

Storm Resistant in 7" thick frame design - Model SVS-07

Design Features – High Performance patented design allowing maximum airflow with minimum outside element or water penetration.

STANDARD CONSTRUCTION

ALL MATERIAL – Extruded alum. alloy (6063-T5), (6063-T6) or (6061-T6)

FRAME

7" (178) thick, is .081 (2.1) extruded alum. in style #8.

BLADES

4" (102) Exterior blades @ 4-1/2" (114) & Interior blades @ 2-1/2" (64) oc.

MAXIMUM SIZE

Unlimited, with mullions, structural bracing supplied by others

MAXIMUM FACTORY ASSEMBLY SIZE

120" w x 84 H" or 84" w x 120" H (3048 x 2124) or (2134 x 3048)
(allows for best handling)
(Type of finish may limit maximum single section)

MULLION

Visible

MINIMUM SIZE

12" w x 12" H (305 x 305)

UNDERSIZED

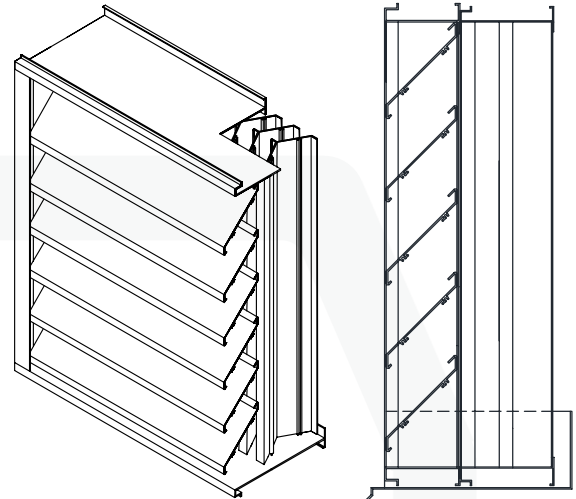
1/4" (6) under ordered size unless specified Exact or Actual

SCREEN

3/4" .051" (19 x 1.3) expanded aluminum bird screen no frame

FINISH

Mill



SECTION VIEW

OPTIONAL CONSTRUCTION

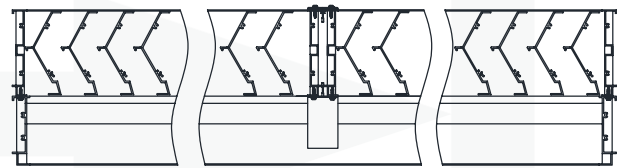
FRAME – Available in a heavier extrusion of .125" (3.2)

BLADES – Available in a heavier extrusion of .125" (3.2)

SCREEN - Many styles available please consult screen listing

FINISH – Air dry Primer, Polyurethane, Baked Epoxy, or Baked Enamel, Powder Coat, Anodize or Kynar 500

MULLION – Visible for architectural preference



PLAN VIEW

SPECIAL PURPOSE CONSTRUCTION

Special Shapes; Triangle, Trapezoid, etc.

Fully welded construction

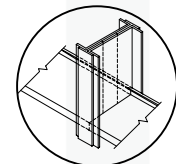
Security bars

Filter racks

Hinged as walk through door or for swing out access

Sleeved for ductwork connection

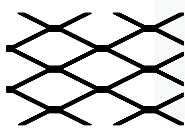
MULLION STYLES



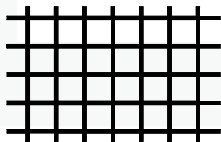
Visible

PERFORMANCE
Point of water penetration 1250 fpm (381)
Free area 48 x 48 section 53%

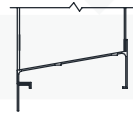
TYPICAL SCREEN STYLES



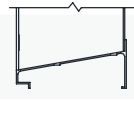
Expanded Aluminum Standard



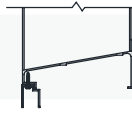
Wire Mesh



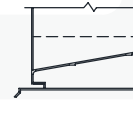
1- Flange (1.5")



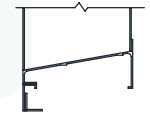
3 - Box



4 - Glazing Adapter



8- Box with Sill Extension



9 - Flange w/ Sub Frame

FRAME STYLE

DATE	ARCHITECT/ENGINEER		CUSTOMER	
PROJECT				
ITEM	QTY	W	H	DESCRIPTION



A division of Safe Air of Illinois
DEPENDABLE PRODUCTS SINCE 1955
DOWCO PRODUCTS GROUP

Engineering and General Offices

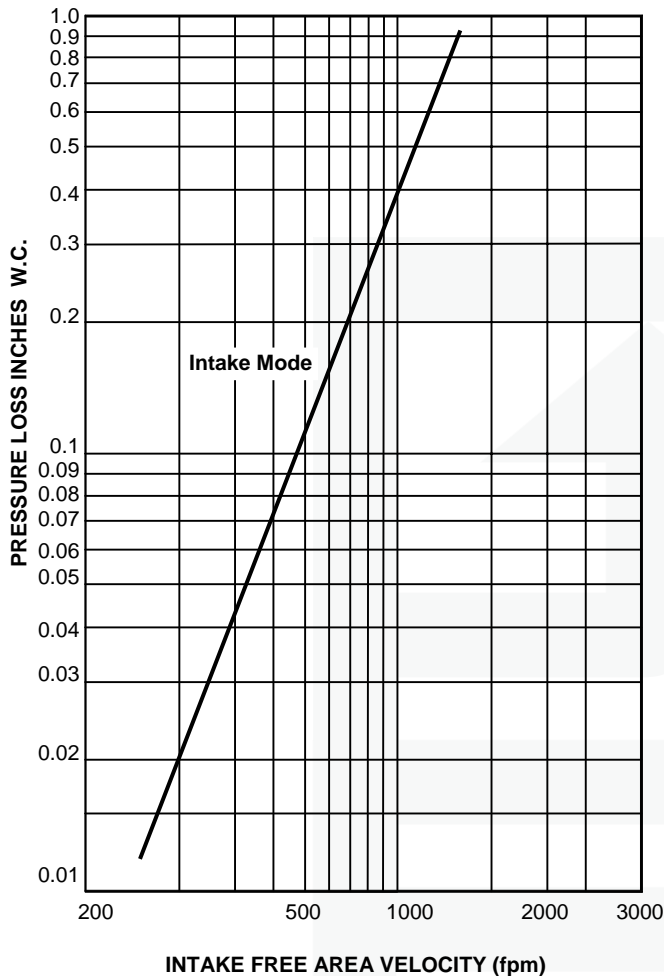
1855 South 54th Avenue, Cicero, Illinois 60804

Phone 708-652-9100 FAX 708-652-9158

SVS-07 PERFORMANCE SPECIFICATIONS

All tests performed at an independent laboratory and based on AMCA standard 500-L for air performance and water penetration.

AIR PERFORMANCE



CALCULATING PRESSURE LOSS

Based upon a given flow rate (in CFM), the flowing pressure loss may be determined from the "air performance" graph, knowing the sq. ft. of free area of the louver. Alternately, the free area may be determined based upon a volumetric flow rate and a maximum pressure loss utilizing the "air performance" graph.

_____ in. W.C. Max. Pressure Loss Intake or Exhaust

_____ FPM (Free Area Velocity from "Air Performance" Graph)

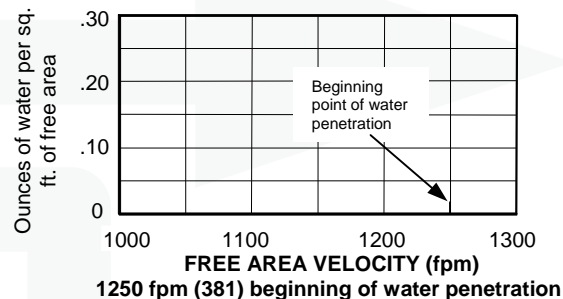
_____ CFM / _____ FPM Free Area Velocity = _____ Sq. Ft. Free Area

CALCULATING MAXIMUM AIRFLOW BEFORE WATER PENETRATION

The "free area flow rate" at which water penetration commences (.01 oz. of water) is established at, 1250 fpm (381) and will vary depending upon actual weather conditions. The "water penetration" graph illustrates the results of actual laboratory test on a 48" x 48" (1219 x 1219) test sample subjected to hypothetical rainfall conditions. To determine the free area (in sq. ft.) based on upon a known volumetric flow rate in CFM;

_____ CFM / _____ FPM = _____ SQ. FT. FREE AREA
(System Requirements)

Water Penetration Graph
in oz. of water per sq. ft. of _____ .01 .02 .05 .1 .2 .3 (H2O)
free area over a 15 min. test period 1250 n/a n/a n/a n/a n/a (fpm)



Ventilation Air Velocity (m/s)	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
Core Ventilation Rate (ft/min)	0	100	198	295	396	503	609	702	795	881	982
Free Area Ventilation Rate (ft/min)	0	156	302	455	609	776	904	1061	1250	1320	1501
Rating Effectiveness	A	A	A	A	A	A	A	A	A	B	C
Effectiveness Rating	A = 1 - 0.99			B = 0.989 - 0.95			C = 0.949 - 0.80			D = 0.80 - 0	

FREE AREA CALCULATIONS IN SQ. FT.

		WIDTH																		
		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
HEIGHT	12	0.21	0.34	0.47	0.60	0.73	0.85	0.98	1.11	1.24	1.37	1.49	1.62	1.75	1.88	2.01	2.13	2.26	2.39	2.52
	18	0.48	0.77	1.06	1.35	1.64	1.93	2.22	2.51	2.80	3.09	3.38	3.67	3.96	4.25	4.54	4.83	5.12	5.41	5.70
	24	0.75	1.20	1.66	2.11	2.56	3.01	3.46	3.91	4.36	4.82	5.27	5.72	6.17	6.62	7.07	7.52	7.98	8.43	8.88
	30	1.02	1.64	2.25	2.86	3.47	4.09	4.70	5.31	5.93	6.54	7.15	7.77	8.38	8.99	9.61	10.22	10.83	11.45	12.06
	36	1.29	2.07	2.84	3.62	4.39	5.17	5.94	6.72	7.49	8.27	9.04	9.82	10.59	11.37	12.14	12.92	13.69	14.46	15.24
	42	1.56	2.50	3.43	4.37	5.31	6.24	7.18	8.12	9.05	9.99	10.93	11.86	12.80	13.74	14.67	15.61	16.55	17.48	18.42
	48	1.83	2.93	4.03	5.13	6.22	7.32	8.42	9.52	10.62	11.72	12.81	13.91	15.01	16.11	17.21	18.31	19.40	20.50	21.60
	54	2.10	3.36	4.62	5.88	7.14	8.40	9.66	10.92	12.18	13.44	14.70	15.96	17.22	18.48	19.74	21.00	22.26	23.52	24.78
	60	2.37	3.79	5.21	6.63	8.06	9.48	10.90	12.32	13.74	15.17	16.59	18.01	19.43	20.85	22.27	23.70	25.12	26.54	27.96
	66	2.64	4.22	5.81	7.39	8.97	10.56	12.14	13.72	15.31	16.89	18.47	20.06	21.64	23.22	24.81	26.39	27.98	29.56	31.14
72	2.91	4.65	6.40	8.14	9.89	11.63	13.38	15.13	16.87	18.62	20.36	22.11	23.85	25.60	27.34	29.09	30.83	32.58	34.32	
78	3.18	5.09	6.99	8.90	10.81	12.71	14.62	16.53	18.43	20.34	22.25	24.15	26.06	27.97	29.88	31.78	33.69	35.60	37.50	
84	3.45	5.52	7.59	9.65	11.72	13.79	15.86	17.93	20.00	22.07	24.13	26.20	28.27	30.34	32.41	34.48	36.55	38.61	40.68	
90	3.72	5.95	8.18	10.41	12.64	14.87	17.10	19.33	21.56	23.79	26.02	28.25	30.48	32.71	34.94	37.17	39.40	41.63	43.86	
96	3.99	6.38	8.77	11.16	13.56	15.95	18.34	20.73	23.12	25.52	27.91	30.30	32.69	35.08	37.48	39.87	42.26	44.65	47.04	