

Air Flow Company, Inc.

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EA-745

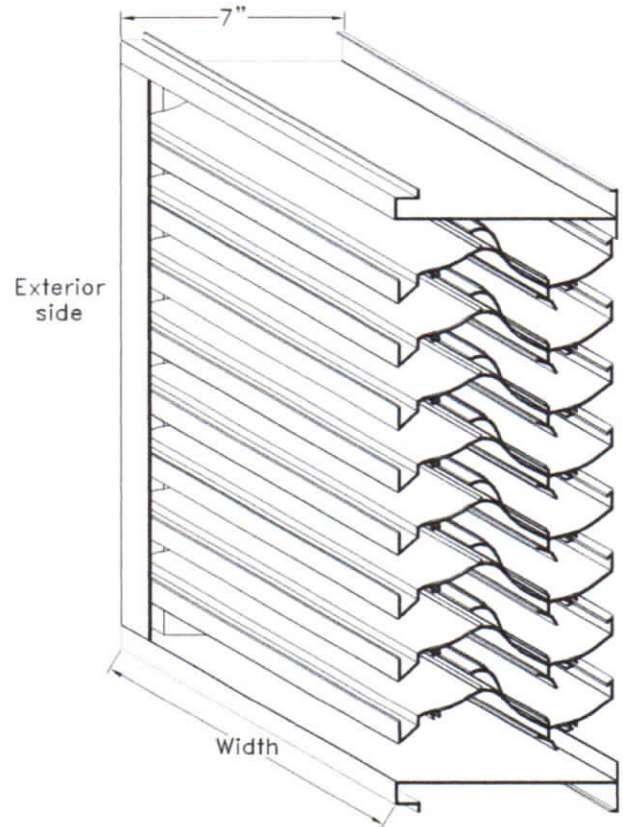
7" Wind Driven, Drainable
Sight Proof Stationary
Louver

Standard Louver Construction

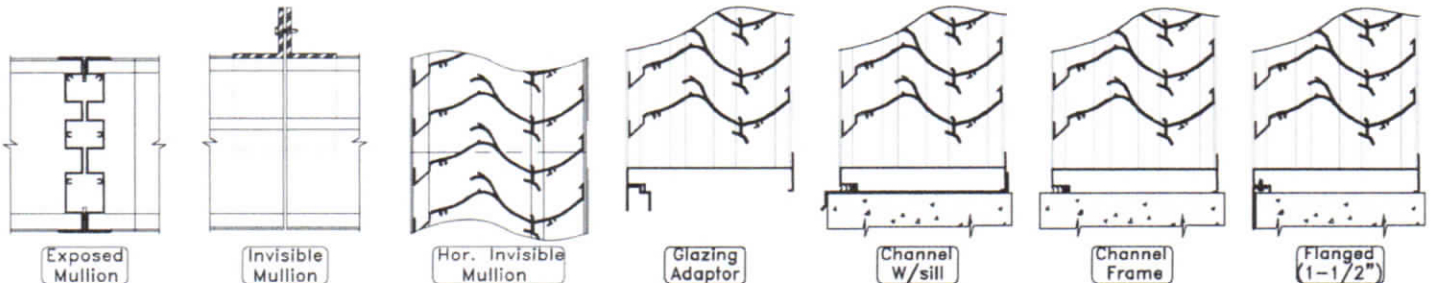
✓ Frame	Channel
✓ Frame Thickness	.081" extruded aluminum 6063-T5
✓ Blades Thickness	.081" extruded aluminum 6063-T5
✓ Fasteners	3/16" plated steel screw
✓ Screen	.050" x 3/4" expanded aluminum without frame
✓ Finish	Mill
✓ Undersized	1/4" under opening sizes
✓ Mullions	Invisible
✓ Minimum Size	12" x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



Air Flow Company Inc. certifies that the model EA-745 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)

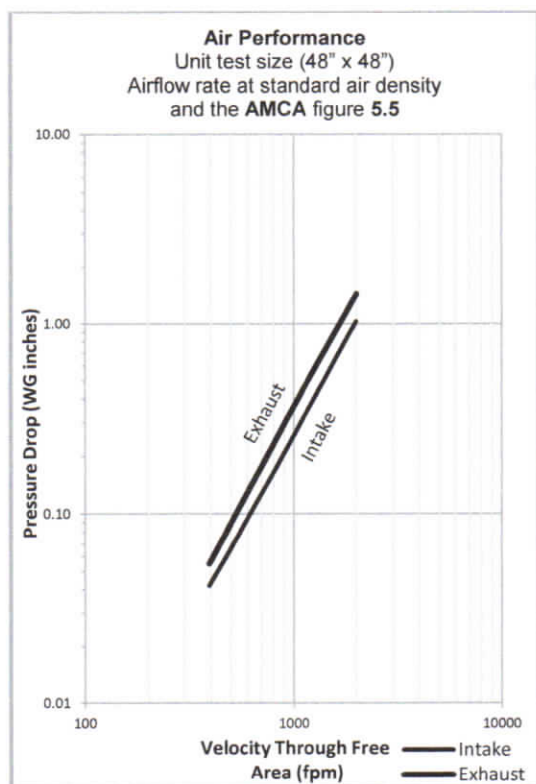


Louver Schedule

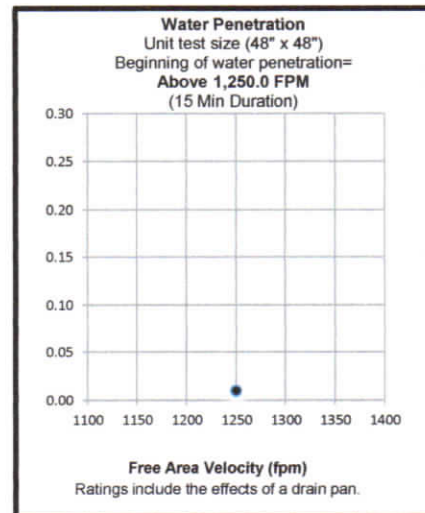
Item	Qty	Opening Size (W x H)	Notes	Project:
				Location:
				Arch/Eng:
				Customer:

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	0.94	1.14	1.34	1.54	1.74	1.94	2.14	2.35	2.55	2.75	2.95	3.15
	18	0.54	0.86	1.18	1.50	1.82	2.14	2.47	2.79	3.11	3.43	3.75	4.07	4.40	4.72	5.04
	24	0.74	1.18	1.62	2.06	2.51	2.95	3.39	3.83	4.28	4.72	5.16	5.60	6.04	6.49	6.93
	30	0.94	1.50	2.06	2.63	3.19	3.75	4.32	4.88	5.44	6.00	6.57	7.13	7.69	8.26	8.82
	36	1.14	1.82	2.51	3.19	3.87	4.56	5.24	5.92	6.61	7.29	7.97	8.66	9.34	10.03	10.71
	42	1.34	2.14	2.95	3.75	4.56	5.36	6.17	6.97	7.77	8.58	9.38	10.19	10.99	11.79	12.60
	48	1.54	2.47	3.39	4.32	5.24	6.17	7.09	8.01	8.94	9.86	10.79	11.71	12.64	13.56	14.49
	54	1.74	2.79	3.83	4.88	5.92	6.97	8.01	9.06	10.11	11.15	12.20	13.24	14.29	15.33	16.38
	60	1.94	3.11	4.28	5.44	6.61	7.77	8.94	10.11	11.27	12.44	13.60	14.77	15.94	17.10	18.27
	66	2.14	3.43	4.72	6.00	7.29	8.58	9.86	11.15	12.44	13.72	15.01	16.30	17.58	18.87	20.16
	72	2.35	3.75	5.16	6.57	7.97	9.38	10.79	12.20	13.60	15.01	16.42	17.83	19.23	20.64	22.05
	78	2.55	4.07	5.60	7.13	8.66	10.19	11.71	13.24	14.77	16.30	17.83	19.35	20.88	22.41	23.94
	84	2.75	4.40	6.04	7.69	9.34	10.99	12.64	14.29	15.94	17.58	19.23	20.88	22.53	24.18	25.83
	90	2.95	4.72	6.49	8.26	10.03	11.79	13.56	15.33	17.10	18.87	20.64	22.41	24.18	25.95	27.72
96	3.15	5.04	6.93	8.82	10.71	12.60	14.49	16.38	18.27	20.16	22.05	23.94	25.83	27.72	29.61	
102	3.35	5.36	7.37	9.38	11.39	13.40	15.41	17.42	19.43	21.44	23.45	25.47	27.48	29.49	31.50	
108	3.55	5.68	7.81	9.94	12.08	14.21	16.34	18.47	20.60	22.73	24.86	26.99	29.12	31.26	33.39	
114	3.75	6.00	8.26	10.51	12.76	15.01	17.26	19.51	21.77	24.02	26.27	28.52	30.77	33.02	35.28	
120	3.95	6.33	8.70	11.07	13.44	15.82	18.19	20.56	22.93	25.30	27.68	30.05	32.42	34.79	37.17	



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- To determine the pressure drop of a louver: Calculate the Velocity through 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 through free area.

Wind Driven Rain Performance												Class	Discharge Loss Coefficient	
Rainfall 3"/hour @ 29 mph Wind Velocity	Ventilation Rate (Core) fpm:	0	0	0	274	397	496	592	704	779	887			979
	Water Penetration Effectiveness %:	100	100	100	99.9	99.9	99.8	98.1	90.1	85.7	76.0	71.6	1	0.4 & above
	Classification:	A	A	A	A	A	A	B	C	C	D	D		
Rainfall 8"/hour @ 50 mph Wind Velocity	Ventilation Rate (Core) fpm:	0	0	196	305	400	479	584	684	785	884	984	2	0.3-0.399
	Water Penetration Effectiveness %:	100	100	99.9	99.6	99.0	97.5	91.0	81.8	76.3	68.3	61.1		
	Classification:	A	A	A	A	A	B	C	C	D	D	D	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, $C_D=4"$