

**Weather Protective Blade Louver in 2" thick frame design Model LEZ-02**

**Design Features** – Narrow profile multipurpose design. Stormproof blade shape to deter water and offer a clean appearance.

**STANDARD CONSTRUCTION**

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

**FRAME**

.063" (1.6) extruded aluminum in style #3

**BLADES**

.063" (1.6) extruded aluminum, approx spacing is 2-1/2" o.c. (64) @ 45°

**FASTENERS**

Plated steel, tek screw

**MAXIMUM SIZE**

Unlimited, with mullions, structural bracing supplied by others

**MAXIMUM FACTORY ASSEMBLY SIZE**

120" w x 84" h or 84" w x 120" h

(allows for best handling)

(Type of finish may limit maximum single section)

**MULLION**

Visible Only

**MINIMUM SIZE**

12" w x 8" h (305 x 203)

**UNDERSIZED**

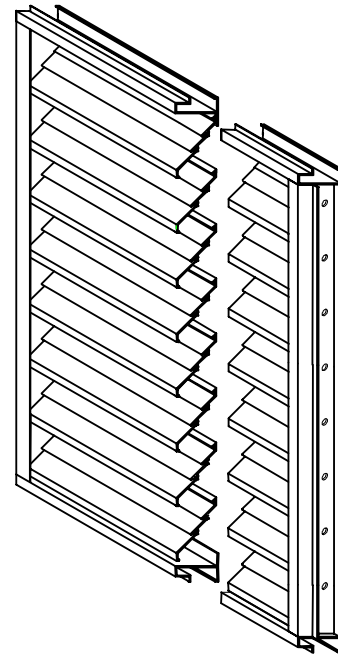
1/4" (6) under ordered size unless specified Exact or Actual

**SCREEN**

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

**FINISH**

Mill



**OPTIONAL CONSTRUCTION**

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

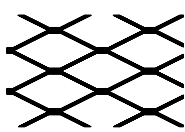
**FINISH** – Factory Prime Coat, Powder Epoxy, Powder Coat (AAMA 2604), Powder Coat (AAMA 2605), Kynar 500 2-step, Kynar 500 3-step, Clear Anodized 204-R1, Clear Anodized 215-R1, Bronze Anodized, Black Anodized

**SPECIAL PURPOSE CONSTRUCTION**

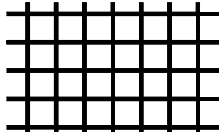
Special shapes: Triangle, Round, Trapezoid, etc.  
Fully welded construction  
Security bars  
Filter racks  
Hinged as walk through door or for swing out for access  
Sleeved for ductwork connection

\*\* Consult SAFE-AIR/DOWCO for additional technical information.

**TYPICAL SCREEN STYLES**

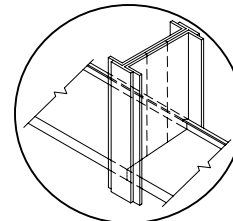


Expanded Aluminum Standard



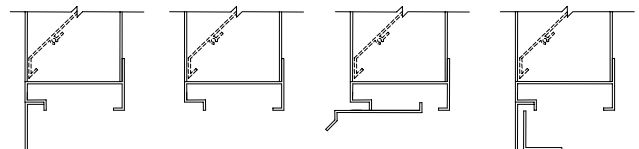
Wire Mesh

**MULLION STYLE**



Visible

**FRAME STYLES**



(1) - Flange 1-1/2"

(3) - Box Standard

(8) - Box and Sill Extension

(9) - Flange w/ sub frame

DATE	ARCHITECT			CUSTOMER
PROJECT				
ITEM	QTY	W	H	DESCRIPTION



DEPENDABLE PRODUCTS SINCE 1955

**SAFE-AIR OF ILLINOIS INC.**

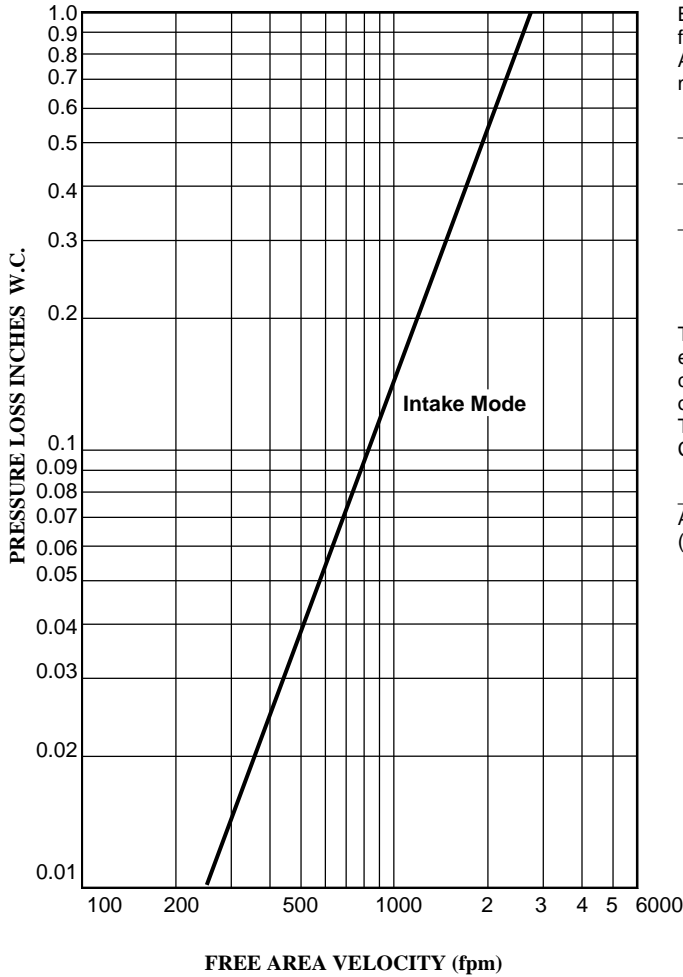
*Engineering and General Offices*

1855 South 54<sup>th</sup> Avenue, Cicero, Illinois 60804

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All tests performed at an independent laboratory and based on AMCA standard – 500 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 damper. Alternately, the free area may be determined based upon a volumetric flow rate and a maximum pressure loss. Utilizing the "air performance" graph.

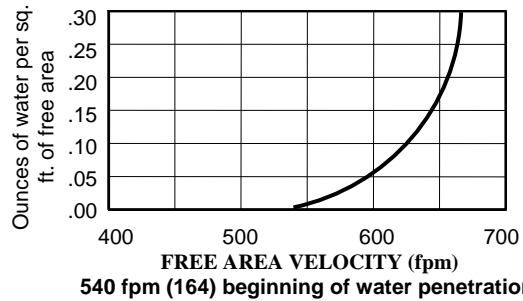
\_\_\_\_\_ in. W.C. Max. Pressure Loss Intake or Exhaust  
 \_\_\_\_\_ FPM (Free Area Velocity From "Air Performance" Graph)  
 \_\_\_\_\_ CFM / \_\_\_\_\_ FPM Free Area Velocity = \_\_\_\_\_ Sq. Ft. Free Area

### CALCULATING MAXIMUM AIRFLOW BEFORE WATER PENETRATION

The "free area flow rate" at which water penetration commences (.01 oz. of water) is established at, 540 fpm (164) for LEZ-02, 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



### 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	0.28	0.44	0.60	0.76	0.92	1.08	1.24	1.41	1.57	1.73	1.89	2.05	2.21	2.37	2.53	2.69	2.85	3.01	3.17
18	0.52	0.81	1.11	1.40	1.70	1.99	2.29	2.58	2.88	3.17	3.47	3.76	4.06	4.36	4.65	4.95	5.24	5.54	5.83
24	0.69	1.08	1.48	1.87	2.26	2.66	3.05	3.44	3.84	4.23	4.63	5.02	5.41	5.81	6.20	6.59	6.99	7.38	7.78
30	0.92	1.45	1.97	2.50	3.03	3.55	4.08	4.61	5.13	5.66	6.19	6.71	7.24	7.77	8.29	8.82	9.35	9.87	10.40
36	1.12	1.76	2.40	3.04	3.68	4.32	4.96	5.60	6.24	6.88	7.52	8.16	8.80	9.44	10.08	10.72	11.36	12.00	12.64
42	1.31	2.07	2.82	3.57	4.32	5.07	5.82	6.57	7.32	8.08	8.83	9.58	10.33	11.08	11.83	12.58	13.33	14.08	14.84
48	1.55	2.44	3.32	4.21	5.09	5.98	6.87	7.75	8.64	9.52	10.41	11.29	12.18	13.07	13.95	14.84	15.72	16.61	17.50
54	1.72	2.71	3.69	4.68	5.66	6.64	7.63	8.61	9.60	10.58	11.56	12.55	13.53	14.52	15.50	16.49	17.47	18.45	19.44
60	1.96	3.07	4.19	5.31	6.42	7.54	8.66	9.78	10.89	12.01	13.13	14.24	15.36	16.48	17.60	18.71	19.83	20.95	22.06
66	2.15	3.38	4.61	5.84	7.07	8.30	9.53	10.77	12.00	13.23	14.46	15.69	16.92	18.15	19.38	20.61	21.84	23.07	24.30
72	2.35	3.69	5.03	6.37	7.71	9.06	10.40	11.74	13.08	14.42	15.77	17.11	18.45	19.79	21.13	22.47	23.82	25.16	26.50
78	2.58	4.06	5.54	7.01	8.49	9.97	11.44	12.92	14.39	15.87	17.35	18.82	20.30	21.78	23.25	24.73	26.21	27.68	29.16
84	2.76	4.33	5.91	7.48	9.06	10.63	12.20	13.78	15.35	16.93	18.50	20.08	21.65	23.23	24.80	26.38	27.95	29.53	31.10
90	2.99	4.70	6.40	8.11	9.82	11.53	13.23	14.94	16.65	18.36	20.07	21.77	23.48	25.19	26.90	28.60	30.31	32.02	33.73
96	3.19	5.01	6.83	8.65	10.47	12.29	14.11	15.93	17.75	19.57	21.40	23.22	25.04	26.86	28.68	30.50	32.32	34.14	35.96
102	3.38	5.31	7.25	9.18	11.11	13.04	14.98	16.91	18.84	20.77	22.70	24.64	26.57	28.50	30.43	32.37	34.30	36.23	38.16
108	3.62	5.68	7.75	9.82	11.88	13.95	16.02	18.09	20.15	22.22	24.29	26.35	28.42	30.49	32.55	34.62	36.69	38.75	40.82
114	3.79	5.95	8.12	10.29	12.45	14.62	16.78	18.95	21.11	23.28	25.44	27.61	29.77	31.94	34.10	36.27	38.44	40.60	42.77
120	4.02	6.32	8.62	10.92	13.21	15.51	17.81	20.11	22.41	24.71	27.00	29.30	31.60	33.90	36.20	38.50	40.79	43.09	45.39

HEIGHT