

**Adjustable Blade Louver in 4" thick frame design - Model A-LEG-04**

**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 ALLOY (6063-T5), (6063-T6) or (6061-T6)

**FRAME**

A-LEG- 04" (102) thick, is .081 (2.1) extruded aluminum in style #3.

**BLADES**

A-LEG – 04" (102) are .081" (2.1) extruded aluminum @ 20°

**BLADE AXLES & BEARINGS**

Axles- 7/16" Plated hex

Bearings- 1/2" (13) 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**

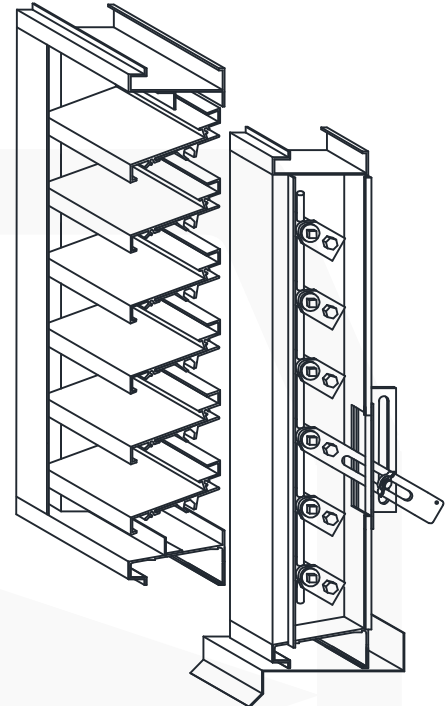
3/4" x .051" (19 x 1.3) flattened expanded aluminum bird screen no frame

**FINISH**

Mill

**OPERATOR**

Standard Manual Operator



**OPTIONAL CONSTRUCTION**

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

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

**BLADE & JAMB SEALS** – Vinyl blade edge and / or flexible metal jamb seals

(Note: With seals daylight shall still be visible between blades and on the sides.)

**SCREEN** - Many styles available please consult screen listing

**LINKAGE** – Blade mounted

**FINISH** – Air-dry primer, polyurethane, epoxy, or enamel, baked epoxy or enamel, Kynar, or Powder coat.

**OPERATOR** – Wingnut, Electric, or Pneumatic

**SPECIAL PURPOSE CONSTRUCTION**

Fully welded construction

Security bars

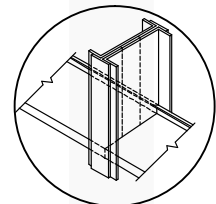
Filter racks

Jackshaft when required

Sleeved for ductwork connection

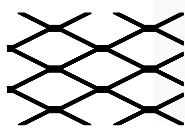
PERFORMANCE
Point of water penetration
970 fpm (296)
Free area
48 x 48 section
59%

**MULLION STYLES**

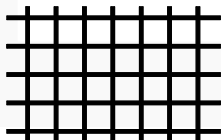


Visible

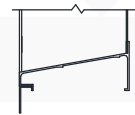
**TYPICAL SCREEN STYLES**



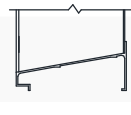
Expanded Aluminum Standard



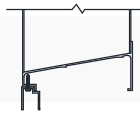
Wire Mesh



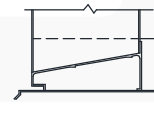
1- Flange (1.5")



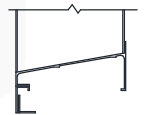
3 - Box



4 - Glazing Adapter



8- Box with Sill Extension



9 - Flange w/ Sub Frame

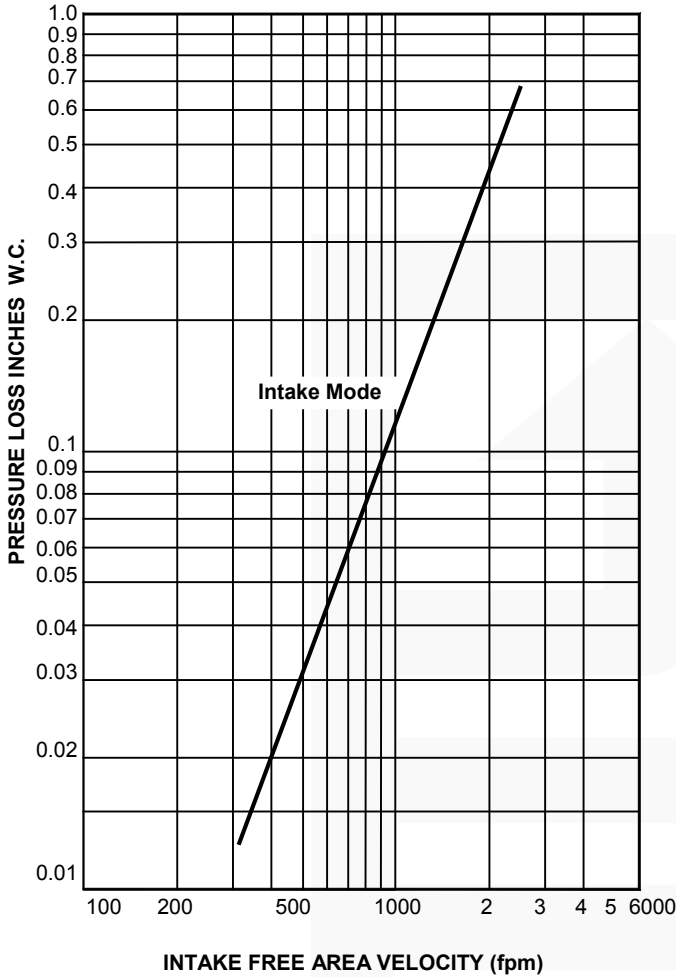
**FRAME STYLE**

DATE	ARCHITECT/ENGINEER				CUSTOMER
PROJECT					
ITEM	QTY	W	H	DESCRIPTION	

**A-LEG-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

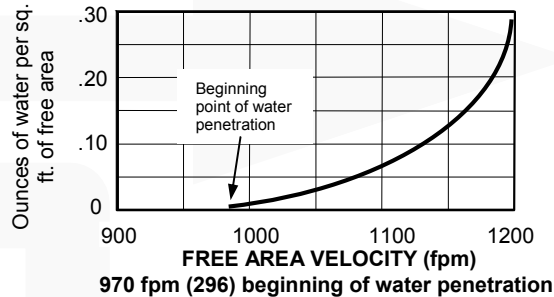
**CALCULATING MAXIMUM AIRFLOW BEFORE WATER PENETRATION**

The "free area flow rate" at which water penetration commences (.01 oz. of water) is established at, 970 fpm (296), 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 free area over a 15 min. test period

.01	.02	.05	.1	.2	.3 (H2O)
970	1010	1027	1126	1181	1193 (fpm)



**FREE AREA CALCULATIONS IN SQ. FT.**

	WIDTH									
Inches	12	18	24	30	36	42	48	54	60	HEIGHT
12	0.28	0.49	0.70	0.91	1.12	1.32	1.53	1.74	1.95	
18	0.55	0.96	1.36	1.77	2.18	2.59	3.00	3.40	3.81	
24	0.76	1.33	1.90	2.47	3.04	3.61	4.18	4.74	5.31	
30	1.00	1.74	2.49	3.23	3.97	4.72	5.46	6.21	6.95	
36	1.26	2.21	3.15	4.10	5.04	5.98	6.93	7.87	8.81	
42	1.52	2.66	3.80	4.93	6.07	7.21	8.35	9.48	10.62	
48	1.71	2.99	4.27	5.55	6.83	8.11	9.39	10.67	11.95	
54	1.98	3.46	4.94	6.42	7.90	9.38	10.86	12.34	13.82	
60	2.24	3.92	5.60	7.28	8.96	10.64	12.32	14.00	15.68	
66	2.47	4.32	6.17	8.01	9.86	11.71	13.56	15.41	17.26	
72	2.69	4.71	6.72	8.74	10.76	12.77	14.79	16.80	18.82	
78	2.96	5.17	7.39	9.61	11.82	14.04	16.25	18.47	20.68	
84	3.22	5.64	8.05	10.47	12.88	15.30	17.71	20.13	22.54	
90	3.42	5.98	8.54	11.10	13.65	16.21	18.77	21.33	23.89	
96	3.67	6.42	9.18	11.93	14.68	17.43	20.18	22.93	25.68	

