

## Architectural Thin Line Louver in 1-1/4" thick frame Model LES-01

**Design Features** – Thin line louver provides visual screening of exterior equipment openings. Effectively direct high free area velocity.

### STANDARD CONSTRUCTION

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

#### FRAME

.063" extruded aluminum in style #3

#### BLADES

.063" extruded aluminum, approx spacing is 3/4" o.c. @ 30°

#### 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

#### MINIMUM SIZE

12" w x 12" h (305 x 305mm)

#### UNDERSIZED

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

#### SCREEN

None

#### FINISH

Mill

### OPTIONAL CONSTRUCTION

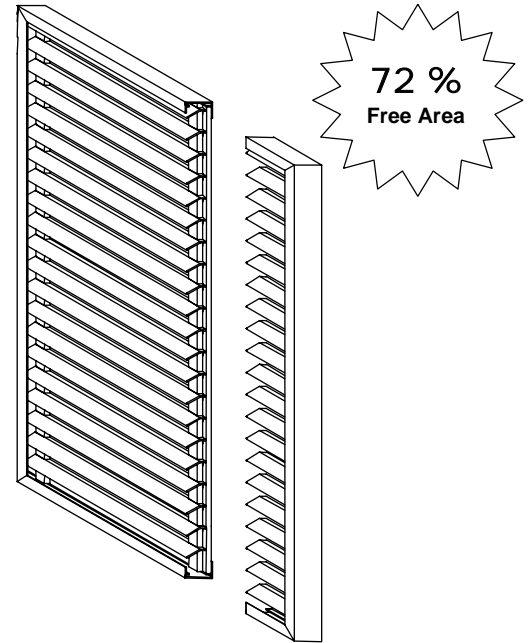
**FINISH** – Factory Prime Coat, Powder Epoxy, Powder Coat (AAMA 2604), Powder Coat (AAMA 2605), Kynar 500 2-step, Kynar 500 3-step, Clear Anodized 204-R1\*, Clear Anodized 215-R1\*, Bronze Anodized\*, Black Anodized\*

\*Please note that anodized finishes cannot exceed 48" in width or height due to tank size limitations, consult factory for sizes in excess of 48" in either dimension

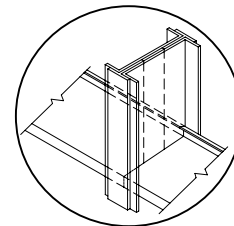
### SPECIAL PURPOSE CONSTRUCTION

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

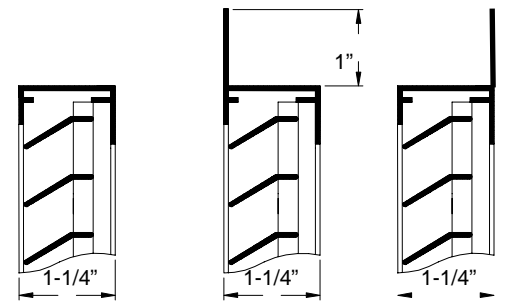
\*\* Consult SAFE-AIR/DOWCO for additional technical information.



#### MULLION STYLE



Visible



Box # 3

Flange # 1  
1" Front Flange

Flange # 5  
1" Reverse Flange

#### FRAME STYLES

DATE		ARCHITECT		CUSTOMER	
PROJECT					
ITEM	QTY	W	H	DESCRIPTION	



DEPENDABLE PRODUCTS SINCE 1955

**SAFE-AIR OF ILLINOIS INC.**

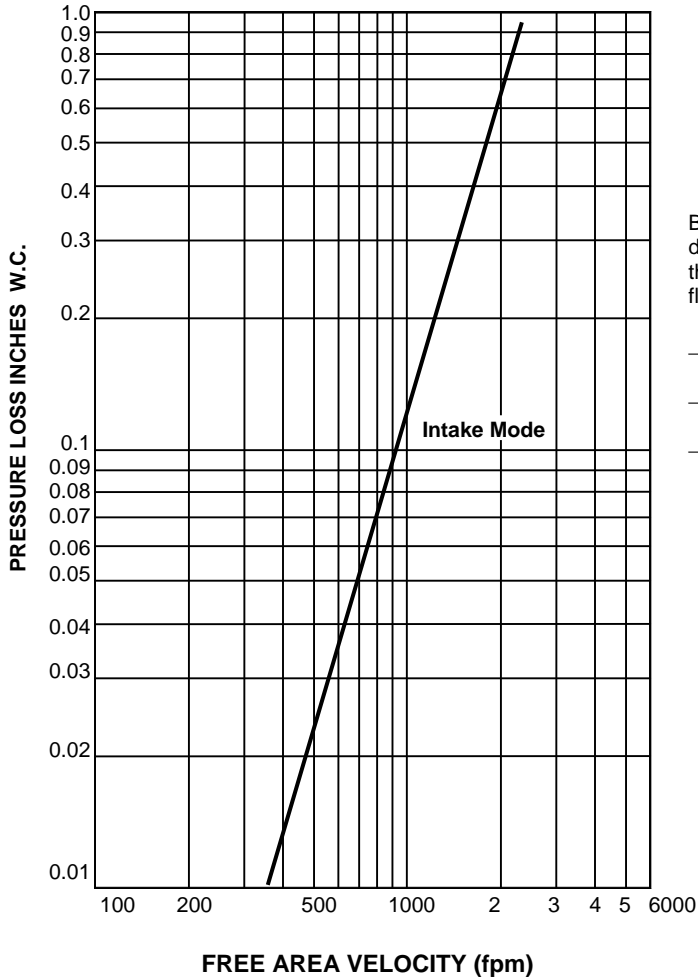
Engineering and General Offices

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

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

All tests performed at an independent laboratory and based on AMCA standard – 500 for air performance.

### 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

### FREE AREA IN SQUARE FEET

HEIGHT	WIDTH (H)																				
	Inches	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	
12	0.54	0.87	1.20	1.53	1.87	2.20	2.53	2.86	3.19	3.53	3.86	4.19	4.52	4.85	5.19	5.52	5.85	6.18	6.51		
18	0.86	1.38	1.91	2.44	2.97	3.49	4.02	4.55	5.07	5.60	6.13	6.66	7.18	7.71	8.24	8.76	9.29	9.82	10.35		
24	1.17	1.90	2.62	3.34	4.06	4.79	5.51	6.23	6.95	7.68	8.40	9.12	9.84	10.57	11.29	12.01	12.73	13.46	14.18		
30	1.49	2.41	3.33	4.24	5.16	6.08	7.00	7.92	8.83	9.75	10.67	11.59	12.51	13.42	14.34	15.26	16.18	17.09	18.01		
36	1.81	2.92	4.04	5.15	6.26	7.37	8.49	9.60	10.71	11.83	12.94	14.05	15.17	16.28	17.39	18.51	19.62	20.73	21.84		
42	2.13	3.43	4.74	6.05	7.36	8.67	9.98	11.29	12.59	13.90	15.21	16.52	17.83	19.14	20.44	21.75	23.06	24.37	25.68		
48	2.44	3.95	5.45	6.95	8.46	9.96	11.47	12.97	14.47	15.98	17.48	18.98	20.49	21.99	23.50	25.00	26.50	28.01	29.51		
54	2.76	4.46	6.16	7.86	9.56	11.26	12.96	14.65	16.35	18.05	19.75	21.45	23.15	24.85	26.55	28.25	29.95	31.64	33.34		
60	3.08	4.97	6.87	8.76	10.66	12.55	14.44	16.34	18.23	20.13	22.02	23.92	25.81	27.70	29.60	31.49	33.39	35.28	37.18		
66	3.40	5.49	7.57	9.66	11.75	13.84	15.93	18.02	20.11	22.20	24.29	26.38	28.47	30.56	32.65	34.74	36.83	38.92	41.01		
72	3.71	6.00	8.28	10.57	12.85	15.14	17.42	19.71	21.99	24.28	26.56	28.85	31.13	33.42	35.70	37.99	40.27	42.56	44.84		
78	4.03	6.51	8.99	11.47	13.95	16.43	18.91	21.39	23.87	26.35	28.83	31.31	33.79	36.27	38.75	41.23	43.71	46.19	48.67		
84	4.35	7.02	9.70	12.37	15.05	17.73	20.40	23.08	25.75	28.43	31.10	33.78	36.45	39.13	41.81	44.48	47.16	49.83	52.51		
90	4.67	7.54	10.41	13.28	16.15	19.02	21.89	24.76	27.63	30.50	33.37	36.24	39.12	41.99	44.86	47.73	50.60	53.47	56.34		
96	4.98	8.05	11.11	14.18	17.25	20.31	23.38	26.45	29.51	32.58	35.64	38.71	41.78	44.84	47.91	50.97	54.04	57.11	60.17		
102	5.30	8.56	11.82	15.08	18.35	21.61	24.87	28.13	31.39	34.65	37.91	41.18	44.44	47.70	50.96	54.22	57.48	60.74	64.01		
108	5.62	9.07	12.53	15.99	19.44	22.90	26.36	29.81	33.27	36.73	40.18	43.64	47.10	50.56	54.01	57.47	60.93	64.38	67.84		
114	5.93	9.59	13.24	16.89	20.54	24.19	27.85	31.50	35.15	38.80	42.46	46.11	49.76	53.41	57.06	60.72	64.37	68.02	71.67		
120	6.25	10.10	13.95	17.79	21.64	25.49	29.34	33.18	37.03	40.88	44.73	48.57	52.42	56.27	60.12	63.96	67.81	71.66	75.50		