



Wind-Driven Rain Louver Horizontal Blade

Application and Design

EHH-201 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 horizontal rain resistant blades to provide maximum resistance to wind driven rain in even the most extreme weather conditions. The EHH-201 is an **AMCA CERTIFIED LOUVER** enabling designers to select and apply with confidence.

Standard Construction

Blades..........Horizontal rain resistant style, heavy gauge extruded 6063-T5 aluminum, 0.063 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

Sill Pan0.063 formed aluminum

Minimum Size...6 in. W x 6 in. H

Maximum Single

Section Size96 in. W x 84 in. H

Options (at additional cost)

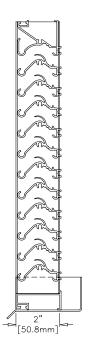
- · A variety of bird and insect screens
- Blank-off panel
- Clip angles
- Filter rack
- Flanged frame (head and jamb only)
- Security bars
- A variety of architectural finishes including:

Clear anodize

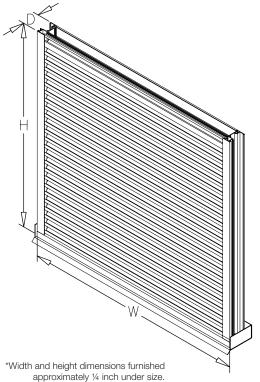
Integral color anodize

Baked enamel

Kynar







Wind-Driven Rain Louver Extruded Aluminum

Wind-Driven Rain Performance

	75mm/h (3 in 13 m/s (29 mpł			200mm/h (8 in/hr) Rainfall & 22 m/s (50 mph) Wind Velocity					
Ventilation Air Core Velocity m/s (fpm)	Ventilation Air Free Area Velocity m/s (fpm)	Water Penetration Effectiveness %	Water Penetration Classification	Ventilation Air Core Velocity m/s (fpm)	Ventilation Air Free Area Velocity m/s (fpm)	Water Penetration Effectiveness %	Water Penetration Classification		
0.0 (0)	0.0 (0)	99.9	А	0.0 (0)	0.0 (0)	99.8	А		
0.7 (131)	1.6 (307)	99.4	А	0.5 (103)	1.2 (241)	99.4	А		
1.0 (189)	2.2 (442)	99.3	А	1.0 (189)	2.2 (442)	98.5	В		
1.4 (280)	3.3 (655)	97.8	В	1.5 (291)	3.5 (681)	95.6	В		
1.9 (381)	4.5 (892)	93.2	С	2.0 (401)	4.8 (938)	91.8	С		
2.4 (463)	5.5 (1083)	87.7	С	2.5 (500)	5.9 (1170)	87.7	С		
2.9 (578)	6.9 (1353)	77.4	D	2.9 (570)	6.8 (1334)	87.2	С		
3.5 (685)	8.1 (1603)	69.0	D	3.5 (681)	8.1 (1594)	75.9	D		

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.

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							

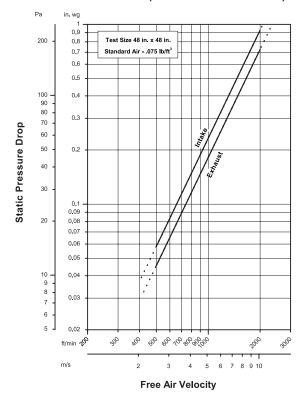
Wind-driven Rain Penetration Classes								
Class	Effectiveness							
А	1 to 0.99							
В	0.989 to 0.95							
О	0.949 to 0.80							
D	Below 0.80							



Greenheck Fan Corporation certifies that the EHH-201 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.

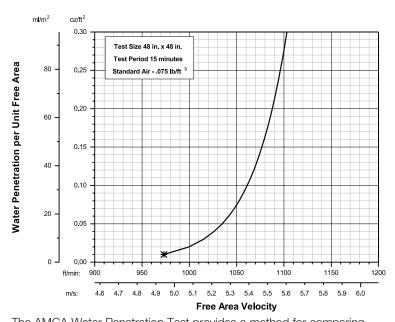
Airflow Resistance (Standard Air - .075 lb/ft3)



Model EHH-201 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 5.5-6.5)

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 .01 oz. of water (penetration) per sq. ft. of louver free area. *The beginning point of water penetration for Model EHH-201 is 973 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.



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Free Area Chart (sq. ft.)

Louver		Louver Width in Inches														
Height Inches	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
6	0.03	0.08	0.13	0.18	0.24	0.29	0.34	0.39	0.43	0.48	0.53	0.58	0.62	0.67	0.72	0.77
12	0.09	0.25	0.40	0.55	0.71	0.86	1.01	1.17	1.28	1.43	1.59	1.74	1.86	2.01	2.16	2.32
18	0.16	0.44	0.71	0.98	1.26	1.53	1.80	2.07	2.28	2.55	2.82	3.10	3.30	3.57	3.85	4.12
24	0.23	0.60	0.98	1.35	1.73	2.10	2.48	2.85	3.13	3.51	3.88	4.26	4.54	4.91	5.29	5.66
30	0.29	0.77	1.24	1.72	2.20	2.67	3.15	3.63	3.99	4.46	4.94	5.42	5.78	6.25	6.73	7.21
36	0.36	0.96	1.55	2.15	2.75	3.34	3.94	4.54	4.98	5.58	6.18	6.77	7.22	7.82	8.41	9.01
42	0.42	1.12	1.82	2.52	3.22	3.92	4.61	5.31	5.84	6.54	7.23	7.93	8.46	9.16	9.85	10.55
48	0.49	1.31	2.13	2.95	3.77	4.58	5.40	6.22	6.83	7.65	8.47	9.29	9.90	10.72	11.54	12.36
54	0.56	1.48	2.40	3.32	4.24	5.16	6.08	7.00	7.69	8.61	9.53	10.45	11.14	12.06	12.98	13.90
60	0.62	1.64	2.66	3.69	4.71	5.73	6.75	7.78	8.54	9.56	10.59	11.61	12.38	13.40	14.42	15.44
66	0.69	1.83	2.97	4.12	5.26	6.40	7.54	8.68	9.54	10.68	11.82	12.96	13.82	14.96	16.10	17.25
72	0.75	2.00	3.24	4.48	5.73	6.97	8.22	9.46	10.39	11.64	12.88	14.13	15.06	16.30	17.55	18.79
78	0.82	2.19	3.55	4.91	6.28	7.64	9.00	10.37	11.39	12.75	14.12	15.48	16.50	17.87	19.23	20.59
84	0.89	2.35	3.82	5.28	6.75	8.21	9.68	11.14	12.24	13.71	15.17	16.64	17.74	19.21	20.67	22.14

Core Area Chart (sq. ft.)

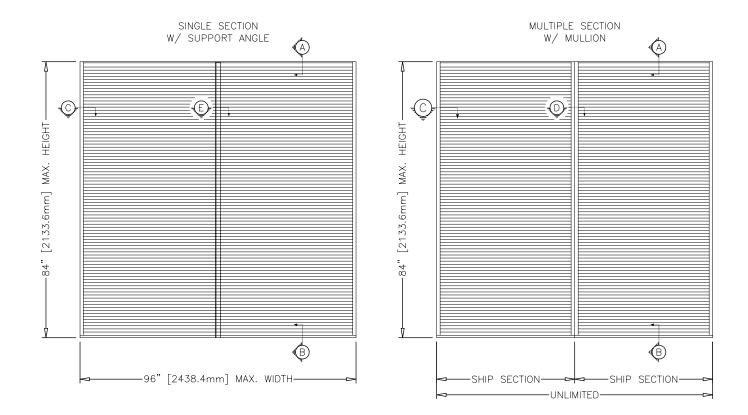
Louver		Louver Width in Inches														
Height Inches	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
6	0.09	0.24	0.39	0.54	0.70	0.85	1.00	1.15	1.30	1.45	1.60	1.75	1.90	2.05	2.21	2.36
12	0.24	0.64	1.04	1.45	1.85	2.25	2.65	3.05	3.45	3.85	4.25	4.65	5.05	5.46	5.86	6.26
18	0.39	1.04	1.70	2.35	3.00	3.65	4.30	4.95	5.60	6.25	6.90	7.55	8.21	8.86	9.51	10.16
24	0.54	1.45	2.35	3.25	4.15	5.05	5.95	6.85	7.75	8.65	9.55	10.46	11.36	12.26	13.16	14.06
30	0.70	1.85	3.00	4.15	5.30	6.45	7.60	8.75	9.90	11.05	12.21	13.36	14.51	15.66	16.81	17.96
36	0.85	2.25	3.65	5.05	6.45	7.85	9.25	10.65	12.05	13.46	14.86	16.26	17.66	19.06	20.46	21.86
42	1.00	2.65	4.30	5.95	7.60	9.25	10.90	12.55	14.21	15.86	17.51	19.16	20.81	22.46	24.11	25.76
48	1.15	3.05	4.95	6.85	8.75	10.65	12.55	14.46	16.36	18.26	20.16	22.06	23.96	25.86	27.76	29.66
54	1.30	3.45	5.60	7.75	9.90	12.05	14.21	16.36	18.51	20.66	22.81	24.96	27.11	29.26	31.41	33.57
60	1.45	3.85	6.25	8.65	11.05	13.46	15.86	18.26	20.66	23.06	25.46	27.86	30.26	32.66	35.07	37.47
66	1.60	4.25	6.90	9.55	12.21	14.86	17.51	20.16	22.81	25.46	28.11	30.76	33.41	36.07	38.72	41.37
72	1.75	4.65	7.55	10.46	13.36	16.26	19.16	22.06	24.96	27.86	30.76	33.66	36.57	39.47	42.37	45.27
78	1.90	5.05	8.21	11.36	14.51	17.66	20.81	23.96	27.11	30.26	33.41	36.57	39.72	42.87	46.02	49.17
84	2.05	5.46	8.86	12.26	15.66	19.06	22.46	25.86	29.26	32.66	36.07	39.47	42.87	46.27	49.67	53.07



Wind-Driven Rain Louver Extruded Aluminum

Maximum Size and Installation Information

Maximum single section size for model EHH-201 is 96 in. W x 84 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.

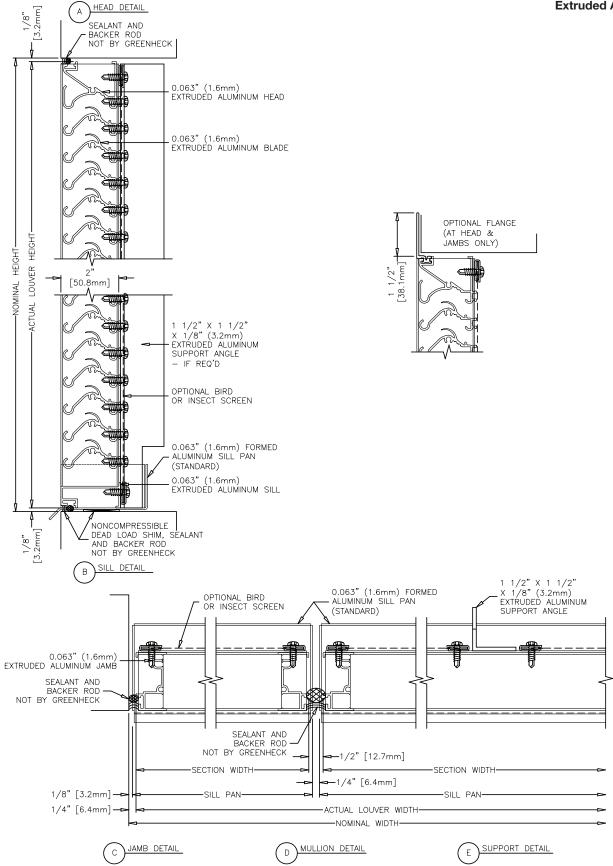


Minimum Single Section Size 6 in. W x 6 in. H

Maximum Single Section Size 96 in. W x 84 in. H

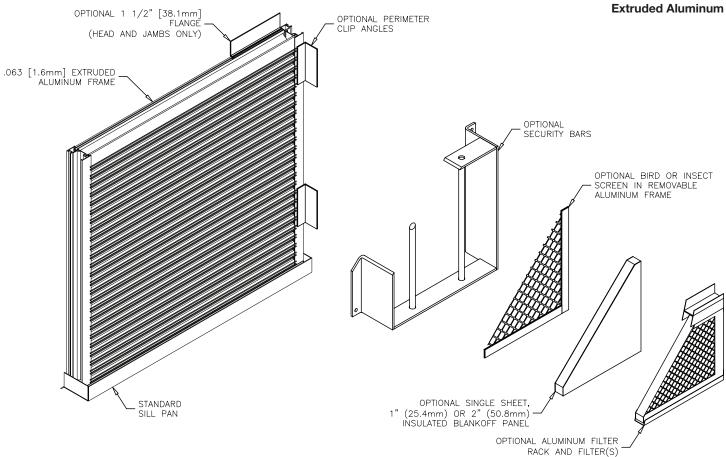


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Wind-Driven Rain Louver



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.	Mica Colors: Greenheck offers 6 standard Mica colors for 70% Kynar® or 100% Fluoropolymer. Custom Colors:	5 Years
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-treater painting. Greenheck does not recommend prime coat or field	n/a	
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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