

Adjustable Blade Louver in 4" or 6" thick frame design Model A-LEC

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-LEC– 04" (102) thick, is .081" (2.1) extruded aluminum in style #3.
A-LEC– 06" (152) thick, is .081" (2.1) extruded aluminum in style #3.

BLADES

A-LEC – 04" (102) are .081" (2.1) extruded aluminum @ 45°
A-LEC – 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

Invisible

MINIMUM SIZE

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

UNDERSIZED

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

SCREEN

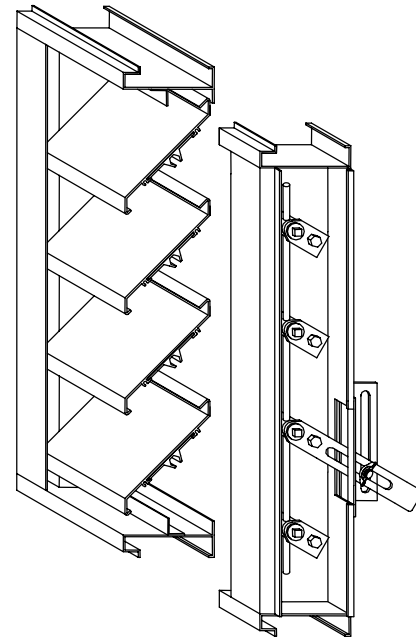
3/4" x .051" (19 x 1.3) flattened expanded aluminum bird screen no frame

FINISH

Mill

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

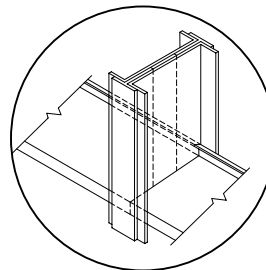
SCREEN - Many styles available please consult screen listing

FINISH – Air-dry primer, polyurethane, epoxy, or enamel. Baked epoxy, Anodize or Kynar

LINKAGE – Blade mounted

MULLION – Visible for architectural preference

MULLION STYLES



Visible

PERFORMANCE

PERFORMANCE	
A-LEC 04	Pt. of Water Penetration 879 fpm Free Area 47% 48 x 48 unit size
A-LEC 06	Pt. of Water Penetration 906 fpm Free Area 53% 48 x 48 unit size

SPECIAL PURPOSE CONSTRUCTION

Fully welded construction

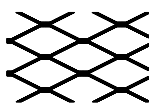
Security bars

Filter racks

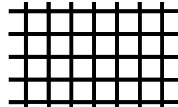
Jackshaft when required

Sleeved for ductwork connection

TYPICAL SCREEN STYLES

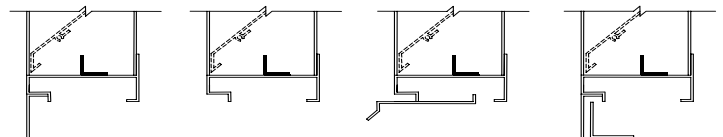


Expanded Aluminum Standard



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.

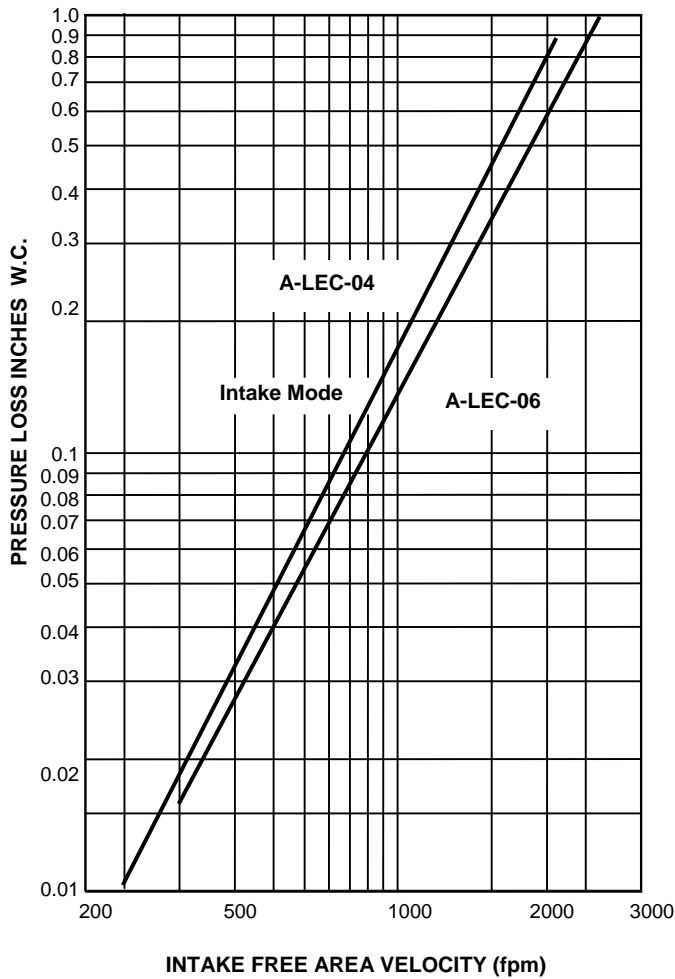
Engineering and General Offices

1855 South 54th Avenue, Cicero, Illinois 60804

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

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

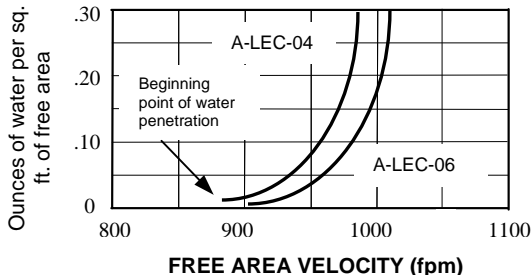
The "free area flow rate" at which water penetration commences (.01 oz. of water) is established at, 879 fpm for A-LEC-04 and 906 fpm for A-LEC-06, and will vary depending upon actual weather conditions. The "water penetration" graph illustrates the results of actual laboratory test on a 48" x 48" test sample subjected to hypothetical rainfall conditions. To 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)

FREE AREA CALCULATIONS IN SQ. FT.

	WIDTH								
	12	18	24	30	36	42	48	54	60
12 - 4"	0.25	0.43	0.62	0.8	0.98	1.17	1.35	1.53	1.72
- 6"	0.27	0.47	0.67	0.87	1.08	1.28	1.48	1.68	1.95
18 - 4"	0.48	0.83	1.18	1.53	1.89	2.24	2.59	2.94	3.3
- 6"	0.48	0.84	1.2	1.56	1.92	2.28	2.64	3	3.81
24 - 4"	0.62	1.09	1.55	2.01	2.47	2.94	3.4	3.86	4.33
- 6"	0.7	1.21	1.73	2.25	2.77	3.29	3.8	4.32	5.31
30 - 4"	0.81	1.41	2.01	2.62	3.22	3.82	4.43	5.03	5.63
- 6"	0.91	1.58	2.26	2.94	3.61	4.29	4.97	5.64	6.95
36 - 4"	1.04	1.81	2.58	3.35	4.13	4.9	5.67	6.45	7.22
- 6"	1.12	1.95	2.79	3.62	4.46	5.29	6.13	6.96	8.81
42 - 4"	1.21	2.12	3.02	3.92	4.83	5.73	6.64	7.54	8.45
- 6"	1.33	2.32	3.32	4.31	5.3	6.3	7.29	8.29	10.62
48 - 4"	1.37	2.39	3.41	4.44	5.46	6.48	7.5	8.52	9.55
- 6"	1.54	2.69	3.85	5	6.15	7.3	8.46	9.61	11.95
54 - 4"	1.6	2.79	3.98	5.17	6.37	7.56	8.75	9.94	11.14
- 6"	1.75	3.06	4.37	5.69	7	8.31	9.62	10.93	13.82
60 - 4"	1.8	3.14	4.49	5.84	7.18	8.53	9.87	11.22	12.56
- 6"	1.96	3.43	4.9	6.37	7.84	9.31	10.78	12.25	15.68
66 - 4"	1.95	3.4	4.86	6.31	7.77	9.23	10.68	12.14	13.59
- 6"	2.2	3.85	5.49	7.14	8.78	10.43	12.08	13.72	17.26
72 - 4"	2.15	3.77	5.38	6.99	8.6	10.21	11.83	13.44	15.05
- 6"	2.44	4.27	6.09	7.92	9.75	11.57	13.4	15.23	18.82
78 - 4"	2.38	4.16	5.95	7.73	9.51	11.29	13.07	14.86	16.64
- 6"	2.68	4.69	6.7	8.7	10.71	12.72	14.72	16.73	20.68
84 - 4"	2.53	4.43	6.33	8.23	10.12	12.02	13.92	15.82	17.71
- 6"	2.92	5.11	7.3	9.48	11.67	13.86	16.05	18.23	22.54
90 - 4"	2.71	4.75	6.78	8.81	10.84	12.87	14.9	16.93	18.97
- 6"	3.16	5.53	7.89	10.26	12.63	14.99	17.36	19.72	23.89
96 - 4"	2.94	5.14	7.34	9.55	11.75	13.95	16.15	18.35	20.55
- 6"	3.37	5.9	8.42	10.95	13.47	16	18.52	21.05	25.68

Water Penetration Graph
 in oz. of water per sq. ft. of free area over a 15 min. test period



(A-LEC-04) **879 fpm** beginning of water penetration
 (A-LEC-06) **906 fpm** beginning of water penetration