



### Wind-Driven Rain Louver Vertical Blade

### **Application and Design**

EVH-602 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 a drainable head member and vertical rain resistant blades to provide maximum resistance to wind driven rain in even the most extreme weather conditions. The EVH-602 is an **AMCA CERTIFIED LOUVER** enabling designers to select and apply with confidence.



#### **Standard Construction**

**Frame . . . . .** Heavy gauge extruded 6063-T5 aluminum, 6 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 2 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 16 in. H

Maximum Single

Section Size . . . . 60 in. W x 96 in. H

#### **Options** (at additional cost)

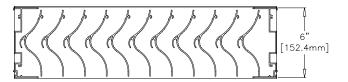
- A variety of bird and insect screens
- Blank-off panel
- Clip angles
- Extended sill
- Filter rack
- Flanged frame
- Security bars
- A variety of architectural finishes including:

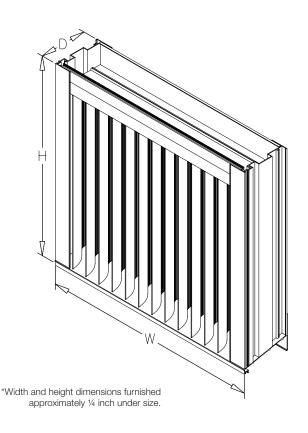
Clear anodize

Integral color anodize

Baked enamel

Kynar





# PERFORMANCE DATA

### **EVH-602**

#### **Wind-Driven Rain Performance**

#### Wind-Driven Rain Louver Extruded Aluminum

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 Area Velocity		Ventilation Air Core Velocity		Water Penetration		Free Area Velocity		Ventilation Air Core Velocity		Water Penetratio	
(fpm)	(m/s)	(fpm)	(m/s)	Class	Effective	(fpm)	(m/s)	(fpm)	(m/s)	Class Effective	
1588	8.1	868	4.4	Α	100.0						
1795	9.1	981	5.0	А	99.9	1771	9.0	968	4.9	А	100.0

Discharge Loss Coefficient Classifications							
Discharge Loss Coefficient							
0.4 and Above							
0.3 to 0.399							
0.2 to 0.299							
4 0.199 and Below							

1	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						

OMCO
WORDWIDE
CERTIFIED
RATINGS
WATER
PERFORMANCE
WI AD
DRIVER RAIS
MOVEMENT
ADD CONTROL
MITGORITOR

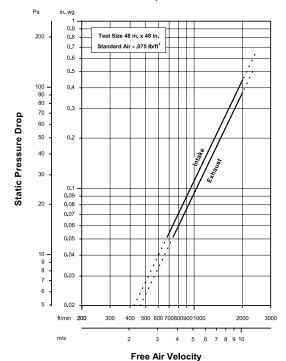
Greenheck Fan Corporation certifies that the EVH-602 louvers shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance, water

penetration, and wind-driven rain ratings.

Discharge Loss Coefficient Class (Intake) = 3

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.

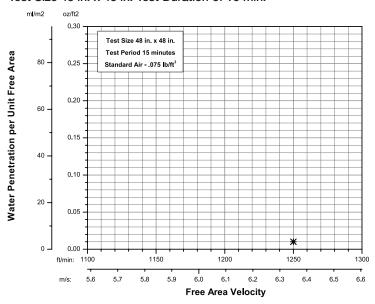
#### Airflow Resistance (Standard Air - .075 lb/ft³)



Model EVH-602 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.

#### **Water Penetration**

Test Size 48 in. x 48 in. Test Duration of 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 EVH-602 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

### Free Area Chart (sq. ft.)

Louver	Louver Width in Inches										
Height Inches	12	18	24	30	36	42	48	54	60		
16	0.24	0.40	0.62	0.79	0.93	1.10	1.26	1.48	1.65		
18	0.30	0.49	0.78	0.97	1.16	1.36	1.56	1.84	2.04		
24	0.46	0.78	1.22	1.54	1.82	2.14	2.45	2.90	3.20		
30	0.62	1.05	1.66	2.09	2.49	2.92	3.34	3.95	4.37		
36	0.80	1.34	2.11	2.65	3.15	3.70	4.24	5.01	5.54		
42	0.96	1.62	2.55	3.20	3.81	4.47	5.13	6.06	6.71		
48	1.14	1.90	3.00	3.77	4.47	5.25	6.02	7.12	7.87		
54	1.30	2.19	3.44	4.32	5.14	6.03	6.91	8.17	9.05		
60	1.46	2.47	3.88	4.87	5.80	6.81	7.80	9.22	10.22		
66	1.64	2.75	4.33	5.44	6.47	7.59	8.70	10.28	11.38		
72	1.80	3.03	4.77	5.99	7.14	8.36	9.59	11.33	12.55		
78	1.98	3.32	5.22	6.55	7.79	9.14	10.48	12.39	13.72		
84	2.14	3.60	5.66	7.11	8.46	9.92	11.37	13.44	14.89		
90	2.31	3.88	6.10	7.67	9.12	10.70	12.27	14.50	16.05		
96	2.48	4.17	6.55	8.22	9.79	11.48	13.17	15.55	17.22		

## Core Area Chart (sq. ft.)

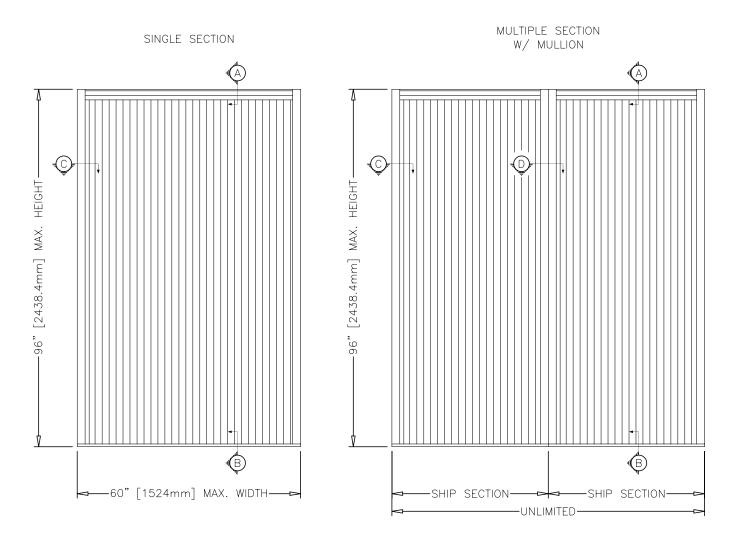
Louver	Louver Width in Inches										
Height Inches	12	18	24	30	36	42	48	54	60		
16	0.45	0.83	1.22	1.60	1.98	2.36	2.75	3.13	3.51		
18	0.56	1.04	1.51	1.98	2.45	2.92	3.40	3.87	4.34		
24	0.89	1.64	2.37	3.12	3.86	4.60	5.35	6.09	6.84		
30	1.21	2.22	3.24	4.26	5.26	6.28	7.29	8.31	9.33		
36	1.54	2.82	4.11	5.39	6.67	7.96	9.24	10.53	11.82		
42	1.86	3.41	4.97	6.52	8.08	9.64	11.19	12.75	14.30		
48	2.19	4.01	5.84	7.66	9.49	11.32	13.14	14.97	16.79		
54	2.50	4.60	6.71	8.80	10.90	12.99	15.09	17.19	19.28		
60	2.83	5.20	7.57	9.93	12.31	14.67	17.04	19.41	21.77		
66	3.15	5.80	8.43	11.07	13.71	16.35	18.99	21.62	24.27		
72	3.48	6.39	9.29	12.21	15.12	18.03	20.94	23.84	26.76		
78	3.80	6.99	10.16	13.35	16.52	19.71	22.89	26.06	29.25		
84	4.13	7.58	11.03	14.48	17.93	21.38	24.83	28.28	31.74		
90	4.45	8.17	11.89	15.62	19.34	23.06	26.78	30.51	34.23		
96	4.78	8.76	12.76	16.75	20.75	24.74	28.73	32.73	36.71		



Wind-Driven Rain Louver Extruded Aluminum

#### **Maximum Size and Installation Information**

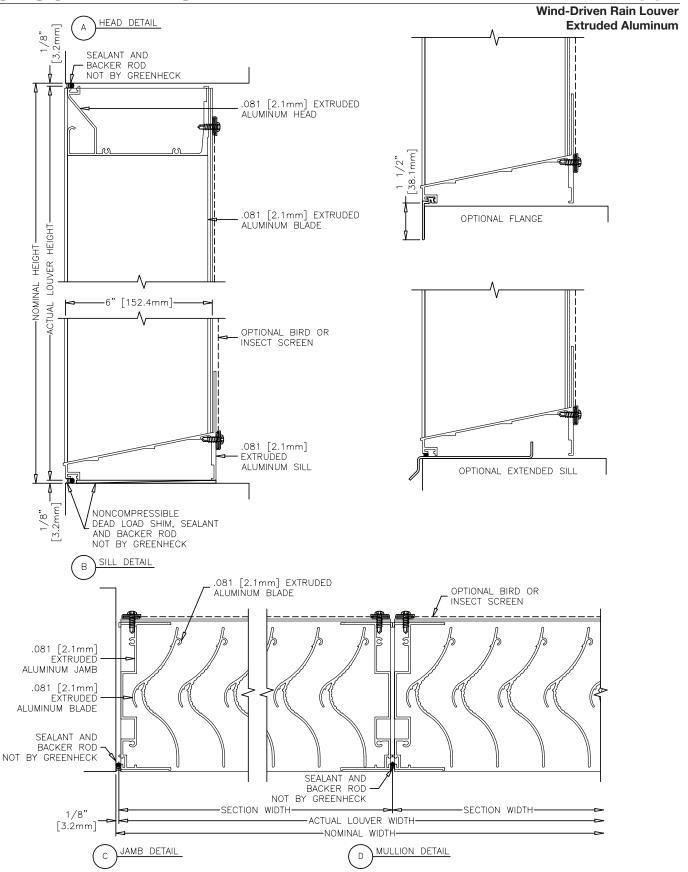
Maximum single section size for model EVH-602 is 60 in. W x 96 in. H. Larger openings require field assembly of multiple louver sections to make up the overall opening size. Individual louver sections are designed to withstand a 25 PSF wind load (please consult Greenheck if the louvers must withstand 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 16 in. H

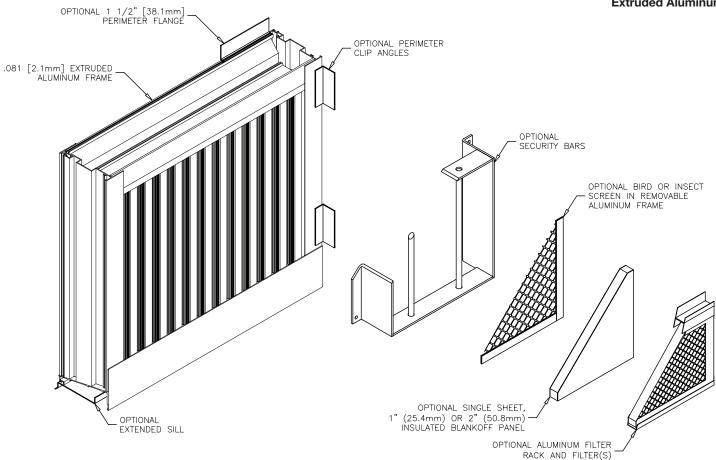
Maximum Single Section Size 60 in. W x 96 in. H







Wind-Driven Rain Louver Extruded Aluminum



# **FINISHES**

Finish Type	Description/Application	Color Selection	Standard Warranty (Aluminum)	
2-coat 70% KYNAR 500®/HYLAR 5000® AAMA 2605 – Dry film thickness 1.2 mil. (AKA: Duranar®, Fluoropon®, Trinar®, Flouropolymer, Polyvinylidene Fluoride, PVDF2)	"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 24 standard colors shown can be furnished in 70% or 50% KYNAR 500®/HYLAR 5000® or Baked Enamel.	10 Years (Consult Greenheck for availability of extended warranty)	
2-coat 50% KYNAR 500@/HYLAR 5000@ AAMA 2604 – Dry film thickness 1.2 mil. (AKA: Acroflur@, Acrynar®)	"Better." Tough, long-lasting coating has excellent color retention and abrasive properties. Resists chalking, fading, chemical abrasion and weathering.	2-Coat Mica: Greenheck offers 9 standard 2-coat Mica colors. Other colors are available. Consult Greenheck for possible extra cost when selecting	5 Years	
Baked Enamel AAMA 2603 – Dry film thickness 0.8 mil. (AKA: Acrabond Plus®, Duracron®)	"Good." Provides good adhesion and resistance to weathering, corrosion and chemical stain.	non-standard colors or special finishes.	1 Year	
Integral Color Anodize AA-M10C22A42 (>0.7 mil)	"Two-step" anodizing is produced by following the normal anodizing step with a second, colorfast process.	Light, Medium or Dark Bronze; Champagne; Black	5 years	
Clear Anodize 215 R-1 AA-M10C22A41 (>0.7 mil)	Clear, colorless and hard oxide aluminum coating that resists weathering and chemical attack.	Clear	5 years	
Clear Anodize 204 R-1 AA-M10C22A31 (0.4-0.7 mil)	Clear, colorless and hard oxide aluminum coating that resists weathering and chemical attack.	Clear	1 Year	
Industrial coatings	Greenheck offers a number of industrial coatings such as Hi-P Consult a Greenheck Product Specialist for complete color and	Consult Greenheck		
Mill	Materials may be supplied in natural aluminum or galvanized s acceptable and there is no concern for color or color change.	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.



EVH-602 September 2018 Copyright © 2018 Greenheck Fan Corporation