

okay mh  
6-18-97

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

**Features** — Traditional design with upper blade surface turn back for improved weather protection and architectural pleasing appearance.

### STANDARD CONSTRUCTION

**ALL MATERIAL — EXTRUDED ALUMINUM 6063 - T5 (KB - 45)**

#### FRAME

LEB - 06" thick, is .081" extruded aluminum in style #3

#### BLADES

LEB - 06", are .094" extruded aluminum, apx. spacing is 6 1/2" @ 45°

#### MAXIMUM SIZE

Unlimited, with mullions, structural bracing supplied by others

#### MAXIMUM SINGLE SECTION

120"W x 96"H or 96"W x 120"H (allows for best handling)  
(Type of finish required may limit max single section size)

#### MULLIONS

Invisible

#### MINIMUM SIZE

12"W x 12"H

#### UNDERSIZED

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

#### SCREEN

3/4" .051" Flattened expanded aluminum bird screen no frame

#### FINISH

Mill

### OPTIONAL CONSTRUCTION

**FRAME** - Available in a heavier extrusion of .125"

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

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

**MULLIONS** - Visible for architectural preference

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

### SPECIAL PURPOSE CONSTRUCTION

Special shapes; Round, Triangle, Trapezoid, Octagon, etc.

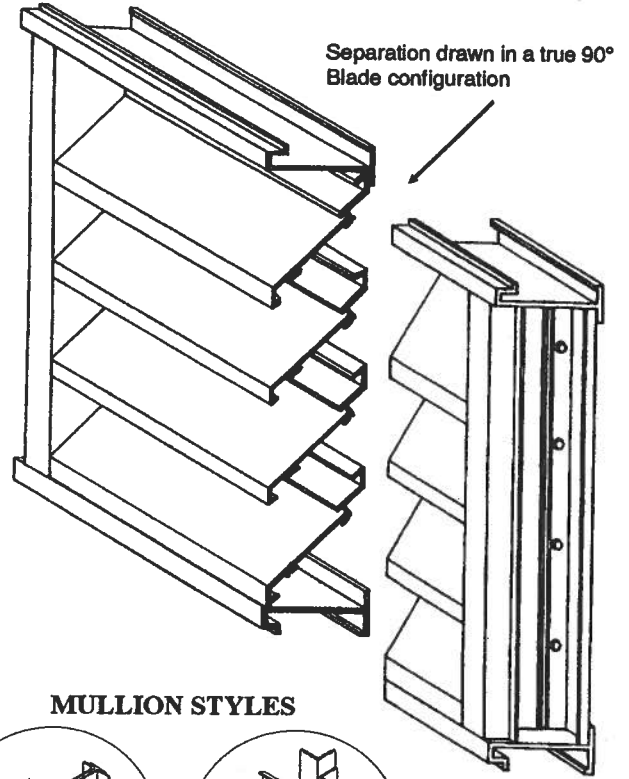
Fully welded assembly

Security bars

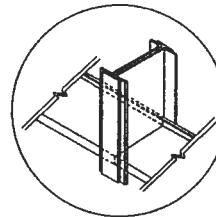
Filter racks

Hinged as walk through door or for swing out access

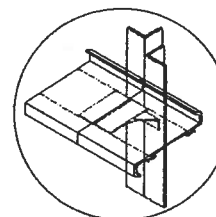
Sleeved for ductwork connection



### MULLION STYLES



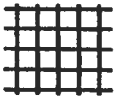
Visible



Invisible

PERFORMANCE	
Point of water penetration	852 fpm
Free area	48 x 48 section
	54%

### TYPICAL SCREEN STYLES

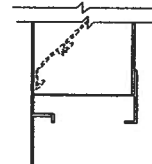


Wire Mesh

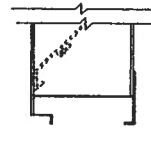


Expanded Aluminum - Standard

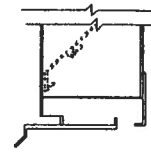
### FRAME STYLES



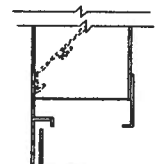
1 - Flange ( 1.5" )



3 - Box



8 - Box with Sill Extension



9 - Flange with Sub Frame

DATE	ARCHITECT			ENGINEER		
PROJECT						
ITEM	QTY	W	H		<p>DOWCO PRODUCTS GROUP certifies that the LEB louvers shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance ratings and water penetration ratings.</p>	



## DOWCO®

DEPENDABLE PRODUCTS SINCE 1955

### DOWCO Products Group

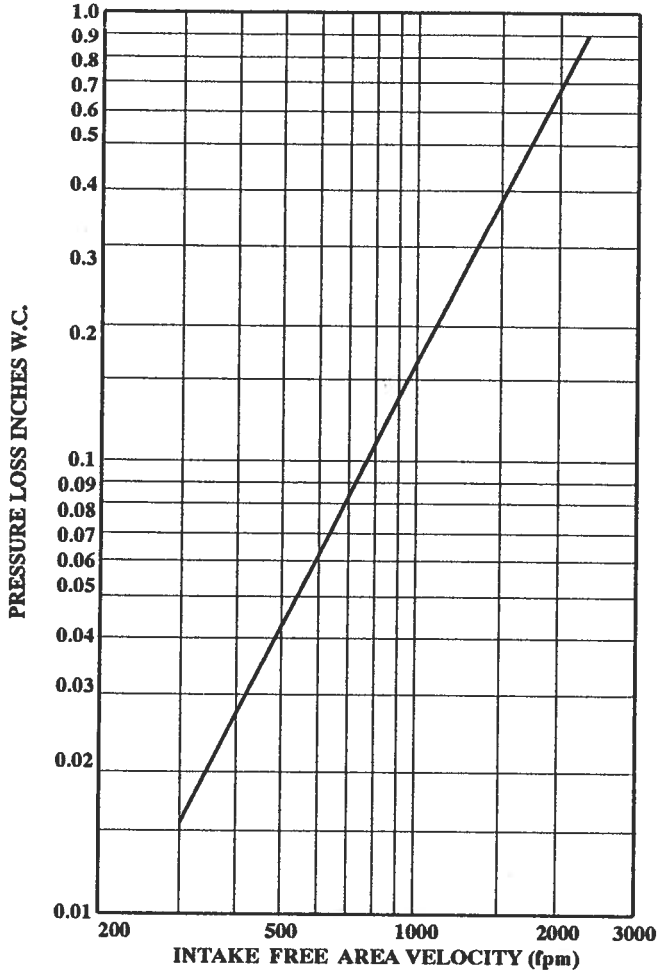
Engineering and General Offices

1855 South 54th Avenue, Cicero, Illinois 60804

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

All tests performed in accordance with 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. Pres. Loss Intake or Exhaust

\_\_\_\_\_ FPM (Free Area Velocity From "Air Performance" Graph)

\_\_\_\_\_ CFM / \_\_\_\_\_ FPM Free Area Velocity = \_\_\_\_\_ Sq. Ft. Free Area

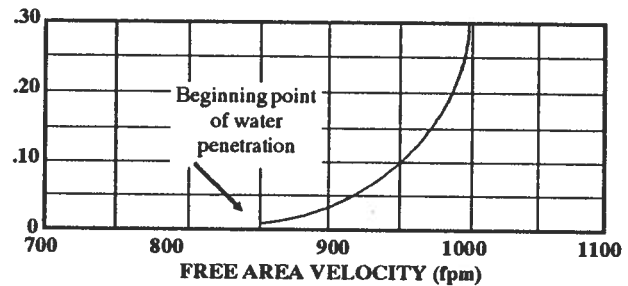
### CALCULATING MAXIMUM AIRFLOW BEFORE WATER PENETRATION

The "free area flow rate" at which water penetration commences (.01 oz. of water) is established at, 852 fpm, for LEB-06, and will vary depending upon actual weather conditions. The "water penetration" graph illustrates the results of actual laboratory tests on a 48" x 48" test sample subjected to hypothetical rainfall conditions. To determine the free area (in sq. ft.) based 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

Actual test results in oz. of water carryover					
.01	.02	.05	.1	.2	.3 (H <sub>2</sub> O)
852	882	920	950	979	996 (fpm)



### WIDTH

### FREE AREA CALCULATIONS IN SQ. FT.

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