

Weather Protective Blade Louver in 4" thick frame design

Design Features – Uniquely designed louver that provides weather protection and permits airflow while incorporating itself into a metal panel wall design integrating a continuous façade that offers both form and function.

STANDARD CONSTRUCTION

S-LFC-04" (102) thick, is 12 gauge (2.03) formed aluminum in style #2

FRAME S-LFC-0 BLADES

S-LFC- 04", (102) are 12 gauge (2.03) formed alum, approx. spacing is 7-1/4" (184) @ 45°

MAXIMUM SIZE

Unlimited, with mullions, structural bracing supplied by others

MAXIMUM SINGLE SECTION

120"w x 84"h or 84"w x 120"h (allows for best handling)

MULLIONS

Visible

MINIMUM SIZE

12" W x 12" H (305 x 305)

UNDERSIZED

3/8" (10) under ordered size unless specified Exact or Actual

SCREEN

1/2" (13) x .063 aluminum wire bird screen in frame

FINISH

Mill

OPTIONAL CONSTRUCTION

FRAME – Available in a heavier construction up to 10 gauge (3.5)

BLADES - Available in a heavier construction up to 12 gauge (2.7)

SPECIFIED MATERIAL - Galvanized, Stainless steel or as requested

SCREENS - Many styles available please consult screen listing **MULLIONS** – Invisible for enhanced architectural appearance.

FINISH – Air-dry primer, polyurethane, epoxy, or enamel. Baked epoxy or

enamel. Kynar (Kynar limitations on steel.)



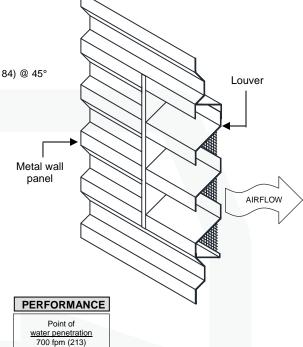
Special shapes; Round, Triangle, Trapezoid, Octagon, etc. Fully welded assembly

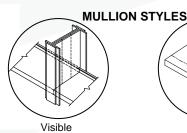
Security bars

Filter racks

Hinged as walk through door or for swing out access

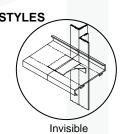
Sleeved for ductwork connection



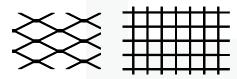


Free area

48 x 48 section



TYPICAL SCREEN STYLES



Expanded Aluminum Standard Wire Mesh

FRAME STYLE









1- Flange (1.5")

2 - Channel

7- Channel with Sill Extension

9 - Flange with Sub Frame

DATE	ARCHIT	ECT/ENGIN	EER		CUSTOMER
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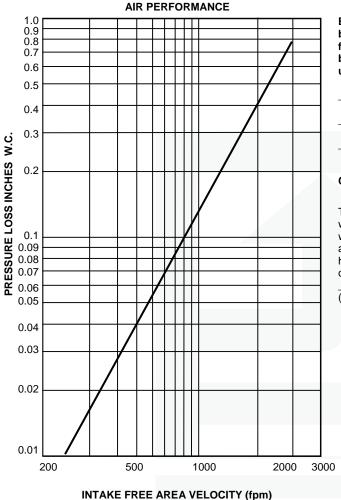
Engineering and General Offices

1855 South 54th Avenue, Cicero, Illinois 60804 Phone 708-652-9100 FAX 708-652-9158



S-LFC-04 PERFORMANCE SPECIFICATIONS

All tests performed at an independent laboratory and based on AMCA standard 511 - 91 for air performance and water penetration.



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.

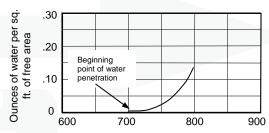
in. W.C. Max. Pressure Loss Intake or Exhaust _FPM (Free Area Velocity From "Air Performance" Graph) _CFM / ____ FPM Free Area Velocity = ____Sq. Ft. Free Area

CALCULATING MAXIMUM AIRFLOW BEFORE WATER PENETRATION

The "free area flow rate" at which water penetration commences (.01 oz. of water) is established at, 700 fpm (213), 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/ SQ. FT. FREE AREA FPM= (System Requirements)

Water Penetration Graph .01 .02 .05 in oz. of water per sq. ft. of free area over a 15 min. test period 700 744 773 788 N/A N/A (fpm)



FREE AREA VELOCITY (fpm) 700 fpm (213) beginning of water penetration

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	-0.04	-0.06	-0.08	-0.10	-0.12	-0.14	-0.16	-0.19	-0.21	-0.23	-0.25	-0.27	-0.29	-0.31	-0.34	-0.36	-0.38	-0.40	-0.42	
18	0.39	0.63	0.87	1.10	1.34	1.57	1.81	2.05	2.28	2.52	2.75	2.99	3.23	3.46	3.70	3.93	4.17	4.41	4.64	
24	0.56	0.90	1.24	1.58	1.91	2.25	2.59	2.93	3.26	3.60	3.94	4.28	4.61	4.95	5.29	5.63	5.96	6.30	6.64	1
30	0.81	1.30	1.79	2.27	2.76	3.25	3.74	4.22	4.71	5.20	5.69	6.17	6.66	7.15	7.63	8.12	8.61	9.10	9.58	Ì
36	1.06	1.70	2.34	2.97	3.61	4.25	4.88	5.52	6.16	6.80	7.43	8.07	8.71	9.34	9.98	10.62	11.26	11.89	12.53	1.
42	1.30	2.09	2.87	3.65	4.43	5.21	5.99	6.78	7.56	8.34	9.12	9.90	10.69	11.47	12.25	13.03	13.81	14.60	15.38	15
48	1.46	2.34	3.22	4.10	4.98	5.85	6.73	7.61	8.49	9.37	10.24	11.12	12.00	12.88	13.76	14.63	15.51	16.39	17.27	9
54	1.62	2.60	3.57	4.55	5.52	6.49	7.47	8.44	9.42	10.39	11.37	12.34	13.31	14.29	15.26	16.24	17.21	18.19	19.16	Ī
60	1.81	2.90	3.98	5.07	6.16	7.24	8.33	9.42	10.50	11.59	12.68	13.76	14.85	15.93	17.02	18.11	19.19	20.28	21.37]=
66	2.06	3.30	4.53	5.77	7.01	8.24	9.48	10.71	11.95	13.19	14.42	15.66	16.89	18.13	19.37	20.60	21.84	23.08	24.31	
72	2.31	3.70	5.08	6.47	7.85	9.24	10.63	12.01	13.40	14.78	16.17	17.56	18.94	20.33	21.71	23.10	24.49	25.87	27.26	
78	2.53	4.05	5.57	7.09	8.61	10.13	11.65	13.17	14.69	16.21	17.73	19.25	20.77	22.29	23.82	25.34	26.86	28.38	29.90	
84	2.69	4.31	5.93	7.54	9.16	10.77	12.39	14.01	15.62	17.24	18.86	20.47	22.09	23.70	25.32	26.94	28.55	30.17	31.79	

S-LFC-04 4/06

www.elouver.com



SUGGESTED SPECIFICATIONS

LOUVER MODEL: S-LFC-04/ SERIES

GENERAL:

Furnish and install at locations where indicated on the drawings or as described in schedules with high performance weather-protective louver Model S-LFC-04/series as manufactured by DOWCO Products Group, 1855 South 54th Ave., Cicero, IL. 60804. Tel. 708-652-9100, Fax 708-652-9158 (www.safeair-dowco.com/contact.asp). All louvers shall manufactured under ARRA – American Recovery Reinvestment Act, "Buy American Stimulus Provision" and shall have a factory certified Union Label. Submit complete submittals or shop drawings to the architect/engineer for approval. All opening sizes shall be field verified prior to fabrication.

MATERIAL:

Frames and blades thickness shall be .081" (2.96mm) formed aluminum. Blades shall be designed to permit airflow and provide weather protection. Sill and jamb frames shall be caulked to prevent water penetration to interior wall construction. Blades are attached to jamb frames by means of plated steel screws. All fasteners to be aluminum, plated carbon steel, or stainless steel. Frames shall have integral caulking slot and retaining beads. Stationary louvers shall be furnished with bird and / or insect screens, supports and finishes as specified and as required for a complete installation.

PERFORMANCE:

Louvers shall be tested in accordance with AMCA Standard 500-L and licensed under the AMCA Certified Ratings Seal for both air performance and water penetration. The louvers shall have a minimum of 6.73 ft². (0.625 m²) (42%) free area on a 48 inch x 48 inch (1219 x 1219) louver. The rating shall show a maximum water penetration of .01 oz. at an air flow of 700 FPM (3.56 m/s) free area velocity based on a 15 minutes test duration. The Static Pressure Loss shall not be more than 0.11 in. H²O of water gauge (0.03 kPa) at an air flow of 1000 FPM (5.08 m/s) free area velocity.

STRUCTURAL DESIGN CRITERIA:

Louvers shall be designed and furnished with all the supports required to withstand a negative and positive wind load of 25 psf (1.20 kPa) @ delta L/180 deflection based on the maximum single section of 120 x 84 (3048 x 2135) or 84 x 120 (2135 x 3048). Larger sizes and higher wind loads require additional structural supports. Due to the variation of job requirements and local building codes, structural supports shall be analyzed on a job to job basis.

FINISH:

All louvers shall be finished with DOWCO's Kynar 500 with 100% resin Fluoropolymer coating. Finish to adhere to a 4H hardness rating. All finishing procedures shall be one continuous operation and the coating shall meet or exceed all requirements of AAMA Specification 2605-05 "Voluntary Specification for High Performance Organic Coatings on Architectural Extrusions and Panels." Manufacturer shall supply a standard 5-year limited warranty against failure and excessive fading or upon request a 20-year limited warranty against failure and excessive fading.

<u>www.elouver.com</u> 1855 S. 54th Avenue, Cicero, II. 60804 Tel. 708-652-9100 / Fax 708-652-9158 August 2000