

Insulated Blade Louver in 6" thick frame design Model AFI - 06

Features – Adjustable insulated blade design for added thermal protection or sound reduction. Adjustable feature is useful on systems requiring periodic operation or a means of further deterring the outside element of water penetration, which is made possible when the louver is closed.

STANDARD CONSTRUCTION

FRAME

16 gauge (1.6) galvanized steel in style #3

BLADES

Double skin 20 gauge (1.0) galvanized steel with fiberglass insulation, approx. spacing is 6" (152) oc. @ 90 degrees.

BLADE AXLES & BEARINGS

Axles – 1/2" (13) stub shaft, plated steel
 Bearings – 1/2" (13) dia. bronze oilite

LINKAGE

Plated steel mounted at the center point of blades

SEALS

Polyurethane foam blade and aluminum jamb seals

MAXIMUM SIZE

Unlimited, with mullions, structural bracing supplied by others

MAXIMUM SINGLE SECTION

48" W x 72"H (1219 X 1829)

MINIMUM SIZE

12" x 12" (305 X 305)

MULLION

Visible

UNDERSIZED

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

SCREEN

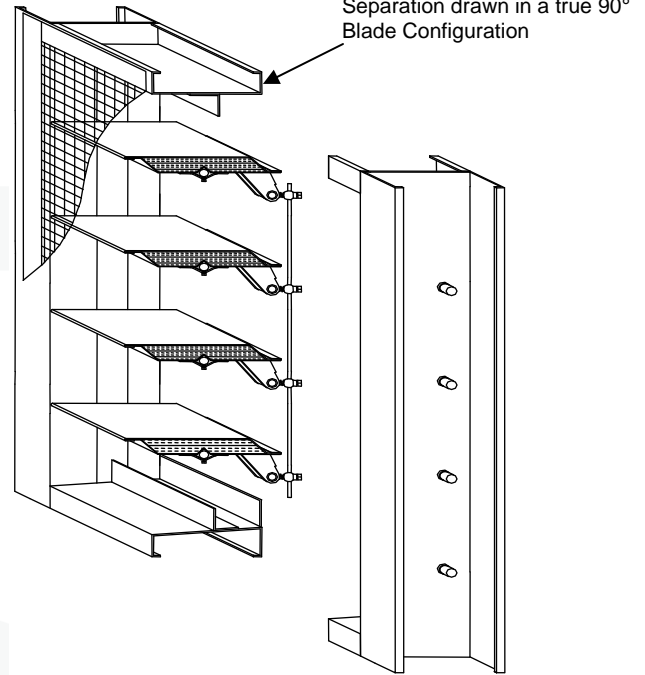
1/2" (13) wire mesh 19 gauge (1.1) galvanized bird screen in frame on face

FINISH

Mill

OPERATOR

Wing-nut type adjustable



OPTIONAL CONSTRUCTION

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

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

BLADES & JAMB SEALS – Polyurethane blade edge and / or sstl jamb seals

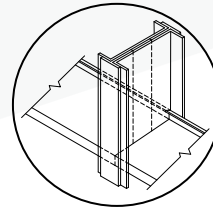
SCREEN - Many styles available please consult screen listing

LINKAGE – Concealed in the jamb

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

OPERATOR – Manual, Electric or Pneumatic

MULLION STYLE



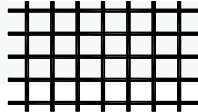
Visible

PERFORMANCE
Point of water penetration N/A
Free area 48 x 48 section 70%

SPECIAL PURPOSE CONSTRUCTION.

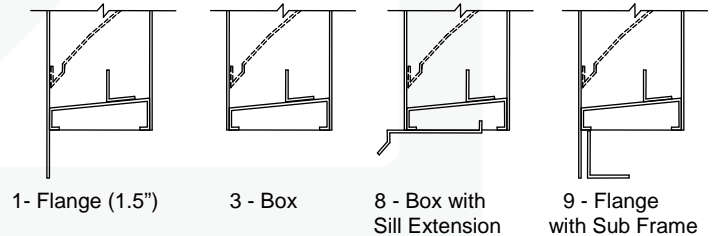
- Security bars
- Filter racks
- Hinged as walk through door or for swing out access
- Sleeved for ductwork connection

TYPICAL SCREEN STYLE



Wire Mesh - Standard

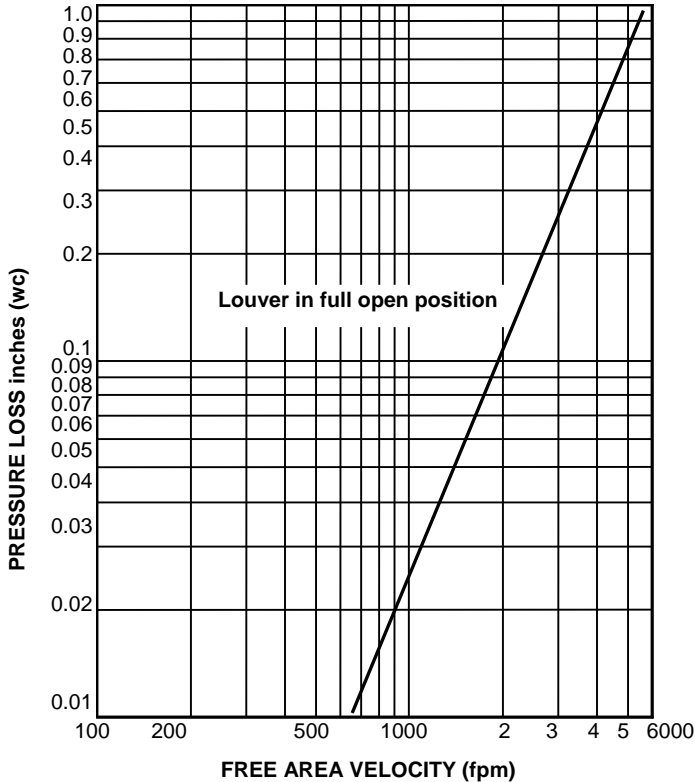
FRAME STYLES



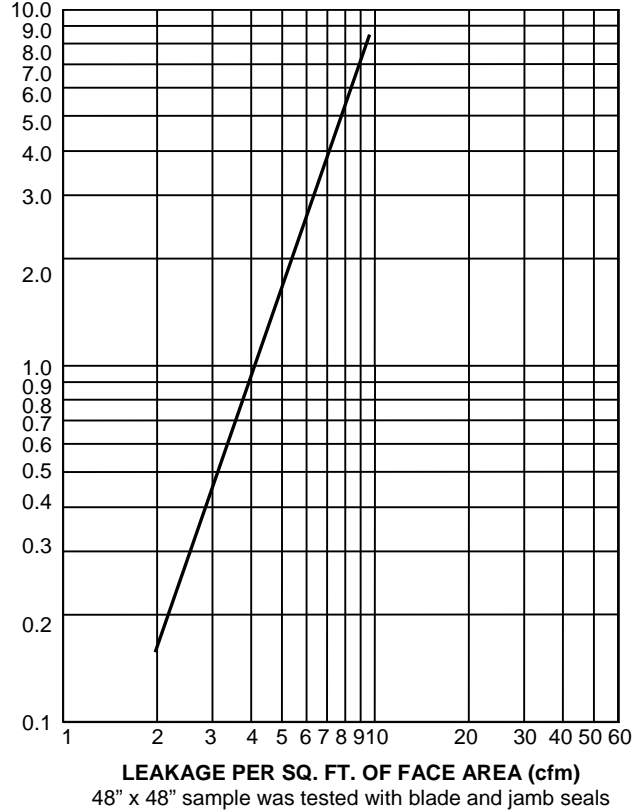
DATE	ARCHITECT			ENGINEER
PROJECT				
ITEM	QTY	W	H	DESCRIPTION

All tests performed at an independent laboratory and based on AMCA standards for air performance.

AIR PERFORMANCE



AIR LEAKAGE



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

TO MINIMIZE LEAKAGE

The Leakage performance of a louver will improve with size and varies with aspect ratio. Leakage may always be minimized by selecting louvers as tall as possible, minimizing width. Testing was performed at an independent laboratory using test procedures based on Industry Standards for air leakage, on a 48" x 48" (1219 x 1219) test sample.

MAXIMUM SINGLE SECTION SIZE – 48"W x 72"H (1219 x 1829)

Inches	12	16	20	24	28	32	36	40	44	48	52	56	60
12	0.5	0.72	0.94	1.17	1.39	1.61	1.83	2.06	2.28	2.5	2.72	2.94	3.17
16	0.69	0.99	1.3	1.6	1.91	2.22	2.52	2.83	3.13	3.44	3.74	4.05	4.35
20	0.88	1.26	1.65	2.04	2.43	2.82	3.21	3.6	3.99	4.38	4.76	5.15	5.54
24	1.13	1.63	2.13	2.63	3.13	3.63	4.13	4.63	5.13	5.63	6.13	6.63	7.13
28	1.31	1.9	2.48	3.06	3.65	4.23	4.81	5.4	5.98	6.56	7.15	7.73	8.31
32	1.5	2.17	2.83	3.5	4.17	4.83	5.5	6.17	6.83	7.5	8.17	8.83	9.5
36	1.75	2.53	3.31	4.08	4.86	5.64	6.42	7.19	7.97	8.75	9.53	10.31	11.08
40	1.94	2.8	3.66	4.52	5.38	6.24	7.1	7.97	8.83	9.69	10.55	11.41	12.27
44	2.13	3.07	4.01	4.96	5.9	6.85	7.79	8.74	9.68	10.63	11.57	12.51	13.46
48	2.38	3.43	4.49	5.54	6.6	7.65	8.71	9.76	10.82	11.88	12.93	13.99	15.04
52	2.56	3.7	4.84	5.98	7.12	8.26	9.4	10.53	11.67	12.81	13.95	15.09	16.23
56	2.81	4.06	5.31	6.56	7.81	9.06	10.31	11.56	12.81	14.06	15.31	16.56	17.81
60	3	4.33	5.67	7	8.33	9.67	11	12.33	13.67	15	16.33	17.67	19
64	3.19	4.6	6.02	7.44	8.85	10.27	11.69	13.1	14.52	15.94	17.35	18.77	20.19
68	3.44	4.97	6.49	8.02	9.55	11.08	12.6	14.13	15.66	17.19	18.72	20.24	21.77
72	3.63	5.24	6.85	8.46	10.07	11.68	13.29	14.9	16.51	18.13	19.74	21.35	22.96
76	3.81	5.51	7.2	8.9	10.59	12.28	13.98	15.67	17.37	19.06	20.76	22.45	24.15
80	4.06	5.87	7.67	9.48	11.28	13.09	14.9	16.7	18.51	20.31	22.12	23.92	25.73
84	4.25	6.14	8.03	9.92	11.81	13.69	15.58	17.47	19.36	21.25	23.14	25.03	26.92
88	4.44	6.41	8.38	10.35	12.33	14.3	16.27	18.24	20.22	22.19	24.16	26.13	28.1
92	4.69	6.77	8.85	10.94	13.02	15.1	17.19	19.27	21.35	23.44	25.52	27.6	29.69
96	4.88	7.04	9.21	11.38	13.54	15.71	17.88	20.04	22.21	24.38	26.54	28.71	30.88