

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

Features — High performance patented design allowing maximum airflow with minimum outside element or water penetration.

STANDARD CONSTRUCTION

FRAME

DWF - 04" thick, is 20 gauge galvanized steel in style #3

BLADES

DWF - 04", are 20 gauge galvanized steel, apx. spacing is 4 1/2" @ 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 (allows for best handling)

MULLIONS

Visible

MINIMUM SIZE

12"W x 12"H

UNDERSIZED

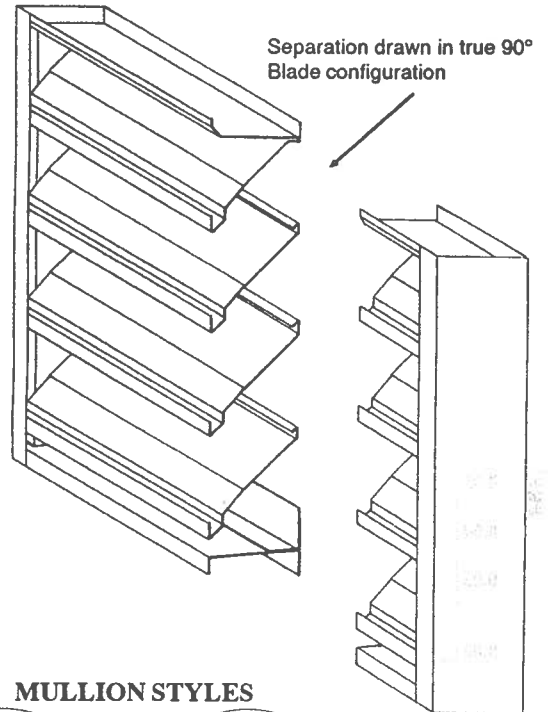
3/8" under ordered size unless specified Exact or Actual

SCREEN

1/2" wire mesh 19 gauge galvanized bird screen no frame

FINISH

Mill



OPTIONAL CONSTRUCTION

FRAME - Available in heavier construction up to 10 gauge

BLADES - Available in heavier construction up to 16 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

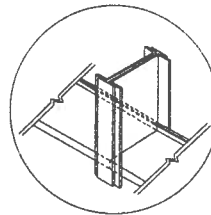
Sleeved for ductwork connection

TYPICAL SCREEN STYLE

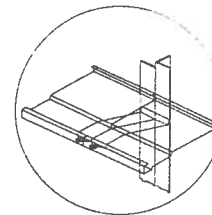


Wire Mesh - Standard

MULLION STYLES



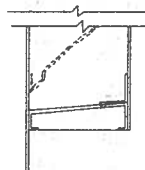
Visible



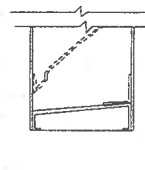
Invisible

PERFORMANCE
Point of water penetration 822 fpm
Free area 48 x 48 section 58%

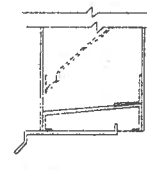
FRAME STYLES



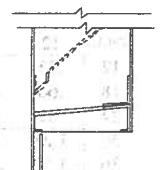
1 - Flange (1.5")



3 - Box



8 - Box with Sill Extension



9 - Flange with Sub Frame

DATE	ARCHITECT	ENGINEER	
PROJECT			
ITEM	QTY	W	H

AMCA CERTIFIED RATINGS

WATER PENETRATION

AIR PERFORMANCE

AMCA PERFORMANCE AND CONTROL ASSOCIATION, INC.

DOWCO PRODUCTS GROUP Certifies that the DWF louvers shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test 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.



DOWCO®

DEPENDABLE PRODUCTS SINCE 1955

DOWCO Products Group

Engineering and General Offices

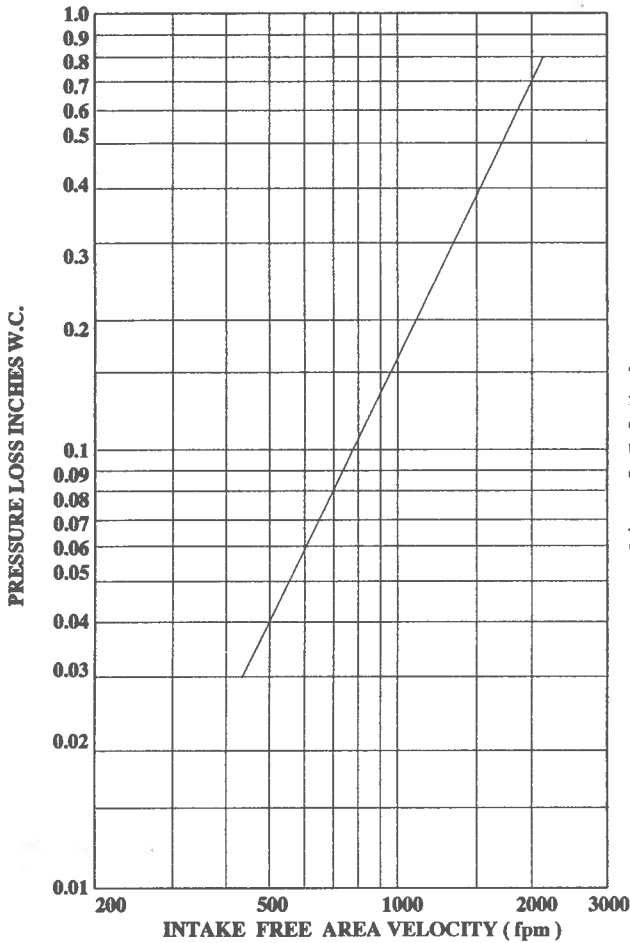
1855 South 54th Avenue, Cicero, Illinois 60804

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

DOWCO® DWF-04 PERFORMANCE SPECIFICATIONS

All tests performed in accordance with 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. Pres. Loss Intake or Exhaust
 _____ FPM (Free Area Velocity From "Air Performance" Graph)
 _____ CFM / _____ FPM Free Area Velocity = _____ Sq. Ft. Free Area

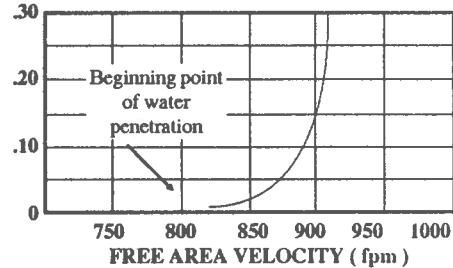
CALCULATING MAXIMUM AIRFLOW BEFORE WATER PENETRATION

The " free area flow rate " at which water penetration commences (.01 oz. of water) is established at, 822 fpm for DWF-04, and will vary depending upon actual weather conditions. The "water penetration" graph illustrates the results of actual laboratory tests on a 48" x 48" test sample subjected to hypothetical rainfall conditions. To determine the free area (in sq. ft.) based 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

Actual test results in oz. of water carryover					
.01	.02	.05	.1	.2	.3 (HzO)
822	842	868	887	907	918 (fpm)



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	.33	.52	.71	.90	1.09	1.27	1.46	1.65	1.84	2.03	2.22	2.41	2.60	2.78	2.97	3.16	3.35	3.54	3.73
18	.66	1.03	1.41	1.79	2.16	2.54	2.92	3.29	3.67	4.05	4.42	4.80	5.17	5.55	5.93	6.30	6.68	7.06	7.43
24	.89	1.40	1.90	2.41	2.92	3.43	3.94	4.44	4.95	5.46	5.97	6.47	6.98	7.49	8.00	8.51	9.01	9.52	10.03
30	1.21	1.89	2.58	3.27	3.96	4.65	5.34	6.03	6.72	7.40	8.09	8.78	9.47	10.16	10.85	11.54	12.23	12.91	13.60
36	1.52	2.38	3.25	4.12	4.99	5.85	6.72	7.59	8.46	9.32	10.19	11.06	11.92	12.79	13.66	14.53	15.39	16.26	17.13
42	1.75	2.75	3.75	4.76	5.76	6.76	7.76	8.76	9.76	10.76	11.77	12.77	13.77	14.77	15.77	16.77	17.77	18.77	19.78
48	2.08	3.27	4.46	5.65	6.84	8.02	9.21	10.40	11.59	12.78	13.97	15.16	16.35	17.53	18.72	19.91	21.10	22.29	23.48
54	2.36	3.70	5.05	6.40	7.74	9.09	10.43	11.78	13.13	14.47	15.82	17.17	18.51	19.86	21.21	22.55	23.90	25.24	26.59
60	2.63	4.13	5.63	7.13	8.63	10.13	11.64	13.14	14.64	16.14	17.64	19.14	20.64	22.14	23.65	25.15	26.65	28.15	29.65
66	2.96	4.64	6.33	8.02	9.71	11.40	13.09	14.78	16.47	18.15	19.84	21.53	23.22	24.91	26.60	28.29	29.98	31.66	33.35
72	3.19	5.02	6.85	8.67	10.50	12.32	14.15	15.97	17.80	19.62	21.45	23.28	25.10	26.93	28.75	30.58	32.40	34.23	36.05
78	3.50	5.50	7.50	9.51	11.51	13.51	15.51	17.51	19.51	21.51	23.52	25.52	27.52	29.52	31.52	33.52	35.52	37.52	39.53
84	3.82	6.01	8.19	10.38	12.56	14.75	16.93	19.12	21.30	23.49	25.67	27.86	30.04	32.23	34.41	36.60	38.78	40.97	43.15
90	4.05	6.36	8.68	10.99	13.30	15.62	17.93	20.25	22.56	24.87	27.19	29.50	31.81	34.13	36.44	38.76	41.07	43.38	45.70
96	4.38	6.88	9.38	11.88	14.38	16.88	19.39	21.89	24.39	26.89	29.39	31.89	34.39	36.89	39.40	41.90	44.40	46.90	49.40

HEIGHT