

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

Invisible

MINIMUM SIZE

12"w x 12"h

UNDERSIZED

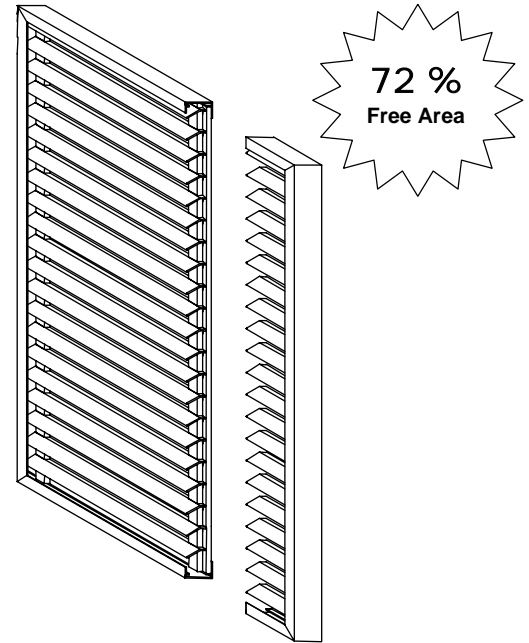
1/4" under ordered size unless specified Exact or Actual

SCREEN

3/4" x .051" flattened expanded aluminum bird screen, no frame

FINISH

Mill



OPTIONAL CONSTRUCTION

SCREEN - Many styles available please consult screen listing

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

MULLION – Visible for architectural preference

SPECIAL PURPOSE CONSTRUCTION

Special shapes: Triangle, Round, Trapezoid, etc.

Fully welded construction

Security bars

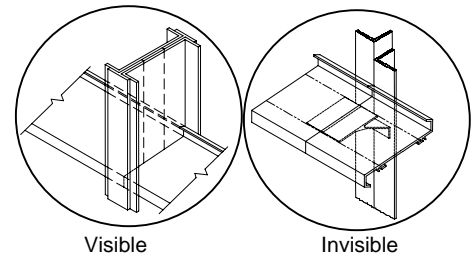
Filter racks

Hinged as walk through door or for swing out for access

Sleeved for ductwork connection

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

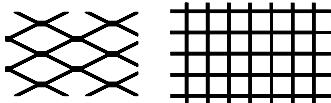
MULLION STYLES



Visible

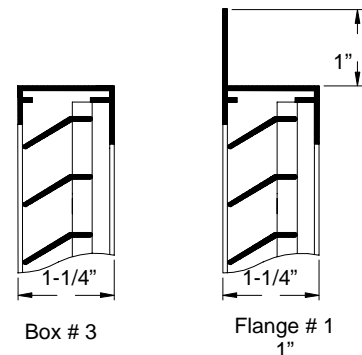
Invisible

TYPICAL SCREEN STYLES



Expanded Aluminum
Standard

Wire Mesh



Box # 3

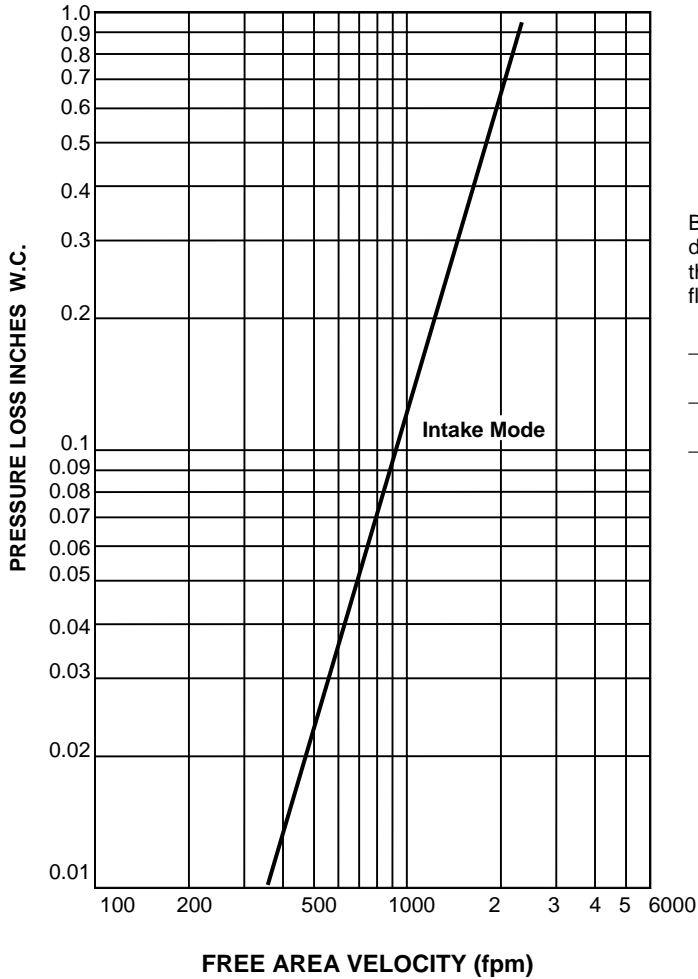
Flange # 1

FRAME STYLES

DATE	ARCHITECT			CUSTOMER
PROJECT				
ITEM	QTY	W	H	DESCRIPTION

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		