

Dual Drainable Blade Louver in 4" thick frame design Model D-DBE-04

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

STANDARD CONSTRUCTION

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

FRAME

04" thick, is .081" extruded aluminum in style #3

BLADES

04", are .081" extruded aluminum, apx. spacing is 3.5" @ 40°

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)
(Type of finish required may limit max single section size)

MULLIONS

Invisible

MINIMUM SIZE

12"W x 12"H

UNDERSIZED

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

SCREEN

3/4" .051" Flattened expanded aluminum bird screen no frame

FINISH

Mill

OPTIONAL CONSTRUCTION

FRAME - Available in a heavier extrusion of .125"

BLADES - Available in a heavier extrusion of .125"

SCREENS - Many styles available please consult screen listing

MULLIONS - Visible for architectural preference

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

SPECIAL PURPOSE CONSTRUCTION

Special shapes; Triangle, Trapezoid, etc.

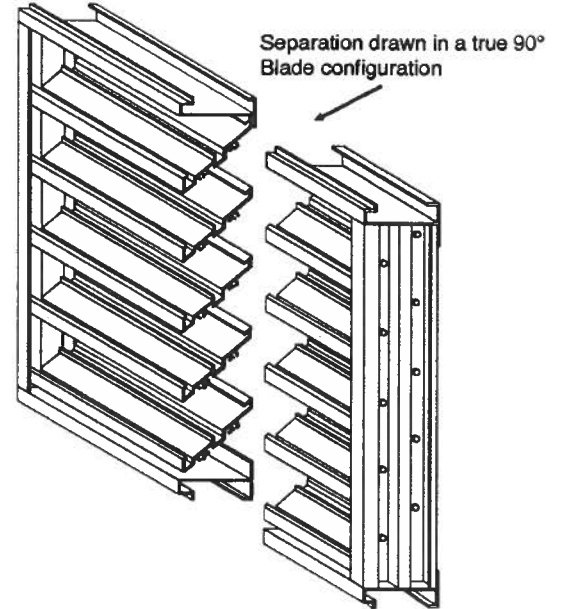
Fully welded assembly

Security bars

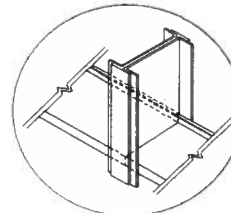
Filter racks

Hinged as walk through door or for swing out access

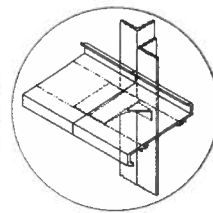
Sleeved for ductwork connection



MULLION STYLES



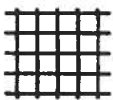
Visible



Invisible

PERFORMANCE
Point of water penetration 1113 fpm
Free area 48 x 48 section 51%

TYPICAL SCREEN STYLES

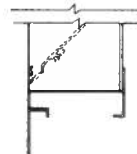


Wire Mesh

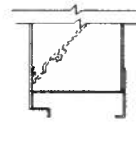


Expanded Aluminum - Standard

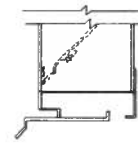
FRAME STYLES



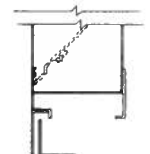
1 - Flange (1.5")



3 - Box




8 - Box with Sill Extension



9 - Flange with Sub Frame

DATE	ARCHITECT	ENGINEER
PROJECT		
ITEM	QTY	W H



DOWCO PRODUCTS GROUP certifies that the DDBE-04 louver shown herein is 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 Seal. The AMCA Certified Ratings Seal applies to air performance ratings and water penetration ratings.



DOWCO

DEPENDABLE PRODUCTS SINCE 1955

DOWCO Products Group

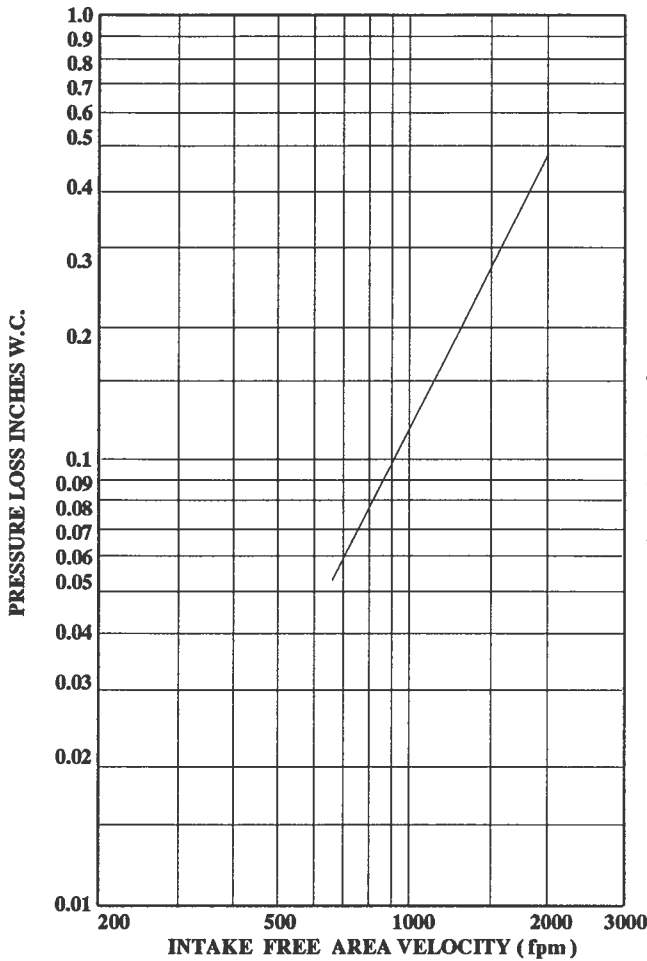
Engineering and General Offices

1855 South 54th Avenue, Cicero, Illinois 60804

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

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

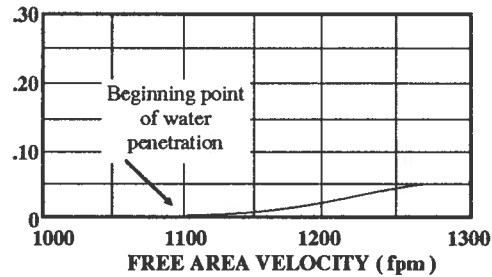
CALCULATING MAXIMUM AIRFLOW BEFORE WATER PENETRATION

The " free area flow rate " at which water penetration commences (.01 oz. of water) is established at 1113 fpm for D-DBE-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 (H₂O)
1113 1181 1272 1341 1409 1449 (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	.24	.38	.53	.67	.81	.95	1.10	1.24	1.38	1.53	1.67	1.81	1.96	2.10	2.24	2.39	2.53	2.67	2.82
18	.50	.80	1.10	1.40	1.70	2.00	2.30	2.60	2.89	3.19	3.49	3.79	4.09	4.39	4.69	4.99	4.99	5.29	5.59
24	.73	1.17	1.61	2.05	2.49	2.93	3.37	3.81	4.25	4.69	5.13	5.57	6.01	6.45	6.89	7.34	7.78	8.22	8.66
30	.97	1.55	2.13	2.71	3.29	3.87	4.45	5.03	5.61	6.19	6.78	7.36	7.94	8.52	9.10	9.68	10.26	10.84	11.42
36	1.24	1.99	2.73	3.48	4.22	4.97	5.71	6.45	7.20	7.94	8.69	9.43	10.18	10.92	11.67	12.41	13.16	13.90	14.65
42	1.53	2.44	3.36	4.28	5.19	6.11	7.03	7.94	8.86	9.78	10.69	11.61	12.53	13.44	14.36	15.28	16.19	17.11	18.03
48	1.76	2.82	3.88	4.93	5.99	7.05	8.11	9.16	10.22	11.28	12.34	13.39	14.45	15.51	16.56	17.62	18.68	19.74	20.79
54	2.00	3.19	4.39	5.59	6.79	7.99	9.18	10.38	11.58	12.78	13.98	15.17	16.37	17.57	18.77	19.97	21.16	22.36	23.56
60	2.24	3.59	4.94	6.28	7.63	8.98	10.32	11.67	13.01	14.36	15.71	17.05	18.40	19.75	21.09	22.44	23.79	25.13	26.48
66	2.53	4.05	5.57	7.09	8.60	10.12	11.64	13.16	14.68	16.19	17.71	19.23	20.75	22.27	23.79	25.30	26.82	28.34	29.86
72	2.79	4.47	6.14	7.81	9.49	11.16	12.84	14.51	16.19	17.86	19.54	21.21	22.88	24.56	26.23	27.91	29.58	31.26	32.93
78	3.03	4.84	6.66	8.47	10.29	12.10	13.92	15.73	17.55	19.36	21.18	22.99	24.81	26.62	28.44	30.25	32.07	33.88	35.70
84	3.26	5.22	7.17	9.13	11.08	13.04	14.99	16.95	18.91	20.86	22.82	24.77	26.73	28.68	30.64	32.60	34.55	36.51	38.46
90	3.53	5.65	7.77	9.89	12.01	14.13	16.25	18.37	20.49	22.61	24.73	26.85	28.97	31.09	33.21	35.33	37.45	39.57	41.69
96	3.82	6.11	8.40	10.69	12.99	15.28	17.57	19.86	22.15	24.44	26.74	29.03	31.32	33.61	35.90	38.19	40.49	42.78	45.07

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