

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

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

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

BLADES

.081" extruded aluminum, apx. spacing is 3 1/2" @ 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

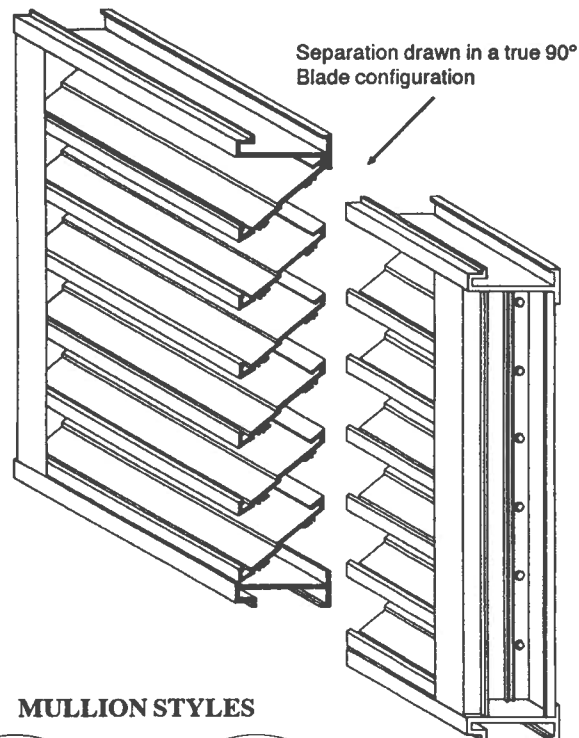
FRAME - Available in a heavier extrusion of .125"

BLADES - Available in a heavier extrusion of .125"

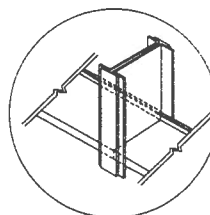
SCREENS - Many styles available please consult screen listing

MULLIONS - Visible for architectural preference

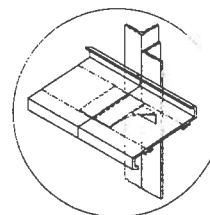
FINISH - Air dry primer, polyurethane, epoxy, or enamel. Baked epoxy or enamel. Anodize or Kynar



MULLION STYLES



Visible



Invisible

PERFORMANCE

Point of
water penetration
1016 fpm

Free area
48 x 48 section
60 %

SPECIAL PURPOSE CONSTRUCTION

Special shapes; Triangle, Trapezoid, etc.

Fully welded assembly

Security bars

Filter racks

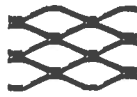
Hinged as walk through door or for swing out access

Sleeved for ductwork connection

TYPICAL SCREEN STYLES

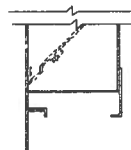


Wire Mesh

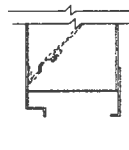


Expanded Aluminum - Standard

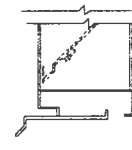
FRAME STYLES



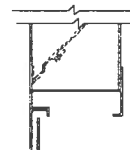
1 - Flange (1.5")



3 - Box



8 - Box with
Sill Extension



9 - Flange
with Sub Frame

DATE	ARCHITECT			ENGINEER
PROJECT				
ITEM	QTY	W	H	

**AMCA
CERTIFIED
RATINGS**

**WATER
RESISTANCE**

**AIR
PERFORMANCE**

AMCA
ACCREDITED
AND CONTROL
ASSOCIATION, INC.

DOWCO PRODUCTS GROUP
Certifies that the DBE louvers
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.



DOWCO

DEPENDABLE PRODUCTS SINCE 1955

DOWCO Products Group

Engineering and General Offices

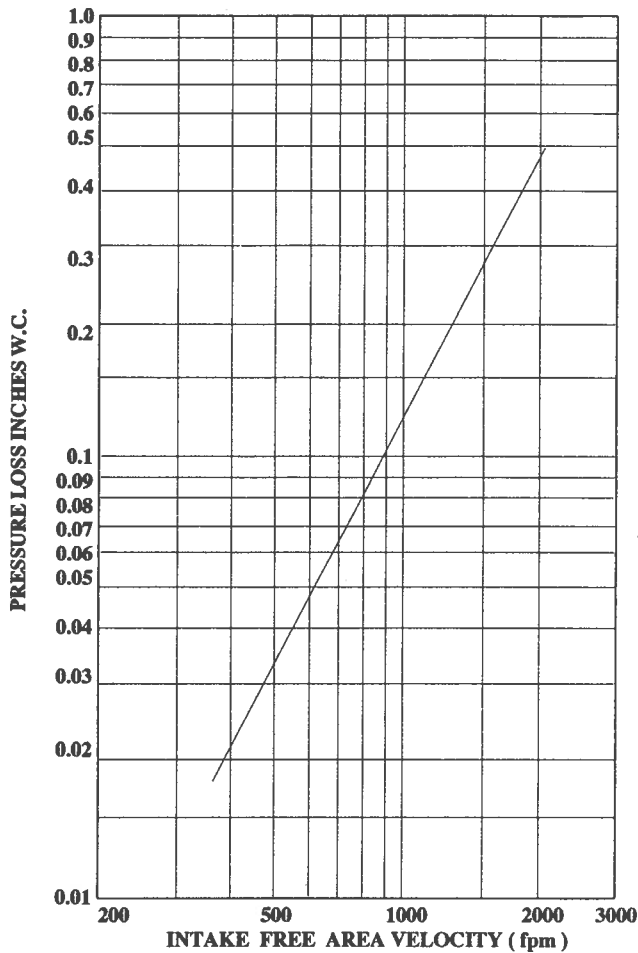
1855 South 54th Avenue, Cicero, Illinois 60804

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

DOWCO® DBE-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

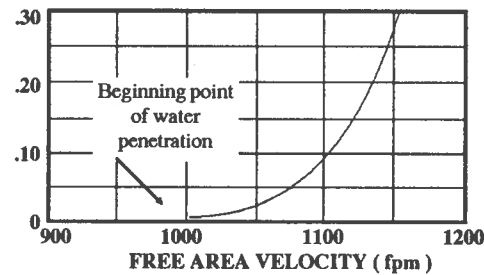
CALCULATING MAXIMUM AIRFLOW BEFORE WATER PENETRATION

The " free area flow rate " at which water penetration commences (.01 oz. of water) is established at, 1016 fpm for DBE-04, and will vary depending upon actual weather onditions. 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)
1016 1044 1080 1108 1136 1152 (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	.72	.91	1.11	1.30	1.50	1.69	1.88	2.08	2.28	2.47	2.66	2.86	3.06	3.25	3.44	3.64	3.83
18	.59	.94	1.30	1.65	2.00	2.35	2.71	3.06	3.41	3.77	4.12	4.47	4.83	5.18	5.54	5.89	6.24	6.60	6.95
24	.84	1.34	1.85	2.35	2.86	3.36	3.87	4.37	4.88	5.39	5.89	6.40	6.90	7.41	7.91	8.42	8.92	9.43	9.93
30	1.20	1.92	2.64	3.37	4.09	4.81	5.53	6.26	6.98	7.70	8.42	9.15	9.87	10.59	11.31	12.04	12.76	13.48	14.20
36	1.46	2.34	3.23	4.11	4.99	5.87	6.75	7.63	8.51	9.39	10.27	11.15	12.03	12.91	13.79	14.68	15.56	16.44	17.32
42	1.73	2.77	3.81	4.84	5.88	6.92	7.96	9.00	10.04	11.08	12.12	13.16	14.20	15.24	16.28	17.31	18.35	19.39	20.43
48	2.06	3.30	4.54	5.78	7.02	8.26	9.54	10.74	11.98	13.22	14.46	15.70	16.94	18.18	19.42	20.66	21.90	23.14	24.38
54	2.34	3.75	5.16	6.57	7.97	9.38	10.79	12.20	13.61	15.01	16.42	17.83	19.24	20.65	22.05	23.46	24.87	26.28	27.69
60	2.61	4.17	5.74	7.31	8.87	10.44	12.00	13.57	15.14	16.70	18.27	19.84	21.40	22.97	24.53	26.10	27.67	29.23	30.80
66	2.90	4.65	6.40	8.14	9.89	11.63	13.38	15.12	16.87	18.61	20.36	22.10	23.85	25.59	27.34	29.09	30.83	32.58	34.32
72	3.22	5.16	7.09	9.03	10.96	12.90	14.83	16.77	18.70	20.64	22.57	24.51	26.44	28.38	30.31	32.25	34.18	36.12	38.05
78	3.48	5.83	7.67	9.77	11.86	13.95	16.05	18.14	20.23	22.33	24.42	26.51	28.61	30.70	32.79	34.89	36.98	39.07	41.17
84	3.75	6.00	8.25	10.50	12.76	15.01	17.26	19.51	21.76	24.02	26.27	28.52	30.77	33.02	35.28	37.53	39.78	42.03	44.28
90	4.08	6.54	8.99	11.44	13.89	16.35	18.80	21.25	23.71	26.16	28.61	31.06	33.52	35.97	38.42	40.88	43.33	45.78	48.23
96	4.37	6.99	9.62	12.24	14.87	17.49	20.12	22.74	25.37	27.99	30.62	33.24	35.87	38.49	41.12	43.74	46.36	48.99	51.61

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