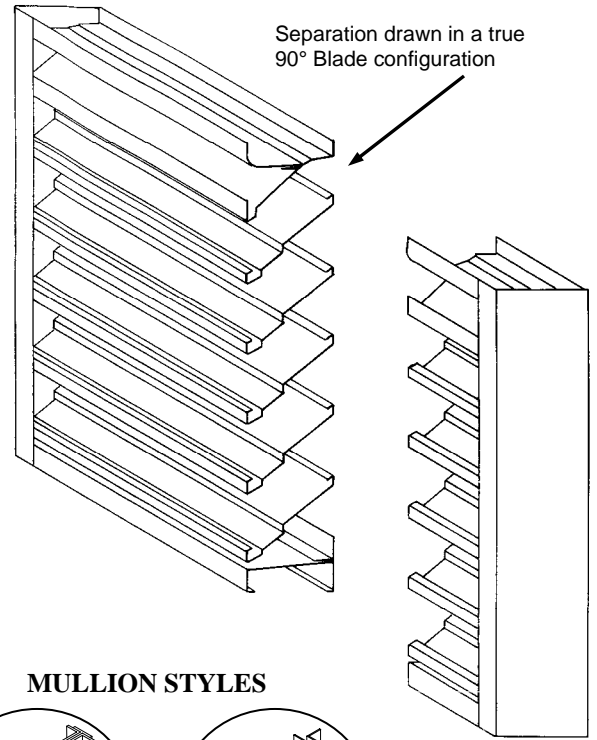


Drainable Blade Louver in 4" thick frame design – Model DBF- 04

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

STANDARD CONSTRUCTION

- FRAME**
DBF- 04" (102) thick, is 20 gauge (1.0) galvanized steel in style #3
- BLADES**
DBF- 04", (102) are 20 gauge (1.0) galv. steel, apx. spacing is 3" (76) @ 39°
- FASTENERS**
Steel pop rivets exposed to view
- 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) wire mesh 19 gauge (1.1) galvanized bird screen no frame
- FINISH**
Mill



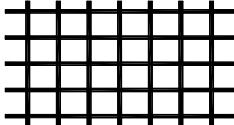
OPTIONAL CONSTRUCTION

- FRAME** – Available in a heavier construction up to 10 (3.5) gauge
- BLADES** - Available in a heavier construction up to 16 (1.6) gauge
- SPECIFIED MATERIAL** – Aluminum, Stainless or as requested
- SCREENS** - Many styles available please consult screen listing
- MULLIONS** – Invisible please consult factory
- FINISH** – Air-dry primer, polyurethane, epoxy, or enamel. Baked epoxy or enamel. Kynar (Kynar limitations on steel.)

SPECIAL PURPOSE CONSTRUCTION

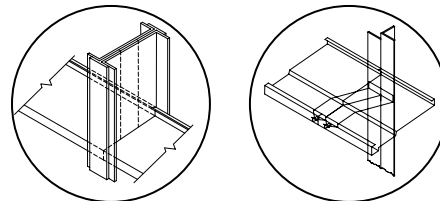
- Special shapes; Triangle, Trapezoid, etc.
- Fully welded assembly
- Security bars
- Filter racks
- Hinged as walk through door or for swing out access
- Sleeved for ductwork connection

TYPICAL SCREEN STYLE



Wire Mesh - Standard

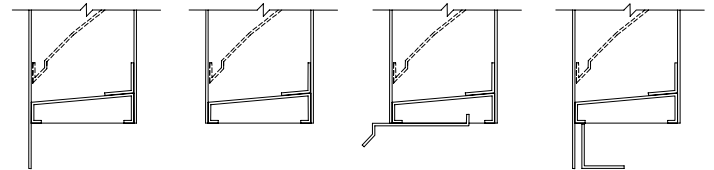
MULLION STYLES



Visible

Invisible

FRAME STYLES



1- Flange (1.5")

3 – Box

8- Box with Sill Extension


9 - Flange with Sub Frame

PERFORMANCE

Point of water penetration
973 fpm (297)

Free area
48 x 48 section
58%

DATE	ARCHITECT	ENGINEER	
PROJECT			
ITEM	QTY	W	H



SAFE-AIR / DOWCO certifies that the DBF-04 louver shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance ratings and water penetration ratings.



DEPENDABLE PRODUCTS SINCE 1955

SAFE-AIR / DOWCO

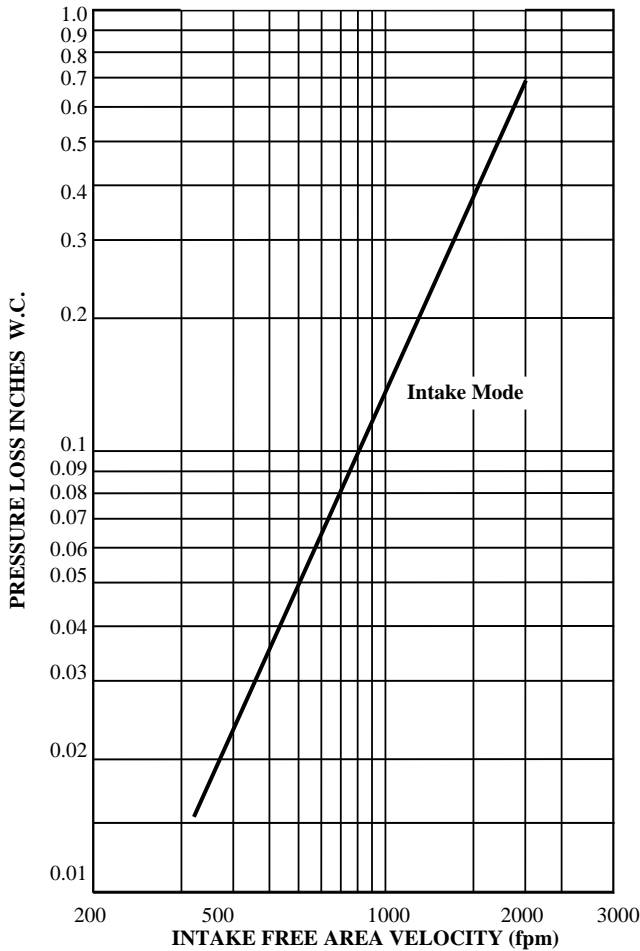
Engineering and General Offices

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.

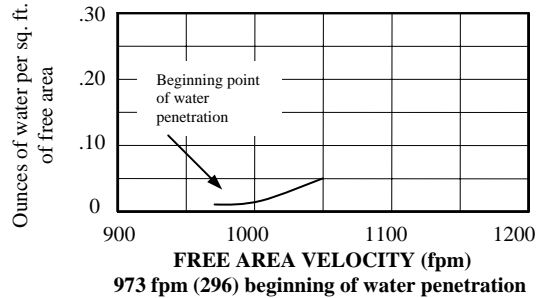
_____ in. W.C. Max. Pressure Loss Intake or Exhaust
 _____ FPM (Free Area Velocity From “Air Performance” Graph)
 _____ CFM / _____ FPM Free Area Velocity = _____ Sq. Ft. Free Area

CALCULATING MAXIMUM AIRFLOW BEFORE WATER PENETRATION

The “free area flow rate” at which water penetration commences (.01 oz. of water) is established at, 973 fpm (296) for DBF-04, 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)

Water Penetration Graph
 in oz. of water per sq. ft. of free area over a 15 min. test period



WIDTH

FREE AREA CALCULATIONS IN SQ. FT.

INCHES	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	.35	.54	.74	.94	1.14	1.34	1.53	1.73	1.93	2.13	2.33	2.52	2.72	2.92	3.12	3.32	3.51	3.71	3.91
18	.64	1.00	1.37	1.73	2.10	2.46	2.83	3.19	3.55	3.92	4.28	4.65	5.01	5.38	5.74	6.11	6.47	6.84	7.20
24	.93	1.46	1.99	2.52	3.05	3.59	4.12	4.65	5.18	5.71	6.24	6.77	7.30	7.84	8.37	8.90	9.43	9.96	10.49
30	1.22	1.92	2.62	3.32	4.01	4.71	5.41	6.11	6.80	7.50	8.20	8.90	9.60	10.29	10.99	11.69	12.39	13.09	13.78
36	1.51	2.38	3.24	4.11	4.97	5.84	6.70	7.57	8.43	9.29	10.16	11.02	11.89	12.75	13.62	14.48	15.35	16.21	17.08
42	1.80	2.84	3.87	4.90	5.93	6.96	7.99	9.02	10.05	11.09	12.12	13.15	14.18	15.21	16.24	17.27	18.30	19.34	20.37
48	2.10	3.29	4.49	5.69	6.89	8.09	9.28	10.48	11.68	12.88	14.08	15.27	16.47	17.67	18.87	20.07	21.26	22.46	23.66
54	2.39	3.75	5.12	6.48	7.85	9.21	10.58	11.94	13.30	14.67	16.03	17.40	18.76	20.13	21.49	22.88	24.22	25.59	26.95
60	2.68	4.21	5.74	7.27	8.80	10.34	11.87	13.40	14.93	16.46	17.99	19.52	21.05	22.59	24.12	25.65	27.18	28.71	30.24
66	2.97	4.67	6.37	8.07	9.76	11.46	13.16	14.86	16.55	18.25	19.95	21.65	23.35	25.04	26.74	28.44	30.14	31.84	33.53
72	3.26	5.13	6.99	8.86	10.72	12.59	14.45	16.32	18.18	20.04	21.91	23.77	25.64	27.50	29.37	31.23	33.10	34.96	36.83
78	3.35	5.59	7.62	9.65	11.68	13.71	15.74	17.77	19.80	21.84	23.87	25.90	27.93	29.96	31.99	34.02	36.05	38.09	40.12
84	3.85	6.04	8.24	10.44	12.64	14.84	17.03	19.23	21.43	23.63	25.83	28.02	30.22	32.42	34.62	36.82	39.01	41.21	43.41
90	4.14	6.50	8.87	11.23	13.60	15.96	18.33	20.69	23.05	25.42	27.78	30.15	32.51	34.88	37.24	39.61	41.97	44.34	46.70

HEIGHT