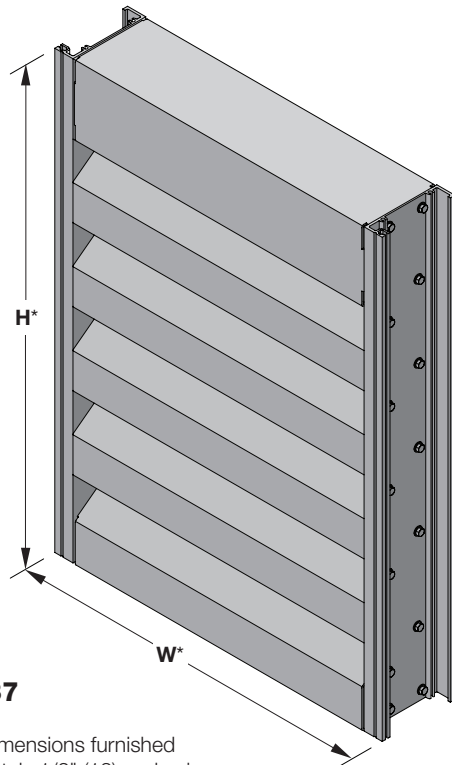


ALL-LITE

EAJ-437

Acoustical Louver
4" deep • 37° Insulated J-blade



EAJ-437

(standard)

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

Ratings

Free Area: [48" × 48" (1219 × 1219) unit]: 5.4 ft² (0.50 m²)
33.7%

Performance @ Beginning Point of Water Penetration

Free Area Velocity: 740 fpm (3.76 m/s)

Air Volume Delivered: 3,992 cfm (1.88 m³/s)

Pressure Loss: 0.06 in.wg. (15 Pa)

Velocity @ 0.15 in.wg. Pressure Loss: 1,125 fpm (5.72 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	2	2	4	8	9	7
Noise Reduction	11	10	12	17	18	17

The EAJ-437 extruded aluminum acoustical louver incorporates a J-blade and is designed for intake and exhaust applications where space is limited. The EAJ-437 is available in a wide array of finishes including custom color matching.

Standard Construction

Material: Mill finish 6063-T5 extruded aluminum

Frame: 4" deep × 0.081" thick (102 × 2) channel

Blades: 37° × 0.081" (2) thick J-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

Mullion: Visible

Minimum Size: 12" × 12" (305 × 305)

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
- 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)

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

PERFORMANCE

EAJ-437

Acoustical Louver
4" deep • 37° Insulated J-blade

Free Area (ft²)

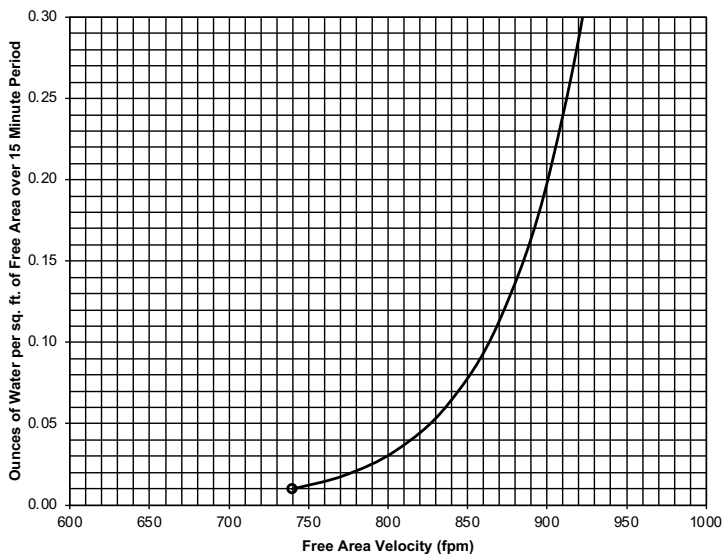
Width (Inches)

Height (Inches)	Width (Inches)									
	12	18	24	30	36	42	48	54	60	
12	0.2	0.3	0.5	0.6	0.7	0.9	1.0	1.1	1.2	
18	0.3	0.5	0.7	0.9	1.1	1.3	1.5	1.7	1.9	
24	0.5	0.9	1.2	1.5	1.8	2.1	2.5	2.8	3.1	
30	0.6	1.0	1.4	1.8	2.2	2.6	2.9	3.3	3.7	
36	0.9	1.4	1.9	2.4	2.9	3.4	3.9	4.4	5.0	
42	1.0	1.5	2.1	2.7	3.3	3.8	4.4	5.0	5.6	
48	1.2	1.9	2.6	3.3	4.0	4.7	5.4	6.1	6.8	
54	1.3	2.0	2.8	3.6	4.3	5.1	5.9	6.7	7.4	
60	1.5	2.4	3.3	4.2	5.1	6.0	6.9	7.8	8.7	
66	1.6	2.6	3.5	4.5	5.4	6.4	7.4	8.3	9.3	
72	1.8	2.9	4.0	5.1	6.2	7.2	8.3	9.4	10.5	
78	1.9	3.1	4.2	5.4	6.5	7.7	8.8	10.0	11.1	
84	2.1	3.4	4.7	6.0	7.2	8.5	9.8	11.1	12.4	
90	2.2	3.6	4.9	6.3	7.6	8.9	10.3	11.6	13.0	
96	2.4	3.9	5.4	6.9	8.3	9.8	11.3	12.7	14.2	
102	2.6	4.1	5.6	7.2	8.7	10.2	11.8	13.3	14.8	
108	2.8	4.4	6.1	7.8	9.4	11.1	12.7	14.4	16.1	
114	2.9	4.6	6.3	8.1	9.8	11.5	13.2	15.0	16.7	
120	3.1	4.9	6.8	8.6	10.5	12.4	14.2	16.1	17.9	

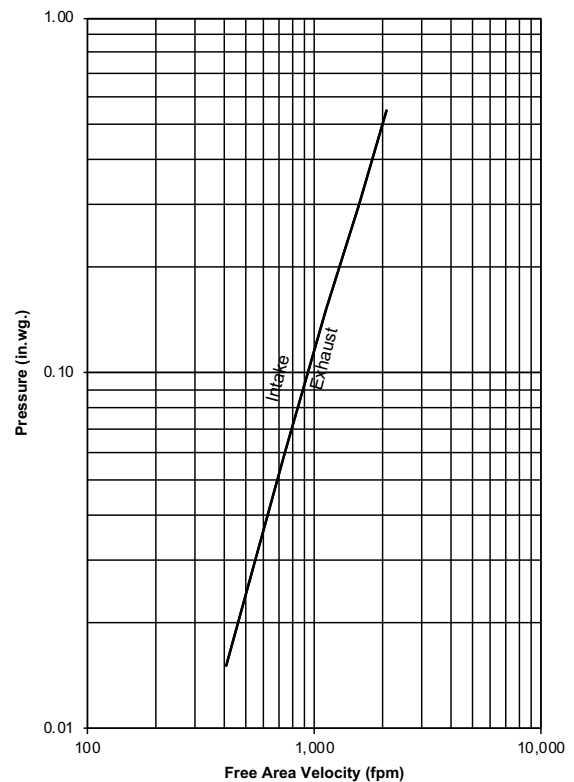
Water Penetration

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 = 740 fpm

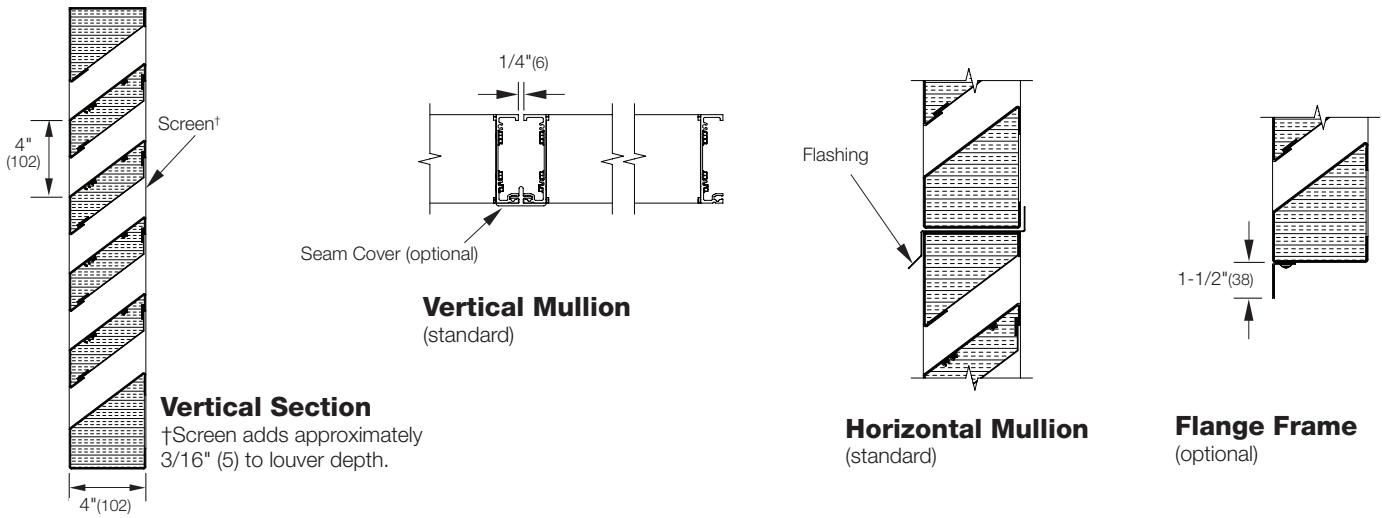


Pressure Loss



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



Supplemental Options

