

Drainable Blade Louver in 6" thick frame design - Model DWE-06

Features – High Performance patented design allowing maximum airflow with minimum outside element or water penetration.

STANDARD CONSTRUCTION

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

FRAME

DWE – 06" (152) thick, is .081 (2.1) extruded aluminum in style #3.

BLADES

DWE – 06" (152) are .081" (2.1) extruded aluminum, apx. spacing is 6 1/2 (165) @ 45°

MAXIMUM SIZE

Unlimited, with mullions, structural bracing supplied by others

MAXIMUM SINGLE SECTION

120" w x 96" H" or 96" w x 120" H (3048 x 2438) or (2438 x 3048)
(allows for best handling)
(Type of finish may limit maximum single section)

MULLIONS

Invisible

MINIMUM SIZE

12" w x 12" H (305 x 305)

UNDERSIZED

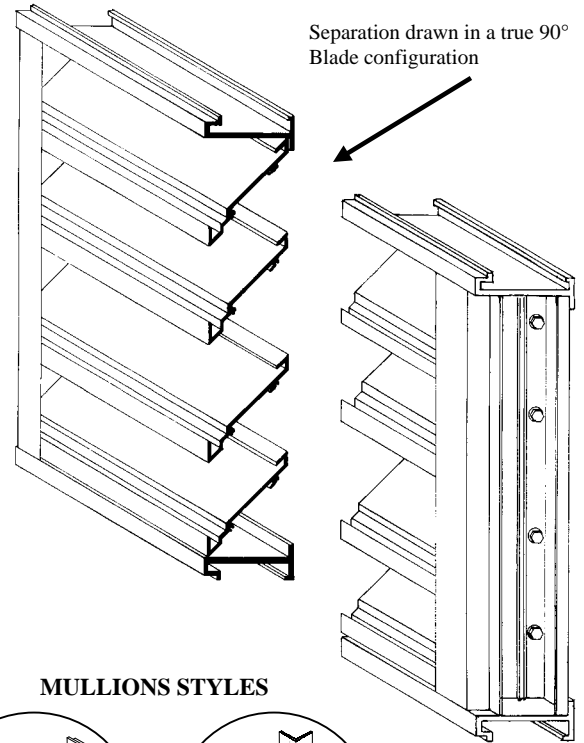
1/4" (6) under ordered size unless specified Exact or Actual

SCREEN

3/4" .051" (19 x 1.3) flattened expanded aluminum bird screen no frame

FINISH

Mill



OPTIONAL CONSTRUCTION

FRAME – Available in a heavier extrusion of .125" (3.2)

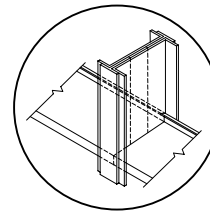
BLADES – Available in a heavier extrusion of .125" (3.2)

SCREEN - Many styles available please consult screen listing

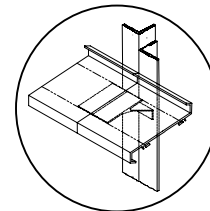
FINISH – Air-dry primer, polyurethane, epoxy, or enamel. Baked epoxy, Anodize or Kynar

MULLIONS – Visible for architectural preference

MULLIONS STYLES



Visible



Invisible

PERFORMANCE

Point of water penetration
939 fpm (286)

Free area
48 x 48 section
55%

SPECIAL PURPOSE CONSTRUCTION

Special Shapes; Triangle, Trapezoid, etc.

Fully welded construction

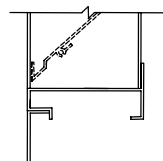
Security bars

Filter racks

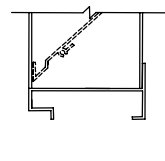
Hinged as walk through door or for swing out access

Sleeved for ductwork connection

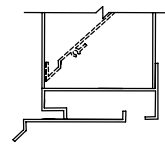
FRAME STYLES



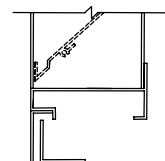
1- Flange (1.5")



3 – Box

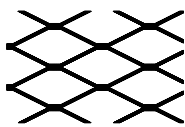


8- Box with Sill Extension

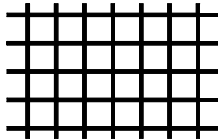


9 - Flange with Sub Frame

TYPICAL SCREEN STYLES



Expanded Aluminum Standard



Wire Mesh

DATE		ARCHITECT		CUSTOMER	
PROJECT					
ITEM	QTY	W	H	DESCRIPTION	



DEPENDABLE PRODUCTS SINCE 1955

SAFE-AIR OF ILLINOIS INC.

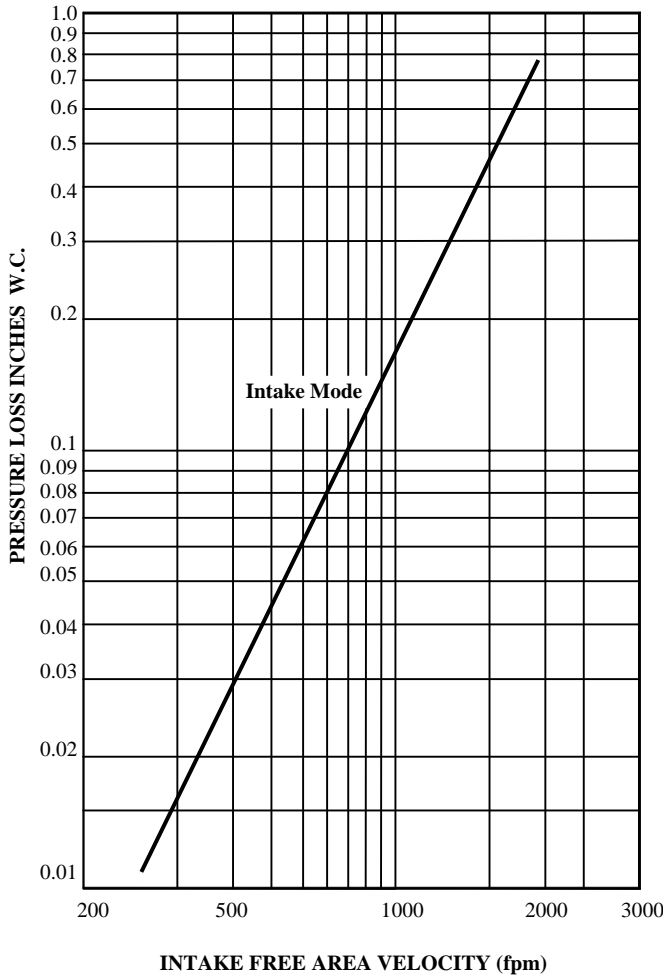
Engineering and General Offices

1855 South 54th Avenue, Cicero, Illinois 60804

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

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

AIR PERFORMANCE



CALCULATING PRESSURE LOSS

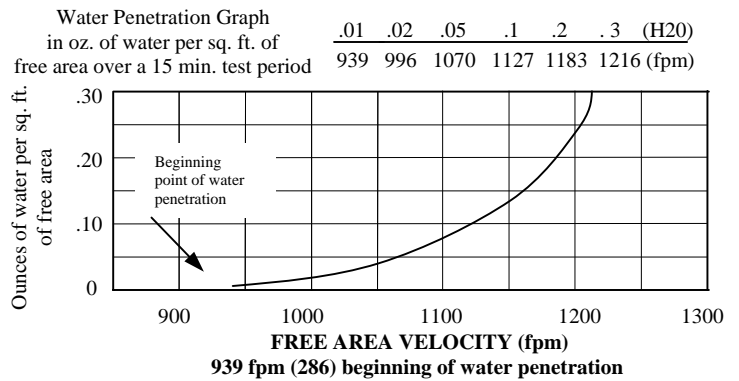
Based upon a given flow rate (in CFM), the flowing pressure loss may be determined from the “air performance” graph, knowing the sq. ft. of free area of the louver. Alternately, the free area may be determined based upon a volumetric flow rate and a maximum pressure loss. Utilizing the “air performance” 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, 939 fpm (286) for DWE-06, 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 / _____ FPM = _____ SQ. FT. FREE AREA
 (System Requirements)



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	.20	.32	.44	.56	.68	.80	.92	1.04	1.16	1.28	1.40	1.52	1.64	1.76	1.88	2.01	2.13	2.25	2.37
18	.47	.74	1.02	1.30	1.58	1.86	2.14	2.42	2.70	2.98	3.26	3.54	3.82	4.10	4.38	4.66	4.93	5.21	5.49
24	.76	1.21	1.67	2.12	2.58	3.03	3.49	3.94	4.40	4.85	5.30	5.76	6.21	6.67	7.12	7.58	8.03	8.49	8.94
30	1.05	1.68	2.31	2.94	3.57	4.20	4.83	5.46	6.09	6.72	7.35	7.98	8.61	9.24	9.87	10.50	11.13	11.76	12.39
36	1.34	2.15	2.95	3.76	4.56	5.37	6.18	6.98	7.79	8.59	9.40	10.20	11.01	11.81	12.62	13.42	14.23	15.04	15.84
42	1.63	2.62	3.60	4.58	5.56	6.54	7.52	8.50	9.48	10.46	11.44	12.42	13.41	14.39	15.37	16.35	17.33	18.31	19.29
48	1.92	3.07	4.22	5.37	6.52	7.67	8.82	9.97	11.12	12.27	13.42	14.57	15.72	16.87	18.02	19.17	20.32	21.47	22.62
54	2.17	3.48	4.78	6.08	7.39	8.69	10.00	11.30	12.60	13.91	15.21	16.52	17.82	19.12	20.43	21.73	23.04	24.34	25.64
60	2.43	3.89	5.34	6.80	8.26	9.72	11.17	12.63	14.09	15.55	17.00	18.46	19.92	21.38	22.83	24.29	25.75	27.21	28.66
66	2.68	4.30	5.91	7.52	9.13	10.74	12.35	13.96	15.57	17.18	18.79	20.41	22.02	23.63	25.24	26.85	28.46	30.07	31.68
72	2.94	4.71	6.47	8.23	10.00	11.76	13.53	15.29	17.06	18.82	20.59	22.35	24.11	25.88	27.64	29.41	31.17	32.94	34.70
78	3.20	5.11	7.03	8.95	10.87	12.79	14.70	16.62	18.54	20.46	22.38	24.29	26.21	28.13	30.05	31.97	33.88	35.80	37.72
84	3.45	5.52	7.60	9.67	11.74	13.81	15.88	17.95	20.02	22.10	24.17	26.24	28.31	30.38	32.45	34.53	36.60	38.67	40.74
90	3.71	5.93	8.16	10.38	12.61	14.83	17.06	19.28	21.51	23.73	25.96	28.18	30.41	32.63	34.86	37.08	39.31	41.53	43.76
96	3.97	6.36	8.74	11.13	13.51	15.89	18.28	20.66	23.05	25.43	27.81	30.20	32.58	34.97	37.35	39.73	42.12	44.50	46.89

HEIGHT