

Drainable Blade Louver in 6" deep frame design • Model D-DBE-06

Design Features – High performance dual drain design allowing maximum airflow with minimum outside element or water penetration. Louvers are designed to withstand inward and outward wind pressure up to 25 psf (100 mph).

STANDARD CONSTRUCTION

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

FRAME

D-DBE-06, 6" (152) deep, .081" ga. (2.1) extruded alum. in style #3.

BLADES

D-DBE-06, 6" (152), .081" ga. (2.1) extruded alum, approx. spacing is 5" (127) @ 36°

FASTENERS

#10 Plated steel screw

MAXIMUM SIZE

Unlimited, with mullions, structural bracing supplied by others

MAXIMUM FACTORY ASSEMBLY SIZE

120" W x 84" H or vice versa (allows for best handling)
(Type of finish may limit maximum single section)

MULLION

Invisible

MINIMUM SIZE

12" W x 12" H (305 x 305)

UNDERSIZED

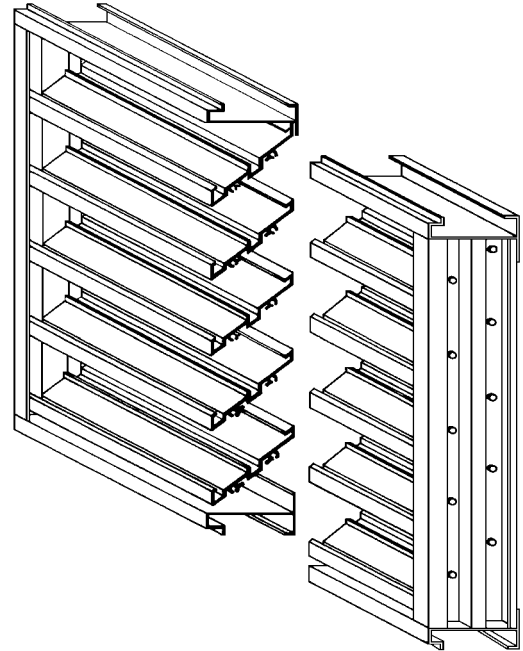
1/4" (6) under ordered size unless specified Exact or Actual

SCREEN

3/4" x .051" ga. (19 x 1.3) flattened expanded alum. bird screen no frame

FINISH

Mill



OPTIONAL CONSTRUCTION

FRAME – Available in a heavier extrusion of .125" ga. (3.2)

BLADES – Available in a heavier extrusion of .125" ga. (3.2)

SCREEN - Many styles available please consult screen listing

FINISH – Air-dry primer, Polyurethane, Epoxy, Baked Enamel, Powder Coat, Anodized or Kynar 500.

MULLION – Visible for architectural preference

SPECIAL PURPOSE CONSTRUCTION

Special Shapes; Triangle, Trapezoid, and etc.

Fully welded construction

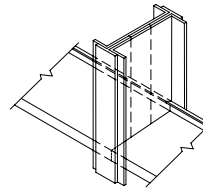
Security bars

Filter racks

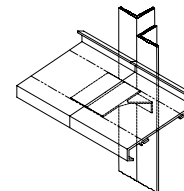
Hinged as walk through door or for swing out access

Sleeved for ductwork connection

MULLION STYLES



Visible



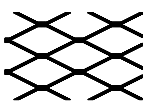
Invisible
Standard

PERFORMANCE

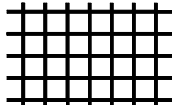
Point of
Water Penetration
1243 fpm (379)

Free Area
48" x 48" (1219 x 1219)
52%

TYPICAL SCREEN STYLES

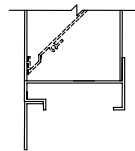


Expanded Aluminum
Standard

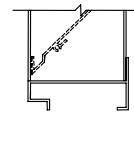


Wire Mesh

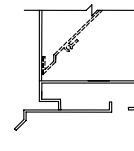
FRAME STYLES



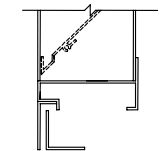
(1) - Flange
1-1/2" (38)



(3) - Box
Standard



(8) - Box and
Sill Extension



(9) - Flange
w/ sub frame

| | | | | |
|---------|----------------------|---|---|-----|
| DATE | ARCHITECT / ENGINEER | CUSTOMER | | |
| PROJECT | | | | |
| ITEM | QTY | W | H | TAG |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | DOWCO PRODUCTS GROUP certifies that the D-DBE-06 louver shown herein is licensed to bear the AMCA Seal. The rating shown is based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements on 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

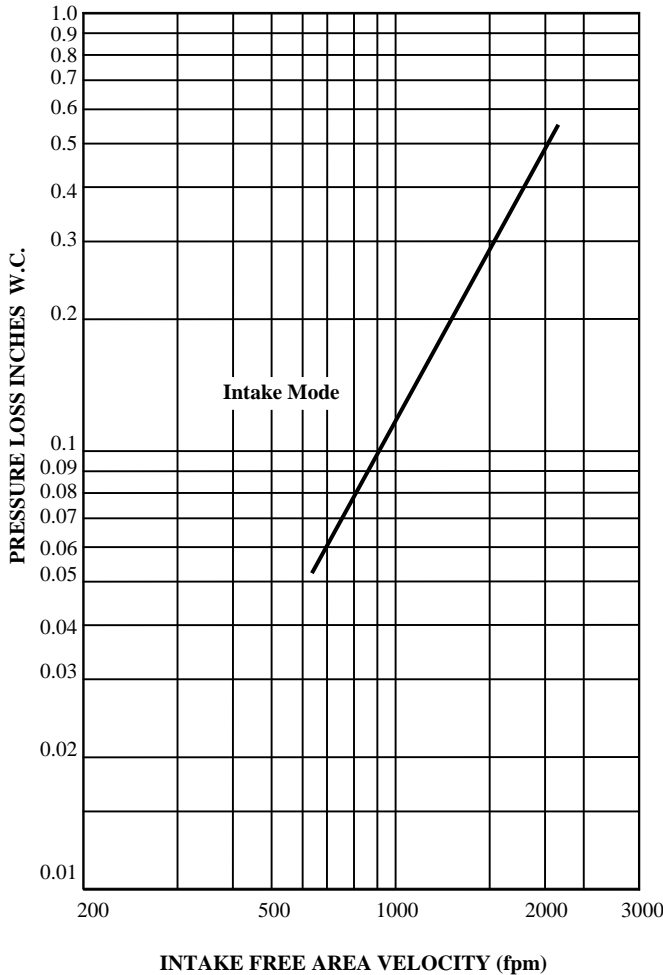
Engineering and General Offices

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

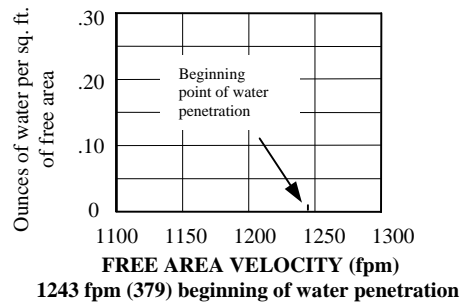
CALCULATING MAXIMUM AIRFLOW BEFORE WATER PENETRATION

The “free area flow rate” at which water penetration commences (.01 oz. of water) is established at, 1243 fpm (379) for D-DBE-06, 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 | .01 | .02 | .05 | .1 | .2 | 3 (H2O) |
|---|-----|-----|-----|-----|-----|-----------|
| 1243 | n/a | n/a | n/a | n/a | n/a | n/a (fpm) |



FREE AREA CALCULATIONS IN SQ. FT.

WIDTH

| INCHES | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | 90 | 96 | 102 | 108 | 114 | 120 |
|--------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 12 | .27 | .43 | .59 | .75 | .91 | 1.08 | 1.24 | 1.40 | 1.56 | 1.72 | 1.88 | 2.05 | 2.21 | 2.37 | 2.53 | 2.69 | 2.85 | 3.01 | 3.18 |
| 18 | .54 | .87 | 1.19 | 1.58 | 1.84 | 2.17 | 2.50 | 2.82 | 3.15 | 3.47 | 3.80 | 4.12 | 4.45 | 4.77 | 5.10 | 5.43 | 5.75 | 6.08 | 6.40 |
| 24 | .75 | 1.20 | 1.65 | 2.10 | 2.55 | 3.00 | 3.45 | 3.90 | 4.36 | 4.81 | 5.26 | 5.71 | 6.16 | 6.61 | 7.06 | 7.51 | 7.96 | 8.41 | 8.86 |
| 30 | .96 | 1.54 | 2.12 | 2.70 | 3.28 | 3.85 | 4.43 | 5.01 | 5.59 | 6.17 | 6.74 | 7.32 | 7.90 | 8.48 | 9.06 | 9.64 | 10.21 | 10.79 | 11.37 |
| 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 | 1.52 | 2.43 | 3.34 | 4.25 | 5.16 | 6.08 | 6.99 | 7.90 | 8.81 | 9.72 | 10.63 | 11.55 | 12.46 | 13.37 | 14.28 | 15.19 | 16.10 | 17.01 | 17.93 |
| 48 | 1.79 | 2.87 | 3.94 | 5.02 | 6.09 | 7.17 | 8.25 | 9.32 | 10.40 | 11.47 | 12.55 | 13.62 | 14.70 | 15.77 | 16.85 | 17.93 | 19.00 | 20.08 | 21.15 |
| 54 | 2.00 | 3.20 | 4.40 | 5.60 | 6.80 | 8.00 | 9.20 | 10.40 | 11.61 | 12.81 | 14.01 | 15.21 | 16.41 | 17.61 | 18.81 | 20.01 | 21.21 | 22.41 | 23.61 |
| 60 | 2.21 | 3.54 | 4.87 | 6.20 | 7.53 | 8.85 | 10.18 | 11.51 | 12.84 | 14.17 | 15.49 | 16.82 | 18.15 | 19.48 | 20.81 | 22.14 | 23.46 | 24.79 | 26.12 |
| 66 | 2.49 | 3.99 | 5.48 | 6.98 | 8.47 | 9.97 | 11.46 | 12.95 | 14.45 | 15.94 | 17.44 | 18.93 | 20.43 | 21.92 | 23.42 | 24.91 | 26.41 | 27.90 | 29.40 |
| 72 | 2.77 | 4.43 | 6.09 | 7.75 | 9.41 | 11.08 | 12.74 | 14.40 | 16.06 | 17.72 | 19.38 | 21.05 | 22.71 | 24.37 | 26.03 | 27.69 | 29.35 | 31.01 | 32.68 |
| 78 | 3.04 | 4.87 | 6.69 | 8.52 | 10.34 | 12.17 | 14.00 | 15.82 | 17.65 | 19.47 | 21.30 | 23.12 | 24.95 | 26.77 | 28.60 | 30.43 | 32.25 | 34.08 | 35.90 |
| 84 | 3.25 | 5.20 | 7.15 | 9.10 | 11.05 | 13.00 | 14.95 | 16.90 | 18.86 | 20.81 | 22.76 | 24.71 | 26.66 | 28.61 | 30.56 | 32.51 | 34.46 | 36.41 | 38.36 |
| 90 | 3.46 | 5.54 | 7.62 | 9.70 | 11.78 | 13.85 | 15.93 | 18.01 | 20.09 | 22.17 | 24.24 | 26.32 | 28.40 | 30.48 | 32.56 | 34.64 | 36.71 | 38.79 | 40.87 |
| 96 | 3.74 | 5.99 | 8.23 | 10.48 | 12.72 | 14.97 | 17.21 | 19.45 | 21.70 | 23.94 | 26.19 | 28.43 | 30.68 | 32.92 | 35.17 | 37.41 | 39.66 | 41.90 | 44.15 |

HEIGHT