WIND-DRIVEN RAIN LOUVER
MODEL LE-36

SUBMITTAL SHEET

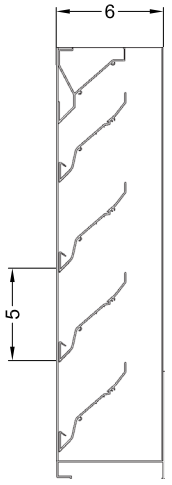
APPLICATION AND DESIGN

The LE-36 is a High Velocity Wind Driven Rain louver designed to protect building ventilation openings from extreme weather. The LE-36 has a dual blade system. The front blade is a standard 4" deep drainable blade louver, which serves as the first point of protection for both water and airborne debris, and allows the louver to carry the AMCA 540 Listing. The optional rear blade is a 2" deep wind driven rain louver. This additional louver serves as the ultimate barrier against wind driven rain and allows the LE-36 to carry the AMCA 550 Listing.

The LE-36 has been tested in accordance with AMCA 500-L Air Performance, Water Penetration and also Wind Driven Rain when the optional insert is included. The LE-36 with wind driven rain insert was tested in accordance with AMCA 550 Test Method for High Velocity Wind Driven Rain Resistant Louvers. The LE-36 was tested in accordance with AMCA 540 Test Method for Louvers Impacted by Wind Borne Debris (Basic Protection Level D).

The LE-36 achieved Florida Product Approval, which requires additional testing to TAS-202 and TAS-203.

AMCA 540/550 LISTED
MAXIMUM LOAD APPROVED FOR +/-130 PSF



Standard Section

STANDARD SPECIFICATIONS

Louver Type: Wind-Driven Rain
Louver Depth: 6"
Frame: 0.081" head and sill, 0.125" jamb
Blades: 0.081"
Blade Angle: 45°
Blade Spacing: 5"
Minimum Panel Size: 12"W x 12"H
Maximum Panel Size (mill and paint finishes): 96"W x 96"H
Maximum Panel Size (anodized finishes): 96"W x 72"H or 72"W x 96"H
Max Assembly: Unlimited

RATINGS

Free Area: 8.06 ft^2 (50.4%)
Pressure Drop at Beginning Point of Water Penetration: 0.18 in wg
Free Area Velocity at Beginning Point of Water Penetration: 946 fpm
Airflow at Beginning Point of Water Penetration: 7624 cfm

*Refer to LE-36R Supplemental Submittal Sheet for performance ratings when the wind driven rain insert is included.

Florida Product Approval # FL39160

AWV certifies that model LE-36 louver 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 ratings and water penetration ratings only.

amca INTERNATIONAL LISTED
IMPACT RESISTANT LOUVER
Basic Protection Level D
See www.AMCA.org for all certified or listed products
This label does not signify AMCA airflow performance certification.

amca INTERNATIONAL LISTED
HIGH VELOCITY RAIN RESISTANT WITH BLADES FULLY OPEN AND IMPACT RESISTANT LOUVER
Basic Protection Level D
See www.AMCA.org for all certified or listed products
This label does not signify AMCA airflow performance certification.

AWV Certifies that model LE-36 shown herein is licensed 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 Labels apply to Wind Borne Debris Impact Resistant Louvers and High Velocity Wind Driven Rain Resistant Louvers (with the optional WDR louver insert).

Rating includes Optional Pressure Cycling for High Velocity Hurricane Zones for +/- 130 psf design pressure.

TYPICAL OPTIONS

Screen:
- ☐ Bird 0.5" (1/2" Expanded aluminum)
- ☐ Bird 0.5" (0.063" Aluminum Wire Mesh
- ☐ Bird 0.5" (0.063" Stainless Wire Mesh)
- ☐ Insect Screen

Mounting Options:
- ☐ 2" x 2" Clip Angles
- ☐ 2" x 2" Perimeter Angles

Heavier Material - 0.125" 6063-T5 Extruded Aluminum:
- ☐ Blades
- ☐ Frame

Options:
- ☐ Hidden Vertical Mullions
- ☐ Sill Pan
- ☐ Sill Extensions
- ☐ Wind Driven Rain Insert

Special Shapes:

Finish Options:
- ☐ Mill
- ☐ Prime Only
- ☐ 2-coat Kynar
- ☐ 3-coat Kynar

Color:

Anodized:
- ☐ Clear (204-R1)
- ☐ Light Bronze
- ☐ Dark Bronze
- ☐ Champagne
- ☐ Clear (215-R1)
- ☐ Med. Bronze
- ☐ Black

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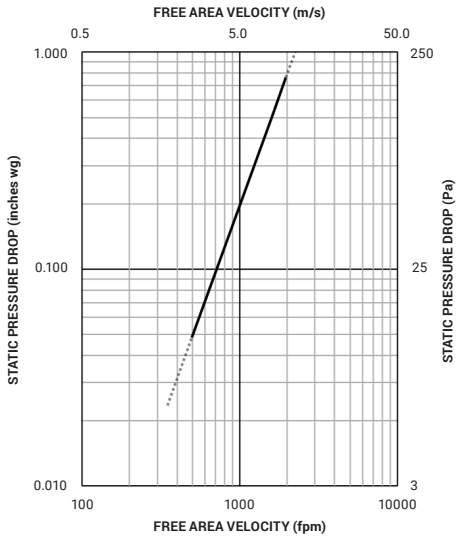
STANDARD PERFORMANCE AND OPTIONS - *NO WDR LOUVER INSERT*

FREE AREA CHART (ft^2)

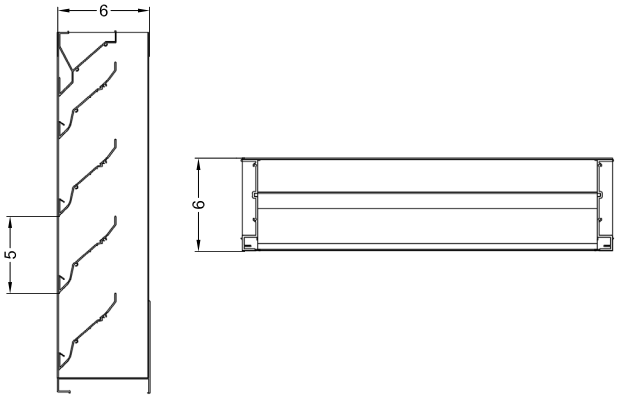
Height (inches)	Width (inches)							
	12	24	36	48	60	72	84	96
12	0.32	0.73	1.14	1.55	1.96	2.37	2.78	3.19
24	0.72	1.64	2.56	3.47	4.39	5.31	6.23	7.14
36	1.23	2.78	4.34	5.90	7.45	9.01	10.57	12.12
48	1.64	3.71	5.78	8.06	9.92	12.00	14.07	16.14
60	2.13	4.84	7.54	10.24	12.95	15.65	18.35	21.06
72	2.66	6.02	9.38	12.74	16.10	19.46	22.82	26.19
84	3.06	6.93	10.80	14.66	18.53	22.40	26.27	30.14
96	3.56	8.07	12.58	17.09	21.59	26.10	30.61	35.12

Free Area data provides a method to estimate free area velocity for a given louver size if the system airflow is known. Free area velocity is used to estimate pressure drop and water penetration.

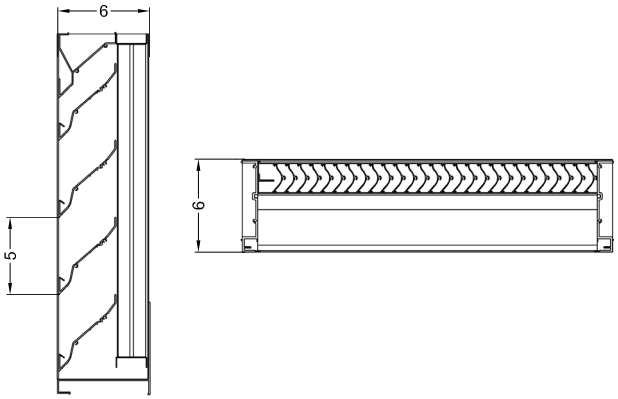
AIR PERFORMANCE



Air Performance data provides pressure drop through the louver at various free area velocities. Air performance may vary between intake and exhaust. Air performance shown is for intake only. Data has been corrected for standard air density. Data does not include the effect of a screen. Performance is based on a 48" x 48" test size per AMCA Publication 511 Figure 5.5.



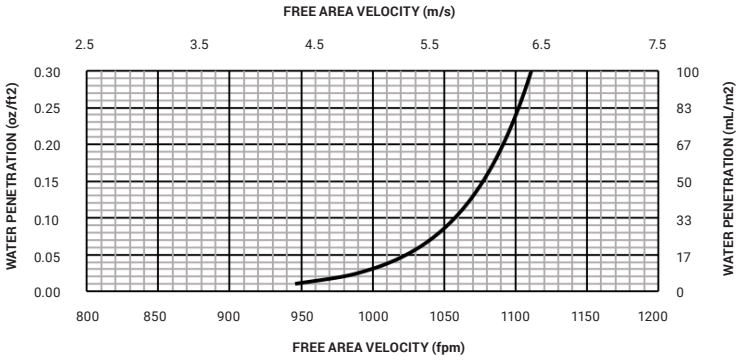
Standard Section and Plan View



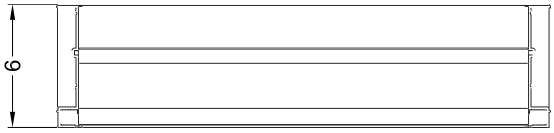
Optional Rear Blade Insert Section and Plan View

(Required for AMCA 550)

WATER PENETRATION



Water Penetration performance data provides a method for comparing different louver models effectiveness to resist water penetration when subjected to simulated rainfall in laboratory test conditions. The beginning point of water penetration for this louver is 946 fpm free area velocity. Data has been corrected for standard air density. Performance is based on a 48" x 48" test size per AMCA Publication 511.



Plan View

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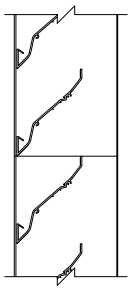
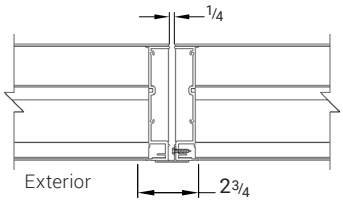
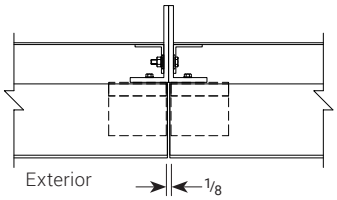
MULTIPLE PANEL MULLION DETAILS



Hidden Horizontal Mullion
(Standard Construction)

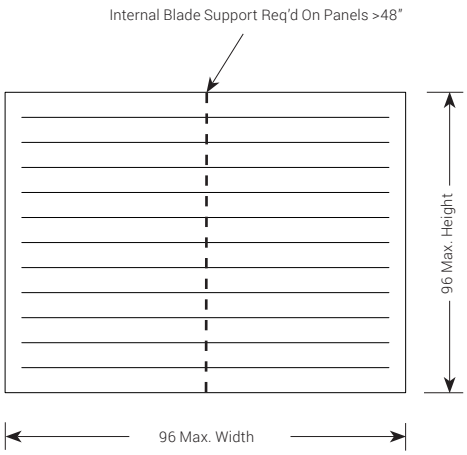


Exposed Vertical Mullion
(Standard Construction)

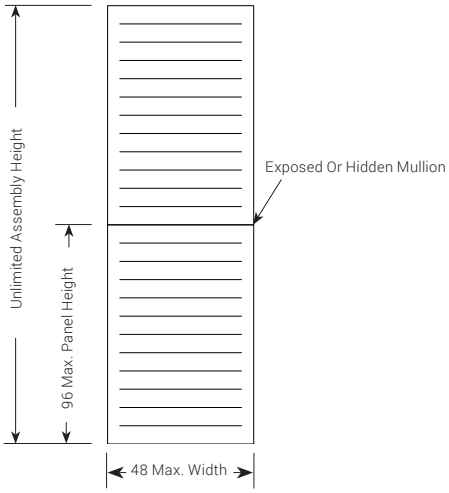


Hidden Vertical Mullion
(Optional Construction)

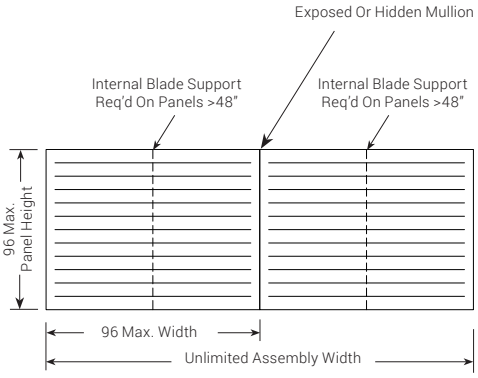
PANEL SIZE LAYOUT



Single Panel



Single Panel Wide x Multiple Panel High



Multiple Panel Wide x Single Panel High

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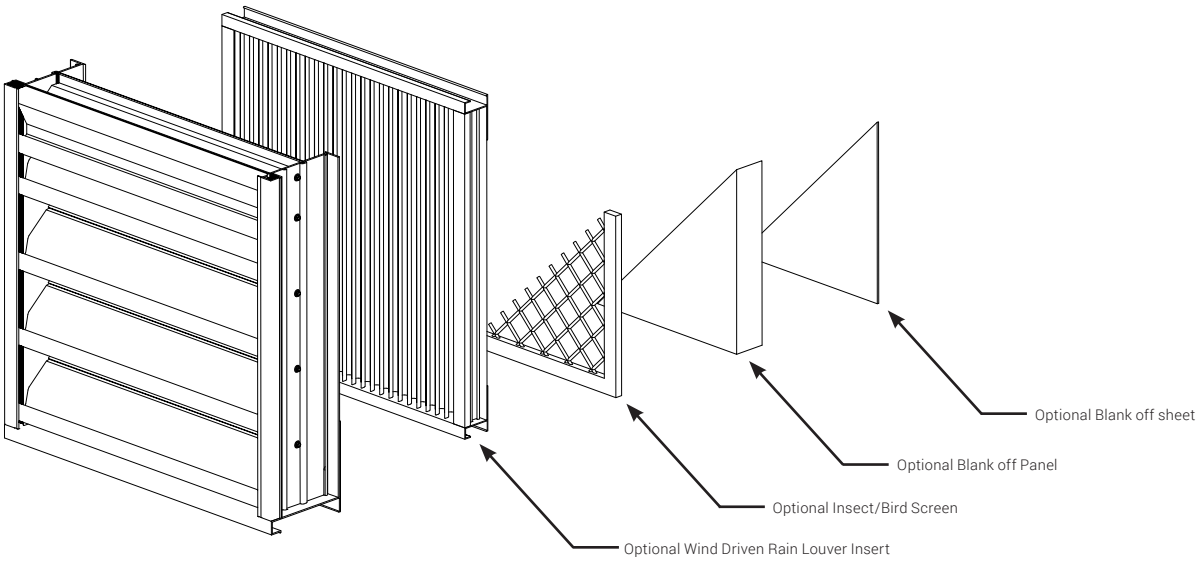
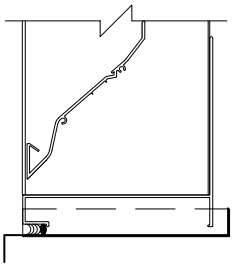
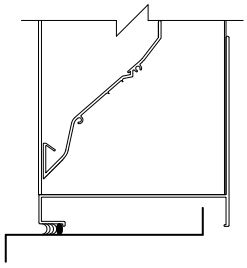
ACCESSORY OPTIONS

***Wind Driven Rain Insert is required to carry the AMCA 550 listing..*





Sill Pan
(With End Dams)



Sill Extension

AWV is headquartered in Holland, Ohio and is a division of Mestek, Inc. Our emphasis is to provide architectural products and solutions to enhance the beauty and performance of today's building designs.

AWV has more than 100 years of unsurpassed experience in the design and supply of architectural products. Our portfolio, with tens of thousands of successful projects, includes some of the largest, most complex projects in both new and renovation applications.

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