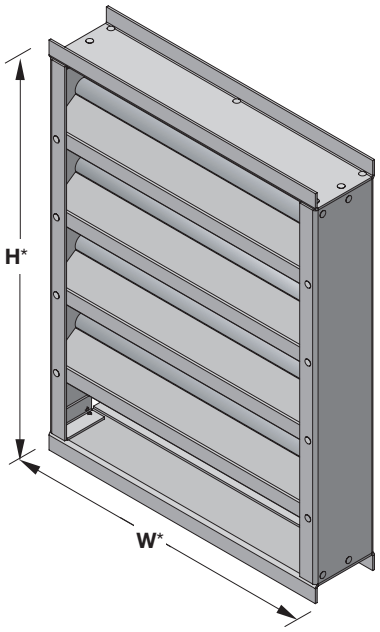
POTTORFF®

FFJ-445

Pultruded Fiberglass Louver
4" deep • 45° J-Blade



FFJ-445
(standard)
*Louver dimensions furnished approximately 1/2" (13) undersize.

Pottorff's FFJ-445 is a fixed blade, fiberglass louver used in applications where corrosive air exists for exhaust, air supply or pressure relief. The FFJ-445 is available for in-cavity wall installation, or flange mounted to exterior/interior of the wall. It can also be used on the discharge or intake side of exhaust and supply fans. Flange drilling is available as an option.

Standard Construction

Material: Unfinished Pultruded Fiberglass

Frame: 4" × 1.06" (102 × 27) fiberglass channel, 1/8" (3.2) thick

Blades: 1/8" (3.2) thick fiberglass on 45° angle approximately 4.5" (114) center to center

Screen: 1/2" mesh × 19-gauge (13 × 1.1) PVC coated bird-screen

Minimum Size: 12" × 12" (305 × 305)

Maximum Size:

Single section: 72" × 72" (1829 × 1829)

Multiple section: Unlimited

Ratings

Free Area: [48" × 48" (1219 × 1219) unit]: 6.0 ft^2 (0.56 m^2) 37.6%

Performance @ Beginning Point of Water Penetration

Free Area Velocity: 730 fpm (3.71 m/s)

Air Volume Delivered: 4,390 cfm (2.07 m^3/s)

Pressure Loss: 0.08 in.wg. (21 Pa)

Velocity @ 0.15 in.wg. Pressure Loss: 984 fpm (5.00 m/s)

Options

- **Factory finish:**
  - Enamel
  - Unfinished
- **Frame Options:**
  - 1-1/2" (38) flange frame
- **Installation Hardware**
  - Clip angles
  - Continuous angles
- **Alternate bird or insect screens**
- **Sill flashing**
- **Net OD (actual size)**

5 year warranty

Certified Ratings:
Pottorff certifies that the model FFJ-445 shown herein is licensed to bear the AMCA seal. The ratings shown are based on test 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 and water penetration ratings.

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

PERFORMANCE

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Free Area (ft^2)

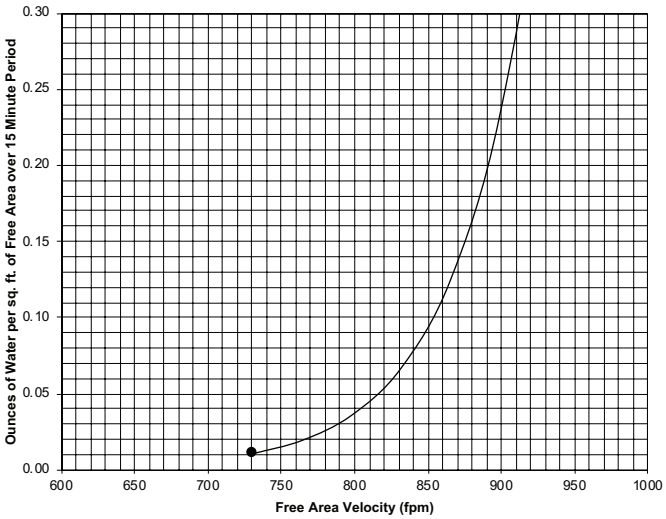
Width (Inches)

Height (Inches)	12	18	24	30	36	42	48	54	60	66	72
12	**0.2**	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1
18	0.4	**0.6**	0.9	1.1	1.4	1.6	1.9	2.1	2.4	2.6	2.9
24	0.6	1.0	**1.4**	1.8	2.2	2.6	3.0	3.4	3.8	4.2	4.6
30	0.7	1.2	1.6	**2.0**	2.5	2.9	3.4	3.8	4.3	4.7	5.1
36	1.0	1.5	2.1	2.7	**3.3**	3.9	4.5	5.1	5.7	6.3	6.9
42	1.2	1.9	2.7	3.4	4.2	**4.9**	5.6	6.4	7.1	7.9	8.6
48	1.3	2.1	2.8	3.6	4.4	5.2	**6.0**	6.8	7.6	8.4	9.2
54	1.5	2.4	3.4	4.3	5.3	6.2	7.1	**8.1**	9.0	10.0	10.9
60	1.7	2.8	3.9	5.0	6.1	7.2	8.3	9.4	**10.5**	11.5	12.6
66	1.8	3.0	4.1	5.2	6.4	7.5	8.6	9.8	10.9	**12.1**	13.2
72	2.1	3.4	4.6	5.9	7.2	8.5	9.8	11.1	12.4	13.6	**14.9**

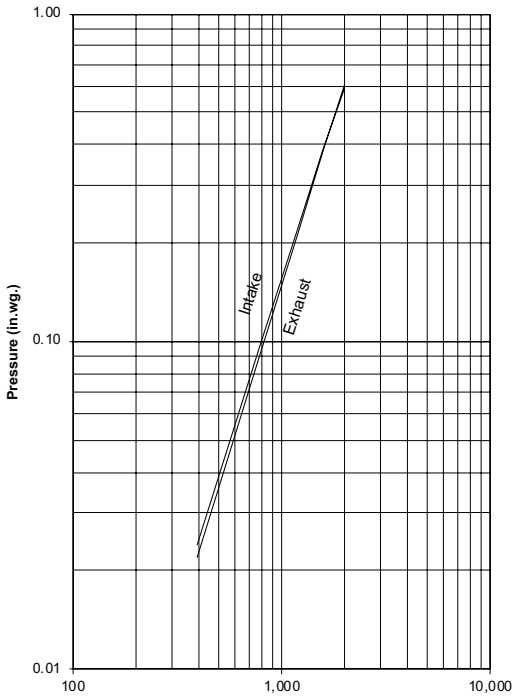
Water Penetration

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 = 730 fpm



Pressure Loss



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

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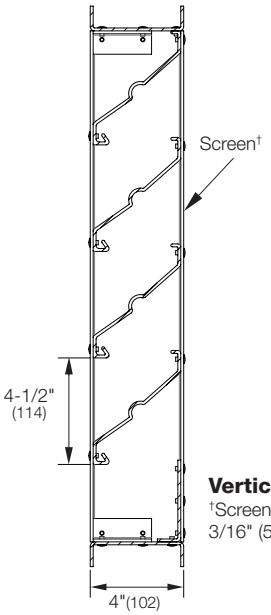
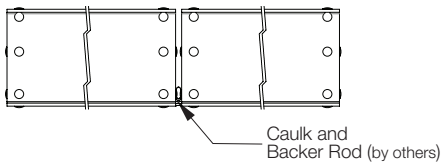
Pressure loss tested in accordance with Figure 5.5 of AMCA Standard 500-L. Data corrected to standard air density.

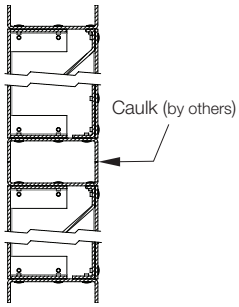
Attributes



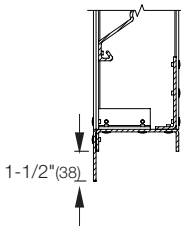
Vertical Section
†Screen adds approximately 3/16" (5) to louver depth



Vertical Mullion
(Optional)



Horizontal Mullion
(standard)



Flange Frame
(optional)