



EXTRUDED ALUMINUM LOUVERS
6" (152) DEEP • COMBINATION DRAINABLE /
OPERABLE AIRFOIL BLADE
MODEL: 1606CDAF

Nailor Model 1606CDAF is an extruded aluminum combination louver and damper that incorporates front stationary drainable blades and rear adjustable airfoil blades all within a single frame. The design provides efficient air performance and aesthetics that compliment any building exterior, while providing tight shut-off when no airflow is required. The drainable blades provide excellent weather protection for exhaust and low to medium velocity intake air applications by utilizing rain gutters to divert collected water down concealed side downspouts and out the sill. Blades are reinforced with full length integral bosses for strength. Model 1606CDAF is available with channel or flanged type frame to suit most installation requirements, and is licensed by AMCA for assured performance.

STANDARD CONSTRUCTION:

- FRAME:** 6" (152) deep type 6063-T5 extruded aluminum, .125" (3.18) nominal wall thickness. Integral downspouts and caulking slot provided.
- BLADES:** Front stationary blades: drainable style, type 6063-T5 extruded aluminum, .080" (2.03) nominal wall thickness.
Rear operable blades: Airfoil style, type 6063-T5 extruded aluminum.
- BLADE ANGLE:** Front blades fixed at 45 degrees.
- BLADE SPACING:** Approx. 5 1/2" (140) on centers.
- MULLIONS:** Visible type (See Note 1).
- BLADE SEALS:** Silicone. Mechanically locked in place.
- JAMB SEALS:** Cambered stainless steel.
- BEARINGS:** 1/2" (13) dia. Oilite® self-lubricating bronze.
- AXLES:** 1/2" (13) dia. plated steel double bolted to blades.
- LINKAGE:** Concealed in frame.
- SCREEN:** 1/2" x 1/2" x 19 ga. (13 x 13 x 1.0) galvanized bird screen.
- FINISH:** Mill.
- MINIMUM SIZE:** 12" wide x 16" high (305 x 406).
- MAXIMUM SECTION SIZE:** 60" wide x 96" high (1524 x 2438).

ACTUATOR SELECTION:

- Manual Locking Quadrant (Standard).
- Electric Actuator. Specify: _____.
- Pneumatic Actuator. Specify: _____.

OPTIONS:

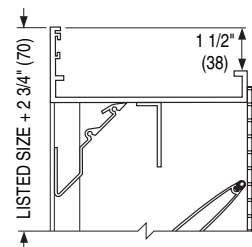
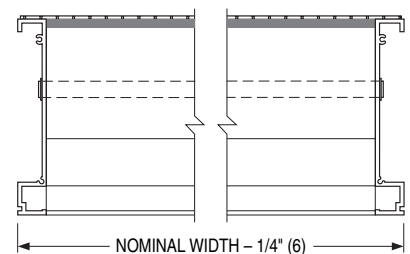
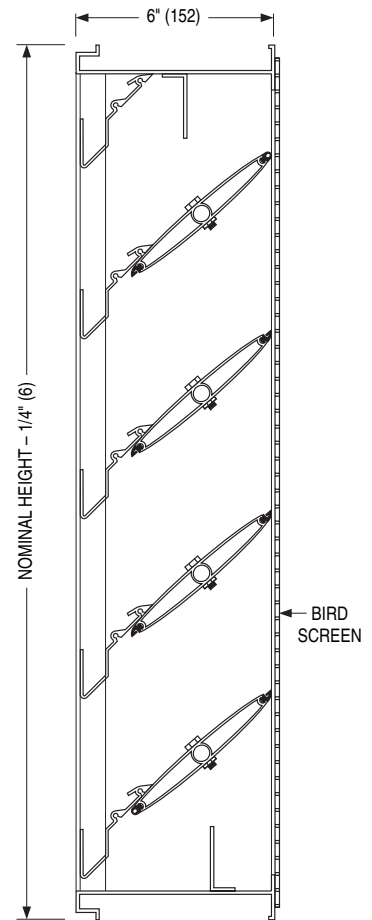
- FLI** Flanged Frame (Integral).
- BSA** Aluminum Bird Screen.
- ISA** Aluminum Insect Screen.
- WE** Welded Construction.

OPTIONAL FINISHES:

- BE** Baked Enamel. Color: _____.
- KY** Kynar 500®/Hylar 5000®. Color: _____.
- AN** Anodized. Specify: _____.
- PCF** Prime Coat.

NOTES:

1. Sizes larger than 60" wide x 96" high (1524 x 2438) will be manufactured in equal sections with visible mullions (downspouts are concealed) for assembly in the field.
2. Birdscreen adds 3/8" (10) to louver depth.
3. All mounting hardware, clip angles, etc. by others.



OPTIONAL INTEGRAL FLANGED FRAME (FLI)

Dimensions are in inches (mm).

| |
|-----------------------|
| SCHEDULE TYPE: |
| PROJECT: |
| ENGINEER: |
| CONTRACTOR: |

| DATE | B SERIES | SUPERSEDES | DRAWING NO. |
|-------------|----------|------------|-------------|
| 5 - 29 - 09 | 1600 | NEW | 1606CDAF-1 |

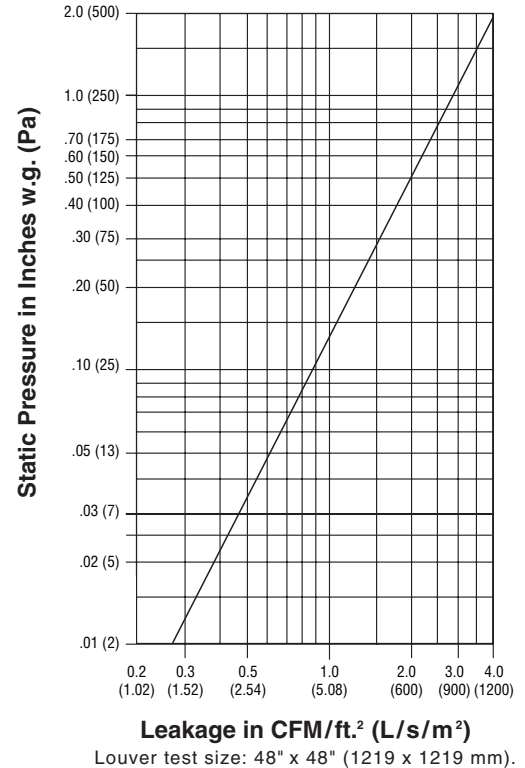


EXTRUDED ALUMINUM LOUVERS
**6" (152) DEEP • COMBINATION DRAINABLE/
 OPERABLE AIRFOIL BLADE**
PERFORMANCE DATA
MODEL: 1606CDAF

FREE AREA in Square Feet and Square Meters

| | | Width in Inches and Meters | | | | | | | | |
|-----------------------------|------|----------------------------|------|------|-------|-------|-------|-------|-------|-------|
| | | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 |
| Height in Inches and Meters | 16 | 0.20 | 0.36 | 0.52 | 0.68 | 0.83 | 0.99 | 1.15 | 1.30 | 1.31 |
| | 0.41 | 0.02 | 0.03 | 0.05 | 0.06 | 0.08 | 0.09 | 0.11 | 0.12 | 0.12 |
| | 20 | 0.42 | 0.74 | 1.07 | 1.39 | 1.71 | 2.04 | 2.36 | 2.69 | 3.01 |
| | 0.51 | 0.04 | 0.07 | 0.10 | 0.13 | 0.16 | 0.19 | 0.22 | 0.25 | 0.28 |
| | 24 | 0.54 | 0.96 | 1.38 | 1.80 | 2.22 | 2.64 | 3.06 | 3.48 | 3.90 |
| | 0.61 | 0.05 | 0.09 | 0.13 | 0.17 | 0.21 | 0.25 | 0.28 | 0.32 | 0.36 |
| | 30 | 0.70 | 1.25 | 1.79 | 2.34 | 2.88 | 3.43 | 3.97 | 4.51 | 5.06 |
| | 0.76 | 0.07 | 0.12 | 0.17 | 0.22 | 0.27 | 0.32 | 0.37 | 0.42 | 0.47 |
| | 36 | 0.93 | 1.66 | 2.38 | 3.10 | 3.83 | 4.55 | 5.27 | 6.00 | 6.72 |
| | 0.91 | 0.09 | 0.15 | 0.22 | 0.29 | 0.36 | 0.42 | 0.49 | 0.56 | 0.62 |
| | 42 | 1.10 | 1.94 | 2.79 | 3.64 | 4.49 | 5.34 | 6.18 | 7.03 | 7.88 |
| | 1.07 | 0.10 | 0.18 | 0.26 | 0.34 | 0.42 | 0.50 | 0.57 | 0.65 | 0.73 |
| | 48 | 1.22 | 2.16 | 3.11 | 4.05 | 4.99 | 5.94 | 6.89 | 7.82 | 8.77 |
| | 1.22 | 0.11 | 0.20 | 0.29 | 0.38 | 0.46 | 0.55 | 0.64 | 0.73 | 0.81 |
| | 54 | 1.45 | 2.57 | 3.69 | 4.82 | 5.94 | 7.06 | 8.18 | 9.31 | 10.43 |
| | 1.37 | 0.13 | 0.24 | 0.34 | 0.45 | 0.55 | 0.66 | 0.76 | 0.86 | 0.97 |
| 60 | 1.56 | 2.76 | 3.97 | 5.17 | 6.38 | 7.59 | 8.79 | 10.00 | 11.20 | |
| 1.52 | 0.14 | 0.26 | 0.37 | 0.48 | 0.59 | 0.70 | 0.82 | 0.93 | 1.04 | |
| 66 | 1.79 | 3.17 | 4.56 | 5.94 | 7.33 | 8.71 | 10.09 | 11.48 | 12.86 | |
| 1.68 | 0.17 | 0.29 | 0.42 | 0.55 | 0.68 | 0.81 | 0.94 | 1.07 | 1.19 | |
| 72 | 1.95 | 3.46 | 4.97 | 6.48 | 7.99 | 9.50 | 11.01 | 12.52 | 14.02 | |
| 1.83 | 0.18 | 0.32 | 0.46 | 0.60 | 0.74 | 0.88 | 1.02 | 1.16 | 1.30 | |
| 78 | 2.18 | 3.87 | 5.56 | 7.24 | 8.93 | 10.62 | 12.31 | 14.00 | 15.69 | |
| 1.98 | 0.20 | 0.36 | 0.52 | 0.67 | 0.83 | 0.99 | 1.14 | 1.30 | 1.46 | |
| 84 | 2.34 | 4.16 | 5.97 | 7.78 | 9.59 | 11.41 | 13.22 | 15.03 | 16.85 | |
| 2.13 | 0.22 | 0.39 | 0.55 | 0.72 | 0.89 | 1.06 | 1.23 | 1.40 | 1.57 | |
| 90 | 2.57 | 4.56 | 6.56 | 8.55 | 10.54 | 12.53 | 14.52 | 16.52 | 18.51 | |
| 2.29 | 0.24 | 0.42 | 0.61 | 0.79 | 0.98 | 1.16 | 1.35 | 1.53 | 1.72 | |
| 96 | 2.73 | 4.85 | 6.97 | 9.08 | 11.20 | 13.32 | 15.44 | 17.55 | 19.67 | |
| 2.44 | 0.25 | 0.45 | 0.65 | 0.84 | 1.04 | 1.24 | 1.43 | 1.63 | 1.83 | |

AIR LEAKAGE (Damper fully closed)



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

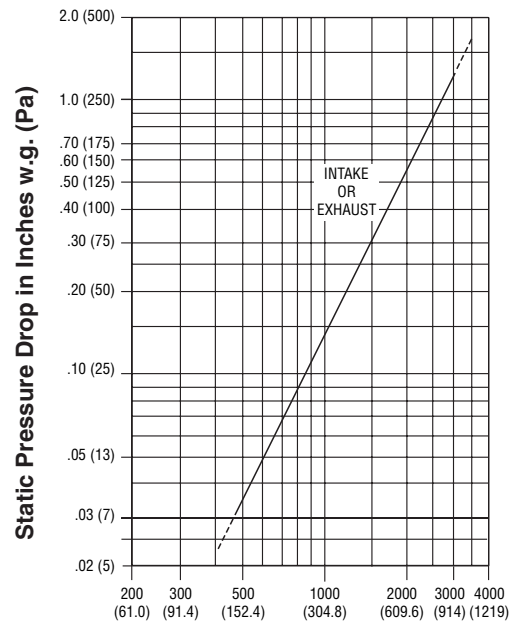
| | |
|--|-----------------------|
| Free Area % | 43% |
| Free Area sq. ft. (sq. m.) | 6.89 (0.64) |
| Free Area Velocity at Point of Beginning Water Penetration at .01 oz./sq. ft. (3 ml/sq. m) (15 min. test duration) | 1142 fpm (348 m/min.) |
| Air Volume at 1142 fpm | 7868 cfm (3713 l/s) |
| Free Area Velocity | |
| Pressure Drop @ 1142 fpm | .19 in. w.g. (47 Pa) |

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



Nailor Industries Inc. certifies the Model 1606CDAF 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



Dimensions are in inches (mm).

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

DATE

B SERIES

SUPERSEDES

DRAWING NO.

5 - 29 - 09

1600

NEW

1606CDAF-2