

### EBI-445

(standard)

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

## Ratings

**Free Area:** [48" × 48" (1219 × 1219) unit]: 7.9 ft<sup>2</sup> (0.73 m<sup>2</sup>)  
49.4%

### Performance @ Beginning Point of Water Penetration

**Free Area Velocity:** 689 fpm (3.50 m/s)

**Air Volume Delivered:** 5,396 cfm (2.55 m<sup>3</sup>/s)

**Pressure Loss:** 0.10 in.wg. (25 Pa)

**Velocity @ 0.15 in.wg. Pressure Loss:** 850 fpm (4.32 m/s)

**Std. Design Load:** 30 psf

The EBI-445 combination louver features stationary louver blades and an integral gravity operated backdraft damper to protect intake air openings in exterior walls. The EBI-445 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:** 4" deep × 0.081" thick (102 × 2) channel

**Blades:** 45° × 0.081" thick (2) thick J-style BD-intake

**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: 48" × 120" (1219 × 3048)

Multiple section: Unlimited

## Options

### ■ Factory finish:

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

### ■ Frame Options:

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

### ■ Installation Hardware

- Clip angles
- Continuous angles

### ■ Alternate bird or insect screens

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

### ■ Filter racks

### ■ Hinged frame

### ■ Subframe

### ■ Head and/or sill flashing

### ■ Frame closure

### ■ Net OD (actual size)

**5** year  
warranty

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

# PERFORMANCE

## EBI-445

Extruded Aluminum Louver  
4" deep • 45° J-Blade BD-Intake

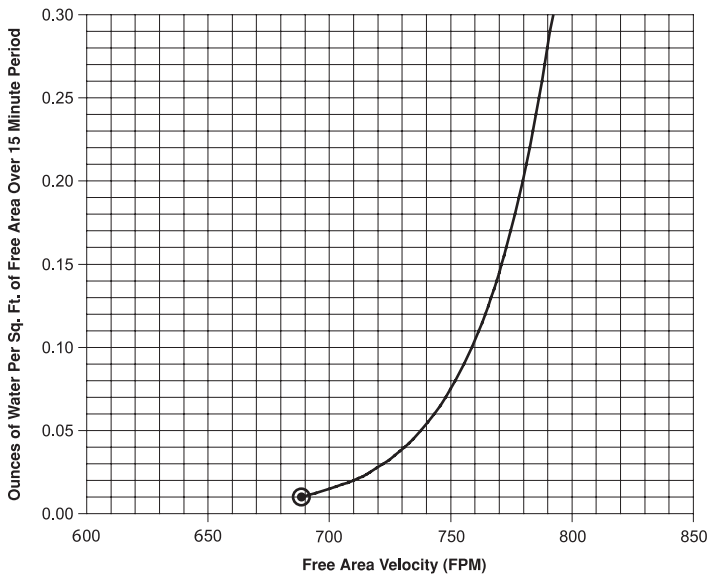
### Free Area (ft<sup>2</sup>)

		Width (Inches)						
		12	18	24	30	36	42	48
Height (Inches)	12	0.1	0.2	0.2	0.3	0.4	0.5	0.5
	18	0.4	0.7	1.0	1.2	1.5	1.8	2.0
	24	0.7	1.1	1.5	2.0	2.4	2.8	3.2
	30	1.0	1.5	2.1	2.7	3.2	3.8	4.4
	36	1.2	1.9	2.6	3.4	4.1	4.8	5.5
	42	1.5	2.3	3.2	4.1	4.9	5.8	6.7
	48	1.7	2.7	3.8	4.8	5.8	6.8	7.9
	54	2.0	3.1	4.3	5.5	6.7	7.8	9.0
	60	2.2	3.5	4.9	6.2	7.5	8.8	10.2
	66	2.5	3.9	5.4	6.9	8.4	9.9	11.3
	72	2.7	4.3	6.0	7.6	9.2	10.9	12.5
	78	3.0	4.7	6.5	8.3	10.1	11.9	13.6
	84	3.2	5.2	7.1	9.0	10.9	12.9	14.8
	90	3.5	5.6	7.6	9.7	11.8	13.9	16.0
	96	3.7	6.0	8.2	10.4	12.7	14.9	17.1
	102	4.0	6.4	8.8	11.1	13.5	15.9	18.3
108	4.2	6.8	9.3	11.8	14.4	16.9	19.5	
114	4.5	7.2	9.9	12.6	15.2	17.9	20.6	
120	4.7	7.6	10.4	13.2	16.1	18.9	21.8	

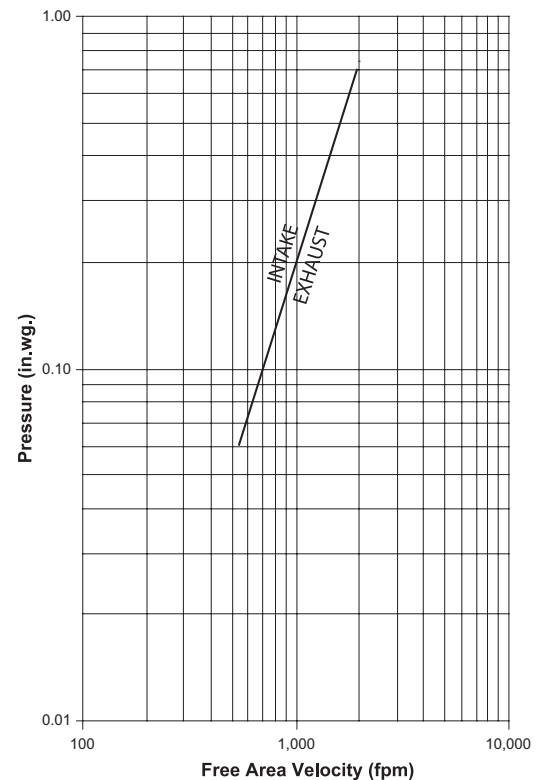
### Water Penetration

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 and is 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 = 689 fpm

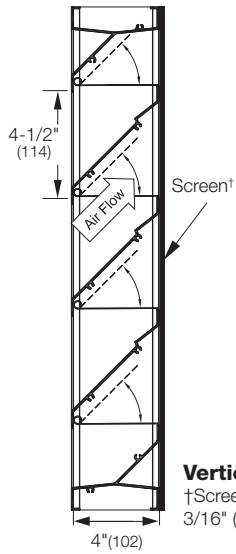


### Pressure Loss

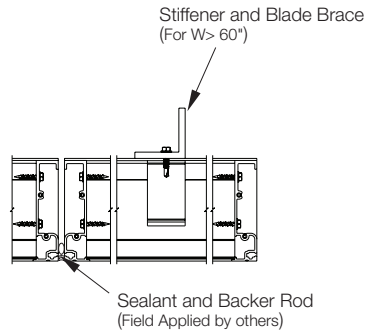


Louver Test Size = 48" x 48" (1219 x 1219)  
Pressure loss tested in accordance with Figure 5.5 of AMCA Standard 500-L. Data corrected to standard air density.

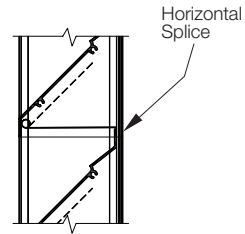
## Attributes



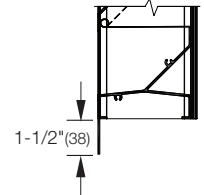
**Vertical Section**  
†Screen adds approximately 3/16" (5) to louver depth



**Visible Vertical Mullion**  
(standard)

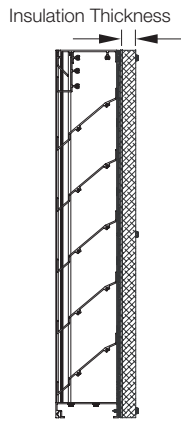


**Horizontal Mullion**  
(standard)

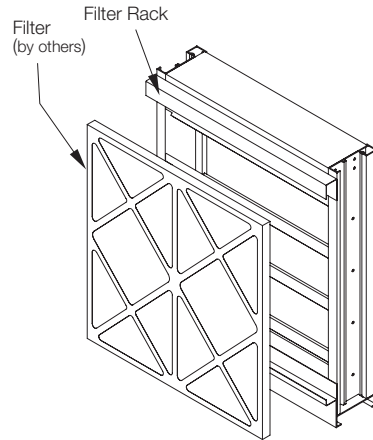


**Flange Frame**  
(optional)

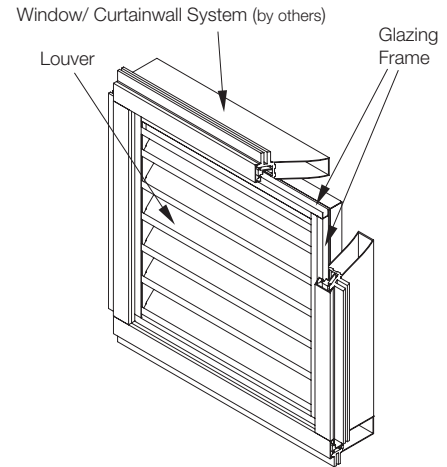
## Supplemental Options



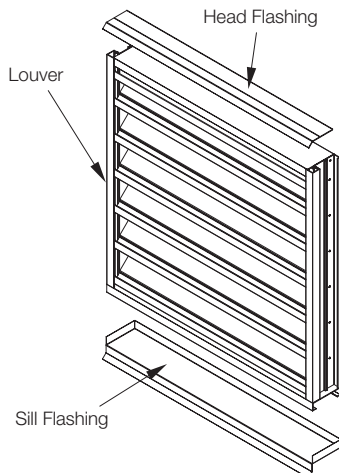
**Blank-Off Options**  
Non-Insulated and Gasketed  
1" Insulated (4.25 R-value)  
2" Insulated (8.75 R-value)



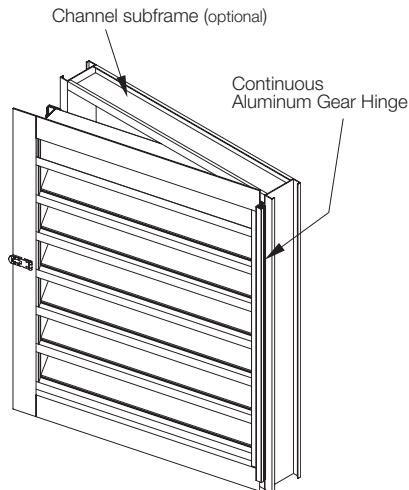
**Filter Rack**



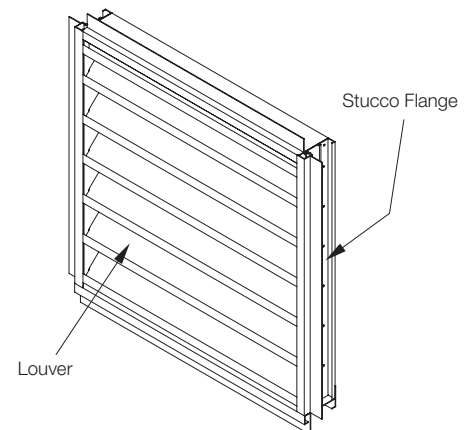
**Glazing Frame**



**Flashing Options**  
Head and Sill Available



**Hinge and Subframe**  
Right or Left Side Option Available



**Stucco Flange**