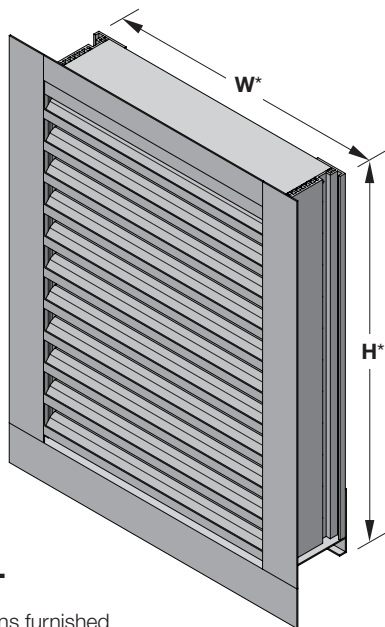


ALL-LITE

ECD-545-BL

Extruded Aluminum Blast Louver
5" deep • 45° Horizontal Drainable Blade



ECD-545-BL

(standard)

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

Ratings

Free Area: [48" x 48" (1219 x 1219) unit]: 6.7 ft² (0.62m²)
41.9%

Performance @ Beginning Point of Water Penetration

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

Air Volume Delivered: Above 8,388 cfm (3.96 m³/s)

Pressure Loss: 0.21 in.wg. (52 Pa)

Velocity @ 0.15 in.wg. Pressure Loss: 1,057 fpm (5.37 m/s)

Design Load: 30 psf

Blast Loading: GSA Performance Condition: 2

-16.7 psi peak pressure at impulse 85.6 psi-ms

-12.1 psi repeated pressure at impulse 97.3 psi-ms

Standard Construction

Material: Mill finish 6063-T5 extruded aluminum

Frame: 5" deep x 0.081" thick (127 x 2) channel
1-1/2" flange frame

Blades: 45° x 0.63" (1.6) thick horizontal chevron style

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

Minimum Size: 12" x 12" (305 x 305)

Maximum Size:

Single section: 60" x 120" (1524 x 3048)

Multiple section: Unlimited x 120" (3048)

Installation Hardware: Continuous angles

Options

■ Factory finish:

- High Performance Fluoropolymer ■ Prime Coat
- Baked Enamel ■ Clear Anodize ■ Integral Color Anodize

■ Alternate bird or insect screens

■ Head and/or sill flashing

■ Burglar bars

■ Net OD (actual size)

5 year
warranty



Certified Ratings:

All-Lite 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.



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

PERFORMANCE

ECD-545-BL

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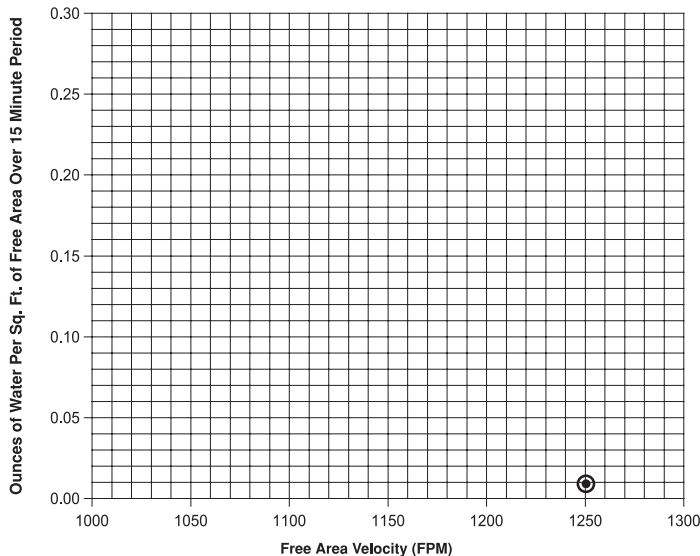
Free Area (ft²)

		Width (Inches)									
		6	12	18	24	30	36	42	48	54	60
Height (Inches)	6	0.00	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	12	0.0	0.2	0.3	0.5	0.6	0.7	0.9	1.0	1.1	1.3
	18	0.1	0.4	0.6	0.9	1.1	1.4	1.7	1.9	2.2	2.5
	24	0.1	0.5	0.9	1.3	1.7	2.1	2.5	2.9	3.3	3.7
	30	0.2	0.7	1.2	1.8	2.3	2.8	3.3	3.9	4.4	4.9
	36	0.2	0.9	1.5	2.2	2.8	3.5	4.1	4.8	5.5	6.1
	42	0.3	1.0	1.8	2.6	3.4	4.2	5.0	5.8	6.5	7.3
	48	0.3	1.2	2.1	3.1	4.0	4.9	5.8	6.7	7.6	8.5
	54	0.3	1.4	2.4	3.5	4.5	5.6	6.6	7.7	8.7	9.8
	60	0.4	1.6	2.7	3.9	5.1	6.3	7.4	8.6	9.8	11.0
	66	0.4	1.7	3.0	4.3	5.7	7.0	8.3	9.6	10.9	12.2
	72	0.5	1.9	3.3	4.8	6.2	7.7	9.1	10.5	12.0	13.4
	78	0.5	2.1	3.7	5.2	6.8	8.3	9.9	11.5	13.0	14.6
	84	0.6	2.3	4.0	5.6	7.3	9.0	10.7	12.4	14.1	15.8
	90	0.6	2.4	4.3	6.1	7.9	9.7	11.6	13.4	15.2	17.0
	96	0.7	2.6	4.6	6.5	8.5	10.4	12.4	14.3	16.3	18.2
	102	0.7	2.8	4.9	6.9	9.0	11.1	13.2	15.3	17.4	19.5
	108	0.7	3.0	5.2	7.4	9.6	11.8	14.0	16.2	18.5	20.7
	114	0.8	3.1	5.5	7.8	10.2	12.5	14.8	17.2	19.5	21.9
	120	0.8	3.3	5.8	8.2	10.7	13.2	15.7	18.1	20.6	23.1

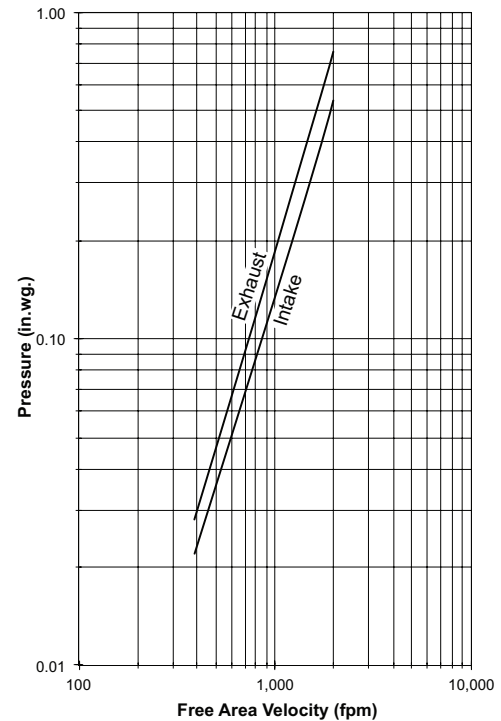
Water Penetration

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

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

Wind Velocity	Rainfall	Airflow cfm (m³/s)	Core Velocity¹ fpm (m/s)	Free Area Velocity² fpm (m/s)	Effectiveness Ratio	Wind-Driven Rain Penetration Class
29 mph	3 in/hr	7,361 (3.5)	684 (3.5)	1,511 (7.7)	99.4%	A
50 mph	8 in/hr	8,478 (4.0)	787 (4.0)	1,741 (8.8)	96.0%	B

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).

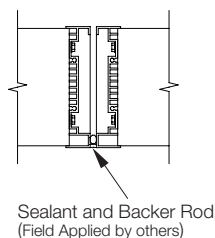
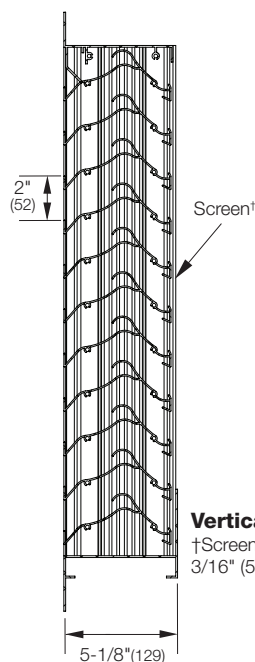
2. Free area velocity is the airflow divided by free area. Test louver free area
is 4.9 ft² (0.46 m²).

Class

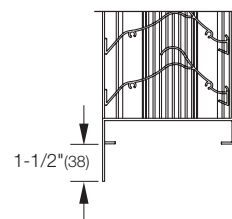
A 99% and above
B 95% to 98.9%
C 80% to 94.9%
D below 80%

Effectiveness

Attributes



Visible Vertical Mullion
(standard)



Flange Frame
(standard)

Installation

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Installation Hardware				
Part	Description	Max. Spacing (in.)	Perimeter Loading (lbs/in.)	Loading Type
A-1	Installation Angle (Included)	-	-	
F-1	Fasteners, Louver - Angle (Included)	6		
F2	Fastener, Flange (By Others)	12	200	Tensile
	Fasteners, Angle - Condition (By Others)	6	415	Shear

