



Wind-Driven Rain Louver Vertical Blade

Application and Design

EVH6 is a Wind-Driven Rain louver designed to protect air intake and exhaust openings in building exterior walls that are sensitive to direct water penetration. Design incorporates vertical rain resistant louver blades to provide maximum resistance to wind driven rain in the most extreme weather conditions. The EVH6 is an **AMCA CERTIFIED LOUVER** enabling designers to select and apply with confidence.



Standard Construction

Frame Heavy gauge extruded 6063-T5 aluminum, 5 3/8 in. x 0.081 in. nominal wall thickness

Blades...... Vertical, rain resistant style, heavy gauge extruded 6063-T5 aluminum, 0.081 in.

nominal wall thickness, positioned on approximately 1 in. blade spacing

Construction Mechanically fastened

Birdscreen.....3/4 in. x 0.051 in. flattened expanded

aluminum in removable frame, inside

mount (rear)

Finish.....Mill

Minimum Size . . . 12 in. W x 12 in. H

Maximum Single

Section Size72 in. W x 96 in. H

Options (at additional cost)

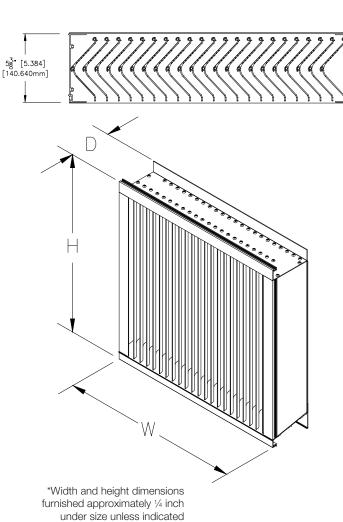
- A variety of bird and insect screens
- Blank-off panel
- Clip angles
- Extended sill
- Filter rack
- Flanged frame (head and jamb only)
- Security bars
- A variety of architectural finishes including:

Clear anodize

Integral color anodize

Baked enamel

Kynar



otherwise

PERFORMANCE DATA

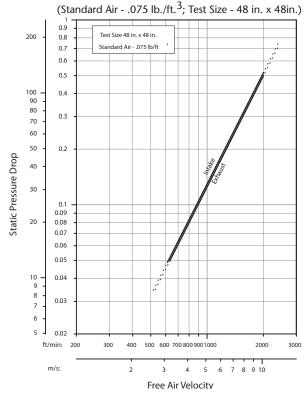
Wind-Driven Rain Performance

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75 mm/h (3 in./hr) Rainfall & 13 m/s (29 mph) Wind Velocity				202 mm/h (8 in./hr) Rainfall & 22 m/s (50 mph) Wind Velocity							
Free / Velo		Ventilation AirWaterFree AreaVentilation AirCore VelocityPenetrationVelocityCore Velocity			Water Penetration						
(fpm)	(m/s)	(fpm)	(m/s)	Class	Effective	(fpm)	(m/s)	(fpm)	(m/s)	Class	Effective
0	0	0	0.0			0	0	0			
153	0.8	98	0.5			153	0.8	98			
309	1.6	197	1.0			309	1.6	197			
463	2.4	295	1.5			463	2.4	295			
618	3.1	394	2.0			618	3.1	394			
772	3.9	492	2.5			772	3.9	492			
928	4.7	591	3.0			928	4.7	591			
1082	5.5	689	3.5			1082	5.5	689			
1236	6.3	780	4.0			1236	6.3	787			
1391	7.1	865	4.5			1391	7.1	886			
1545	7.9	991	5.0	Α	100.0	1534	7.8	960	5.0	Α	100.0

Discharge Loss Coefficient Class (Intake) = 2

Weather louvers shall be classified by their ability to reject simulated rain. The table shows different classifications based on the maximum simulated rain penetration per square meter (square feet) of louver. Water penetration rating at a given louver face velocity is determined by the water penetration while the louver is subjected to a selected simulated rainfall rate and wind velocity.

Airflow Resistance



Model EVH6 resistance to airflow (pressure drop) varies depending on louver application (air intake or air exhaust). Free area velocities (shown) are higher than average velocity through the overall louver size. See louver selection information. (Test Figure 5.5)

Wind-Driven Rain Louver **Extruded Aluminum**

Discharge Loss Coefficient Classifications					
Class	Discharge Loss Coefficient				
1	0.4 and Above				
2	0.3 to 0.399				
3	0.2 to 0.299				
4	0.199 and Below				

	Wind-driven Rain Penetration Classes				
Class	Effectiveness				
А	1 to 0.99				
В	0.989 to 0.95				
С	0.949 to 0.80				
D	Below 0.80				

WORLDWIDE CERTIFIED RATINGS WATER AIR MIUD

Greenheck Fan Corporation certifies that the EVH6 louvers shown herein are 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.

Free Area Chart (sq.ft)

Louver	Louver Width in Inches							
Height Inches	12	24	36	48	60	72		
12	0.28	0.67	1.06	1.45	1.84	2.23		
24	0.73	1.77	2.80	3.84	4.87	5.91		
36	1.19	2.87	4.55	6.23	7.91	9.59		
48	1.64	3.97	6.30	8.62	10.95	13.27		
60	2.10	5.07	8.04	11.01	13.99	16.96		
72	2.56	6.17	9.79	13.41	17.02	20.64		
84	2.93	7.07	11.22	15.36	19.51	23.65		
96	3.36	8.10	12.85	17.60	22.34	27.09		

Water Penetration

(Standard Air - .075 lb./ft.³; Test Size - 48 in. x 48 in.; Test Duration - 15 min.)

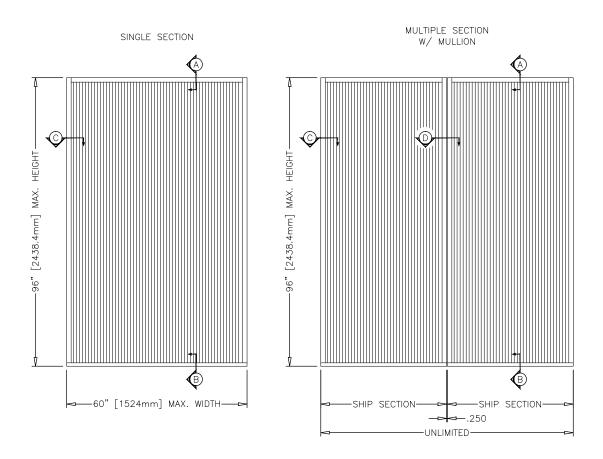
The AMCA Water Penetration Test provides a method for comparing various louver models and designs as to their efficiency in resisting the penetration of rainfall under specific laboratory test conditions. The beginning point of water penetration is defined as that velocity where the water penetration curve projects through 0.01 oz. of water (penetration) per sq. ft. of louver free area.

*The beginning point of water penetration for Model EVH6 is above 1250 fpm free area velocity. These performance ratings do not guarantee a louver to be weather-proof or stormproof and should be used in combination with other factors including good engineering judgement in selecting louvers.

Wind-Driven Rain Louver Extruded Aluminum

Maximum Size and Installation Information

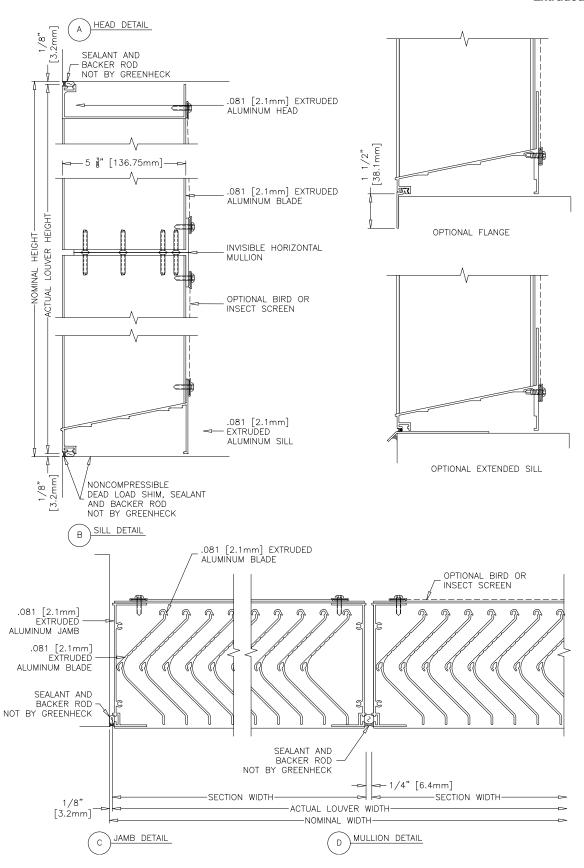
Maximum single section size for model EVH6 is 72 in. W x 96 in. H. Larger openings require field assembly of multiple louver sections to make up the overall opening size. Individual louver sections are designed to withstand a 25 PSF wind load (please consult Greenheck if the louvers must withstand higher wind-loads). Structural reinforcing members may be required to adequately support and install multiple louver sections within a large opening. Structural reinforcing members along with any associated installation hardware is not provided by Greenheck unless indicated otherwise by Greenheck. Options and accessories including, but not limited to, screens, filter racks, louver doors, and blank off panels are not subject to structural analysis unless indicated otherwise by Greenheck. Additional information on louver installation may be found in AMCA Publication #501, Louver Application Manual.



Minimum Single Section Size 12 in. W x 12 in. H Maximum Single Section Size 72 in. W x 96 in. H

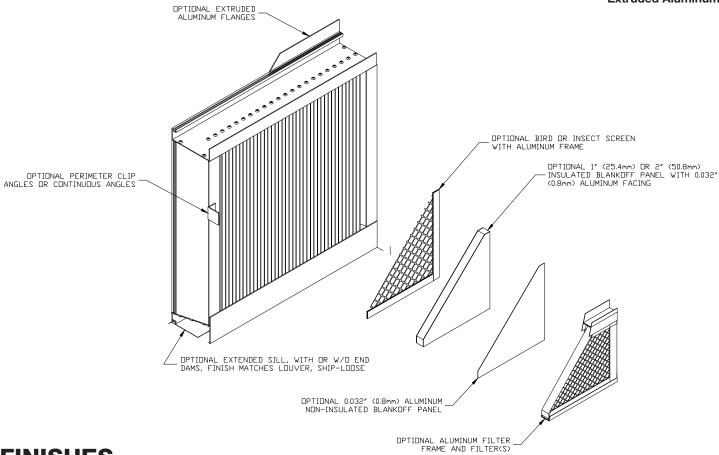


Wind-Driven Rain Louver Extruded Aluminum





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FINISHES

Finish Type	Description/Application	Color Selection	Standard Warranty (Aluminum)
AAMA 2605 100% Fluoropolymer (FEVE) 2-Coat 70% Kynar® (PVDF) 3-Coat 70% Kynar® (PVDF) 4-Coat 70% Kynar® (PVDF)	"Best." The premier finish for extruded aluminum. Tough, long-lasting coating has superior color retention and abrasive properties. Resists chalking, fading, chemical abrasion and weathering.	Standard Colors: Any of the 27 standard colors shown can be furnished in 70% or 50% Kynar®, 100% Fluoropolymer or Baked Enamel.	10 Years (20 Years Optional)
AAMA 2604 50% Kynar® / Acroflur®	"Better." Tough, long-lasting coating has excellent color retention and abrasive properties. Resists chalking, fading, chemical abrasion and weathering.	erties. Resists chalking, fading, Kynar® or 100% Fluoropolymer.	
AAMA 2603 Baked Enamel	"Good." Provides good adhesion and resistance to weathering, corrosion and chemical stain.	Custom color matching is available. Consult your Greenheck representative for cost and/or lead-time implications if a custom color is required.	1 Year
AA-M10C22A42 Integral Color Anodize	"Two-step" anodizing is produced by following the normal anodizing step with a second, colorfast process.	Light, Medium, Dark or Extra Dark Bronze; Champagne; Black	5 years
AA-M10C22A41 Clear Anodize 215 R-1	Clear, colorless and hard oxide aluminum coating that resists weathering and chemical attack.	Clear	5 years
AA-M10C22A31 Clear Anodize 204	Clear, colorless and hard oxide aluminum coating that resists weathering and chemical attack.	Clear	1 Year
Prime Coat	Louvers or architectural products shall be cleaned, pre-treated and receive a prime coat finish suitable for field painting. Greenheck does not recommend prime coat or field painting of materials.		
Mill	n/a		

Finishes meet or exceed AAMA 2605, AAMA 2604, and AAMA 2603 requirements. Please consult www.greenheck.com for complete information on standard and extended paint warranties. Paint finish warranties are not applicable to steel products.



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