

# Air Flow Company, Inc.

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## EA-245

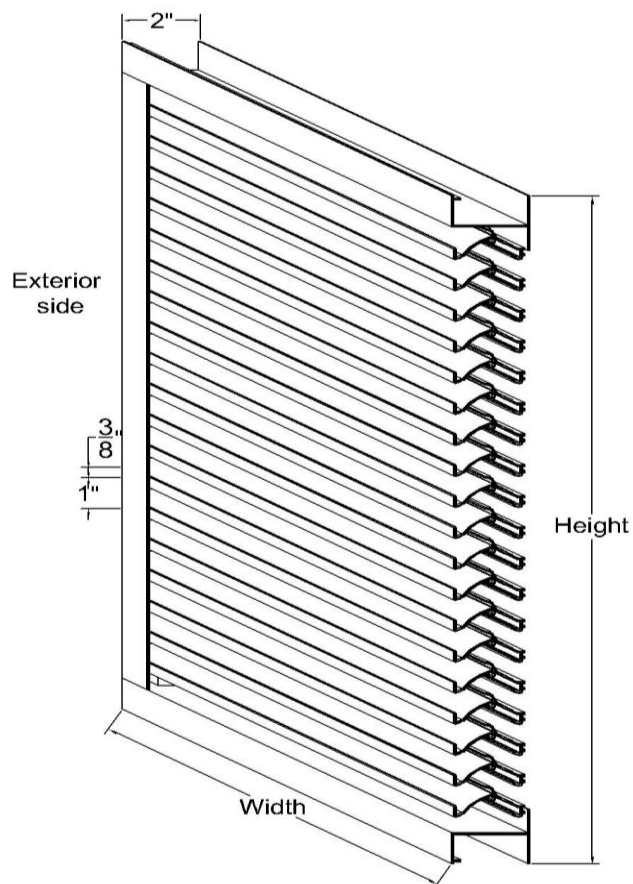
2" Wind Driven, Drainable  
Sight Proof Stationary  
Louver

### Standard Louver Construction

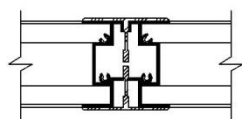
✓ Frame	Channel
✓ Frame Thickness	.063" extruded aluminum 6063-T5
✓ Blades Thickness	.063" extruded aluminum 6063-T5
✓ Blade Positioning	1" Spacing Center to Center
✓ Fasteners	3/16" plated steel screw
✓ Screen	.050" x 3/4" expanded aluminum without frame
✓ Finish	Mill
✓ Undersized	1/4" under opening sizes
✓ Mullions	Invisible
✓ Minimum Size	12" x 12"
✓ Maximum Single Section	120" x 84" or 84" x 120

### Optional Construction

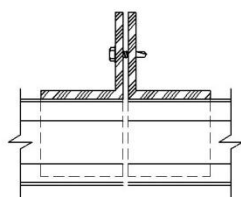
Frames	N/A
Blades	N/A
Fasteners	Welded Construction Stainless Steel Fasteners
Screen	.063" x 1/2" wire mesh Bird Screen 18 x 16 Insect screen
Finish	Prime coat Baked enamel Powder coat Kynar 500      2 Coat      3 Coat Anodized      Clear      Color
Mullions	Visible
Frame Accessories	Flange Pan Extended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



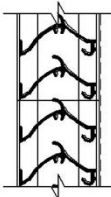
**Air Flow Model EA-245.** The ratings shown are based on tests & Procedures Made in accordance with AMCA standard 500-L. The actual test results of water penetration & air performance may vary (+/-10%) depending on the actual application. Free area calculations are (+/-5%)



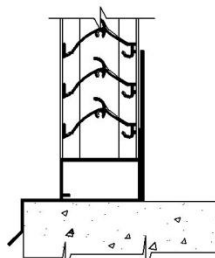
Exposed Mullion



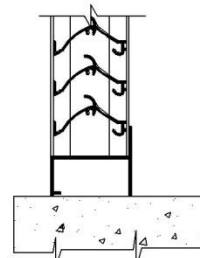
Invisible Mullion



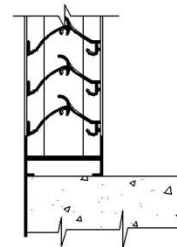
Hor. Invisible Mullion



Channel W/sill



Channel Frame



Flanged (1-1/2")

### Louver Schedule

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

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

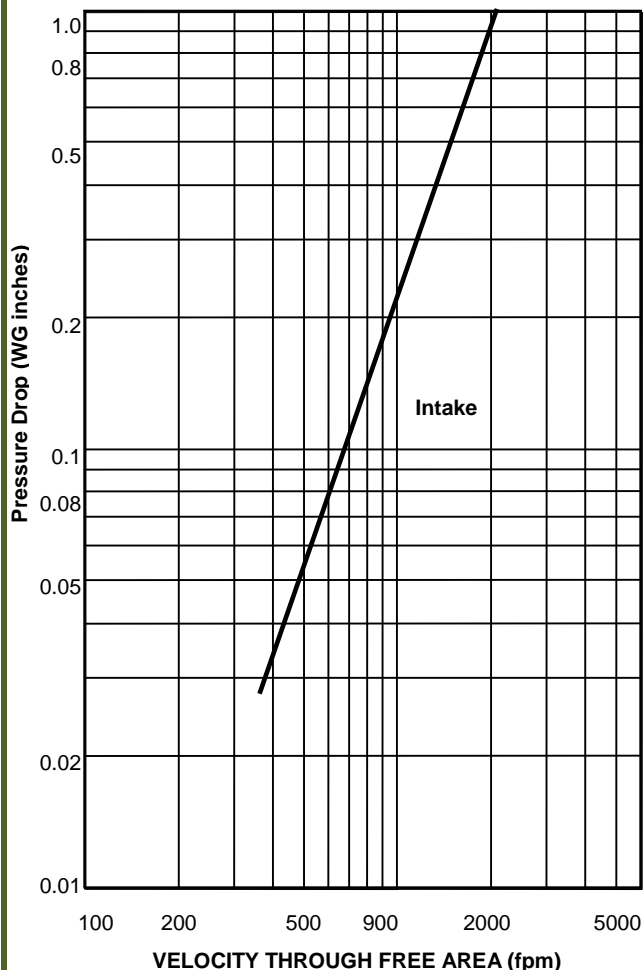
		W I D T H (inches)														
		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
H E I G H T (inches)	12	0.36	0.57	0.78	0.99	1.20	1.41	1.62	1.83	2.04	2.25	2.46	2.67	2.88	3.09	3.30
	18	0.57	0.90	1.24	1.58	1.91	2.25	2.59	2.92	3.26	3.60	3.93	4.27	4.61	4.94	5.28
	24	0.78	1.24	1.70	2.17	2.63	3.09	3.55	4.02	4.48	4.94	5.41	5.87	6.33	6.79	7.26
	30	0.99	1.58	2.17	2.75	3.34	3.93	4.52	5.11	5.70	6.29	6.88	7.47	8.06	8.65	9.24
	36	1.20	1.91	2.63	3.34	4.06	4.77	5.49	6.21	6.92	7.64	8.35	9.07	9.78	10.50	11.21
	42	1.41	2.25	3.09	3.93	4.77	5.62	6.46	7.30	8.14	8.98	9.82	10.67	11.51	12.35	13.19
	48	1.62	2.59	3.55	4.52	5.49	6.46	7.43	8.39	9.36	10.33	11.30	12.27	13.23	14.20	15.17
	54	1.83	2.92	4.02	5.11	6.21	7.30	8.39	9.49	10.58	11.68	12.77	13.86	14.96	16.05	17.15
	60	2.04	3.26	4.48	5.70	6.92	8.14	9.36	10.58	11.80	13.02	14.24	15.46	16.68	17.90	19.12
	66	2.25	3.60	4.94	6.29	7.64	8.98	10.33	11.68	13.02	14.37	15.72	17.06	18.41	19.76	21.10
	72	2.46	3.93	5.41	6.88	8.35	9.82	11.30	12.77	14.24	15.72	17.19	18.66	20.13	21.61	23.08
	78	2.67	4.27	5.87	7.47	9.07	10.67	12.27	13.86	15.46	17.06	18.66	20.26	21.86	23.46	25.06
	84	2.88	4.61	6.33	8.06	9.78	11.51	13.23	14.96	16.68	18.41	20.13	21.86	23.59	25.31	27.04
	90	3.09	4.94	6.79	8.65	10.50	12.35	14.20	16.05	17.90	19.76	21.61	23.46	25.31	27.16	29.01
	96	3.30	5.28	7.26	9.24	11.21	13.19	15.17	17.15	19.12	21.10	23.08	25.06	27.04	29.01	30.99
102	3.51	5.62	7.72	9.82	11.93	14.03	16.14	18.24	20.35	22.45	24.55	26.66	28.76	30.87	32.97	
108	3.72	5.95	8.18	10.41	12.64	14.87	17.10	19.34	21.57	23.80	26.03	28.26	30.49	32.72	34.95	
114	3.93	6.29	8.65	11.00	13.36	15.72	18.07	20.43	22.79	25.14	27.50	29.86	32.21	34.57	36.93	
120	4.14	6.63	9.11	11.59	14.07	16.56	19.04	21.52	24.01	26.49	28.97	31.46	33.94	36.42	38.90	

♦ **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 above chart. 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 above free area chart) by maximum velocity thru free area.

#### Air Performance



#### Wind Driven Rain Performance

50 mph Wind Velocity @ 8"/hour Rainfall Rate				29 mph Wind Velocity @ 3"/hour Rainfall Rate			
Core Velocity	Free Area Velocity	Water Penetration		Core Velocity	Free Area Velocity	Water Penetration	
(fpm)	(fpm)	Class	Efficiency	(fpm)	(fpm)	Class	Efficiency
0	-	A	99.8	0	-	A	99.8
105	252	B	98.6	105	305	B	98.6
220	510	B	97.1	220	448	B	97.1
301	701	C	95.2	301	698	C	95.2
395	911	C	92.4	395	911	C	92.4
491	1130	C	89.2	491	1095	C	89.2
579	1340	C	86.2	579	1375	C	86.2
685	1587	C	82.8	685	1590	C	82.8

#### Water Penetration

