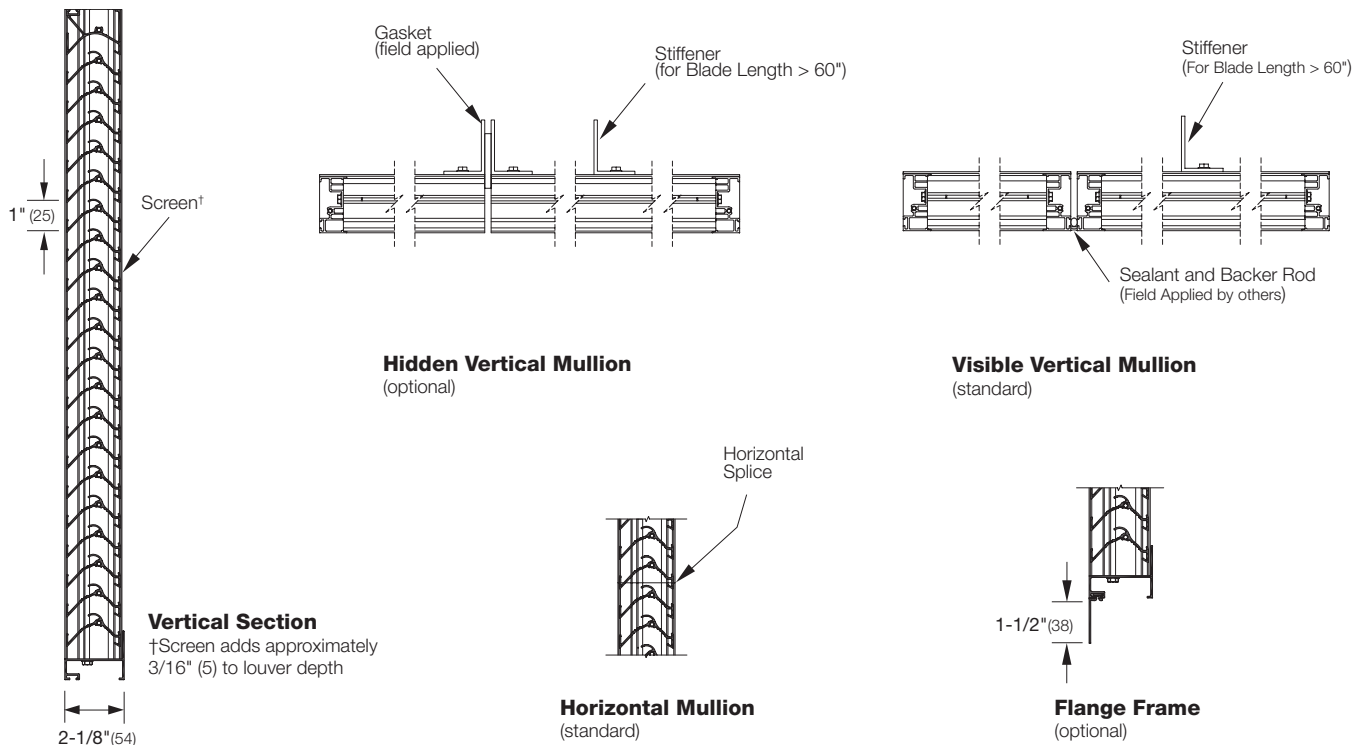
1. Core area is the open area of the louver face (face area less louver frame). Core velocity is the airflow divided by core area. Test louver core area is 10.77 ft² (1 m²).

2. Free area velocity is the airflow divided by free area. Test louver free area is 4.9 ft² (0.46 m²).

#### Wind Driven Rain

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

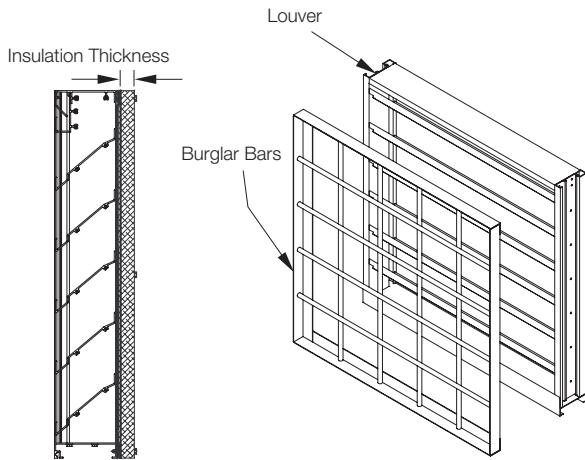
### Attributes



## Supplemental Options

# ECD-245

Extruded Aluminum Louver  
2" deep • 45° Horizontal Blade

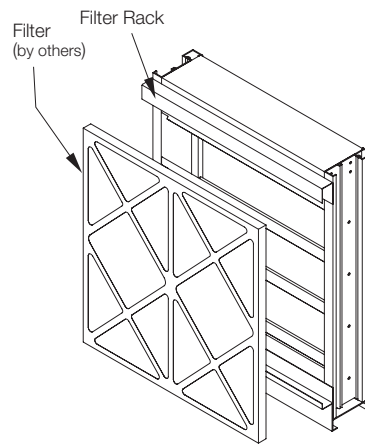


### Blank-Off Options

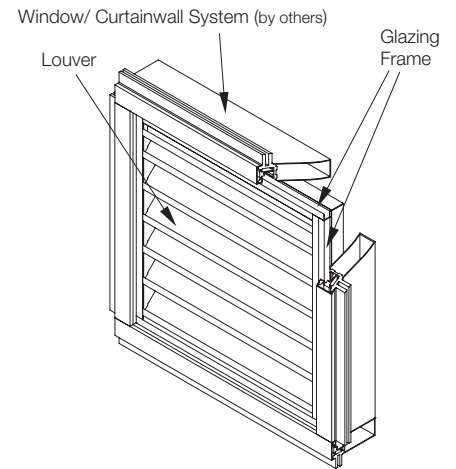
Non-Insulated and Gasketed  
1" Insulated (4.25 R-value)  
2" Insulated (8.75 R-value)

### Burglar Bars

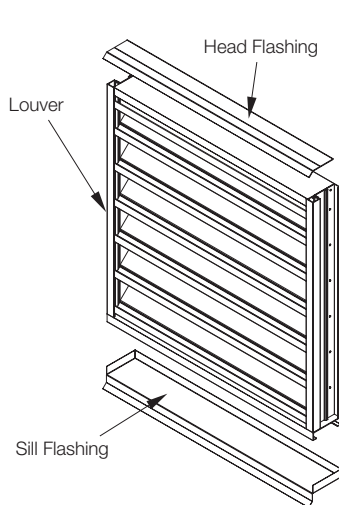
Shipped Loose or Mounted



### Filter Rack

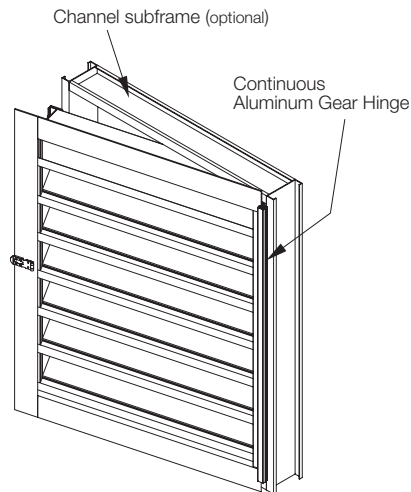


### Glazing Frame



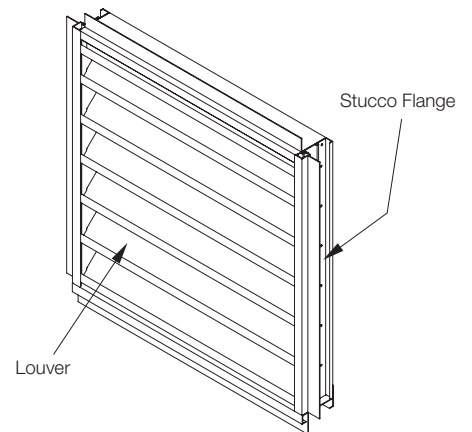
### Flashing Options

Head and Sill Available



### Hinge and Subframe

Right or Left Side Option Available



### Stucco Flange