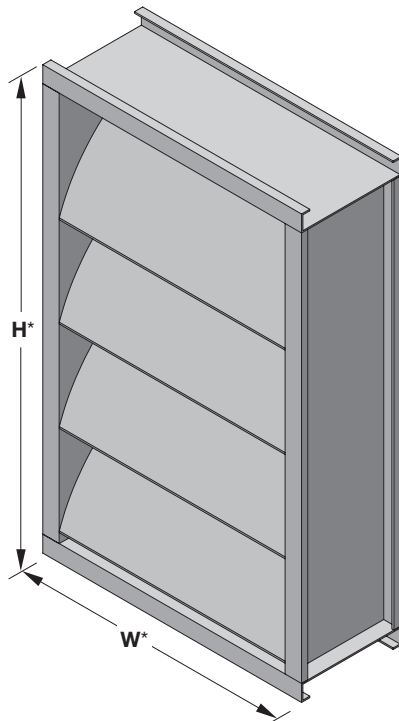


ALL-LITE

EAA-645

Acoustical Louver
6" deep • 45° Insulated Airfoil Blade



EAA-645

(standard)

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

Ratings

Free Area: [48" × 48" (1219 × 1219) unit]: 4.0 ft² (0.37 m²)
25.0%

Performance @ Beginning Point of Water Penetration

Free Area Velocity: 1,137 fpm (5.78m/s)

Air Volume Delivered: 4,541 cfm (2.14 m³/s)

Pressure Loss: 0.06 in.wg. (16 Pa)

Velocity @ 0.15 in.wg. Pressure Loss: 1,750 fpm (8.89 m/s)

Design Load: 30 psf

Acoustical Performance:

Octave Band	2	3	4	5	6	7
Center Freq. (hz)	125	250	500	1000	2000	4000
Transmission Loss	5	5	7	10	12	11
Noise Reduction	11	11	13	16	18	17

The EAA-645 airfoil blade acoustical louver provides low static pressure loss and reliable noise reduction over a wide range of frequencies. The EAA-645 is available in a wide array of finishes including custom color matching and is ideally suited for intake or exhaust application on standby generator enclosures.

Standard Construction

Material: Mill finish 6063-T5 extruded aluminum

Frame: 6" deep × 0.081" thick (152 × 2) channel

Blades: 45° × 0.081" (2) thick airfoil style with a 26 ga. (0.55) thick perforated backing packed with noncombustible insulating material.

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

Minimum Size: 12" × 16" (305 × 406)

Maximum Size:

Single section: 60" × 120" (1524 × 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
- Custom-size flange
- 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

■ Burglar bars

■ 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

EAA-645

Acoustical Louver
6" deep • 45° Insulated Airfoil Blade

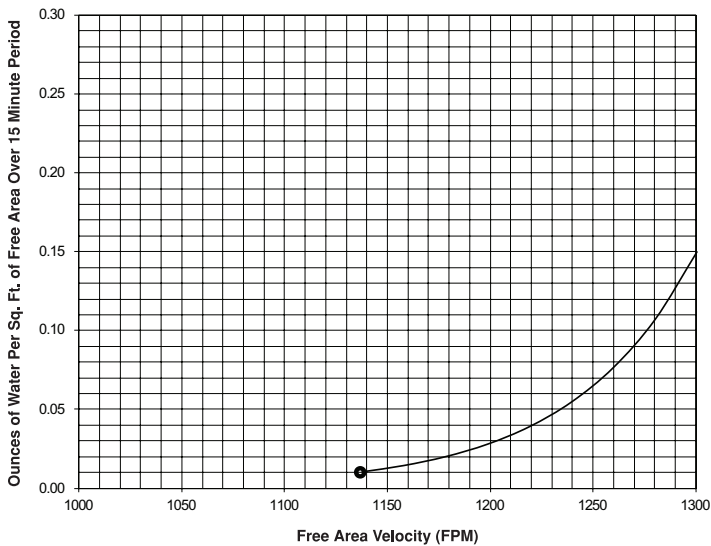
Free Area (ft²)

		Width (Inches)								
		12	18	24	30	36	42	48	54	60
Height (Inches)	18	0.2	0.4	0.5	0.6	0.8	0.9	1.0	1.2	1.3
	24	0.4	0.6	0.9	1.1	1.3	1.6	1.8	2.0	2.3
	30	0.6	0.9	1.2	1.6	1.9	2.2	2.6	2.9	3.2
	36	0.5	0.9	1.2	1.5	1.8	2.2	2.5	2.8	3.1
	42	0.7	1.1	1.5	2.0	2.4	2.8	3.2	3.7	4.1
	48	0.9	1.4	1.9	2.4	3.0	3.5	4.0	4.5	5.0
	54	1.0	1.7	2.3	2.9	3.5	4.1	4.8	5.4	6.0
	60	1.2	1.9	2.6	3.4	4.1	4.8	5.5	6.2	7.0
	66	1.4	2.2	3.0	3.8	4.6	5.5	6.3	7.1	7.9
	72	1.5	2.4	3.4	4.3	5.2	6.1	7.0	8.0	8.9
	78	1.7	2.7	3.7	4.7	5.8	6.8	7.8	8.8	9.8
	84	1.9	3.0	4.1	5.2	6.3	7.4	8.6	9.7	10.8
90	2.0	3.2	4.5	5.7	6.9	8.1	9.3	10.5	11.8	
96	2.2	3.5	4.8	6.1	7.5	8.8	10.1	11.4	12.7	
102	2.2	3.5	4.8	6.1	7.4	8.7	10.0	11.3	12.6	
108	2.3	3.7	5.1	6.5	7.9	9.4	10.8	12.2	13.6	
114	2.5	4.0	5.5	7.0	8.5	10.0	11.5	13.0	14.5	
120	2.7	4.3	5.9	7.5	9.1	10.7	12.3	13.9	15.5	

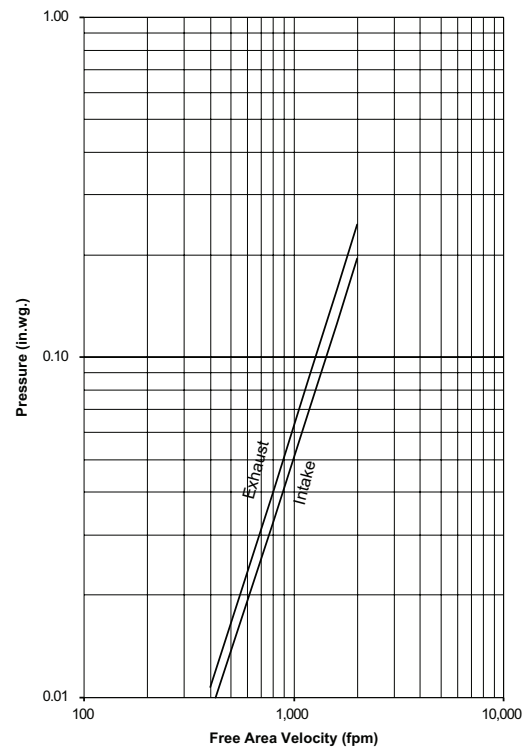
Water Penetration

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 = 1,137 fpm

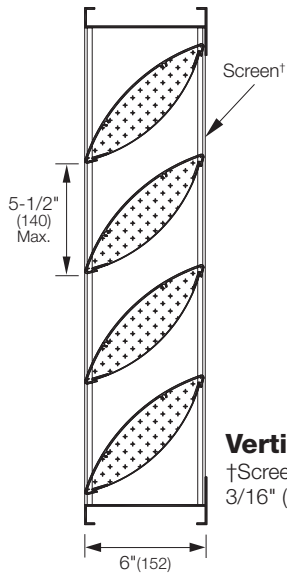


Pressure Loss



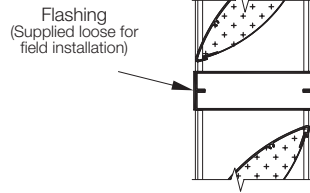
Louver Test Size = 48" x 48" (1219 x 1219)
Pressure loss tested in accordance with Figure 5.5 of AMCA Standard 500-L. Data corrected to standard air density.

Attributes



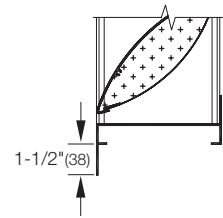
Vertical Section

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



Horizontal Mullion

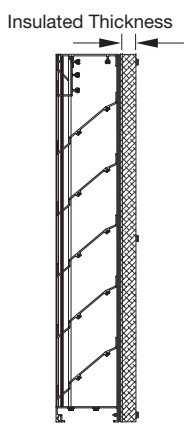
(standard)



Flange Frame

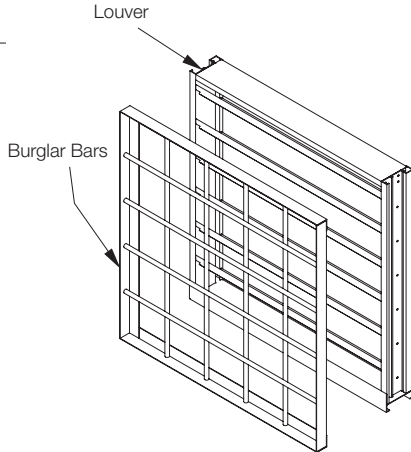
(optional)

Supplemental Options



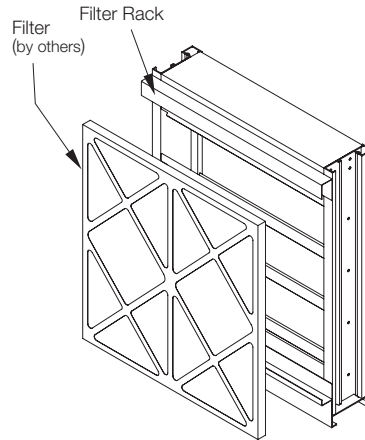
Blank-Off Options

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

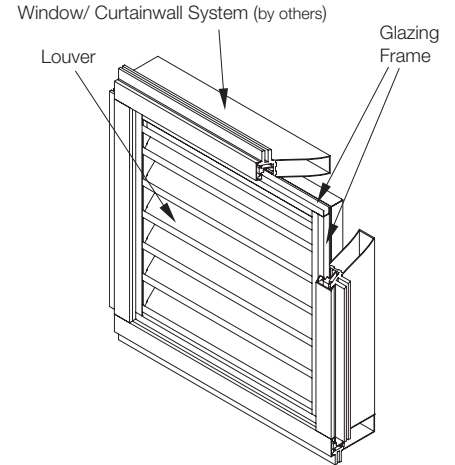


Burglar Bars

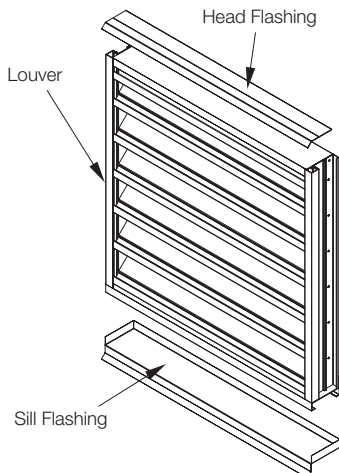
Shipped Loose or Mounted



Filter Rack

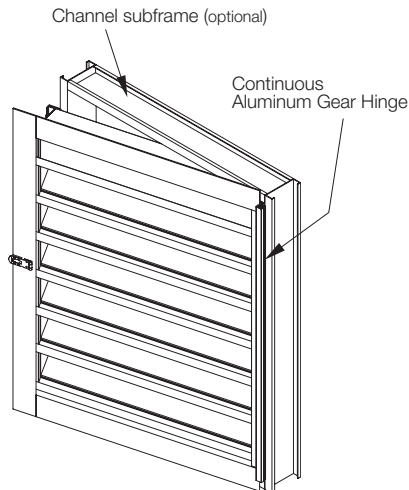


Glazing Frame



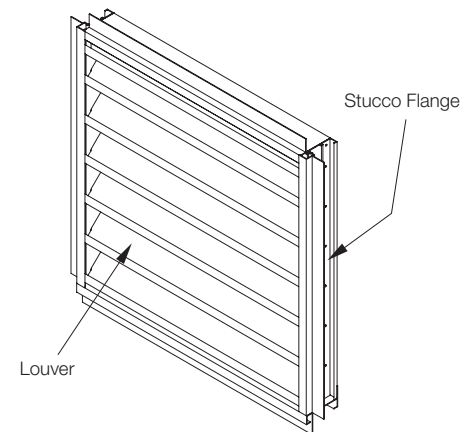
Flashing Options

Head and Sill Available



Hinge and Subframe

Right or Left Side Option Available



Stucco Flange