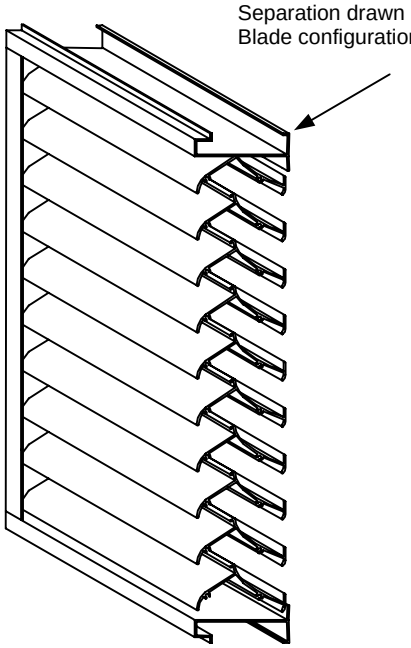
EXTRUDED ALUMINUM LOUVER

Non-drainable / Sightproof Louver in 4” thick design Model LED-04

Design Features – Non-drainable blade and vision proof design with the capability of being drainable in the interior side.

Separation drawn in a true 90° Blade configuration



STANDARD CONSTRUCTION

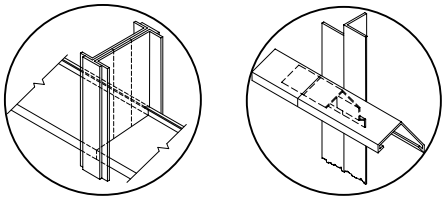
ALL MATERIAL – EXTRUDED ALUMINUM 6063-T5 (KB-45)

FRAME
4” thick, is .081 extruded aluminum in style #3.
BLADES
.081” extruded aluminum, approx. spacing is 2” @ 30°
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
(allows for best handling)
(Type of finish may limit maximum single section)
MULLION
Invisible
MINIMUM SIZE
12” w x 12” H
UNDERSIZED
1/4” under ordered size unless specified Exact or Actual
SCREEN
1/2" sq. mesh x .063 alum. wire screen in frame
FINISH
Mill

OPTIONAL CONSTRUCTION

FRAME – Available in a heavier extrusion of .125”
BLADES – Available in a heavier extrusion of .125”
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

MULLION STYLES



Visible Invisible

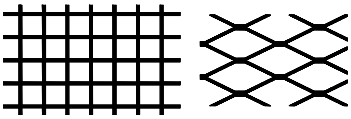
PERFORMANCE

Point of water penetration
1000 fpm
Free area
48 x 48 section
57%

SPECIAL PURPOSE CONSTRUCTION

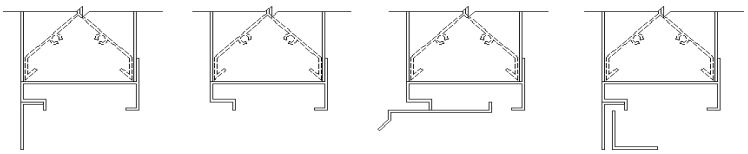
Fully welded construction
Security bars
Filter racks
Hinged as walk through door or for swing out access
Sleeved for ductwork connection

TYPICAL SCREEN STYLES



Wire Mesh Expanded Aluminum Standard

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	DESCRIPTIONS

DEPENDABLE PRODUCTS SINCE 1955

SAFE-AIR OF ILLINOIS INC.

Engineering and General Offices

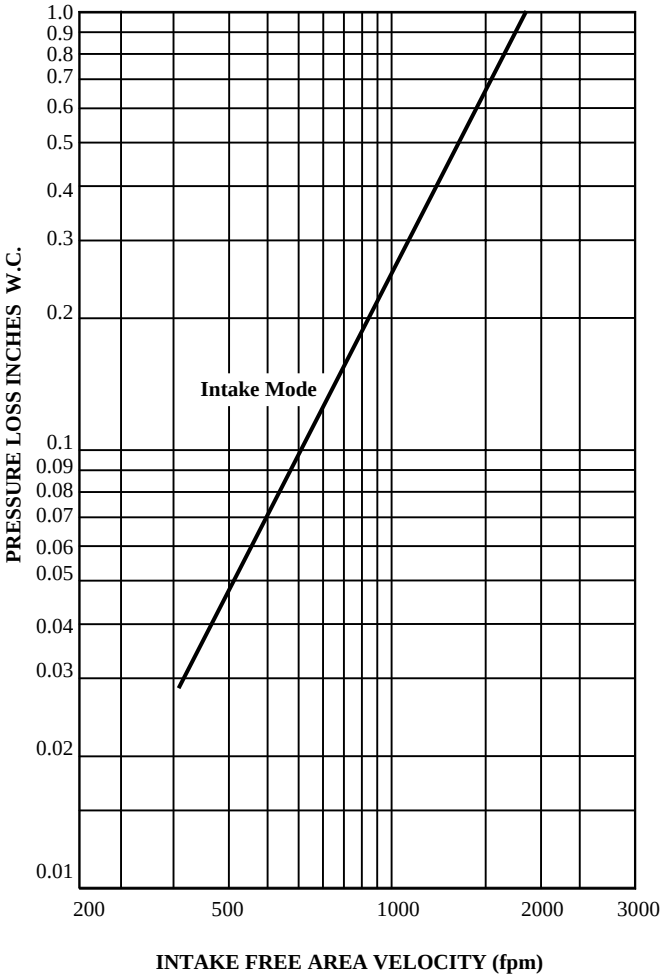
1855 South 54th Avenue, Cicero, Illinois 60804

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

LED-04 PERFORMANCE SPECIFICATIONS

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)

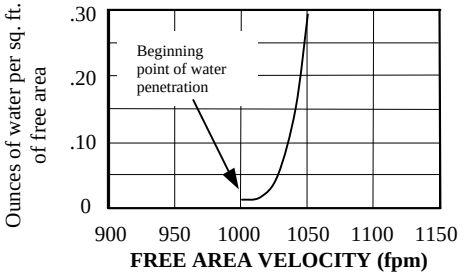
_____CFM / ____ FPM Free Area Velocity = _____Sq. Ft. Free Area

CALCULATING MAXIMUM AIRFLOW BEFORE WATER PENETRATION

The "free area flow rate" at which water penetration commences (.01 oz. of water) is established at, 1000 fpm for LED-04, and will vary depending upon actual weather conditions. The "water penetration" graph illustrates the results of actual laboratory test on a 48" x 48" test sample subjected to hypothetical rainfall conditions. To determined 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
free area over a 15 min. test period



1000 fpm beginning of water penetration

FREE AREA CALCULATIONS IN SQ. FT.

HEIGHT	WIDTH																				
Inches	**12**	**18**	**24**	**30**	**36**	**42**	**48**	**54**	**60**	**66**	**72**	**78**	**84**	**90**	**96**	**102**	**108**	**114**	**120**
12	0.42	0.67	0.92	1.17	1.42	1.68	1.93	2.18	2.43	2.68	2.93	3.18	3.43	3.69	3.94	4.19	4.44	4.69	4.94
18	0.68	1.09	1.49	1.90	2.31	2.72	3.12	3.53	3.94	4.34	4.75	5.16	5.57	5.97	6.38	6.79	7.20	7.60	8.01
24	0.94	1.50	2.07	2.63	3.19	3.76	4.32	4.88	5.45	6.01	6.57	7.14	7.70	8.26	8.83	9.39	9.95	10.52	11.08
30	1.20	1.92	2.64	3.36	4.08	4.80	5.51	6.23	6.95	7.67	8.39	9.11	9.83	10.55	11.27	11.99	12.71	13.43	14.15
36	1.46	2.33	3.21	4.08	4.96	5.84	6.71	7.59	8.46	9.34	10.21	11.09	11.96	12.84	13.71	14.59	15.46	16.34	17.21
42	1.72	2.75	3.78	4.81	5.84	6.88	7.91	8.94	9.97	11.00	12.03	13.06	14.09	15.13	16.16	17.19	18.22	19.25	20.28
48	1.98	3.17	4.35	5.54	6.73	7.92	9.10	10.29	11.48	12.66	13.85	15.04	16.23	17.41	18.60	19.79	20.98	22.16	23.35
54	2.24	3.58	4.93	6.27	7.61	8.96	10.30	11.64	12.99	14.33	15.67	17.02	18.36	19.70	21.05	22.39	23.73	25.08	26.42
60	2.50	4.00	5.50	7.00	8.50	10.00	11.49	12.99	14.49	15.99	17.49	18.99	20.49	21.99	23.49	24.99	26.49	27.99	29.49
66	2.76	4.41	6.07	7.72	9.38	11.04	12.69	14.35	16.00	17.66	19.31	20.97	22.62	24.28	25.93	27.59	29.24	30.90	32.55
72	3.02	4.83	6.64	8.45	10.26	12.08	13.89	15.70	17.51	19.32	21.13	22.94	24.75	26.57	28.38	30.19	32.00	33.81	35.62
78	3.28	5.25	7.21	9.18	11.15	13.12	15.08	17.05	19.02	20.98	22.95	24.92	26.89	28.85	30.82	32.79	34.76	36.72	38.69
84	3.54	5.66	7.79	9.91	12.03	14.16	16.28	18.40	20.53	22.65	24.77	26.90	29.02	31.14	33.27	35.39	37.51	39.64	41.76
90	3.80	6.08	8.36	10.64	12.92	15.20	17.47	19.75	22.03	24.31	26.59	28.87	31.15	33.43	35.71	37.99	40.27	42.55	44.83
96	4.06	6.49	8.93	11.36	13.80	16.24	18.67	21.11	23.54	25.98	28.41	30.85	33.28	35.72	38.15	40.59	43.02	45.46	47.89
102	4.32	6.91	9.50	12.09	14.68	17.28	19.87	22.46	25.05	27.64	30.23	32.82	35.41	38.01	40.60	43.19	45.78	48.37	50.96
108	4.58	7.33	10.07	12.82	15.57	18.32	21.06	23.81	26.56	29.30	32.05	34.80	37.55	40.29	43.04	45.79	48.54	51.28	54.03
114	4.84	7.74	10.65	13.55	16.45	19.36	22.26	25.16	28.07	30.97	33.87	36.78	39.68	42.58	45.49	48.39	51.29	54.20	57.10
120	5.10	8.16	11.22	14.28	17.34	20.40	23.45	26.51	29.57	32.63	35.69	38.75	41.81	44.87	47.93	50.99	54.05	57.11	60.17