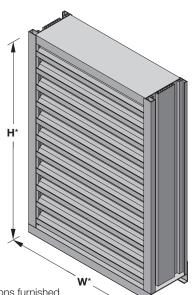
POTTORFF[®]

Extruded Aluminum I ouver 5" deep • 45° Horizontal Drainable Blade



ECD-545

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

Ratings

Free Area: [48" × 48" (1219 × 1219) unit]: 7.4 ft² (0.69m²) 46.3%

Performance @ Beginning Point of Water Penetration

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

Air Volume Delivered: Above 9,250 cfm (4.37 m³/s)

Pressure Loss: 0.24 in.wg. (60 Pa)

Velocity @ 0.15 in.wg. Pressure Loss: 980 fpm (4.98 m/s)

AMCA 540 (impact resistance, basic protection level D) listed Design Load: 30 psf



Certified Ratings:

510 IMDACT

Pottorff certifies that the model ECD-545 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, water penetration and wind-driven rain ratings.

AMCA INTERNATIONAL						
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RESISTANT LOUVER
Basic Protection Level D

This label does not signify AMCA airflow performance certification. See www. AMCA.org for all certified or listed products

Pottorff certifies that the model ECD-545 shown herein is approved to bear the AMCA Listing Label. The rating 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 Wind Borne Debris Impact Resistance.

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



The ECD-545 offers exceptional protection against wind-driven rain under the most severe conditions and is ideally suited for high wind areas or applications that are sensitive to wind-driven rain penetration. The ECD-545 incorporates horizontal blades and is available in a wide array of anodized and painted finishes including custom color matching.

Standard Construction

Material:	Mill finish	6063-T5	extruded	aluminum
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Frame: $5^{"}$ deep \times 0.081" thick (127 \times 2) channel

Blades: $45^{\circ} \times 063^{"}$ (1.6) thick horizontal chevron style

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

Minimum Size: $4.5" \times 5" (114 \times 127)$

Maximum Size:

Single section: 60" × 120" (1524 × 3048) 120" × 60" (3048 × 1524) 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
- Hidden vertical mullion
- Filter racks
- Hinged frame
- Subframe
- Head and/or sill flashing
- Burglar bars
- Frame closure
- Net OD (actual size)



PERFORMANCE

ECD-545 Extruded Aluminum Louver 5" deep • 45° Horizontal Drainable Blade

Free Area (ft²)

Height (Inches)

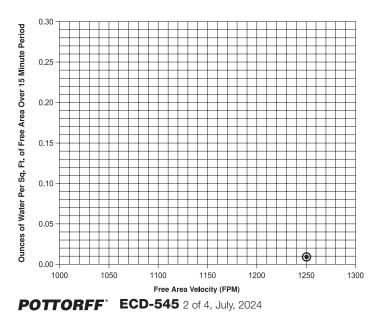
			.)						VV	iatri (incr	ies)									
	4.5	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
7	0.02	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7
12	0.1	0.3	0.5	0.7	0.8	1.0	1.2	1.4	1.6	1.8	1.9	2.1	2.3	2.5	2.7	2.8	3.0	3.2	3.4	3.6
18	0.1	0.5	0.8	1.1	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.6	4.9	5.2	5.5	5.8	6.1
24	0.2	0.7	1.2	1.6	2.1	2.5	2.9	3.4	3.8	4.3	4.7	5.1	5.6	6.0	6.5	6.9	7.3	7.8	8.2	8.7
30	0.2	0.9	1.5	2.1	2.7	3.2	3.8	4.4	4.9	5.5	6.1	6.6	7.2	7.8	8.4	8.9	9.5	10.1	10.6	11.2
36	0.3	1.2	1.9	2.6	3.3	4.0	4.7	5.4	6.1	6.8	7.5	8.2	8.9	9.6	10.3	10.9	11.6	12.3	13.0	13.7
42	0.3	1.4	2.2	3.0	3.9	4.7	5.5	6.4	7.2	8.0	8.8	9.7	10.5	11.3	12.1	13.0	13.8	14.6	15.5	16.3
48	0.4	1.6	2.6	3.5	4.5	5.4	6.4	7.4	8.3	9.3	10.2	11.2	12.1	13.1	14.0	15.0	16.0	16.9	17.9	18.8
54	0.5	1.8	2.9	4.0	5.1	6.2	7.2	8.3	9.4	10.5	11.6	12.7	13.8	14.9	15.9	17.0	18.1	19.2	20.3	21.4
60	0.5	2.0	3.2	4.5	5.7	6.9	8.1	9.3	10.5	11.8	13.0	14.2	15.4	16.6	17.8	19.1	20.3	21.5	22.7	23.9
66	0.6	2.2	3.6	4.9	6.3	7.6	9.0	10.3	11.7	13.0										
72	0.6	2.5	3.9	5.4	6.9	8.4	9.8	11.3	12.8	14.3										
78	0.7	2.7	4.3	5.9	7.5	9.1	10.7	12.3	13.9	15.5										
84	0.7	2.9	4.6	6.4	8.1	9.8	11.6	13.3	15.0	16.8										
90	0.8	3.1	5.0	6.8	8.7	10.6	12.4	14.3	16.1	18.0										
96	0.8	3.3	5.3	7.3	9.3	11.3	13.3	15.3	17.3	19.3										
102	0.9	3.5	5.7	7.8	9.9	12.0	14.1	16.3	18.4	20.5										
108	0.9	3.8	6.0	8.3	10.5	12.8	15.0	17.3	19.5	21.8										
114	1.0	4.0	6.3	8.7	11.1	13.5	15.9	18.3	20.6	23.0										
120	1.0	4.2	6.7	9.2	11.7	14.2	16.7	19.2	21.8	24.3										

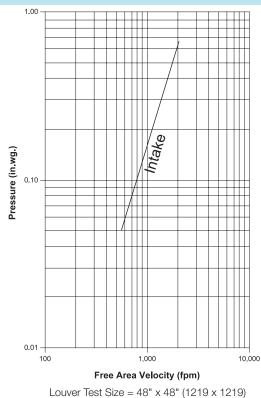
Width (Inches)

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 = Above 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.

PERFORMANCE

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

Wind Velocity	Rainfall	Airflow cfm (m³/s)	Core Velocity ¹ fpm (m/s)	Free Area Velocity ² fpm (m/s)	Effectiveness Ratio	Wind-Driven Rain Penetration Class
29 mph	3 in/hr	9,276 (4.4)	862 (4.4)	1,727 (8.8)	99.4%	А
50 mph	8 in/hr	10,502 (5.0)	975 (5.0)	1,956 (9.9)	95.3%	В

Wind Driven Rain

Effectiveness

99% and above

95% to 98.9%

80% to 94.9%

below 80%

Class

А

В

С

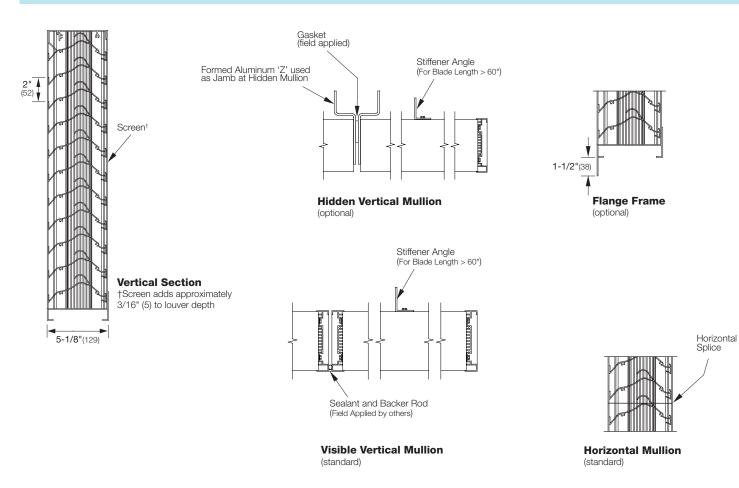
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NOTE:

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. Free area velocity is the airflow divided by free area. Test louver free area is 5.4 ft^2 (0.5 m^2).

Attributes



Supplemental Options

ECD-545 Extruded Aluminum Louver 5" deep • 45° Horizontal Drainable Blade

