DOWCO Products Group
A division of Safe Air of Illinois

ADJUSTABLE FORMED LOUVER

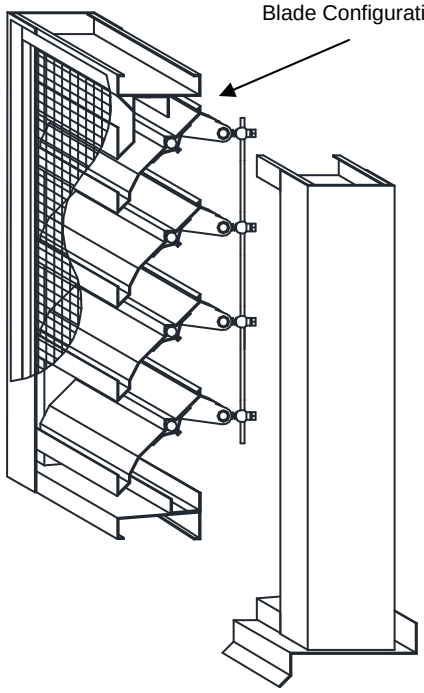
Drainable Blade Louver in 6” thick frame design Model A-DWF-06

Features – High performance adjustable design to satisfy systems requiring periodic operation.

STANDARD CONSTRUCTION

FRAME
A-DWF-06” (152) thick, is 18 gauge (1.3) galvanized steel in style #3
ADJUSTABLE BLADES
A-DWF-06”, (152) are 20 gauge (1.0) galvanized steel @ 45°
BLADES AXLES & BEARINGS
BEARINGS- ½” (13) Bronze oil impregnated
AXLES- Plated shaft
LINKAGE
Mounted on blades at center point of width dimension
MAXIMUM SIZE
Unlimited, with mullions, structural bracing supplied by others
MAXIMUM SINGLE SECTION
60”w x 96”H (1524 x 2438) (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
½” (13) wire mesh 19 gauge (1.1) galvanized bird screen in frame on face
FINISH
Mill
OPERATOR
Wingnut adjustment

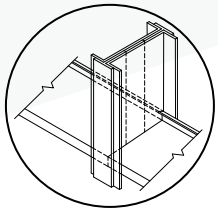
Separation drawn in a true 90° Blade Configuration



OPTIONAL CONSTRUCTION

FRAME – Available in a heavier construction up to 10 gauge
BLADES - Available in a heavier construction up to 16 gauge
SPECIFIED MATERIAL – Aluminum, Stainless or as requested
SCREENS - Many styles available please consult screen listing
LINKAGE – Concealed in jamb
FINISH – Air-dry primer, polyurethane, epoxy, or enamel. Baked epoxy or enamel. Kynar (Kynar limitations on steel.)
OPERATOR - Manual, electric or pneumatic
BLADE & JAMB SEALS – Neoprene blade edge and/or flexible metal jamb seals
(Note: With seals daylight shall still be visible between blades and on the sides.)

MULLION STYLE



Visible

PERFORMANCE

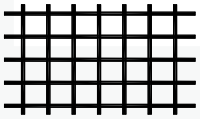
Point of
water penetration
821 fpm (251)

Free area
48 x 48 section
52%

SPECIAL PURPOSE CONSTRUCTION.

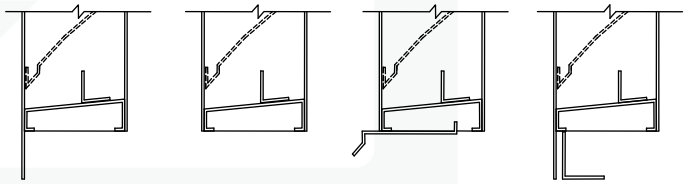
Security bars
Filter racks
Hinged as walk through door or for swing out access
Sleeved for ductwork connection

TYPICAL SCREEN STYLE



Wire Mesh - Standard

FRAME STYLES



1- Flange (1.5”) | 3 - Box | 8 - Box with Sill Extension | 9 - Flange with Sub Frame

DATE	ARCHITECT		ENGINEER	
PROJECT				
ITEM	QTY	W	H	DESCRIPTION

DOWCO Products Group
A division of Safe Air of Illinois

DOWCO PRODUCTS GROUP
Engineering and General Offices
1855 South 54th Avenue, Cicero, Illinois 60804
Phone 708-652-9100 FAX 708-652-9158

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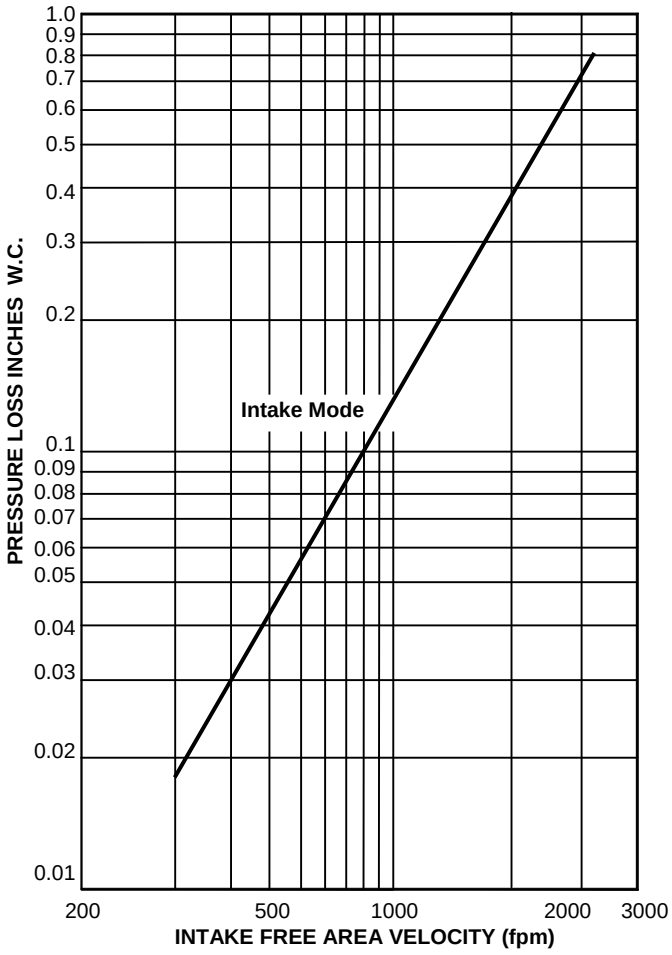
A-DWF-06 PERFORMANCE SPECIFICATIONS

All free area calculations made in accordance with AMCA standards.

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)

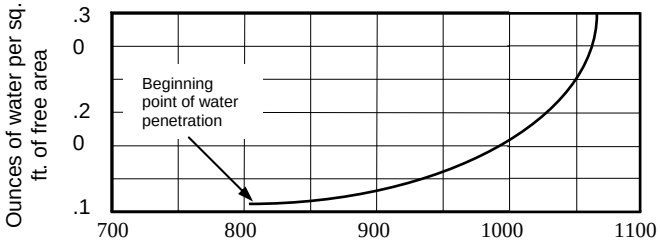
_____CFM / ____ FPM Free Area Velocity = _____Sq. Ft. Free Area

CALCULATING MAXIMUM AIRFLOW BEFORE WATER PENETRATION

The "free area flow rate" at which water penetration commences (.01 oz. of water) is established at, 821 fpm for A-DWF-06, 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



	.01	.02	.05	.1	.2	.3	(H20)
A-DWF-06	821	872	939	990	1041	1071	(fpm)

FREE AREA CALCULATIONS IN SQ. FT.

WIDTH

INCHES	12	18	24	30	36	42	48	54	60
12 -04	.30	.47	.64	.81	1.00	1.17	1.34	1.66	1.68
-06	.30	.47	.64	.81	.99	1.16	1.33	1.50	1.67
18 -04	.58	.91	1.24	1.58	1.90	2.23	2.57	2.90	3.23
-06	.56	.88	1.20	1.52	1.84	2.17	2.49	2.80	3.13
24 -04	.77	1.21	1.65	2.10	2.54	2.99	3.42	3.87	4.31
-06	.82	1.29	1.76	2.23	2.70	3.18	3.64	4.12	4.59
30 -04	1.07	1.69	2.30	2.92	3.54	4.15	4.77	5.39	6.00
-06	1.08	1.70	2.32	2.94	3.57	4.19	4.80	5.42	6.04
36 -04	1.35	2.13	2.90	3.67	4.45	5.22	6.00	6.77	7.55
-06	1.34	2.11	2.88	3.65	4.42	5.20	5.97	6.73	7.50
42 -04	1.55	2.43	3.31	4.20	5.08	5.97	6.85	7.74	8.62
-06	1.60	2.53	3.44	4.37	5.28	6.20	7.12	8.04	8.96
48 -04	1.84	2.91	3.97	5.02	6.08	7.14	8.20	9.25	10.31
-06	1.86	2.94	4.00	5.07	6.14	7.21	8.28	9.35	10.42
54 -04	2.13	3.34	4.56	5.78	7.00	8.20	9.42	10.64	11.86
-06	2.13	3.35	4.57	5.79	7.00	8.22	9.44	10.66	11.88
60 -04	2.32	3.64	4.98	6.30	7.62	8.96	10.28	11.61	12.94
-06	2.39	3.76	5.13	6.49	7.86	9.23	10.60	11.97	13.34
66 -04	2.62	4.12	5.62	7.12	8.62	10.13	11.62	13.13	14.62
-06	2.68	4.21	5.75	7.28	8.81	10.35	11.88	13.41	14.95
72 -04	2.90	4.56	6.21	7.88	9.54	11.20	12.85	14.52	16.18
-06	2.98	4.68	6.39	8.09	9.80	11.50	13.20	14.90	16.60
78 -04	3.09	4.86	6.63	8.40	10.18	11.94	13.71	15.48	17.25
-06	3.27	5.15	7.02	8.90	10.78	12.64	14.52	16.40	18.27
84 -04	3.40	5.34	7.28	9.22	11.17	13.11	15.05	17.00	18.94
-06	3.58	5.61	7.66	9.71	11.75	13.80	15.84	17.88	19.93
90 -04	3.67	5.78	7.88	9.98	12.08	14.19	16.28	18.39	20.49
-06	3.87	6.09	8.30	10.52	12.73	14.95	17.16	19.38	21.59
96- 04	3.87	6.08	8.29	10.50	12.72	14.93	17.14	19.36	21.57
-06	4.14	6.50	8.87	11.23	13.60	15.97	18.33	20.70	23.06

HEIGHT