

Air Flow Company, Inc.

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

EA-405

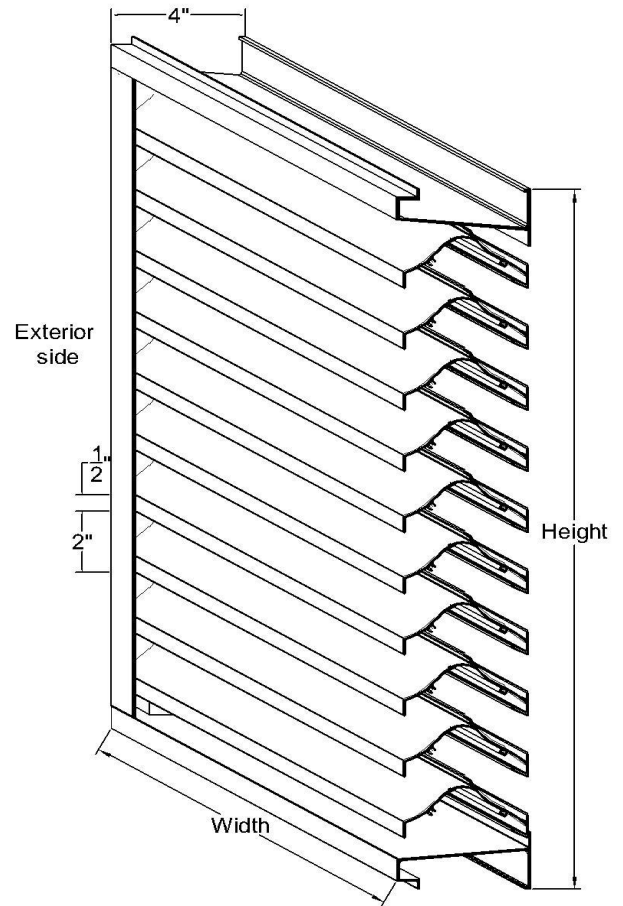
4" Deep Wind Driven Sight Proof Louver

Standard Louver Construction

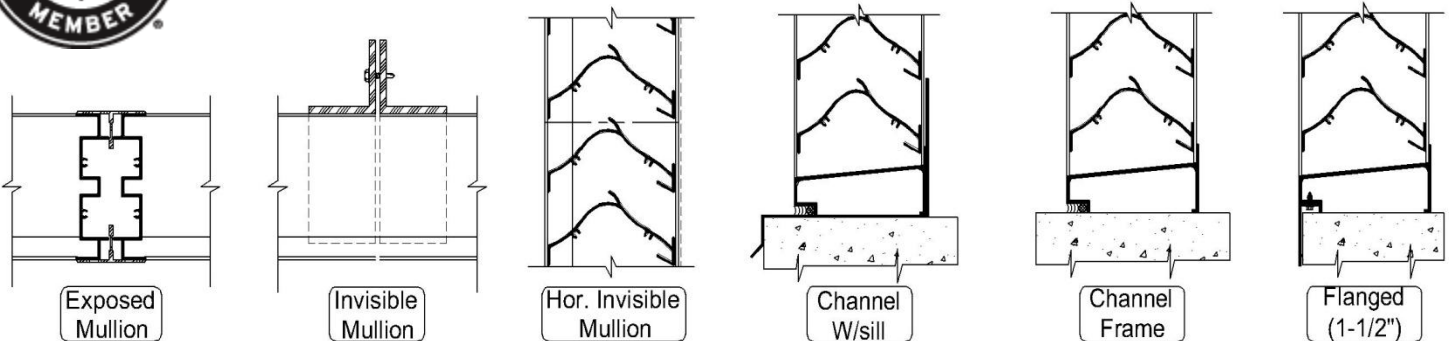
✓ Frame	Channel
✓ Frame Thickness	.081" extruded aluminum 6063-T5
✓ Blades Thickness	.081" extruded aluminum 6063-T5
✓ Blade Positioning	2" spacing center to center
✓ Fasteners	3/16" plated steel screw
✓ Screen	.050" x 3/4" expanded aluminum without frame
✓ Finish	Mill
✓ Undersized	1/4" under opening 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 in Frame
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 Model EA-405. 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%)



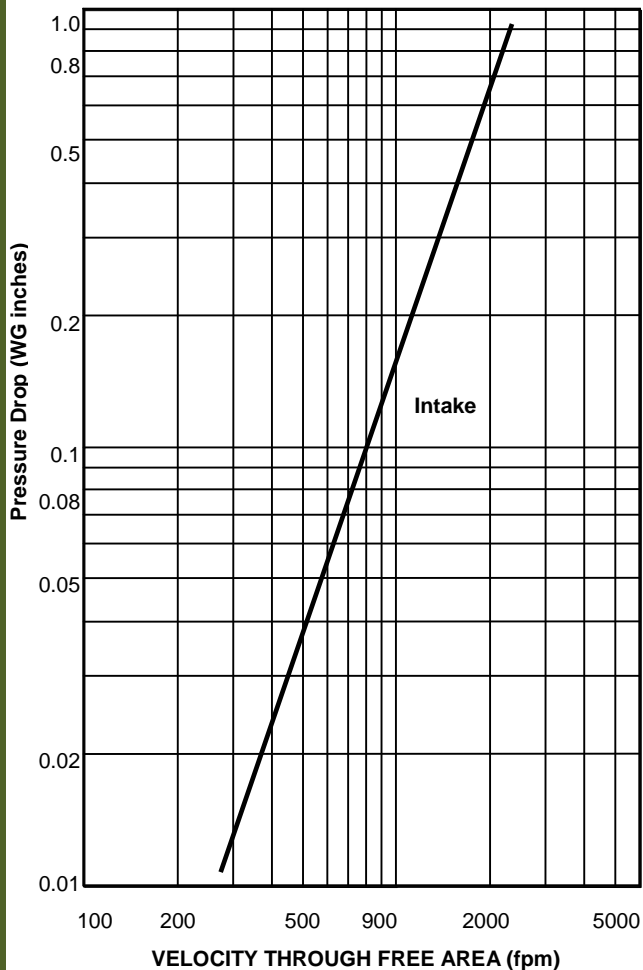
Louver Schedule

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
12	0.36	0.56	0.77	0.97	1.17	1.37	1.58	1.78	1.98	2.19	2.39	2.59	2.80	3.00	3.20
18	0.63	0.98	1.34	1.69	2.05	2.40	2.76	3.11	3.47	3.82	4.18	4.53	4.89	5.24	5.60
24	0.89	1.40	1.91	2.42	2.92	3.43	3.94	4.44	4.95	5.46	5.97	6.47	6.98	7.49	8.00
30	1.16	1.82	2.48	3.14	3.80	4.46	5.12	5.78	6.44	7.10	7.76	8.41	9.07	9.73	10.39
36	1.43	2.24	3.05	3.86	4.67	5.48	6.30	7.11	7.92	8.73	9.54	10.36	11.17	11.98	12.79
42	1.69	2.66	3.62	4.58	5.55	6.51	7.48	8.44	9.40	10.37	11.33	12.30	13.26	14.22	15.19
48	1.96	3.07	4.19	5.31	6.42	7.54	8.66	9.77	10.89	12.00	13.12	14.24	15.35	16.47	17.59
54	2.22	3.49	4.76	6.03	7.30	8.57	9.84	11.10	12.37	13.64	14.91	16.18	17.45	18.71	19.98
60	2.49	3.91	5.33	6.75	8.17	9.59	11.02	12.44	13.86	15.28	16.70	18.12	19.54	20.96	22.38
66	2.76	4.33	5.90	7.48	9.05	10.62	12.19	13.77	15.34	16.91	18.49	20.06	21.63	23.20	24.78
72	3.02	4.75	6.47	8.20	9.92	11.65	13.37	15.10	16.82	18.55	20.27	22.00	23.72	25.45	27.17
78	3.29	5.17	7.04	8.92	10.80	12.68	14.55	16.43	18.31	20.19	22.06	23.94	25.82	27.69	29.57
84	3.56	5.59	7.62	9.65	11.67	13.70	15.73	17.76	19.79	21.82	23.85	25.88	27.91	29.94	31.97
90	3.82	6.00	8.19	10.37	12.55	14.73	16.91	19.09	21.28	23.46	25.64	27.82	30.00	32.19	34.37
96	4.09	6.42	8.76	11.09	13.43	15.76	18.09	20.43	22.76	25.09	27.43	29.76	32.10	34.43	36.76
102	4.36	6.84	9.33	11.81	14.30	16.79	19.27	21.76	24.24	26.73	29.22	31.70	34.19	36.68	39.16
108	4.62	7.26	9.90	12.54	15.18	17.81	20.45	23.09	25.73	28.37	31.01	33.64	36.28	38.92	41.56
114	4.89	7.68	10.47	13.26	16.05	18.84	21.63	24.42	27.21	30.00	32.79	35.58	38.38	41.17	43.96
120	5.15	8.10	11.04	13.98	16.93	19.87	22.81	25.75	28.70	31.64	34.58	37.53	40.47	43.41	46.35

Air Performance



- ◆ 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.

Water Penetration

Beginning of water penetration = 1001 FPM
(15 minutes duration)

