EXTRUDED ALUMINUM LOUVER

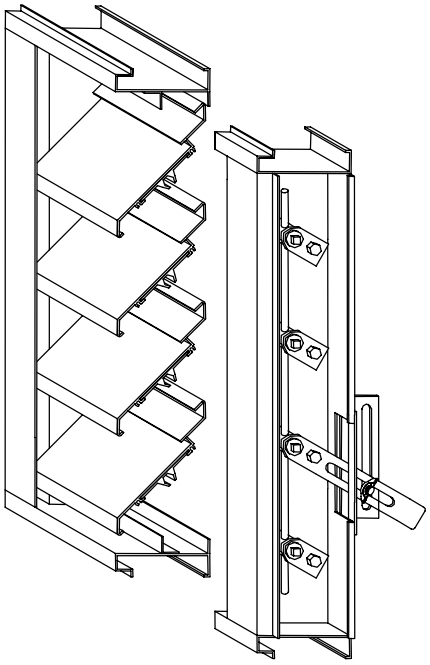
Adjustable Blade Louver in 4” or 6” thick frame design Model A-LEB

Design Features –Adjustable design variation of our traditional stepped blade configuration. Adjustable feature is useful on systems requiring periodic operation or a means of further deterring outside element penetration, which is made possible when the louver is in the closed position.

STANDARD CONSTRUCTION

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

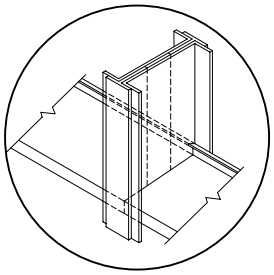
FRAME
A-LEB – 04” (102) thick, is .081 (2.1) extruded aluminum in style #3.
A-LEB – 06” (152) thick, is .081 (2.1) extruded aluminum in style #3.
BLADES
A-LEB – 04” (102) are .081” (2.1) extruded aluminum @ 45°
A-LEB – 06” (152) are .081” (2.1) extruded aluminum @ 45°
BLADE AXLES & BEARINGS
Axles- 7/16” Plated hex
Bearings- Bronze Oilite
LINKAGE
Concealed in jamb
MAXIMUM SIZE
Unlimited, with mullions, structural bracing supplied by others
MAXIMUM FACTORY ASSEMBLY SIZE
60”w x 96”h (1524 x 2438)
(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” x .051” (19 x 1.3) flattened expanded aluminum bird screen no frame
FINISH
Mill
OPERATOR
Wingnut adjustable



OPTIONAL CONSTRUCTION

FRAME – Available in a heavier extrusion of .125” (3.2)
BLADES – Available in a heavier extrusion of .125” (3.2)
BLADES & JAMB SEALS – Vinyl blade edge and/or flexible aluminum /stainless steel jamb seals
SCREEN - Many styles available please consult screen listing
LINKAGE – Blade mounted
FINISH – Air-dry primer, polyurethane, epoxy, or enamel. Baked epoxy, Anodize or Kynar
MULLION – Visible for architectural preference

MULLION STYLES



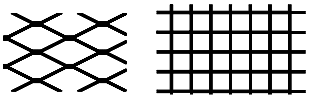
Visible

PERFORMANCE	
A-LEB 04	Pt. of Water Penetration **930 fpm** Free Area **46%** 48 x 48 unit size
A-LEB 06	Pt. of Water Penetration **852 fpm** Free Area **51%** 48 x 48 unit size

SPECIAL PURPOSE CONSTRUCTION

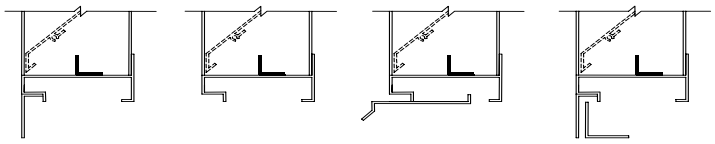
Fully welded construction
Filter racks
Sleeved for ductwork connection
Security bars
Jackshaft when required

TYPICAL SCREEN STYLES



Expanded Aluminum Standard Wire Mesh

FRAME STYLE



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

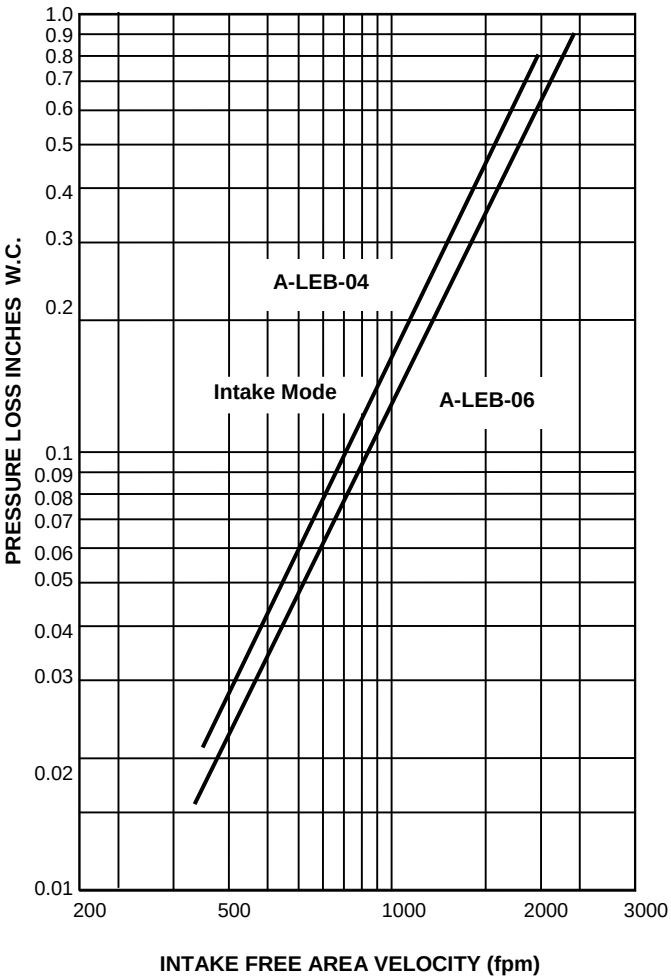
1855 South 54th Avenue, Cicero, Illinois 60804

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

A-LEB-04 & 06 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)

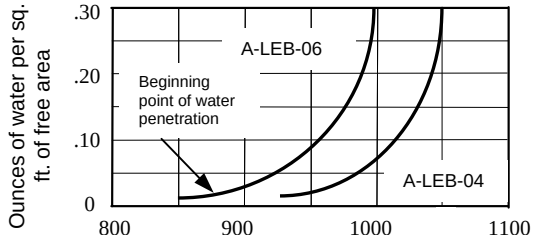
_____CFM / ____ FPM Free Area Velocity = _____Sq. Ft. Free Area

CALCULATING MAXIMUM AIRFLOW BEFORE WATER PENETRATION

The "free area flow rate" at which water penetration commences (.01 oz. of water) is established at, 930 fpm for A-LEB-04 and 852 fpm for A-LEB-06, 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



FREE AREA VELOCITY (fpm)
(A-LEB-04) **930 fpm beginning of water penetration**
(A-LEB-06) **852 fpm beginning of water penetration**

FREE AREA CALCULATIONS IN SQ. FT.

HEIGHT \ WIDTH	12	18	24	30	36	42	48	54	60
12 - 4"	0.2	0.35	0.5	0.65	0.8	0.95	1.1	1.25	1.4
- 6"	0.26	0.46	0.65	0.85	1.04	1.24	1.43	1.62	1.82
18 - 4"	0.42	0.74	1.05	1.36	1.67	1.99	2.3	2.61	2.93
- 6"	0.47	0.83	1.18	1.53	1.88	2.23	2.58	2.94	3.29
24 - 4"	0.61	1.07	1.53	1.99	2.44	2.9	3.36	3.81	4.27
- 6"	0.67	1.18	1.68	2.18	2.68	3.19	3.69	4.19	4.69
30 - 4"	0.76	1.33	1.89	2.46	3.02	3.59	4.16	4.72	5.29
- 6"	0.88	1.53	2.18	2.83	3.49	4.14	4.79	5.44	6.1
36 - 4"	0.94	1.65	2.35	3.06	3.76	4.47	5.17	5.88	6.58
- 6"	1.08	1.88	2.68	3.49	4.29	5.09	5.9	6.7	7.5
42 - 4"	1.16	2.03	2.9	3.77	4.63	5.5	6.37	7.24	8.11
- 6"	1.28	2.23	3.18	4.14	5.09	6.05	7	7.95	8.91
48 - 4"	1.34	2.34	3.34	4.34	5.35	6.35	7.35	8.35	9.35
- 6"	1.48	2.58	3.69	4.79	5.89	7	8.1	9.21	10.31
54 - 4"	1.49	2.6	3.71	4.82	5.93	7.04	8.15	9.26	10.37
- 6"	1.68	2.93	4.19	5.44	6.7	7.95	9.21	10.46	11.72
60 - 4"	1.68	2.94	4.2	5.46	6.72	7.98	9.24	10.5	11.76
- 6"	1.88	3.28	4.69	6.09	7.5	8.9	10.31	11.72	13.12
66 - 4"	1.9	3.33	4.75	6.17	7.6	9.02	10.44	11.87	13.29
- 6"	2.1	3.68	5.25	6.82	8.4	9.97	11.54	13.12	14.69
72 - 4"	2.07	3.61	5.16	6.7	8.25	9.79	11.34	12.89	14.43
- 6"	2.33	4.08	5.82	7.57	9.31	11.06	12.81	14.55	16.3
78 - 4"	2.21	3.87	5.52	7.17	8.83	10.48	12.14	13.79	15.45
- 6"	2.56	4.48	6.4	8.32	10.23	12.15	14.07	15.99	17.91
84 - 4"	2.43	4.24	6.06	7.87	9.69	11.5	13.32	15.13	16.95
- 6"	2.79	4.88	6.97	9.06	11.15	13.24	15.33	17.42	19.52
90 - 4"	2.64	4.62	6.6	8.58	10.56	12.54	14.51	16.49	18.47
- 6"	3.02	5.28	7.55	9.81	12.07	14.34	16.6	18.86	21.12
96 - 4"	2.79	4.88	6.97	9.06	11.15	13.24	15.33	17.42	19.51
- 6"	3.23	5.65	8.07	10.49	12.91	15.33	17.75	20.17	22.59