DOWCO®

FEB 2 6 1998

EXTRUDED ALUMINUM LOUVER

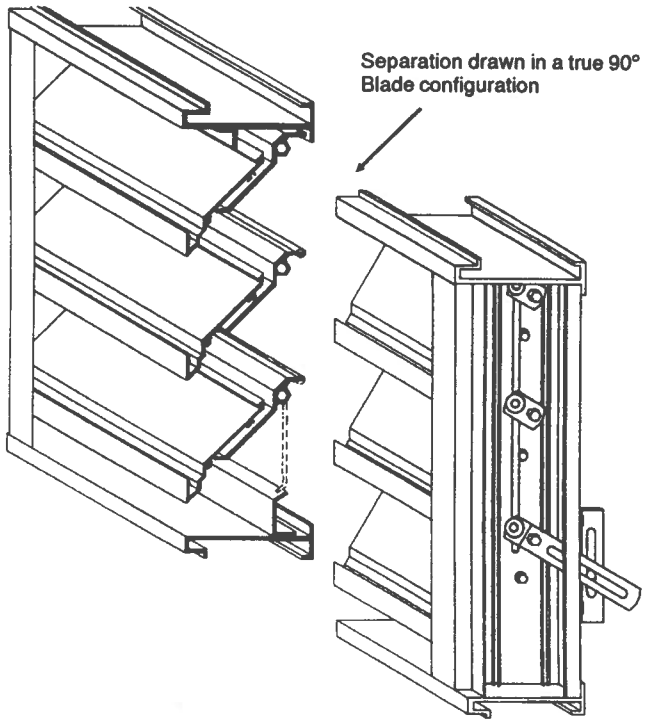
Combination Fixed / Adjustable Drainable Blade Louver Model C-DWE-46

Features — Combination feature gives a hidden effect and superior shut off quality to competitive designs. Useful applications are high static pressure systems or where the tightest possible seal is required.

STANDARD CONSTRUCTION

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

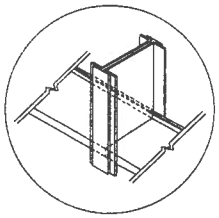
FRAME
06" thick .081" extruded aluminum in style #3
BLADES
Fixed – Drainable design .081" extruded alum, apx. spacing is 5 1/2"@45°
Adjustable – .125" extruded aluminum
BLADE AXELS & BEARINGS
Axles – 7/16" Plated hex
Bearings – Bronze oilite
LINKAGE
Concealed in jamb
BLADE & JAMB SEALS
Vinyl blade edge and flexible metal jamb seals
MAXIMUM SIZE
Unlimited, with mullions, structural bracing supplied by others
MAXIMUM SINGLE SECTION
60"W x 96"H
(Over 60" wide will have double linkage)
MULLIONS
Visible
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 in frame
FINISH
Mill
OPERATOR
Wingnut adjustable



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
FINISH - Air dry primer, polyurethane, epoxy, or enamel. Baked epoxy or enamel. Anodize or Kynar
OPERATORS - Manual, electric or pneumatic

MULLION STYLE



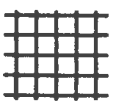
Visible

PERFORMANCE	
Point of water penetration	929 fpm
Free area 48 x 48 section	49%

SPECIAL PURPOSE CONSTRUCTION

Welded linkage
Security bars
Filter racks
Sleeved for ductwork connection
Jackshaft when required

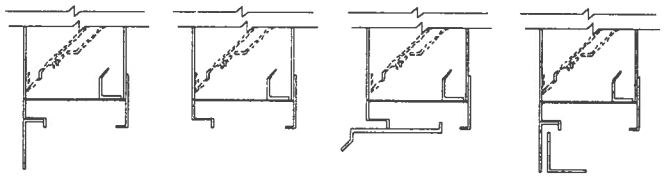
TYPICAL SCREEN STYLES



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 PERFORMANCE — AIR PERFORMANCE — AND MOVEMENT AND CONTROL ASSOCIATION INC.

DOWCO PRODUCTS GROUP Certifies that the C-DWE 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 and water penetration ratings only.

DOWCO®
DEPENDABLE PRODUCTS SINCE 1955

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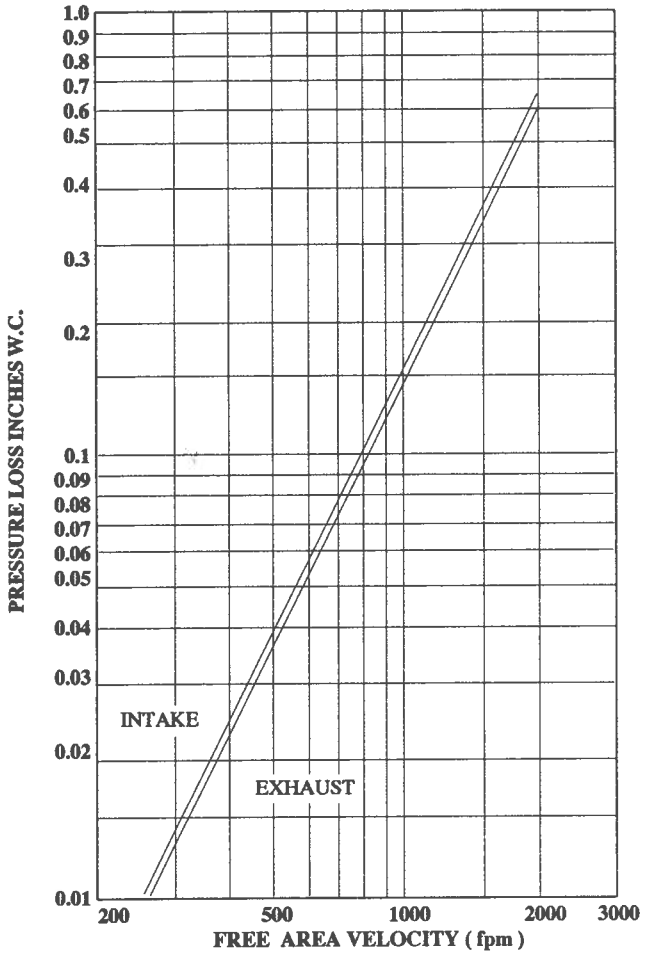
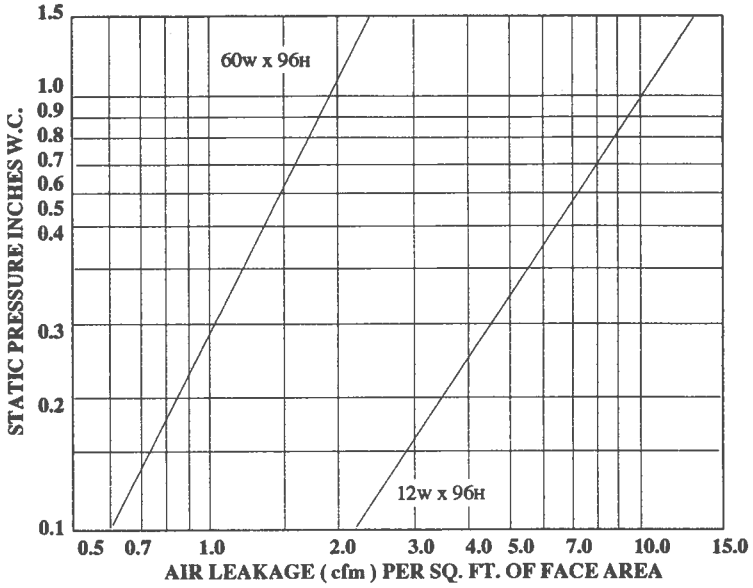
DOWCO C-DWE - 46 PERFORMANCE SPECIFICATIONS

AIR PERFORMANCE

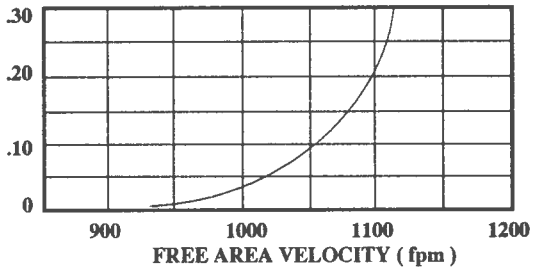


AIR LEAKAGE



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)
C-DWE-46	929	967	1017	1055	1093	1115	(fpm)



CALCULATING MAXIMUM AIRFLOW BEFORE WATER PENETRATION

The " free area flow rate " at which water penetration commences (.01 oz. of water) is estimated at, 929 fpm for C-DWE-46, 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) (929 Max)

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

FREE AREA CALCULATIONS IN SQ. FT.

HEIGHT \ WIDTH	12	18	24	30	36	42	48	54	60
12	.19	.33	.47	.61	.74	.88	1.02	1.16	1.29
18	.41	.70	.99	1.28	1.57	1.86	2.15	2.45	2.74
24	.63	1.07	1.52	1.96	2.40	2.85	3.29	3.73	4.18
30	.85	1.44	2.04	2.64	3.23	3.83	4.43	5.02	5.62
36	1.06	1.81	2.56	3.31	4.06	4.81	5.56	6.31	7.06
42	1.28	2.18	3.09	3.99	4.89	5.79	6.70	7.60	8.50
48	1.50	2.55	3.61	4.66	5.72	6.78	7.83	8.89	9.95
54	1.71	2.92	4.13	5.34	6.55	7.76	8.97	10.18	11.39
60	1.93	3.29	4.65	6.02	7.38	8.74	10.10	11.47	12.83
66	2.15	3.66	5.18	6.69	8.21	9.72	11.24	12.76	14.27
72	2.36	4.03	5.70	7.37	9.04	10.71	12.38	14.04	15.71
78	2.58	4.40	6.22	8.05	9.87	11.69	13.51	15.33	17.15
84	2.80	4.77	6.75	8.72	10.70	12.67	14.65	16.62	18.60
90	3.01	5.14	7.27	9.40	11.53	13.65	15.78	17.91	20.04
96	3.23	5.51	7.79	10.07	12.36	14.64	16.92	19.20	21.48