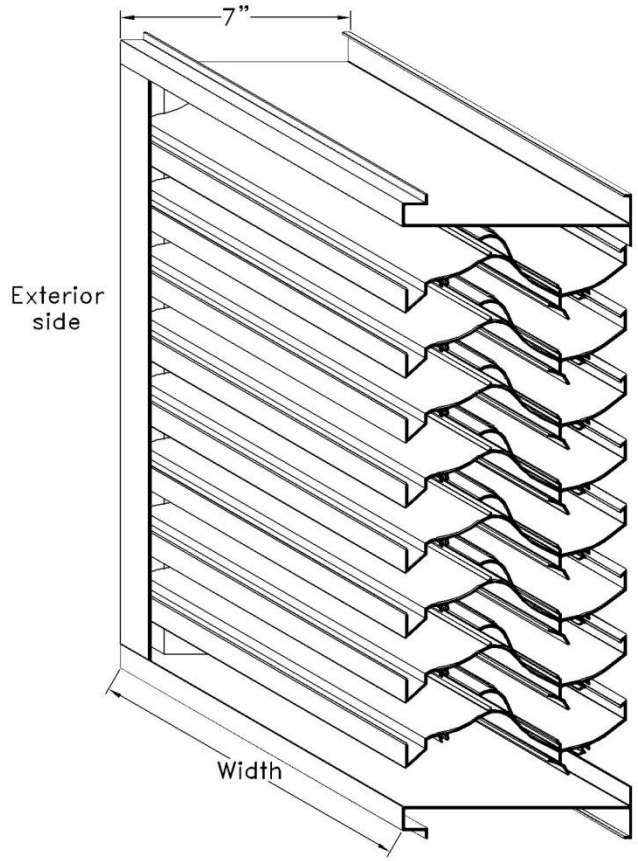
Air Flow Company, Inc.
850 W. Fullerton Ave. • Addison, IL. 60101
Tel (630) 628-1138 Fax (630) 628-1149

EA-745

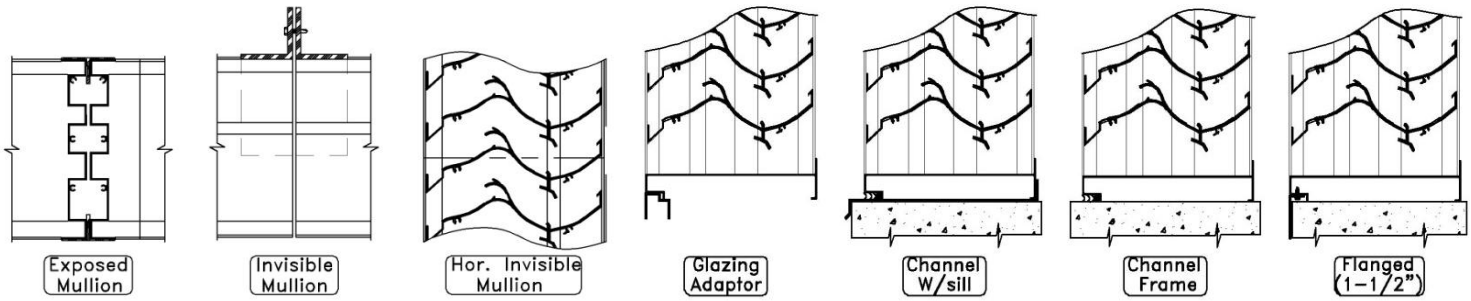
7” Wind Driven, Drainable Sight Proof Stationary Louver

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 ¾” expanded aluminum without frame
✓	**Finish**	Mill
✓	**Undersized**	¼” 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 ½” 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-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:	

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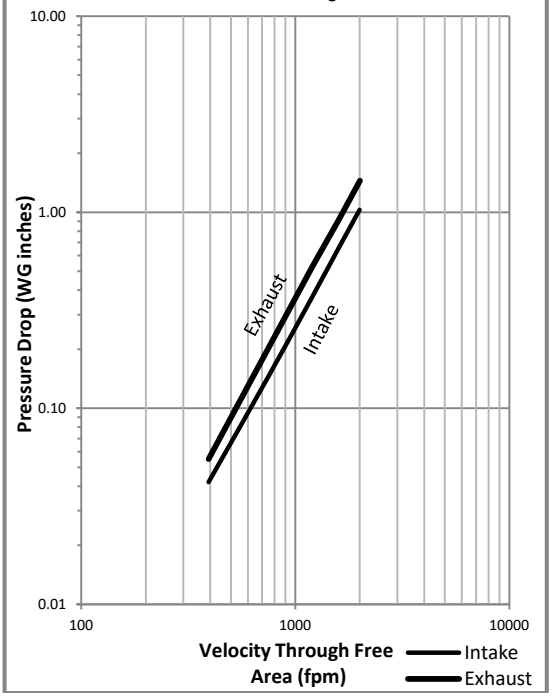
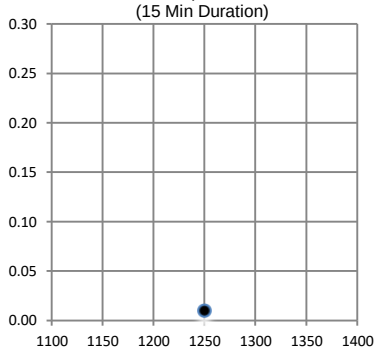
Free Area Calculations (Sq. ft.)

HEIGHT (inches) \ WIDTH (inches)	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
12	0.34	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

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



Water Penetration
Unit test size (48" x 48")
Beginning of water penetration=
Above 1,250.0 FPM
(15 Min Duration)



Free Area Velocity (fpm)
Ratings include the effects of a drain pan.

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(Louver tested without bird screen)

- 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		
		Classification:	A	A	A	A	A	A	B	C	C	D	D	1	0.4 & above
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	3	0.2-0.299
		Classification:	A	A	A	A	A	B	C	C	D	D	D	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"