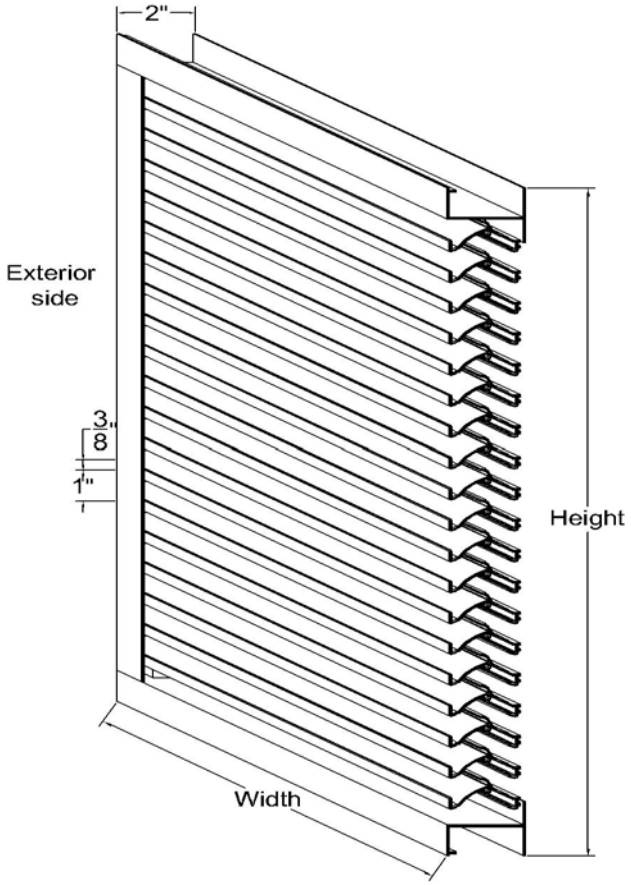
1855 S. 54th Ave Cicero, IL 60804 Phone: (708)652-9100

DEM-02

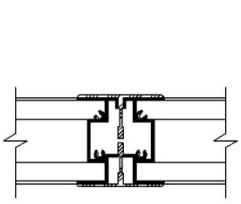
2” Wind Driven, Drainable Sight Proof Stationary Louver

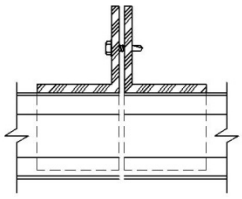
Standard Louver Construction		
✓	**Frame**	Channel
✓	**Frame Thickness**	.063” extruded aluminum 6063-T5
✓	**Blades Thickness**	.063” extruded aluminum 6063-T5
✓	**Blade Positioning**	1” Spacing Center to Center
✓	**Fasteners**	3/16” plated steel screw
✓	**Screen**	.050” x ¾” expanded aluminum without 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

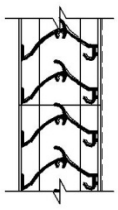
Optional Construction						
	Frames		N/A			
	Blades		N/A			
	Fasteners		Welded Construction			
			Stainless Steel Fasteners			
	Screen		.063” x ½” wire mesh Bird Screen			
			18 x 16 Insect screen			
	Finish		Prime coat			
			Baked enamel			
			Powder coat			
			Kynar 500		2 Coat	3 Coat
			Anodized		Clear	Color
	Mullions		Visible			
	Frame Accessories		Flange			
			Pan			
			Extended sill			

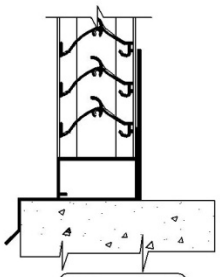


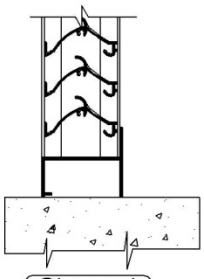
Dowco Products model DEM-02. The ratings shown are based on tests & Procedures Made in accordance with AMCA standard 500-L. The actual test results of water penetration & air performance may vary (+/-10%) depending on the actual application. Free area calculations are (+/-5%)

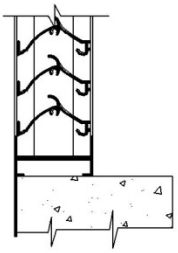

Exposed Mullion


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:	

SAFE-AIR DOWCO
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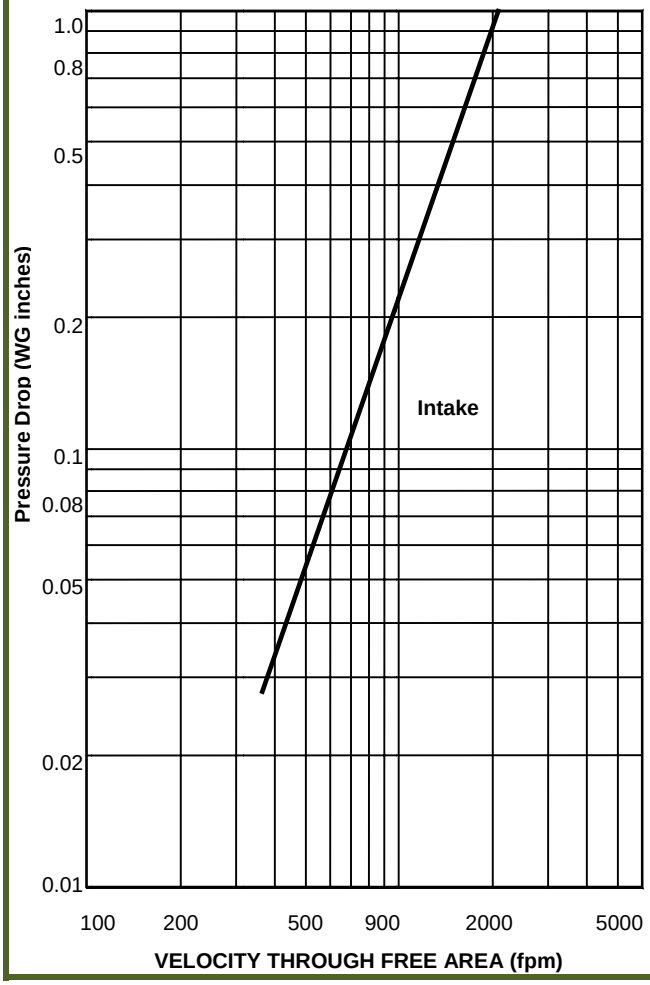
Free Area Calculations (sq. ft.)

HEIGHT (inches) \ WIDTH (inches)	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
12	0.36	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

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.

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 Penatration		Core Velocity	Free Area Velocity	Water Penatration	
(fpm)	(fpm)	Class	Effeciency	(fpm)	(fpm)	Class	Effeciency
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