

Air Flow Company, Inc.

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EA-545VHP

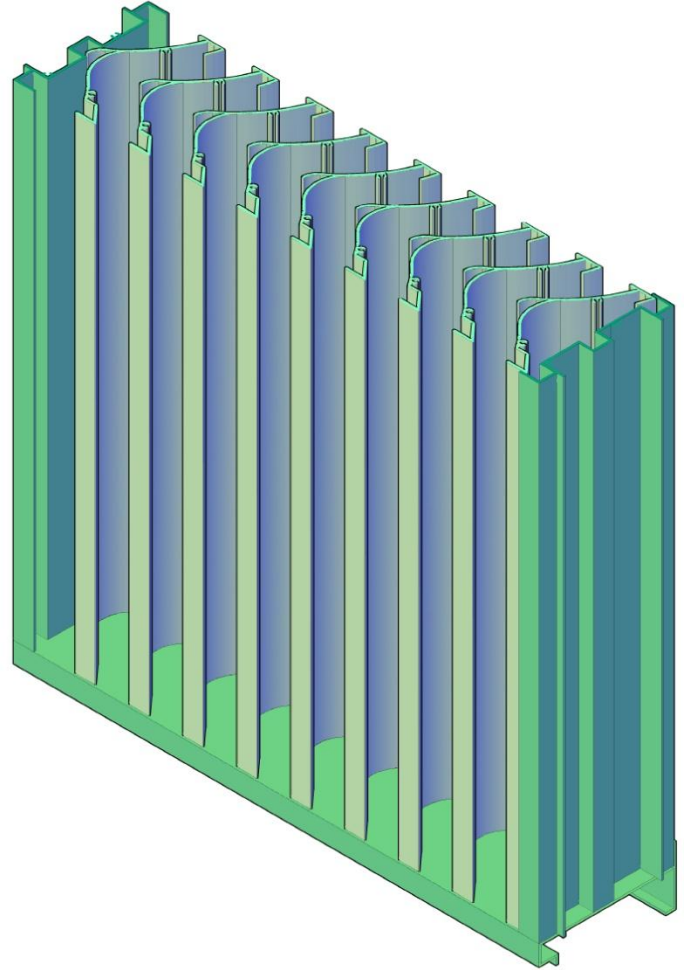
5" Vertical Wind Driven,
 High Performance Sight
 Proof Louver

Standard Louver Construction

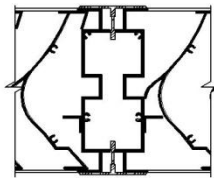
✓ Frame	Channel
✓ Frame Thickness	.081" extruded aluminum 6063-T5
✓ Blades Thickness	.081" extruded aluminum 6063-T5
✓ Blade Positioning	2" spacing center to center
✓ Fasteners	3/16" plated steel screw
✓ Screen	.050" x 3/4" expanded aluminum without frame
✓ Finish	Mill
✓ Undersized	1/4" under opening sizes
✓ Mullions	Invisible
✓ Minimum Size	12" x 12"
✓ Maximum Single Section	120" x 84" or 84" x 120"

Optional Construction

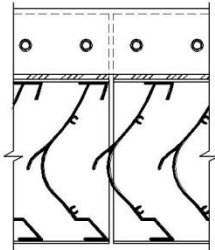
Frames	Channel .125" extruded aluminum 6063-T5
Blades	.125" extruded aluminum 6063-T5
Fasteners	Welded Construction Stainless Steel Fasteners
Screen	.063" x 1/2" wire mesh Bird Screen 18 x 16 Insect screen
Finish	Prime coat
	Baked enamel
	Powder coat
	Kynar 500 2 Coat 3 Coat Anodized Clear Color
Mullions	Visible Flange
Frame Accessories	Pan
	Extended sill



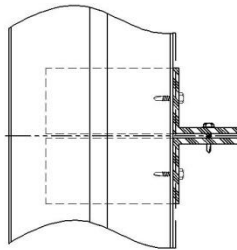
Air Flow Company Inc. certifies that the model: EA-545VHP louver shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests & procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance, water penetration and wind driven rain ratings only. (Louver tested without bird screen)



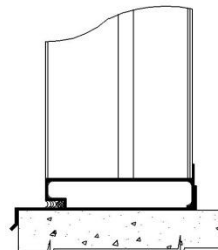
Exposed Mullion



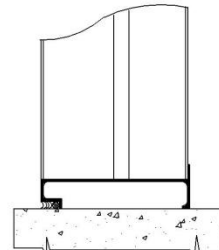
Invisible Mullion



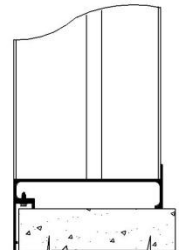
Hor. Invisible Mullion



Channel W/sill



Channel Frame



Flanged (1-1/2")

Louver Schedule

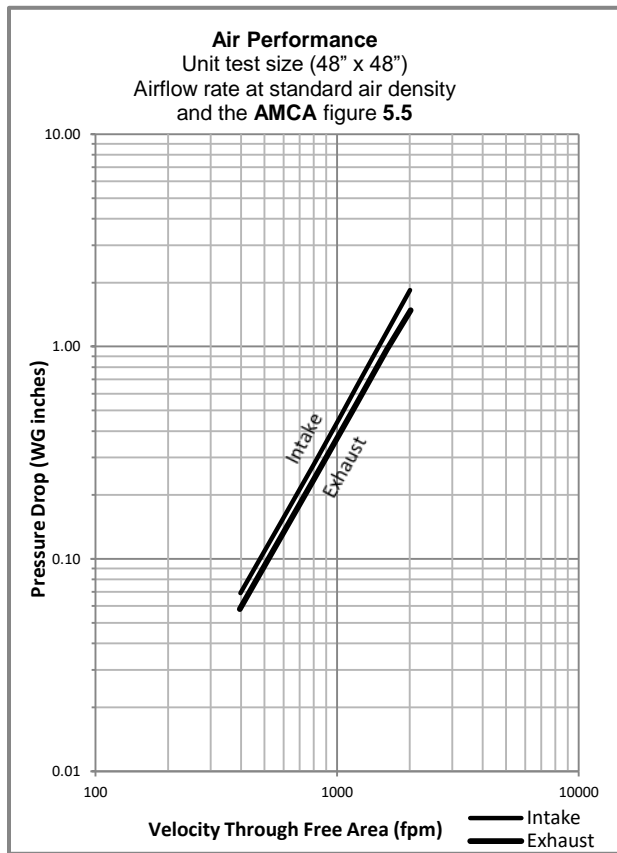
Item	Qty	Opening Size (W x H)	Notes	Project:
				Location:
				Arch/Eng:
				Customer:

EA-545VHP

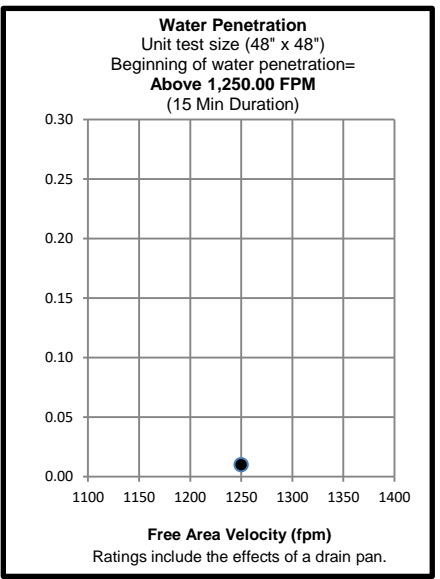
5" Vertical Wind Driven, High Performance Sight Proof Louver

Free Area Calculations (Sq. ft.)

		W I D T H (inches)														
		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
H E I G H T (inches)	12	0.31	0.52	0.67	0.88	1.09	1.25	1.45	1.66	1.82	2.02	2.23	2.44	2.59	2.80	3.01
	18	0.47	0.81	1.07	1.42	1.77	2.03	2.37	2.72	2.98	3.32	3.67	4.01	4.27	4.62	4.96
	24	0.73	1.21	1.57	2.06	2.54	2.91	3.39	3.87	4.24	4.72	5.20	5.69	6.05	6.54	7.02
	30	0.93	1.56	2.02	2.65	3.27	3.74	4.36	4.98	5.45	6.07	6.69	7.31	7.78	8.40	9.03
	36	1.06	1.82	2.39	3.15	3.91	4.48	5.24	6.01	6.58	7.34	8.10	8.86	9.43	10.19	10.95
	42	1.35	2.25	2.92	3.82	4.72	5.40	6.29	7.19	7.87	8.77	9.67	10.57	11.24	12.14	13.04
	48	1.56	2.59	3.37	4.41	5.45	6.23	7.26	8.30	9.08	10.12	11.15	12.19	12.97	14.01	15.04
	54	1.68	2.86	3.74	4.92	6.09	6.97	8.15	9.33	10.21	11.38	12.56	13.73	14.62	15.79	16.97
	60	1.97	3.29	4.27	5.59	6.90	7.89	9.20	10.51	11.50	12.81	14.13	15.44	16.43	17.74	19.06
	66	2.18	3.63	4.72	6.17	7.63	8.72	10.17	11.62	12.71	14.16	15.61	17.07	18.16	19.61	21.06
	72	2.34	3.93	5.12	6.71	8.30	9.49	11.09	12.68	13.87	15.46	17.05	18.64	19.84	21.43	23.02
	78	2.28	4.01	5.30	7.03	8.76	10.06	11.79	13.52	14.82	16.54	18.27	20.00	21.30	23.03	24.76
	84	2.80	4.67	6.07	7.94	9.80	11.21	13.07	14.94	16.34	18.21	20.08	21.94	23.34	25.21	27.08
	90	3.01	5.01	6.52	8.52	10.53	12.04	14.04	16.05	17.55	19.56	21.56	23.57	25.07	27.08	29.08
	96	2.91	5.05	6.66	8.80	10.95	12.56	14.70	16.84	18.45	20.60	22.74	24.88	26.49	28.64	30.78
	102	3.42	5.71	7.42	9.70	11.98	13.70	15.98	18.26	19.97	22.25	24.54	26.82	28.53	30.81	33.10
108	3.63	6.05	7.87	10.29	12.71	14.53	16.95	19.37	21.18	23.60	26.02	28.44	30.26	32.68	35.10	
114	3.57	6.12	8.04	10.60	13.16	15.08	17.64	20.20	22.12	24.68	27.24	29.80	31.72	34.28	36.83	
120	4.05	6.74	8.77	11.46	14.16	16.19	18.88	21.58	23.60	26.30	29.00	31.70	33.72	36.42	39.11	



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- ◆ To determine the pressure drop of a louver: Calculate the Velocity thru free area; divide the required CFM (volume of air) by the required free area chart above. The pressure drop is expressed in (inches w.g.)
- ◆ To determine the minimum free area required for louver: Divide the required CFM (volume of air) by the free area velocity before water penetration, then select the most desirable louver size from the free area chart above.
- ◆ To determine the maximum CFM (volume), knowing the louver size: Multiply the required free area (see free area chart above) by maximum velocity thru free area.

Wind Driven Rain Performance															
Rainfall 3"/hour @ 29 mph Wind Velocity	Ventilation Rate (Core) fpm:		0	110	195	279	396	497	588	704	781	895	893	Class	Discharge Loss Coefficient
	Water Penetration	Effectiveness %:	100	100	100	100	100	100	100	100	99.9	99.8	99.5		
		Classification:	A	A	A	A	A	A	A	A	A	A	A	B	1
Rainfall 8"/hour @ 50 mph Wind Velocity	Ventilation Rate (Core) fpm:		0	88	199	301	400	485	590	689	795	885	987	Class	Discharge Loss Coefficient
	Water Penetration	Effectiveness %:	100	100	100	100	100	100	100	100	100	99.7	99.0		
		Classification:	A	A	A	A	A	A	A	A	A	A	A	B	4
*Louver test was based on a 39.375" x 39.375" (1m x 1m) core area.							*Discharge Loss Coefficient, C _D -4"								