

# Air Flow Company, Inc.

850 W. Fullerton Ave. • Addison, IL 60101  
 Tel (630) 628-1138 Fax (630) 628-1149

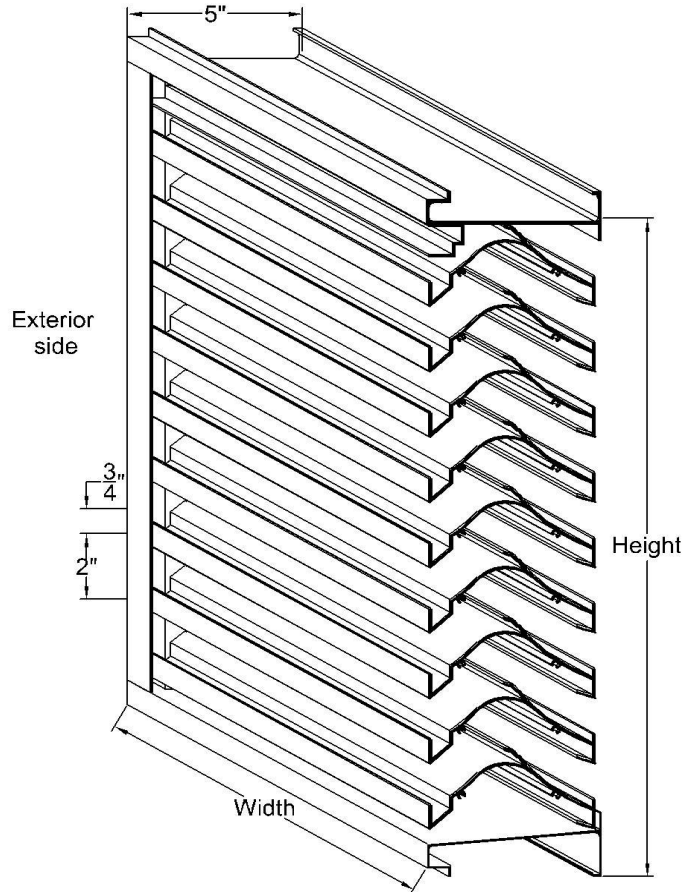
## EA-545HP 5" High Performance Wind Driven, Drainable Sight Proof Louver

### Standard Louver Construction

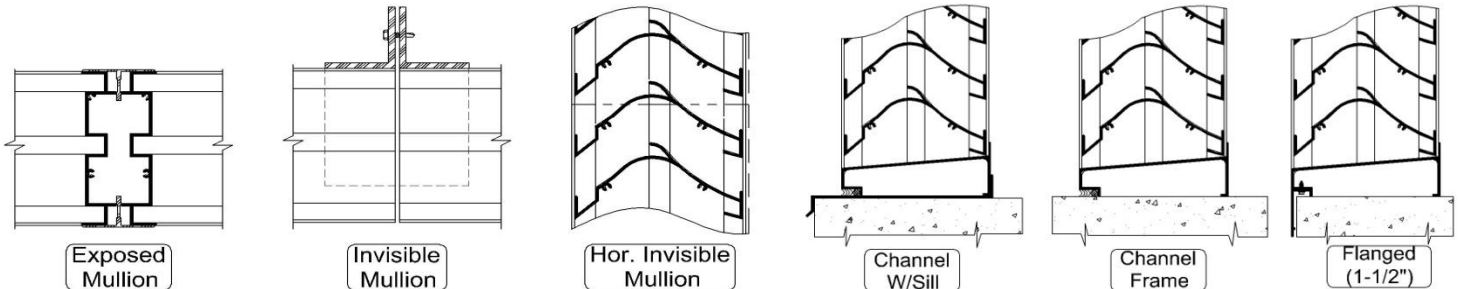
✓ Frame	Channel
✓ Frame Thickness	.081" extruded aluminum 6063-T5
✓ Blades Thickness	.081" extruded aluminum 6063-T5
✓ Blade Positioning	2" spacing center to center
✓ Fasteners	3/16" plated steel screw
✓ Screen	.050" x 3/4" expanded aluminum without frame
✓ Finish	Mill
✓ Undersized	1/4" under opening 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-545HP 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)



### Louver Schedule

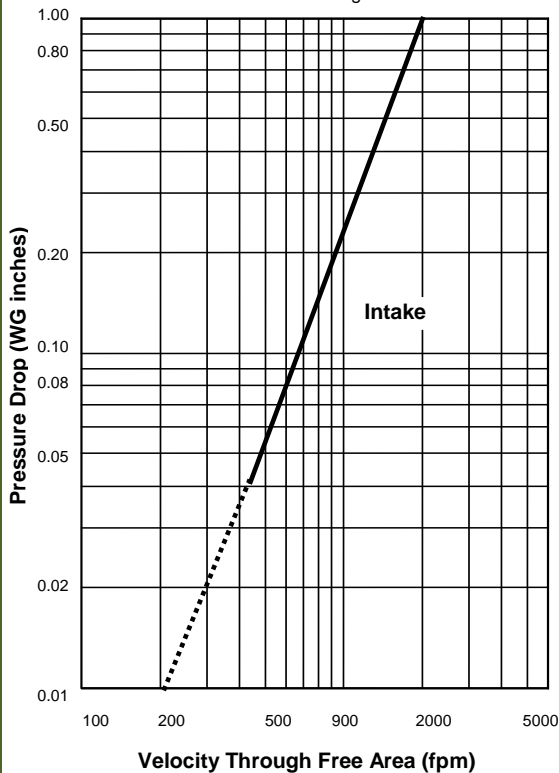
Item	Qty	Opening Size (W x H)	Notes	Project:

#### Free Area Calculations (Sq. ft.)

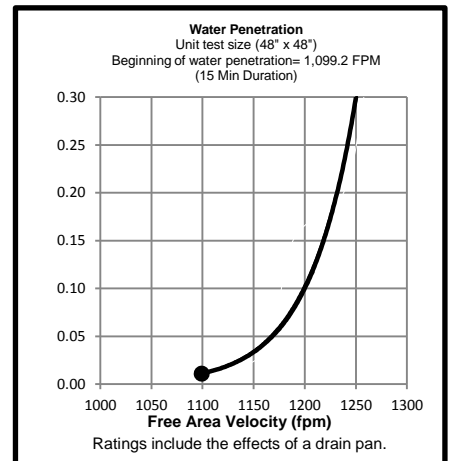
HEIGHT (inches)	WIDTH (inches)														
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
12	0.26	0.40	0.55	0.70	0.84	0.99	1.14	1.28	1.43	1.58	1.72	1.87	2.02	2.16	2.31
18	0.51	0.81	1.10	1.39	1.69	1.98	2.27	2.57	2.86	3.15	3.45	3.74	4.03	4.33	4.62
24	0.71	1.11	1.51	1.92	2.32	2.72	3.13	3.53	3.93	4.34	4.74	5.14	5.55	5.95	6.35
30	0.90	1.41	1.93	2.44	2.95	3.47	3.98	4.49	5.01	5.52	6.03	6.55	7.06	7.57	8.09
36	1.16	1.82	2.48	3.14	3.80	4.46	5.12	5.78	6.44	7.10	7.76	8.42	9.08	9.74	10.40
42	1.35	2.12	2.89	3.66	4.43	5.20	5.97	6.74	7.51	8.28	9.05	9.82	10.59	11.36	12.13
48	1.54	2.42	3.30	4.18	5.06	5.94	6.82	7.70	8.58	9.46	10.34	11.22	12.10	12.98	13.86
54	1.80	2.82	3.85	4.88	5.90	6.93	7.96	8.98	10.01	11.04	12.06	13.09	14.12	15.14	16.17
60	1.99	3.13	4.26	5.40	6.54	7.67	8.81	9.95	11.08	12.22	13.36	14.49	15.63	16.77	17.90
66	2.18	3.43	4.68	5.92	7.17	8.42	9.66	10.91	12.16	13.40	14.65	15.90	17.14	18.39	19.64
72	2.37	3.73	5.09	6.44	7.80	9.16	10.51	11.87	13.23	14.58	15.94	17.30	18.65	20.01	21.37
78	2.63	4.13	5.64	7.14	8.64	10.15	11.65	13.15	14.66	16.16	17.66	19.17	20.67	22.17	23.68
84	2.82	4.44	6.05	7.66	9.28	10.89	12.50	14.12	15.73	17.34	18.95	20.57	22.18	23.80	25.41
90	3.02	4.74	6.46	8.19	9.91	11.63	13.36	15.08	16.80	18.53	20.25	21.97	23.70	25.42	27.14
96	3.27	5.14	7.01	8.88	10.75	12.62	14.49	16.36	18.23	20.10	21.97	23.84	25.71	27.58	29.45
102	3.47	5.45	7.43	9.41	11.39	13.37	15.35	17.33	19.31	21.29	23.27	25.25	27.23	29.21	31.19
108	3.66	5.75	7.84	9.93	12.02	14.11	16.20	18.29	20.38	22.47	24.56	26.65	28.74	30.83	32.92
114	3.91	6.15	8.39	10.62	12.86	15.10	17.33	19.57	21.81	24.04	26.28	28.52	30.75	32.99	35.23
120	4.11	6.45	8.80	11.15	13.49	15.84	18.19	20.53	22.88	25.23	27.57	29.92	32.27	34.61	36.96

#### Air Performance

Unit test size (48" x 48")  
 Airflow rate at standard air density  
 and the AMCA figure 5.5



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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	0	0	283	377	469	587	695	783	872	990	Class	Discharge Loss Coefficient	
	Water Penetration	Effectiveness %:	100	100	100	100	99.6	98.0	86.2	71.6	54.3	32.6			18.8
		Classification:	A	A	A	A	A	B	C	D	D	D	D		
Rainfall 8"/hour @ 50 mph Wind Velocity	Ventilation Rate (Core) fpm:	0	93	192	287	399	496	563	690	786	882	972	2	0.3-0.399	
	Water Penetration	Effectiveness %:	99.9	99.6	98.7	96.4	91.7	87.7	84.4	69.4	56.2	37.8			25.3
	Classification:	A	A	B	B	C	C	C	D	D	D	D	4	0.199 & below	

\*Louver test was based on a 39.375" x 39.375" (1m x 1m) core area.