

Air Flow Company, Inc.

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

EA-445

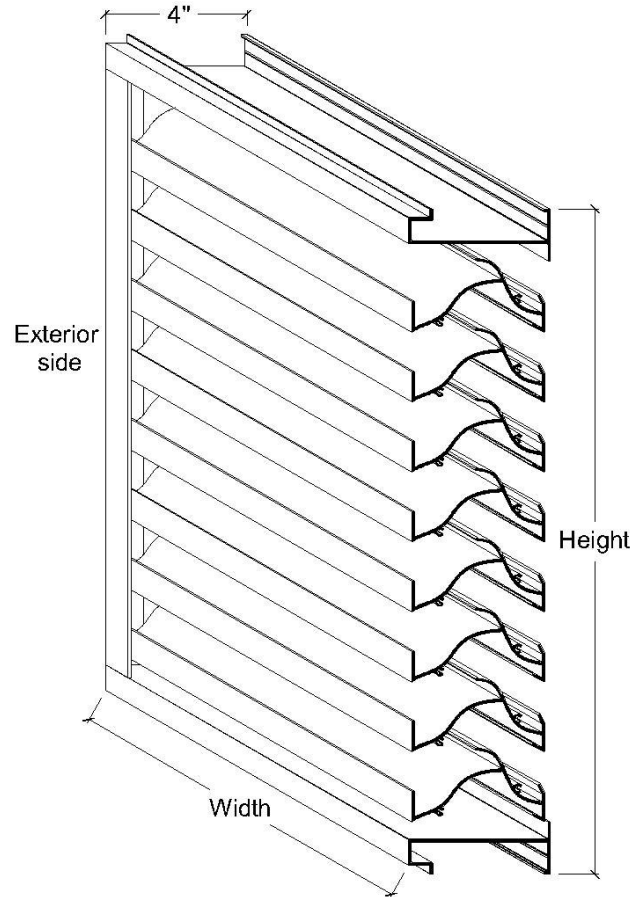
4" Wind Driven, Drainable Sight Proof Stationary Louver

Standard Louver Construction

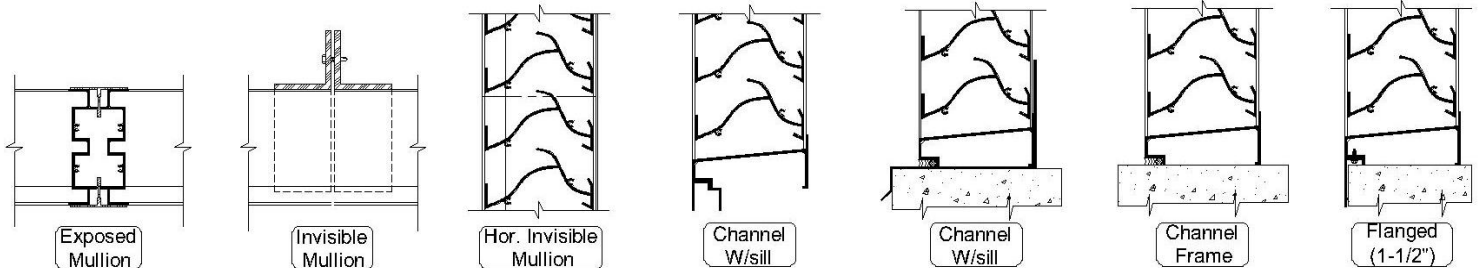
✓ Frame	Channel
✓ Frame Thickness	.081" extruded aluminum 6063-T5
✓ Blades Thickness	.081" extruded aluminum 6063-T5
✓ Fasteners	3/16" plated steel screw
✓ Screen	.050" x 3/4" expanded aluminum without frame
✓ Finish	Mill
✓ Undersized	1/4" under opening sizes
✓ Mullions	Invisible
✓ Minimum Size	12" x 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
Frame Accessories	Flange Pan Extended sill Glazing Adaptor



Air Flow Company Inc. certifies that the model: EA-445 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:

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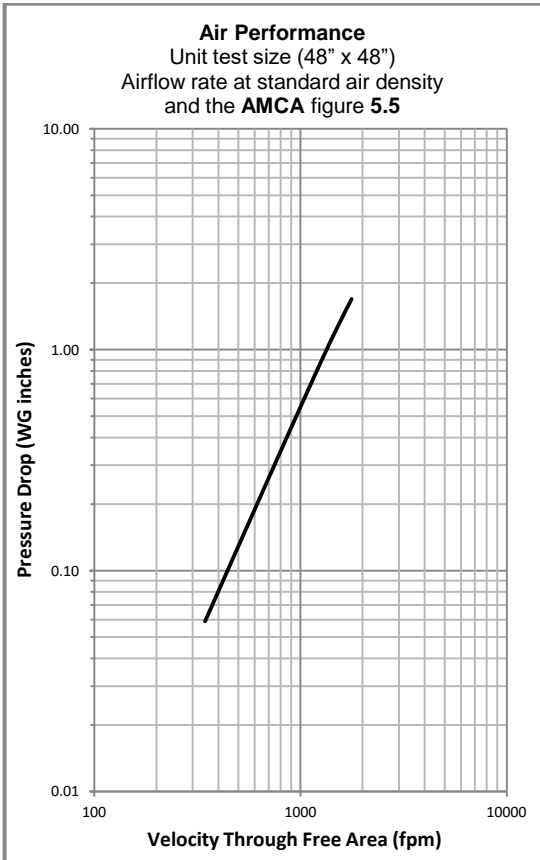
EA-445

4" Wind Driven, Drainable Sight Proof Stationary Louver

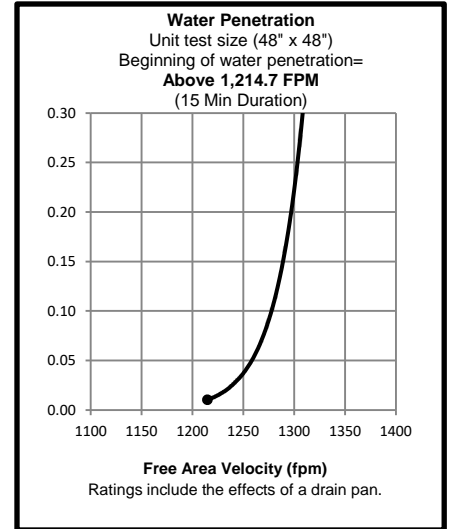
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Free Area Calculations (Sq. ft.)

		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	0.34	0.54	0.74	0.93	1.13	1.33	1.53	1.72	1.92	2.12	2.31	2.51	2.71	2.90	3.10
	18	0.55	0.87	1.18	1.50	1.81	2.13	2.44	2.76	3.07	3.38	3.70	4.01	4.33	4.64	4.96
	24	0.76	1.19	1.62	2.06	2.49	2.92	3.36	3.79	4.22	4.65	5.09	5.52	5.95	6.39	6.82
	30	0.96	1.52	2.07	2.62	3.17	3.72	4.27	4.82	5.37	5.92	6.47	7.03	7.58	8.13	8.68
	36	1.24	1.95	2.66	3.37	4.07	4.78	5.49	6.20	6.91	7.62	8.32	9.03	9.74	10.45	11.16
	42	1.45	2.27	3.10	3.93	4.75	5.58	6.41	7.23	8.06	8.89	9.71	10.54	11.36	12.19	13.02
	48	1.65	2.60	3.54	4.49	5.43	6.38	7.32	8.27	9.21	10.15	11.10	12.04	12.99	13.93	14.88
	54	1.86	2.92	3.99	5.05	6.11	7.17	8.24	9.30	10.36	11.42	12.49	13.55	14.61	15.67	16.74
	60	2.07	3.25	4.43	5.61	6.79	7.97	9.15	10.33	11.51	12.69	13.87	15.05	16.24	17.42	18.60
	66	2.34	3.68	5.02	6.36	7.69	9.03	10.37	11.71	13.05	14.39	15.72	17.06	18.40	19.74	21.08
	72	2.55	4.00	5.46	6.92	8.37	9.83	11.29	12.74	14.20	15.65	17.11	18.57	20.02	21.48	22.94
	78	2.76	4.33	5.90	7.48	9.05	10.63	12.20	13.78	15.35	16.92	18.50	20.07	21.65	23.22	24.80
84	2.96	4.65	6.35	8.04	9.73	11.42	13.12	14.81	16.50	18.19	19.89	21.58	23.27	24.96	26.66	
90	3.17	4.98	6.79	8.60	10.41	12.22	14.03	15.84	17.65	19.46	21.27	23.08	24.89	26.70	28.52	
96	3.44	5.41	7.38	9.35	11.32	13.28	15.25	17.22	19.19	21.16	23.12	25.09	27.06	29.03	30.99	
102	3.65	5.74	7.82	9.91	11.99	14.08	16.17	18.25	20.34	22.42	24.51	26.60	28.68	30.77	32.85	
108	3.86	6.06	8.27	10.47	12.67	14.88	17.08	19.29	21.49	23.69	25.90	28.10	30.31	32.51	34.71	
114	4.06	6.39	8.71	11.03	13.35	15.67	18.00	20.32	22.64	24.96	27.29	29.61	31.93	34.25	36.57	
120	4.27	6.71	9.15	11.59	14.03	16.47	18.91	21.35	23.79	26.23	28.67	31.11	33.55	35.99	38.43	



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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	278	397	494	589	701	781	890	980	Class	Discharge Loss Coefficient
	Water Penetration	Effectiveness %:	100	100	100	100	96.9	95.4	92.1	85.0	82.0	71.4	57.4		
	Classification:	A	A	A	A	B	B	C	C	C	D	D	D	1	0.4 & above
Rainfall 8"/hour @ 50 mph Wind Velocity	Ventilation Rate (Core) fpm:		0	91	184	300	401	482	589	685	785	884	985	Class	Discharge Loss Coefficient
	Water Penetration	Effectiveness %:	100	100	99.8	99.6	98.3	95.0	88.4	83.9	78.9	70.1	57.8		
	Classification:	A	A	A	A	B	B	C	C	D	D	D	D	2	0.3-0.399
														3	0.2-0.299
														4	0.199 & below

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

*Discharge Loss Coefficient, $C_D=4"$