

## Weather Protective Blade Louver in 6" deep frame design • Model LEB-06

**Design Features** – Traditional design with upper blade surface turn back for improved weather protection and architectural pleasing appearance. Louvers are designed to withstand inward and outward wind pressure up to 25 psf (100 mph).

### STANDARD CONSTRUCTION

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

#### FRAME

LEB-06, 6" (152) deep, .081" ga. (2.1) extruded alum. in style #3.

#### BLADES

LEB-06, 6" (152), .081" ga. (2.1) extruded alum, approx. spacing is 6-1/2" (165) @ 45°

#### FASTENERS

#10 Plated steel screw

#### MAXIMUM SIZE

Unlimited, with mullions, structural bracing supplied by others

#### MAXIMUM FACTORY ASSEMBLY SIZE

120" W x 84" H or vice versa (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

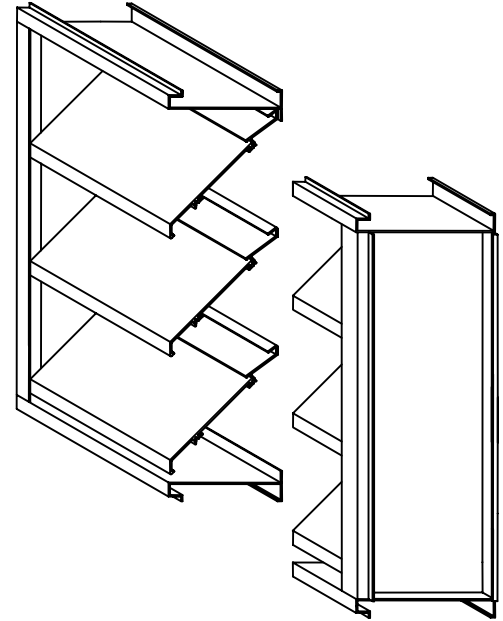
1/4" (6) under ordered size unless specified Exact or Actual

#### SCREEN

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

#### FINISH

Mill



### OPTIONAL CONSTRUCTION

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

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

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

**FINISH** – Air-dry primer, Polyurethane, Epoxy, Baked Enamel, Powder Coat, Anodized or Kynar 500.

**MULLION** – Visible for architectural preference

### SPECIAL PURPOSE CONSTRUCTION

Special Shapes; Round, Triangle, Trapezoid, Octagon, and etc.

Fully welded construction

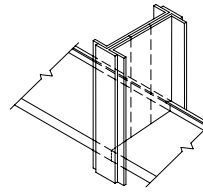
Security bars

Filter racks

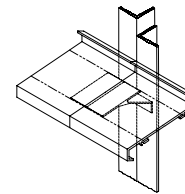
Hinged as walk through door or for swing out access

Sleeved for ductwork connection

### MULLION STYLES



Visible



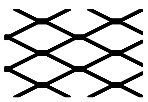
Invisible  
Standard

### PERFORMANCE

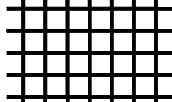
Point of  
Water Penetration  
852 fpm (260)

Free Area  
48" x 48" (1219 x 1219)  
54%

### TYPICAL SCREEN STYLES

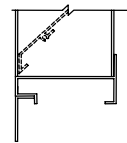


Expanded Aluminum  
Standard

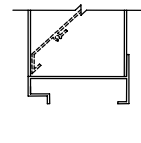


Wire Mesh

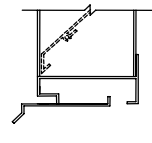
### FRAME STYLES



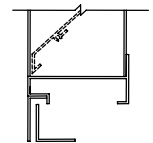
(1) - Flange  
1-1/2" (38)



(3) - Box  
Standard



(8) - Box and  
Sill Extension



(9) - Flange  
w/ sub frame

DATE		ARCHITECT / ENGINEER		CUSTOMER	
PROJECT					
ITEM	QTY	W	H	TAG	



DEPENDABLE PRODUCTS SINCE 1955

### SAFE-AIR / DOWCO

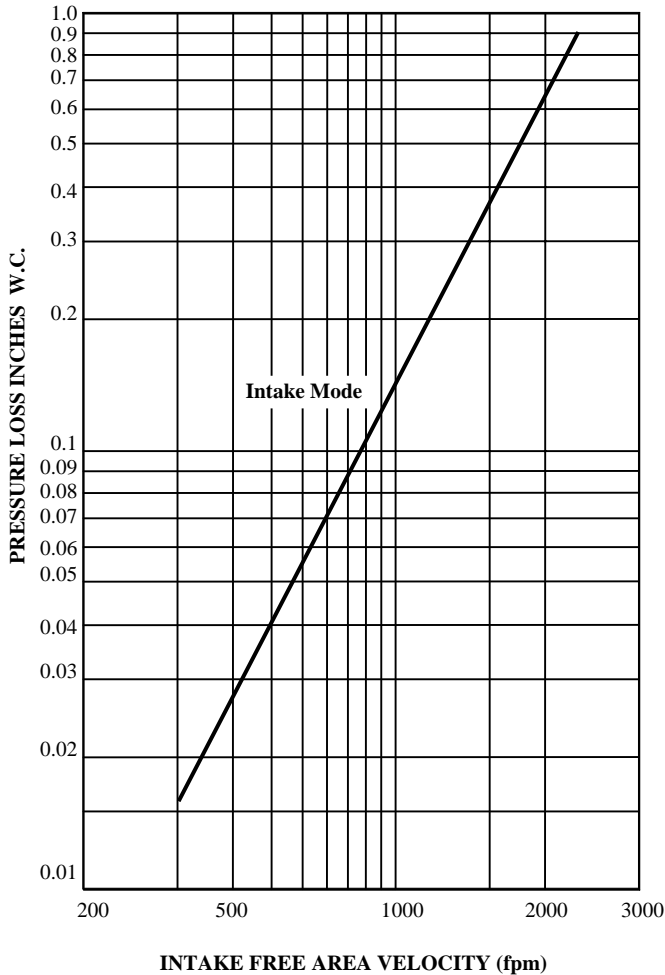
Engineering and General Offices

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

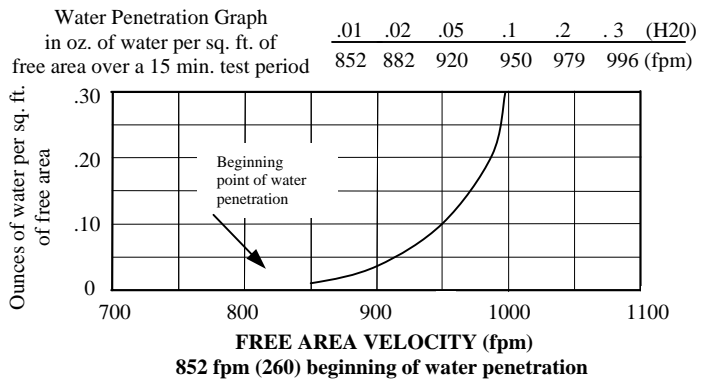
Based upon a given flow rate (in CFM), the flowing pressure loss may be determined from the “air performance” graph, knowing the sq. ft. of free area of the louver. Alternately, the free area may be determined based upon a volumetric flow rate and a maximum pressure loss. Utilizing the “air performance” 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, 852 fpm (260) for 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” (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)



### FREE AREA CALCULATIONS IN SQ. FT.

WIDTH

INCHES	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	.19	.31	.42	.53	.65	.76	.88	.99	1.11	1.22	1.34	1.45	1.57	1.68	1.80	1.91	2.02	2.14	2.25
18	.46	.74	1.01	1.29	1.56	1.84	2.12	2.39	2.67	2.94	3.22	3.50	3.77	4.05	4.32	4.60	4.88	5.15	5.43
24	.75	1.19	1.64	2.09	2.54	2.99	3.43	3.88	4.33	4.78	5.23	5.67	6.12	6.57	7.02	7.47	7.91	8.36	8.81
30	1.03	1.65	2.27	2.89	3.51	4.13	4.75	5.37	5.99	6.61	7.23	7.85	8.47	9.09	9.71	10.33	10.95	11.57	12.19
36	1.32	2.11	2.90	3.69	4.49	5.28	6.07	6.86	7.65	8.44	9.24	10.03	10.82	11.61	12.40	13.19	13.99	14.78	15.57
42	1.61	2.57	3.53	4.50	5.46	6.42	7.39	8.35	9.31	10.28	11.24	12.20	13.17	14.13	15.10	16.06	17.02	17.99	18.95
48	1.87	2.99	4.11	5.23	6.35	7.47	8.59	9.70	10.82	11.94	13.06	14.18	15.30	16.42	17.54	18.66	19.78	20.90	22.02
54	2.12	3.39	4.66	5.93	7.20	8.47	9.74	11.01	12.28	13.56	14.83	16.10	17.37	18.64	19.91	21.18	22.45	23.72	24.99
60	2.37	3.79	5.21	6.64	8.06	9.48	10.90	12.32	13.74	15.17	16.59	18.01	19.43	20.85	22.28	23.70	25.12	26.54	27.96
66	2.62	4.19	5.77	7.34	8.91	10.49	12.06	13.63	15.20	16.78	18.35	19.92	21.50	23.07	24.64	26.22	27.79	29.36	30.93
72	2.87	4.60	6.32	8.05	9.77	11.49	13.22	14.94	16.66	18.39	20.11	21.84	23.56	25.28	27.01	28.73	30.46	32.18	33.90
78	3.13	5.00	6.88	8.75	10.63	12.50	14.38	16.25	18.13	20.00	21.88	23.75	25.63	27.50	29.38	31.25	33.13	35.00	36.88
84	3.38	5.40	7.43	9.45	11.48	13.51	15.53	17.56	19.59	21.61	23.64	25.66	27.69	29.72	31.74	33.77	35.79	37.82	39.85
90	3.63	5.81	7.98	10.16	12.34	14.51	16.69	18.87	21.05	23.22	25.40	27.58	29.75	31.93	34.11	36.28	38.46	40.64	42.82
96	3.90	6.24	8.57	10.91	13.25	15.59	17.93	20.27	22.61	24.94	27.28	29.62	31.96	34.30	36.64	38.98	41.31	43.65	45.99

HEIGHT