

Sightproof Storm Resistant Louver in 7" depth Model SNS-07

Design Features – Drainable blade vision proof design.

STANDARD CONSTRUCTION

ALL MATERIAL – EXTRUDED ALUMINUM 6063-T5 (KB-45)

FRAME

7" (178) thick, is .081" (2.1) extruded aluminum in style #3.

BLADES

.081" (2.1) extruded aluminum, approx. spacing is 3 1/4" (82.55)

MAXIMUM SIZE

Unlimited, with mullions, structural bracing supplied by others

MAXIMUM FACTORY ASSEMBLY SIZE

120" w x 96" H" or 96" w x 120" H (3048 x 2438) or (2438 x 3048)

(allows for best handling)

(Type of finish may limit maximum single section)

MULLION

Invisible

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" x .051" (19 x 1.3) flattened expanded aluminum bird screen no frame

FINISH

Mill

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, epoxy, or enamel. Baked epoxy, Anodize or Kynar

MULLION – Visible for architectural preference

SPECIAL PURPOSE CONSTRUCTION

Fully welded construction

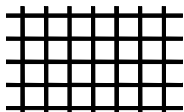
Security bars

Filter racks

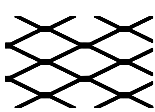
Hinged as walk through door or for swing out access

Sleeved for ductwork connection

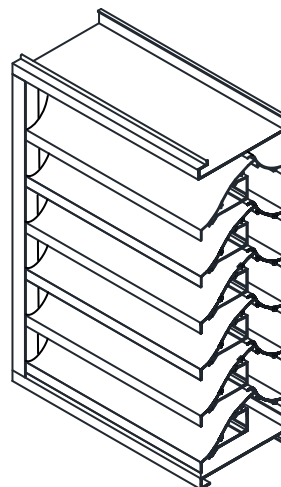
TYPICAL SCREEN STYLES



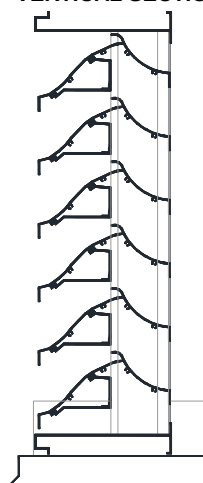
Wire Mesh



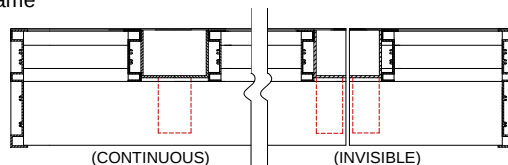
Expanded Aluminum
Standard



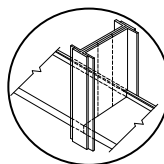
VERTICAL SECTION



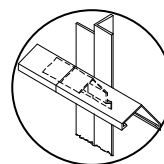
HORIZONTAL SECTION



MULLION STYLES



Visible

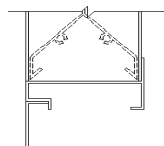


Invisible

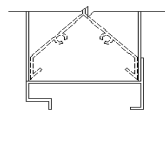
PERFORMANCE

Point of water
penetration
1120 fpm (342)
Free area
48 x 48 section
57%

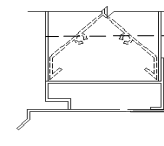
FRAME STYLES



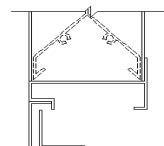
1 - Flange (1.5")



3 - Box



8 - Box with
Sill Extension



9 - Flange
with Sub Frame

DATE	ARCHITECT			CUSTOMER
PROJECT				
ITEM	QTY	W	H	DESCRIPTION



DEPENDABLE PRODUCTS SINCE 1955

SAFE-AIR OF ILLINOIS INC.

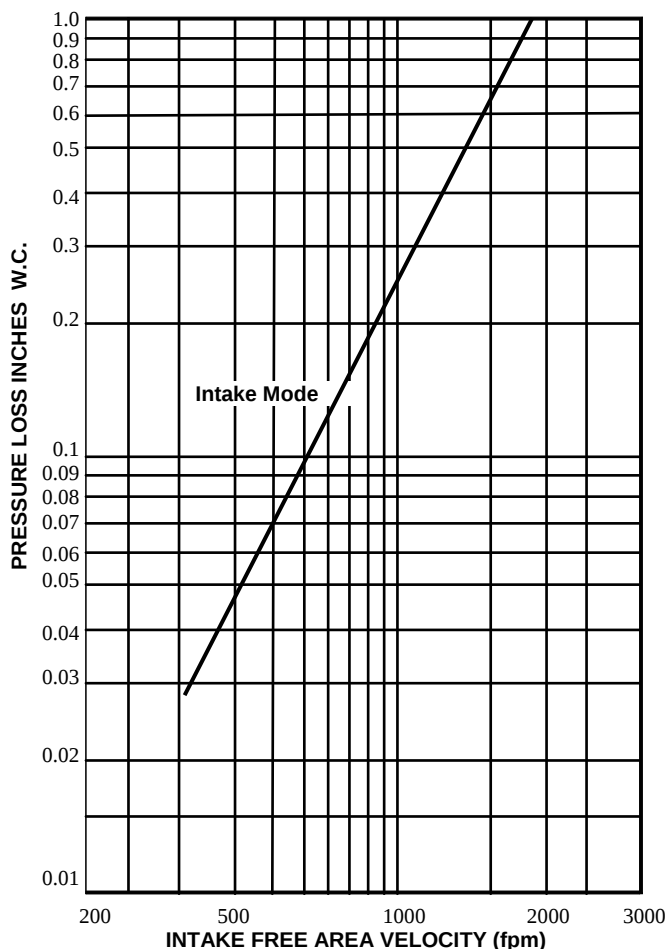
Engineering and General Offices

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All tests performed at an independent laboratory and based on AMCA standard 511 – 91 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

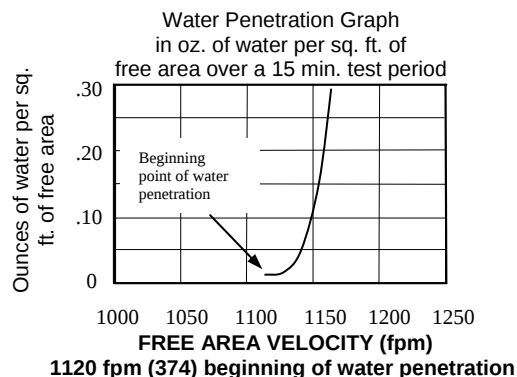
_____ FPM (Free Area Velocity From "Air Performance" Graph)

_____ 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, 1120 fpm (342) for SNS-07, 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)



1120 fpm (374) beginning of water penetration

This test was produced on a wind velocity of 30 mph (13 m/s) directly at the face of the louver, with a rainfall rate of 3" per hour (75 mm/hr). The data illustrates the water penetration effectiveness rating at their given ventilation rate.

WIND DRIVEN RAIN PERFORMANCE

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	133	198	294	375	485	558	680	760	871	991
Free Area Ventilation Rate (ft/min)	0	239	355	530	676	875	1055	1230	1370	1570	1790
Rating Effectiveness	A	A	A	A	A	A	A	B	B	B	C
Effectiveness Rating	A = 1 - 0.99		B = 0.989 - 0.95			C = 0.949 - 0.80			D = 0.80 - 0		

WIDTH

FREE AREA CALCULATIONS IN SQ. FT.

INCHES	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	.36	.58	.79	1.01	1.22	1.44	1.66	1.87	2.09	2.31	2.52	2.74	2.95	3.17	3.39	3.60	3.82	4.04	4.25
18	.63	1.01	1.39	1.77	2.14	2.52	2.90	3.28	3.66	4.04	4.41	4.79	5.17	5.55	5.93	6.30	6.68	7.06	7.44
24	.90	1.44	1.98	2.52	3.06	3.60	4.14	4.68	5.22	5.76	6.30	6.85	7.39	7.93	8.47	9.01	9.55	10.09	10.63
30	1.17	1.87	2.58	3.28	3.98	4.68	5.39	6.09	6.79	7.49	8.20	8.90	9.60	10.30	11.01	11.71	12.41	13.11	13.82
36	1.44	2.31	3.17	4.04	4.90	5.76	6.63	7.49	8.36	9.22	10.09	10.95	11.82	12.68	13.55	14.41	15.28	16.14	17.01
42	1.71	2.74	3.76	4.79	5.82	6.85	7.87	8.90	9.93	10.95	11.98	13.01	14.03	15.06	16.09	17.11	18.14	19.17	20.19
48	1.98	3.17	4.36	5.55	6.74	7.93	9.12	10.30	11.49	12.68	13.87	15.06	16.25	17.44	18.63	19.82	21.00	22.19	23.38
54	2.25	3.60	4.95	6.30	7.66	9.01	10.36	11.71	13.06	14.41	15.76	17.11	18.46	19.82	21.17	22.52	23.87	25.22	26.57
60	2.52	4.04	5.55	7.06	8.57	10.09	11.60	13.11	14.63	16.14	17.65	19.17	20.68	22.19	23.71	25.22	26.73	28.25	29.76
66	2.79	4.47	6.14	7.82	9.49	11.17	12.84	14.52	16.19	17.87	19.55	21.22	22.90	24.57	26.25	27.92	29.60	31.27	32.95
72	3.06	4.90	6.74	8.57	10.41	12.25	14.09	15.92	17.76	19.60	21.44	23.27	25.11	26.95	28.79	30.62	32.46	34.30	36.14
78	3.33	5.33	7.33	9.33	11.33	13.33	15.33	17.33	19.33	21.33	23.33	25.33	27.33	29.33	31.33	33.33	35.33	37.32	39.32
84	3.60	5.76	7.93	10.09	12.25	14.41	16.57	18.73	20.90	23.06	25.22	27.38	29.54	31.70	33.87	36.03	38.19	40.35	42.51
90	3.87	6.20	8.52	10.84	13.17	15.49	17.82	20.14	22.46	24.76	27.11	29.43	31.76	34.08	36.41	38.73	41.05	43.38	45.70
96	4.14	6.63	9.12	11.60	14.09	16.57	19.06	21.54	24.03	26.52	29.00	31.49	33.97	36.46	38.95	41.43	43.92	46.40	48.89

HEIGHT