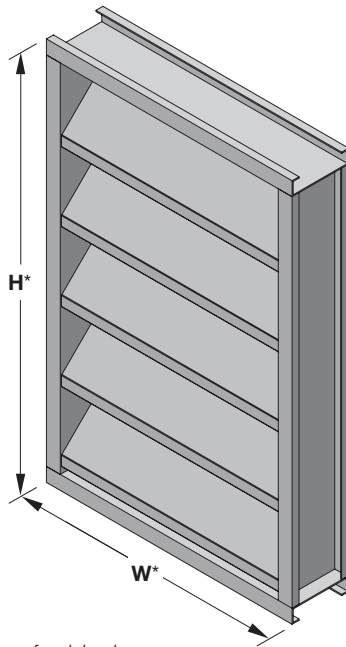


ALL-LITE

EBI-445

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



EBI-445

(standard)

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

Ratings

Free Area: [48" × 48" (1219 × 1219) unit]: 7.9 ft² (0.73 m²)
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 m³/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

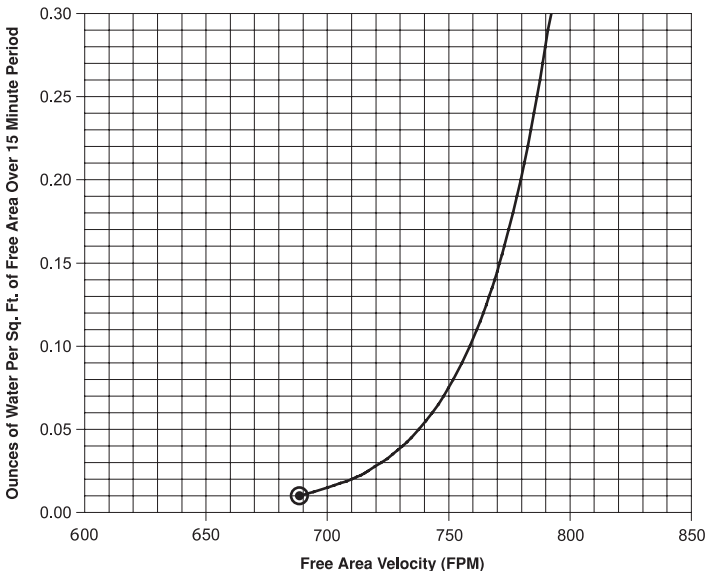
Free Area (ft²)

		Width (Inches)																		
		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
Height (Inches)	12	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	0.9	1.0	1.1	1.1	1.2	1.3	1.3
	18	0.4	0.7	1.0	1.2	1.5	1.8	2.0	2.3	2.6	2.8	3.1	3.4	3.6	3.9	4.2	4.4	4.7	5.0	5.2
	24	0.7	1.1	1.5	2.0	2.4	2.8	3.2	3.6	4.1	4.5	4.9	5.3	5.7	6.2	6.6	7.0	7.4	7.8	8.3
	30	1.0	1.5	2.1	2.7	3.2	3.8	4.4	4.9	5.5	6.1	6.7	7.2	7.8	8.4	8.9	9.5	10.1	10.7	11.2
	36	1.2	1.9	2.6	3.4	4.1	4.8	5.5	6.3	7.0	7.7	8.4	9.1	9.9	10.6	11.3	12.0	12.8	13.5	14.2
	42	1.5	2.3	3.2	4.1	4.9	5.8	6.7	7.6	8.4	9.3	10.2	11.1	11.9	12.8	13.7	14.6	15.4	16.3	17.2
	48	1.7	2.7	3.8	4.8	5.8	6.8	7.9	8.9	9.9	10.9	12.0	13.0	14.0	15.0	16.1	17.1	18.1	19.1	20.2
	54	2.0	3.1	4.3	5.5	6.7	7.8	9.0	10.2	11.4	12.5	13.7	14.9	16.1	17.2	18.4	19.6	20.8	21.9	23.1
	60	2.2	3.5	4.9	6.2	7.5	8.8	10.2	11.5	12.8	14.2	15.5	16.8	18.1	19.5	20.8	22.1	23.4	24.8	26.1
	66	2.5	3.9	5.4	6.9	8.4	9.9	11.3	12.8	14.3	15.8	17.2	18.7	20.2	21.7	23.2	24.6	26.1	27.6	29.1
	72	2.7	4.3	6.0	7.6	9.2	10.9	12.5	14.1	15.7	17.4	19.0	20.6	22.3	23.9	25.5	27.2	28.8	30.4	32.0
	78	3.0	4.7	6.5	8.3	10.1	11.9	13.6	15.4	17.2	19.0	20.8	22.5	24.3	26.1	27.9	29.7	31.4	33.2	35.0
	84	3.2	5.2	7.1	9.0	10.9	12.9	14.8	16.7	18.7	20.6	22.5	24.5	26.4	28.3	30.3	32.2	34.1	36.1	38.0
	90	3.5	5.6	7.6	9.7	11.8	13.9	16.0	18.0	20.1	22.2	24.3	26.4	28.5	30.5	32.6	34.7	36.8	38.9	41.0
	96	3.7	6.0	8.2	10.4	12.7	14.9	17.1	19.4	21.6	23.8	26.1	28.3	30.5	32.8	35.0	37.2	39.5	41.7	43.9
	102	4.0	6.4	8.8	11.1	13.5	15.9	18.3	20.7	23.1	25.5	27.9	30.3	32.6	35.0	37.4	39.8	42.2	44.6	47.0
108	4.2	6.8	9.3	11.8	14.4	16.9	19.5	22.0	24.5	27.1	29.6	32.2	34.7	37.2	39.8	42.3	44.9	47.4	49.9	
114	4.5	7.2	9.9	12.6	15.2	17.9	20.6	23.3	26.0	28.7	31.4	34.1	36.8	39.5	42.1	44.8	47.5	50.2	52.9	
120	4.7	7.6	10.4	13.2	16.1	18.9	21.8	24.6	27.4	30.3	33.1	35.9	38.8	41.6	44.5	47.3	50.1	53.0	55.8	

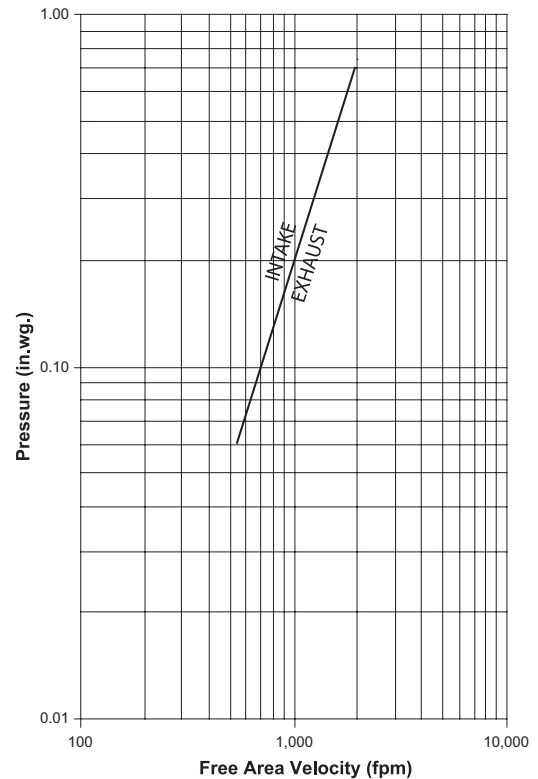
Water Penetration

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. Pottorff recommends 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

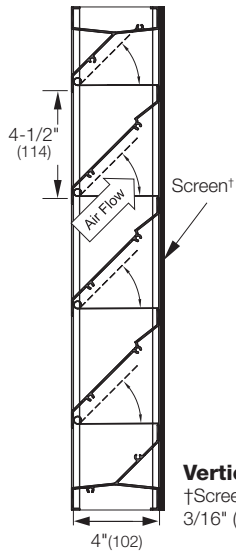


Pressure Loss



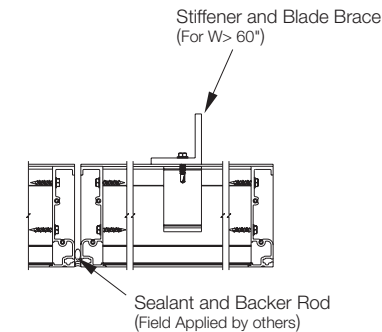
Louver Test Size = 48" x 48" (1219 x 1219)

Attributes

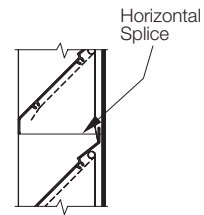


Vertical Section

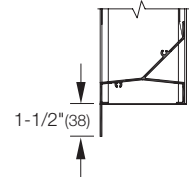
†Screen adds approximately 3/16" (5) to louver depth



Visible Vertical Mullion
(standard)

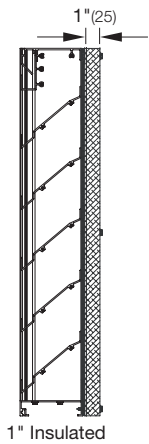


Horizontal Mullion
(standard)



Flange Frame
(optional)

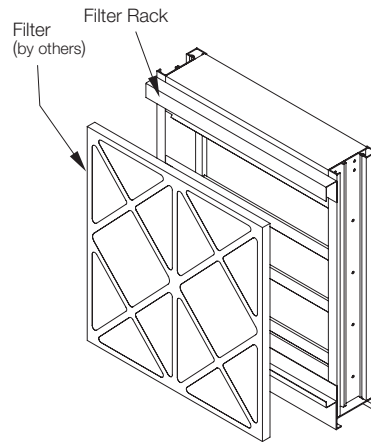
Supplemental Options



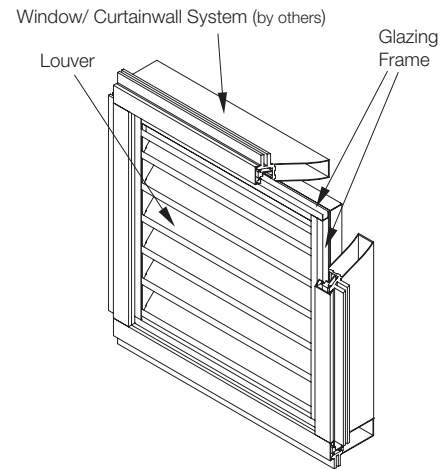
1" Insulated

Blank-Off Options

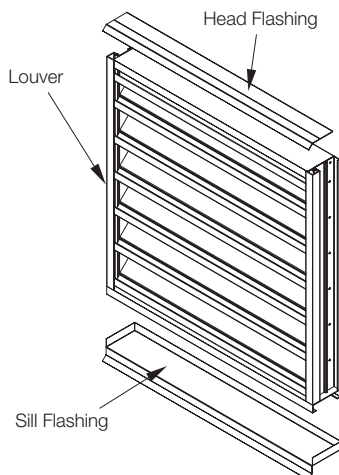
Non-Insulated and Gasketed
1" Insulated (4.4 R-value) As Shown
2" Insulated (8.7 R-value)



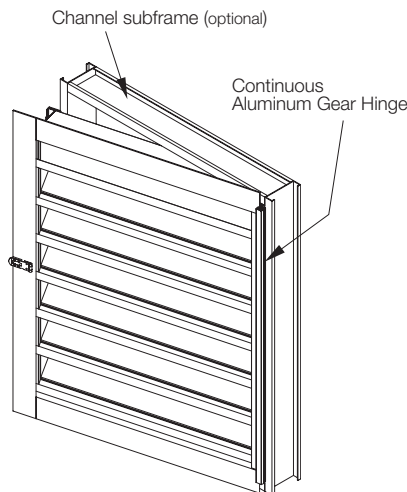
Filter Rack



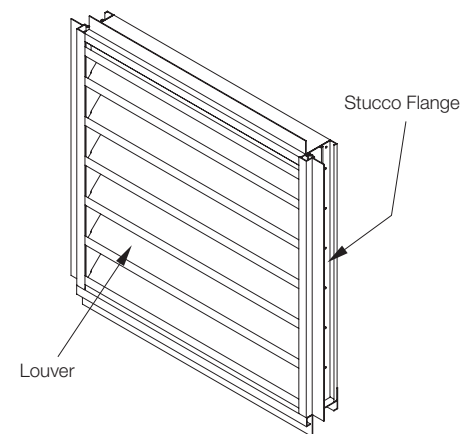
Glazing Frame



Flashing Options
Head and Sill Available



Hinge and Subframe
Right or Left Side Option Available



Stucco Flange
3/4" (19) Standard Stucco Depth