

EXTRUDED ALUMINUM STATIONARY LOUVER
4" (102) DEEP • DUAL DRAINABLE BLADE
MODEL: D-DBE-04

Model D-DBE-04, dual drainable blade type louver, provides maximum weather protection in a 4" (102) deep frame, with good air performance and pleasing aesthetics that compliment any structure's exterior styling. Standard construction features a drainable head that collects the water running down the building face and channels it out the concealed downspouts in the side frame, preventing it from flowing down into the airstream. Suitable for use in exhaust and low to medium velocity intake applications, the dual drainable blade design utilizes double rain gutters that divert collected water down concealed side downspouts and out the sill. Blades are reinforced with full length integral bosses for superior strength and the design provides good air performance through it's 51% free area as well as maximum protection against the elements. Model D-DBE-04 is available with channel or flanged type frame to suit most architectural and mechanical installation requirements and is AMCA Licensed.

STANDARD CONSTRUCTION:

- FRAME:** 4" (102) deep, Type 6063-T6 extruded aluminum, .080" (2.03) nominal wall thickness. Integral downspouts and caulking slot provided.
- BLADES:** Type 6063-T6 extruded aluminum, .080" (2.03) nominal wall thickness, with reinforcing bosses.
- BLADE ANGLE:** Fixed at 37 degrees.
- BLADE SPACING:** Approx. 4" (102) on centers.
- BLADE SUPPORT BRACKETS:** Concealed type, factory installed on rear of louver on maximum 60" (1524) centers. Reinforced with 1 1/2" x 2" (38 x 51) angle (adds approx. 2" [51] to overall louver depth).
- MULLIONS:** Concealed type allowing continuous line appearance up to 120" (3048) wide. Larger assemblies require separate visible frames with downspouts.
- SCREEN:** 3/4" x .051 (19 x 1.3) expanded, flattened aluminum bird screen in removable frame, inside (rear) mount (adds approximately 3/8" [10] to louver depth).
- FINISH:** Mill.
- MINIMUM SIZE:** 12" W x 12" H (305 x 305).
- MAXI. SINGLE SECTION SIZE:** 120" W x 84" H (3048 x 2134) or 84" W x 120" H (2134 x 3048). 70 sq. ft. (6.5m²). Larger louvers will require field assembly of smaller sections.

OPTIONS:

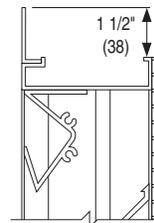
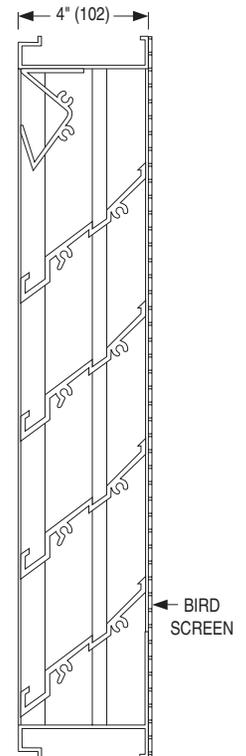
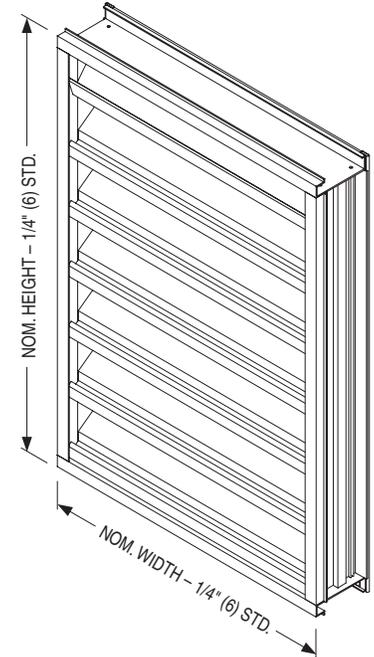
- FL** Flanged Frame.
- BSSS** Type 304 S.S. Bird Screen.
- BSN** No Bird Screen.
- ISA** Aluminum Insect Screen.
- ISSS** Type 304 S.S. Insect Screen.
- WE** Welded Construction.
- ESI** Extended Sill.
- FR1** 1" (25) Filter Rack.
- FR2** 2" (51) Filter Rack.
- PAC** Perimeter Anchor Clips.
- Other:** _____

OPTIONAL FINISHES:

- PC3** Powder Coat AAMA 2603. Color: _____.
 - PC4** High Performance Powder Coat AAMA 2604 (Equiv. to 50% Kynar®). Color: _____.
 - PC5** Fluoropolymer Powder Coat AAMA 2605 (Equiv. to 70% Kynar®). Color: _____.
 - PCC** Prime Coat.
 - AN04** Clear Anodized 204-R1.
 - AN15** Clear Anodized 215-R1.
- Color Anodized:
- ANLB** Light Bronze. **ANMB** Medium Bronze.
 - ANDB** Dark Bronze. **ANBK** Black.

OPTIONAL W x H SIZING (1/4" [6.5] Undersize standard):

- U00** Exact Size.
- U38** Undersize 3/8" (9.5).
- U50** Undersize 1/2" (12.7).



FLANGED FRAME (FL)
(OPTIONAL)

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Page 1 of 3
Dimensions are in inches (mm).

| DATE | B SERIES | SUPERSEDES | DRAWING NO. |
|------------|----------|--------------|-------------|
| 3 - 3 - 23 | LOUVER | 11 - 22 - 19 | D-DBE-04 |



**EXTRUDED ALUMINUM STATIONARY LOUVER
4" (102) DEEP • DUAL DRAINABLE BLADE
PERFORMANCE DATA
MODEL: D-DBE-04**

FREE AREA in Square Feet and Square Meters

| | | Width in Inches and Meters | | | | | | | | | | | | | | | | | | |
|-----------------------------|-------------|----------------------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | 12 0.30 | 18 0.46 | 24 0.61 | 30 0.76 | 36 0.91 | 42 1.07 | 48 1.22 | 54 1.37 | 60 1.52 | 66 1.68 | 72 1.83 | 78 1.98 | 84 2.13 | 90 2.29 | 96 2.44 | 102 2.59 | 108 2.74 | 114 2.90 | 120 3.05 |
| Height in Inches and Meters | 12 0.30 | 0.23 0.02 | 0.37 0.03 | 0.51 0.05 | 0.65 0.06 | 0.79 0.07 | 0.93 0.09 | 1.07 0.10 | 1.21 0.11 | 1.35 0.13 | 1.49 0.14 | 1.63 0.15 | 1.77 0.16 | 1.91 0.18 | 2.05 0.19 | 2.19 0.20 | 2.33 0.22 | 2.47 0.23 | 2.61 0.24 | 2.75 0.26 |
| | 18 0.46 | 0.54 0.05 | 0.86 0.08 | 1.18 0.11 | 1.51 0.14 | 1.83 0.17 | 2.15 0.20 | 2.47 0.23 | 2.80 0.26 | 3.12 0.29 | 3.44 0.32 | 3.77 0.35 | 4.09 0.38 | 4.41 0.41 | 4.73 0.44 | 5.06 0.47 | 5.38 0.50 | 5.70 0.53 | 6.02 0.56 | 6.35 0.59 |
| | 24 0.61 | 0.73 0.07 | 1.17 0.11 | 1.61 0.15 | 2.05 0.19 | 2.49 0.23 | 2.93 0.27 | 3.37 0.31 | 3.81 0.35 | 4.25 0.40 | 4.69 0.44 | 5.13 0.48 | 5.57 0.52 | 6.01 0.56 | 6.45 0.60 | 6.89 0.64 | 7.33 0.68 | 7.77 0.72 | 8.21 0.76 | 8.65 0.80 |
| | 30 0.76 | 1.01 0.09 | 1.62 0.15 | 2.23 0.21 | 2.83 0.26 | 3.44 0.32 | 4.05 0.38 | 4.65 0.43 | 5.26 0.49 | 5.87 0.55 | 6.47 0.60 | 7.08 0.66 | 7.69 0.71 | 8.30 0.77 | 8.90 0.83 | 9.51 0.88 | 10.12 0.94 | 10.72 1.00 | 11.33 1.05 | 11.94 1.11 |
| | 36 0.91 | 1.29 0.12 | 2.06 0.19 | 2.84 0.26 | 3.61 0.34 | 4.39 0.41 | 5.16 0.48 | 5.93 0.55 | 6.71 0.62 | 7.48 0.70 | 8.26 0.77 | 9.03 0.84 | 9.80 0.91 | 10.58 0.98 | 11.35 1.05 | 12.13 1.13 | 12.90 1.20 | 13.67 1.27 | 14.45 1.34 | 15.22 1.41 |
| | 42 1.07 | 1.51 0.14 | 2.42 0.23 | 3.33 0.31 | 4.24 0.39 | 5.15 0.48 | 6.06 0.56 | 6.96 0.65 | 7.87 0.73 | 8.78 0.82 | 9.69 0.90 | 10.60 0.98 | 11.51 1.07 | 12.41 1.15 | 13.32 1.24 | 14.23 1.32 | 15.14 1.41 | 16.05 1.49 | 16.95 1.58 | 17.86 1.66 |
| | 48 1.22 | 1.79 0.17 | 2.87 0.27 | 3.94 0.37 | 5.02 0.47 | 6.09 0.57 | 7.17 0.67 | 8.14 0.76 | 9.32 0.87 | 10.39 0.97 | 11.47 1.07 | 12.54 1.17 | 13.62 1.27 | 14.69 1.37 | 15.77 1.46 | 16.84 1.56 | 17.92 1.66 | 18.99 1.76 | 20.07 1.86 | 21.14 1.96 |
| | 54 1.37 | 2.07 0.19 | 3.31 0.31 | 4.55 0.42 | 5.80 0.54 | 7.04 0.65 | 8.28 0.77 | 9.52 0.88 | 10.76 1.00 | 12.00 1.12 | 13.25 1.23 | 14.49 1.35 | 15.73 1.46 | 16.97 1.58 | 18.21 1.69 | 19.46 1.81 | 20.70 1.92 | 21.94 2.04 | 23.18 2.15 | 24.42 2.27 |
| | 60 1.52 | 2.29 0.21 | 3.67 0.34 | 5.05 0.47 | 6.42 0.60 | 7.80 0.72 | 9.18 0.85 | 10.55 0.98 | 11.93 1.11 | 13.30 1.24 | 14.68 1.36 | 16.06 1.49 | 17.43 1.62 | 18.81 1.75 | 20.19 1.88 | 21.56 2.00 | 22.94 2.13 | 24.32 2.26 | 25.69 2.39 | 27.07 2.51 |
| | 66 1.68 | 2.58 0.24 | 4.13 0.38 | 5.68 0.53 | 7.23 0.67 | 8.78 0.82 | 10.32 0.96 | 11.87 1.10 | 13.42 1.25 | 14.97 1.39 | 16.52 1.53 | 18.07 1.68 | 19.61 1.82 | 21.16 1.97 | 22.71 2.11 | 24.26 2.25 | 25.81 2.40 | 27.36 2.54 | 28.91 2.69 | 30.45 2.83 |
| | 72 1.83 | 2.80 0.26 | 4.47 0.42 | 6.15 0.57 | 7.83 0.73 | 9.50 0.88 | 11.18 1.04 | 12.86 1.19 | 14.54 1.35 | 16.21 1.51 | 17.89 1.66 | 19.57 1.82 | 21.25 1.97 | 22.92 2.13 | 24.60 2.29 | 26.28 2.44 | 27.96 2.60 | 29.63 2.75 | 31.31 2.91 | 32.99 3.06 |
| | 78 1.98 | 3.07 0.29 | 4.92 0.46 | 6.76 0.63 | 8.61 0.80 | 10.45 0.97 | 12.30 1.14 | 14.14 1.31 | 15.99 1.49 | 17.83 1.66 | 19.67 1.83 | 21.52 2.00 | 23.36 2.17 | 25.21 2.34 | 27.05 2.51 | 28.90 2.68 | 30.74 2.86 | 32.59 3.03 | 34.43 3.20 | 36.28 3.37 |
| | 84 2.13 | 3.35 0.31 | 5.36 0.50 | 7.38 0.69 | 9.39 0.87 | 11.40 1.06 | 13.41 1.25 | 15.42 1.43 | 17.43 1.62 | 19.44 1.81 | 21.45 1.99 | 23.47 2.18 | 25.48 2.37 | 27.49 2.55 | 29.50 2.74 | 31.51 2.93 | 33.52 3.11 | 35.53 3.30 | 37.55 3.49 | 39.56 3.67 |
| | 90 2.29 | 3.58 0.33 | 5.72 0.53 | 7.87 0.73 | 10.01 0.93 | 12.16 1.13 | 14.30 1.33 | 16.45 1.53 | 18.59 1.73 | 20.74 1.93 | 22.88 2.13 | 25.03 2.33 | 27.17 2.52 | 29.32 2.72 | 31.46 2.92 | 33.61 3.12 | 35.75 3.32 | 37.90 3.52 | 40.04 3.72 | 42.19 3.92 |
| | 96 2.44 | 3.85 0.36 | 6.17 0.57 | 8.48 0.79 | 10.79 1.00 | 13.10 1.22 | 15.42 1.43 | 17.73 1.65 | 20.04 1.86 | 22.35 2.08 | 24.67 2.29 | 26.98 2.51 | 29.29 2.72 | 31.60 2.94 | 33.91 3.15 | 36.23 3.37 | 38.54 3.58 | 40.85 3.80 | 43.16 4.01 | 45.48 4.22 |
| | 102 2.59 | 4.14 0.38 | 6.62 0.61 | 9.10 0.85 | 11.58 1.08 | 14.06 1.31 | 16.55 1.54 | 19.03 1.77 | 21.51 2.00 | 23.99 2.23 | 26.47 2.46 | 28.95 2.69 | 31.44 2.92 | 33.92 3.15 | 36.40 3.38 | 38.88 3.61 | 41.36 3.84 | 43.85 4.07 | 46.33 4.30 | 48.81 4.53 |
| | 108 2.74 | 4.36 0.40 | 6.97 0.65 | 9.58 0.89 | 12.20 1.13 | 14.81 1.38 | 17.42 1.62 | 20.04 1.86 | 22.65 2.10 | 25.27 2.35 | 27.88 2.59 | 30.49 2.83 | 33.11 3.08 | 35.72 3.32 | 38.33 3.56 | 40.95 3.80 | 43.56 4.05 | 46.17 4.29 | 48.79 4.53 | 51.40 4.78 |
| | 114 2.90 | 4.63 0.43 | 7.42 0.69 | 10.20 0.95 | 12.98 1.21 | 15.76 1.46 | 18.54 1.72 | 21.32 1.98 | 24.10 2.24 | 26.88 2.50 | 29.66 2.76 | 32.44 3.01 | 35.22 3.27 | 38.00 3.53 | 40.78 3.79 | 43.56 4.05 | 46.34 4.31 | 49.13 4.56 | 51.91 4.82 | 54.69 5.08 |
| | 120 3.05 | 4.86 0.45 | 7.77 0.72 | 10.69 0.99 | 13.60 1.26 | 16.51 1.53 | 19.43 1.80 | 22.34 2.08 | 25.26 2.35 | 28.17 2.62 | 31.09 2.89 | 34.00 3.16 | 36.91 3.43 | 39.83 3.70 | 42.74 3.97 | 45.66 4.24 | 48.57 4.51 | 51.49 4.78 | 54.40 5.05 | 57.32 5.32 |



| | | | | | |
|-----------------------|--|--------------------------------|-----------------|-------------------|--------------------|
| SCHEDULE TYPE: | | Page 2 of 3 | | | |
| PROJECT: | | Dimensions are in inches (mm). | | | |
| ENGINEER: | | DATE | B SERIES | SUPERSEDES | DRAWING NO. |
| CONTRACTOR: | | 3 - 3 - 23 | LOUVER | 11 - 22 - 19 | D-DBE-04 |

**EXTRUDED ALUMINUM STATIONARY LOUVER
4" (102) DEEP • DUAL DRAINABLE BLADE
PERFORMANCE DATA
MODEL: D-DBE-04**

**AIRFLOW/WATER PENETRATION DATA
for 48" x 48" (1219 x 1219) Louver Size**

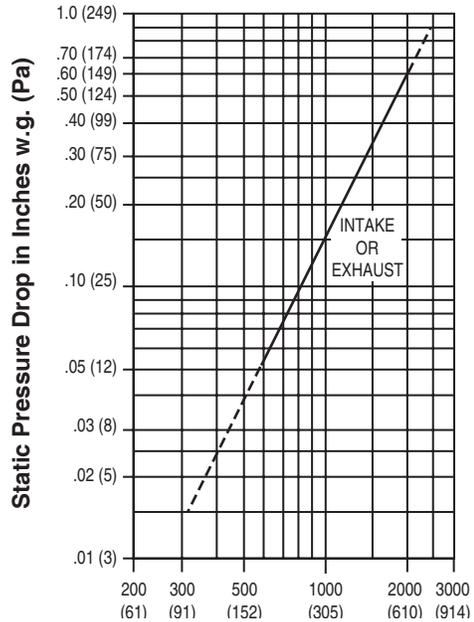
| | | |
|----------------------------|--|-----------------------|
| Free Area % | 51% | |
| Free Area sq. ft. (sq. m.) | 8.14 (0.76) | |
| I N T A K E | Free Area Velocity at Point of Beginning Water Penetration at .01 oz./sq. ft. (3 ml/sq. m) (15 min. test duration) | 1000 fpm (305 m/min.) |
| | Air Volume at 1000 fpm | 8140 cfm (3841 l/s) |
| | Free Area Velocity | |
| | Pressure Drop @ 1000 fpm | .16 in. w.g. (40 Pa) |

NOTE: To minimize water penetration when sizing intake louvers, select a Free Area Velocity that is **below** the point of beginning water penetration.



Safe-Air certifies the Model D-DBE-04 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 Program. Seal applies to air performance ratings and water penetration ratings.

PRESSURE DROP



Air Velocity in Feet (Meters) Per Minute Through Free Area
Louver test size: 48" x 48" (1219 x 1219 mm).
Standard air density @ 0.075 lbs/ft³.
Tested to AMCA Fig. 5.5 – 6.5.

| | | | | |
|-----------------------|--------------------------------|-----------------|-------------------|--------------------|
| SCHEDULE TYPE: | Page 3 of 3 | | | |
| PROJECT: | Dimensions are in inches (mm). | | | |
| ENGINEER: | DATE | B SERIES | SUPERSEDES | DRAWING NO. |
| CONTRACTOR: | 3 - 3 - 23 | LOUVER | 11 - 22 - 19 | D-DBE-04 |