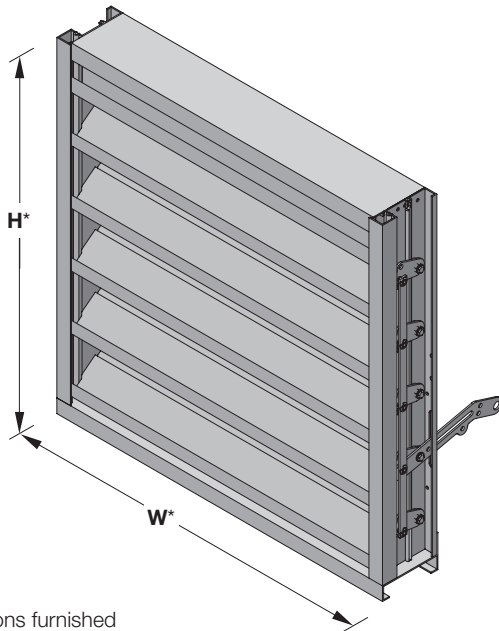




EX-437

(standard)

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

Ratings

Free Area: [48" × 48" (1219 × 1219) unit]: 6.9 ft² (0.64 m²)
43.0%

Performance @ Beginning Point of Water Penetration

Free Area Velocity: 1,172 fpm (5.95 m/s)

Air Volume Delivered: 8,134 cfm (3.84 m³/s)

Pressure Loss: 0.17 in.wg. (42 Pa)

Velocity @ 0.15 in.wg. Pressure Loss: 1,085 fpm (5.51 m/s)

Std. Design Load: 30 psf



The EX-437 combination louver features stationary drainable louver blades to protect against water penetration and an integral control damper to allow positive shutoff protection of air intake and exhaust openings. The EX-437 is available in a wide array of anodized and painted finishes including custom color matching. These units are also available with a variety of factory mounted electric or pneumatic actuators.

Standard Construction

Material: Mill finish 6063-T5 extruded aluminum

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

Blades: 37-1/2 × 0.081" thick (2) thick combination style

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

Low Leakage Seals: TPV blade edge and flexible metal jamb

Axles: 1/2" (13) diameter plated steel hex

Linkage: Concealed in frame

Bearings: Synthetic

Minimum Size: 12" × 12" (305 × 305)

Maximum Size:

Single section: 48" × 96" (1219 × 2436) with low leakage seals
60" × 96" (1524 × 2436) without low leakage seals
Multiple section: Unlimited

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
- 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)

■ No low leakage seals

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

PERFORMANCE

EX-437

Extruded Aluminum Louver
4" deep • 37-1/2 ° Combination Blade

Free Area (ft²)

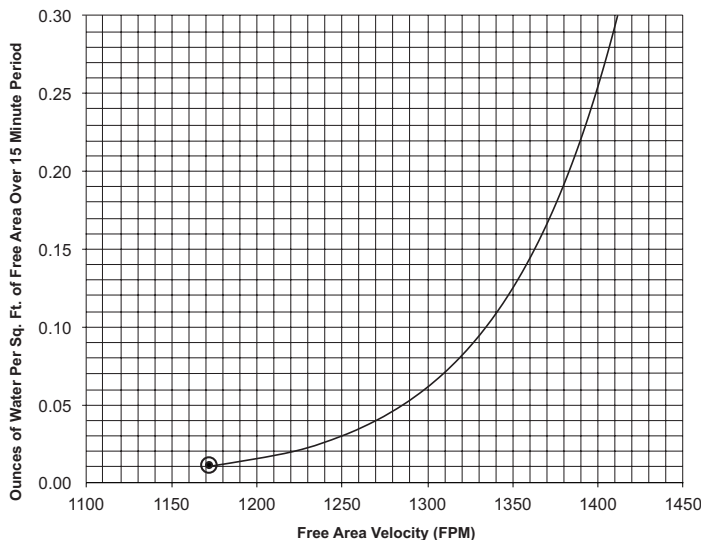
Width (Inches)

	12	18	24	30	36	42	48	54	60
12	0.24	0.38	0.53	0.67	0.81	0.95	1.10	1.24	1.38
18	0.52	0.83	1.15	1.46	1.77	2.08	2.40	2.71	3.02
24	0.66	1.06	1.46	1.85	2.25	2.65	3.04	3.44	3.84
30	0.94	1.51	2.08	2.64	3.21	3.78	4.34	4.91	5.48
36	1.09	1.74	2.39	3.04	3.69	4.34	4.99	5.64	6.29
42	1.37	2.19	3.01	3.83	4.65	5.47	6.29	7.11	7.93
48	1.51	2.41	3.32	4.22	5.13	6.03	6.94	7.84	8.75
54	1.79	2.86	3.94	5.01	6.09	7.16	8.24	9.31	10.38
60	1.93	3.09	4.25	5.41	6.57	7.73	8.88	10.04	11.20
66	2.21	3.54	4.87	6.20	7.53	8.85	10.18	11.51	12.84
72	2.35	3.77	5.18	6.59	8.01	9.42	10.83	12.24	13.66
78	2.64	4.22	5.80	7.38	8.96	10.55	12.13	13.71	15.29
84	2.78	4.44	6.11	7.78	9.44	11.11	12.78	14.44	16.11
90	3.06	4.90	6.73	8.57	10.40	12.24	14.08	15.91	17.75
96	3.20	5.12	7.04	8.96	10.88	12.80	14.72	16.64	18.57

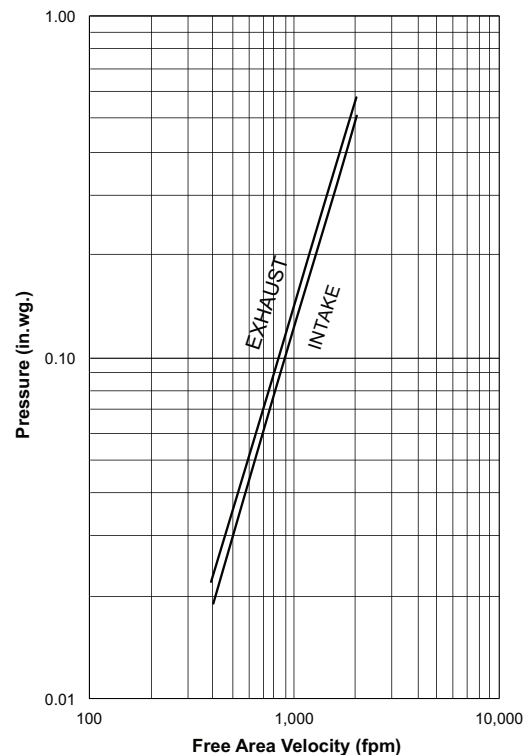
Water Penetration

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 = 1,172 fpm



Pressure Loss



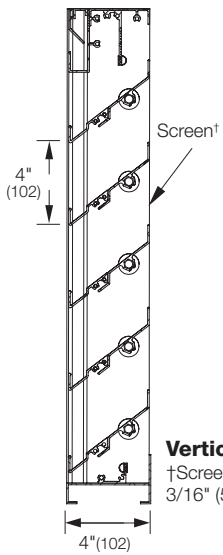
Louver Test Size = 48" x 48" (1219 x 1219)

Pressure loss tested in accordance with Figure 5.5 of AMCA Standard 500-L

Attributes

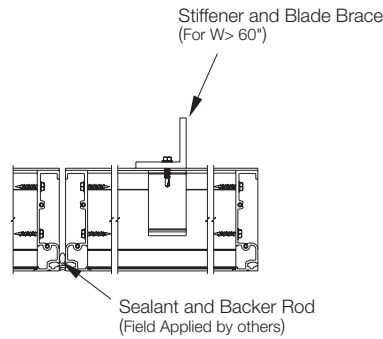
EX-437

Extruded Aluminum Louver
4" deep • 37-1/2 ° Combination Blade

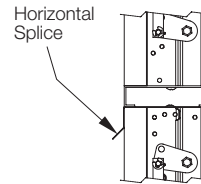


Vertical Section

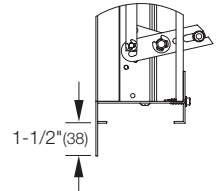
†Screen adds approximately 3/16" (5) to louver depth



Visible Vertical Mullion (standard)

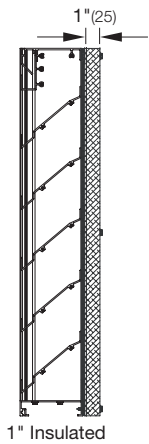


Horizontal Mullion (standard)



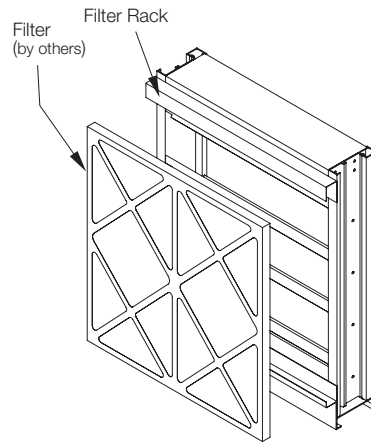
Flange Frame (optional)

Supplemental Options

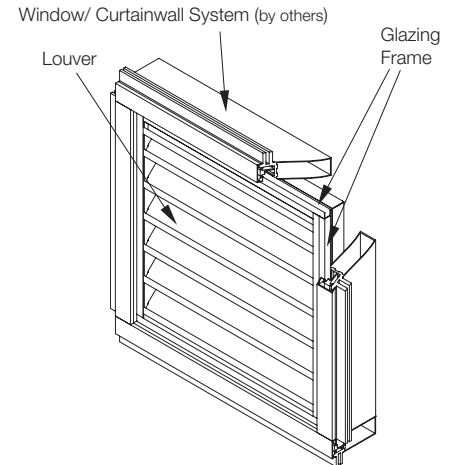


Blank-Off Options

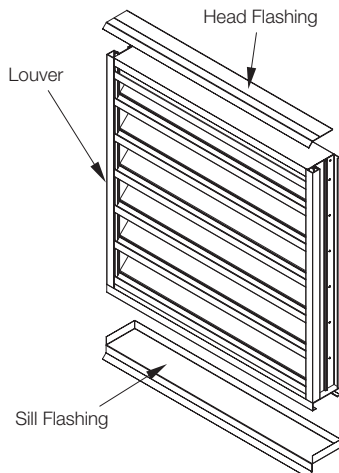
Non-Insulated and Gasketed
1" Insulated (4.4 R-value) As Shown
2" Insulated (8.7 R-value)



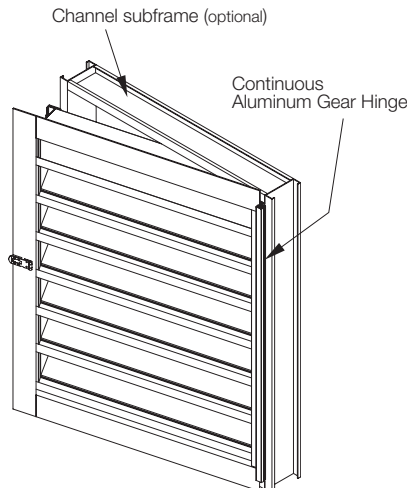
Filter Rack



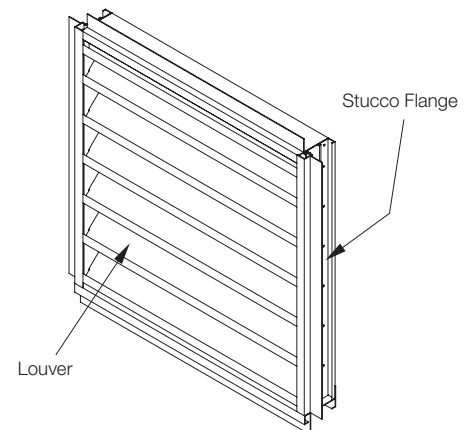
Glazing Frame



Flashing Options Head and Sill Available



Hinge and Subframe Right or Left Side Option Available



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