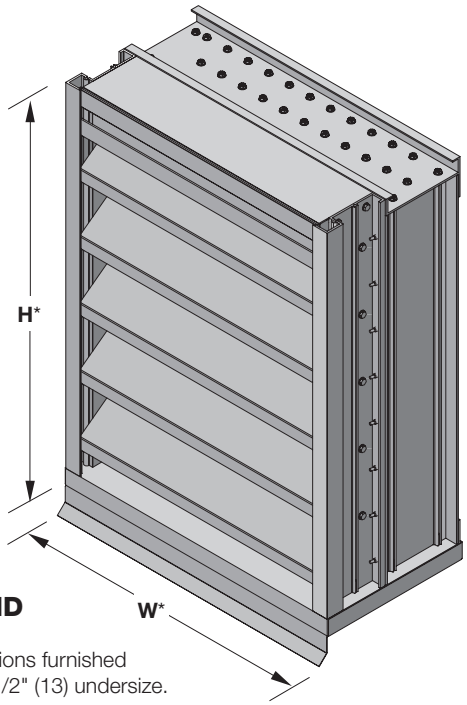
POTTORFF®

EFJ-937-MD

Extruded Aluminum Louver
9" deep • 37-1/2° J-blade with vertical blade rear section



EFJ-937-MD
(standard)
*Louver dimensions furnished approximately 1/2" (13) undersize.

The EFJ-937-MD dual-module louver is engineered and tested to withstand extreme loads, debris impact, and cyclic fatigue associated with the severe weather effects of hurricanes (Miami-Dade County approval #21-1122.07). The front (exterior) side of the louver features horizontal J-style blades for a pleasing architectural appearance. The back (interior) side has vertical chevron blades which provide superior resistance to wind-driven rain. For installation, the EFJ-937-MD offers multiple options requiring minimal hardware and assembly time. The EFJ-937-MD is AMCA 540 and 550 listed, making it ideally suited for use in hurricane-prone and wind-borne debris regions per the International Building Code.

Ratings

Free Area: [48" × 48" (1219 × 1219) unit]: 8.6 ft² (0.80m²)
53.9%

Performance @ Beginning Point of Water Penetration

Free Area Velocity: 1,250 fpm (6.35 m/s)

Air Volume Delivered: 10,775 cfm (5.09 m³/s)

Pressure Loss: 0.48 in.wg. (121 Pa)

Velocity @ 0.15 in.wg. Pressure Loss: 705 fpm (3.58 m/s)

AMCA 540 (impact resistant) listed

AMCA 540 (high velocity rain resistant) listed

Miami Dade County: NOA No. 21-1122.07 (Expires 5/17/2023)
Approved to FBC TAS201-94, TAS202-94 and TAS203-94

Florida Building Code Approval (2020-FBC): No. FL27568

Texas Department of Insurance listed

Design Load: 130 psf

Standard Construction

Material: Mill finish extruded aluminum

Frame: 9" deep × 0.125" thick (232 × 3) channel

Blades: Front: 37° × 0.081" (2.1) thick horizontal J style
Rear: 0.060" (1.5) thick vertical chevron.

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 width × 120" (3048)

Installation Hardware: Standard continuous angles and associated fasteners (anchors to substrate by others refer to installation instructions)

Options

- **Factory finish:**
  - High Performance Fluoropolymer
  - Prime Coat
  - Baked Enamel
  - Clear Anodize
  - Integral Color Anodize
- **Frame Options:**
  - 1-1/2" (38) flange frame
- **Alternate bird or insect screens**
- **Insulated or non-insulated blank-off panels**
- **Filter racks**
- **Head and/or sill flashing**
- **Full sleeve and retaining angles** (eliminates need for anchors to substrate; 1-1/2" (38) flange frame required)
- **Burglar bars**

5 year warranty

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

PERFORMANCE

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Free Area (ft^2)

Width (Inches)

Height (Inches)	12	18	24	30	36	42	48	54	60
12	**0.2**	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4
18	0.4	**0.7**	1.1	1.4	1.7	2.0	2.3	2.6	3.0
24	0.7	1.1	**1.6**	2.1	2.6	3.1	3.6	4.1	4.6
30	0.9	1.6	2.2	**2.9**	3.5	4.2	4.8	5.5	6.2
36	1.1	2.0	2.8	3.6	**4.4**	5.3	6.1	6.9	7.8
42	1.4	2.4	3.4	4.4	5.4	**6.4**	7.4	8.4	9.4
48	1.6	2.8	3.9	5.1	6.3	7.4	**8.6**	9.8	11.0
54	1.8	3.2	4.5	5.8	7.2	8.5	9.9	**11.2**	12.6
60	2.1	3.6	5.1	6.6	8.1	9.6	11.1	12.6	**14.2**
66	2.3	4.0	5.7	7.3	9.0	10.7	12.4	14.1	15.8
72	2.5	4.4	6.2	8.1	9.9	11.8	13.7	15.5	17.4
78	2.7	4.8	6.8	8.8	10.9	12.9	14.9	16.9	19.0
84	3.0	5.2	7.4	9.6	11.8	14.0	16.2	18.4	20.6
90	3.2	5.6	8.0	10.3	12.7	15.1	17.4	19.8	22.2
96	3.4	6.0	8.5	11.1	13.6	16.1	18.7	21.2	23.7
102	3.7	6.4	9.1	11.8	14.5	17.2	19.9	22.6	25.4
108	3.9	6.8	9.7	12.6	15.4	18.3	21.2	24.1	26.9
114	4.1	7.2	10.2	13.3	16.3	19.4	22.5	25.5	28.6
120	4.4	7.6	10.8	14.0	17.3	20.5	23.7	26.9	30.1

Certified Ratings:
Pottorff certifies that the model EFJ-937-MD shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings seal applies to air performance, water penetration and wind-driven rain ratings.

HIGH VELOCITY
RAIN RESISTANT
AND IMPACT RESISTANT
LOUVER
Enhanced Protection
See www.AMCA.org for all certified or listed products

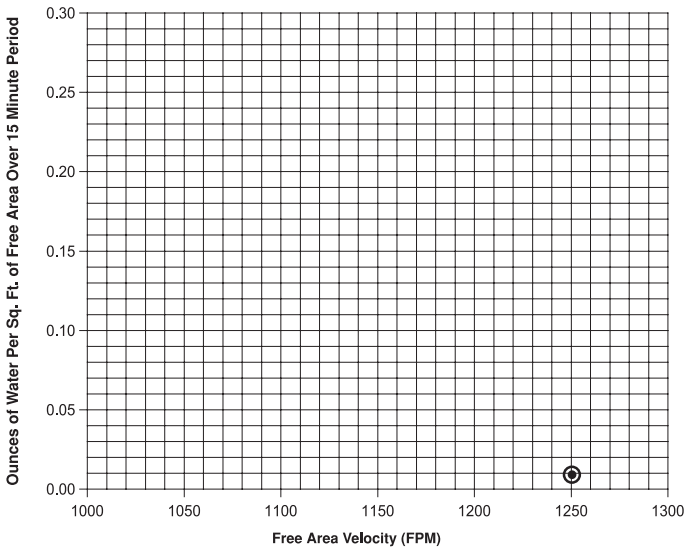
This label does not signify AMCA airflow performance certification.

Certified Ratings:
Pottorff certifies that the model EFJ-937-MD shown herein is approved to bear the AMCA listing label. The ratings shown are based on tests and procedures performed in accordance with AMCA publications and comply with the requirements of the AMCA listing label program. The AMCA listing label applies to impact resistant louvers and high velocity rain resistant louvers.

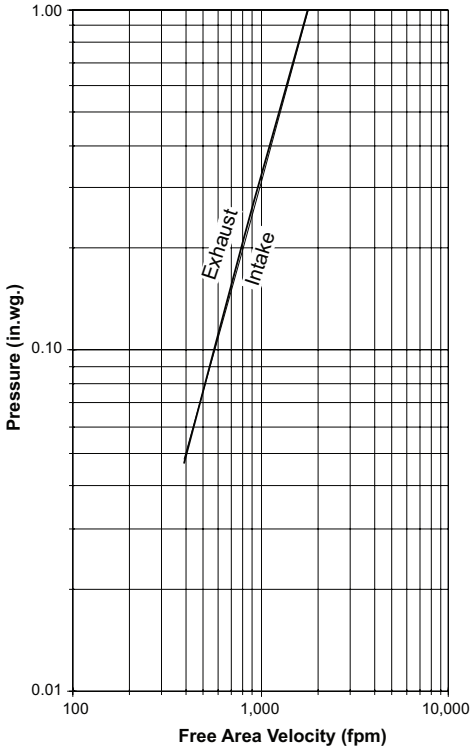
Water Penetration

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 = 1,250 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.

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Wind Driven Rain Performance - AMCA 500L Wind-Driven Rain Test

WInd Velocity	Rainfall	Airflow	Core Velocity[1]	Effectiveness Ratio	Wind-Driven Rain Penetration Class	Discharge Loss Class[2]
29 mph	3 in/hr	10,640 cfm	988 fpm	100%	A	3
50 mph	8 in/hr	9,599 cfm	892 fpm	99%	A	

NOTE:
1. Core area is the open area of the louver face (face area less louver frame). Core velocity is the airflow divided by core area. Test louver core area is 10.77 ft² (1 m²).

2. Discharge Loss Coefficient is calculated by dividing the louver's actual airflow rate by the theoretical airflow rate for an unobstructed opening. The higher the coefficient, the lower the resistance to airflow.

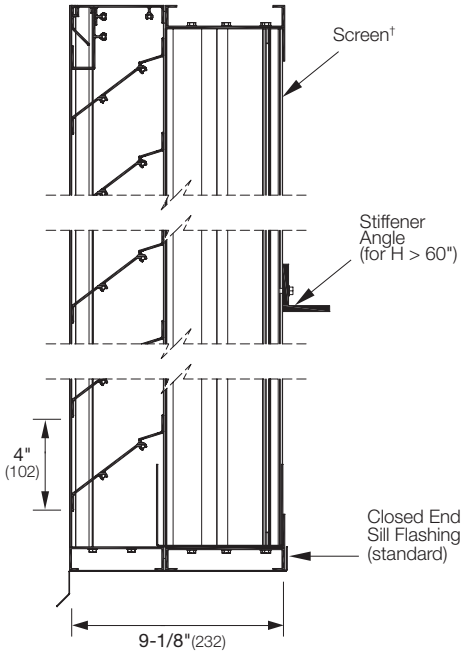
Wind Driven Rain

Class	Effectiveness
A	99% and above
B	95% to 98.9%
C	80% to 94.9%
D	below 80%

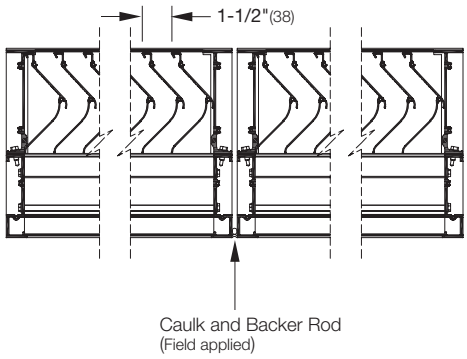
Discharge Loss

Class	Coefficient
1	0.4 and above
2	0.3 to 0.399
3	0.2 to 0.299
4	0.199 and below

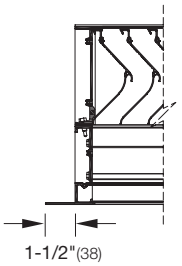
Attributes



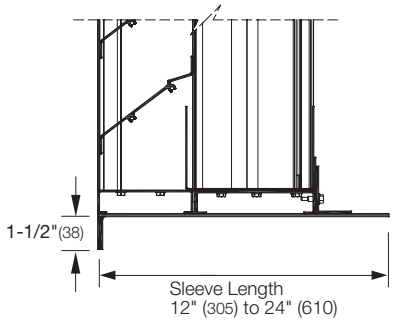
Vertical Section
†Screen adds approximately 3/16" (5) to louver depth



Visible Vertical Mullion
(standard)

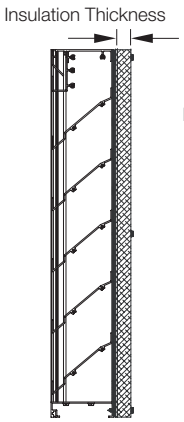


Flange Frame
(optional)

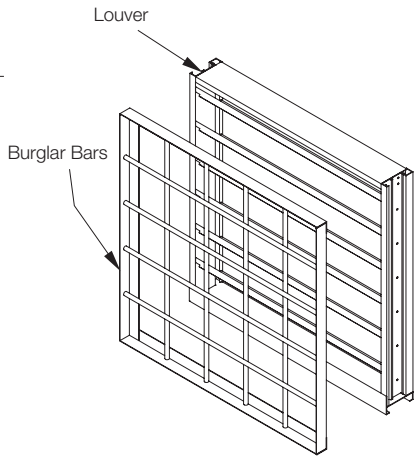


Sleeve
(optional)

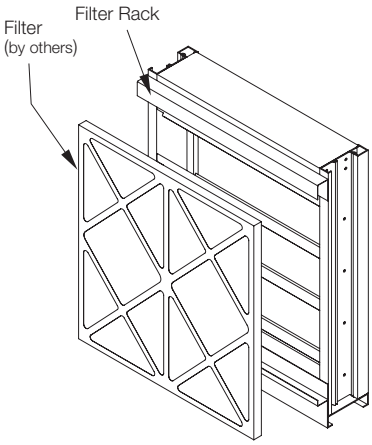
Supplemental Options



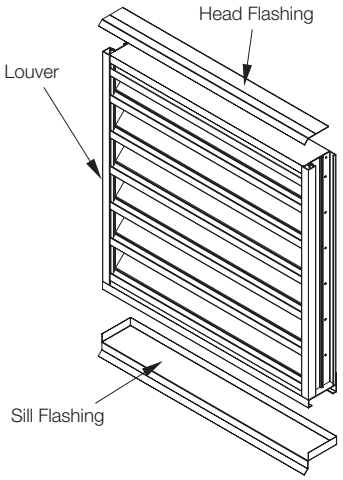
Blank-Off Options
Non-Insulated and Gasketed
1" Insulated (4.25 R-value)
2" Insulated (8.75 R-value)



Burglar Bars
Shipped Loose or Mounted



Filter Rack



Flashing Options
Head and Sill Available