



EXTRUDED ALUMINUM COMBINATION LOUVER/DAMPER 6" (152) DEEP • DRAINABLE BLADE OPERABLE AIRFOIL DAMPER 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.
- 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:** 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).
- ACTUATOR:** Hand locking louver quadrant.
- FINISH:** Mill.
- MINIMUM SIZE:** 12" W x 12" H (305 x 305).
- MAX. SINGLE SECTION SIZE:** 60" W x 96" H (1524 x 2438). Larger sizes will be manufactured in sections with visible mullion side frame (downspouts are concealed) for field assembly.

OPTIONS:

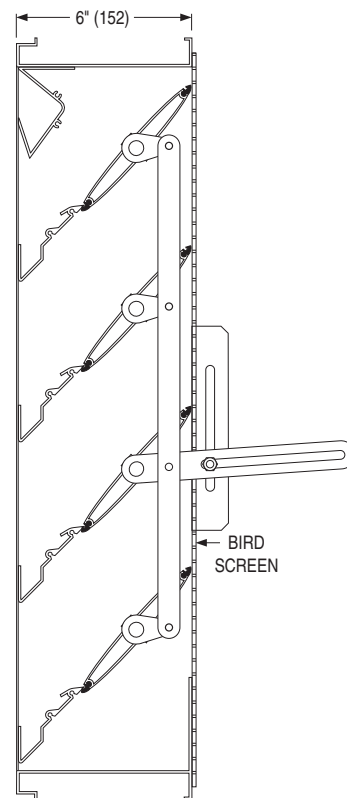
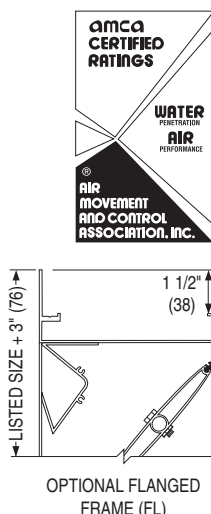
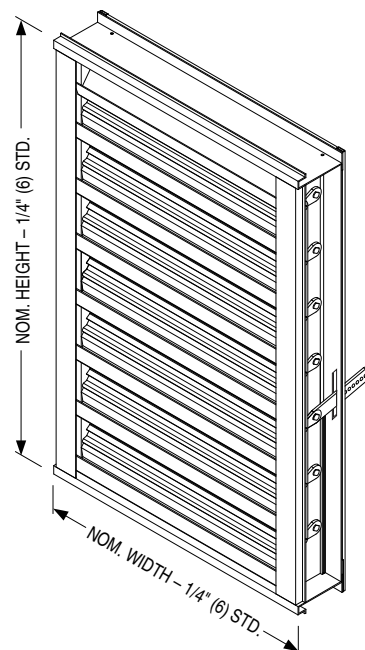
- | | |
|---|---|
| <input type="checkbox"/> FL Flanged Frame. | <input type="checkbox"/> FR1 1" (25) Filter Rack. |
| <input type="checkbox"/> BSSS Type 304 S.S. Bird Screen. | <input type="checkbox"/> FR2 2" (51) Filter Rack. |
| <input type="checkbox"/> BSN No Bird Screen. | <input type="checkbox"/> PAC Perimeter Anchor Clips. |
| <input type="checkbox"/> ISA Aluminum Insect Screen. | <input type="checkbox"/> ACT Electric or Pneumatic Actuator. |
| <input type="checkbox"/> ISSS Type 304 S.S. Insect Screen. | Specify: _____ |
| <input type="checkbox"/> WE Welded Construction. | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> ESI Extended Sill. | |

OPTIONAL FINISHES:

- ☐ **PC3** Powder Coat AAMA 2603. Color: _____.
- ☐ **PC4** High Performance Powder Coat AAMA 2604 (Equivalent to 50% Kynar®). Color: _____.
- ☐ **PC5** Fluoropolymer Powder Coat AAMA 2605 (Equivalent to 70% Kynar®). Color: _____.
- ☐ **PCC** Prime Coat.
- ☐ **AN04** Clear Anodized 204-R1.
- ☐ **AN15** Clear Anodized 215-R1.
- Color Anodized:
- | | |
|--|---|
| <input type="checkbox"/> ANLB Light Bronze. | <input type="checkbox"/> ANMB Medium Bronze. |
| <input type="checkbox"/> ANDB Dark Bronze. | <input type="checkbox"/> ANBK Black. |

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

- | | |
|--|---|
| <input type="checkbox"/> U00 Exact Size. | <input type="checkbox"/> U38 Undersize 3/8" (9.5). |
| <input type="checkbox"/> U50 Undersize 1/2" (12.7). | |



SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Page 1 of 2
Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
10 - 5 - 12	1600	2 - 2 - 11	1606CDAF

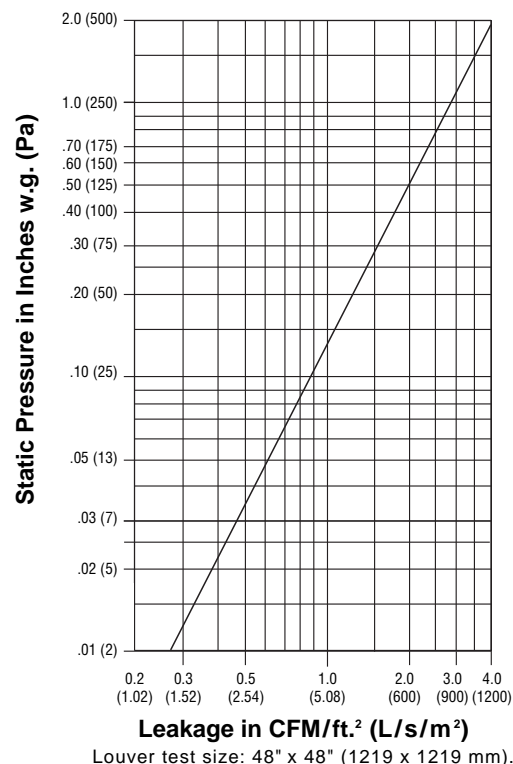


EXTRUDED ALUMINUM COMBINATION LOUVER/DAMPER **6" (152) DEEP • DRAINABLE BLADE** **OPERABLE AIRFOIL BLADE** **PERFORMANCE DATA** **MODEL: 1606CDAF**

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	12	0.27	0.44	0.61	0.78	0.95	1.12	1.28	1.45	1.62
	0.30	0.03	0.04	0.06	0.07	0.09	0.10	0.12	0.14	0.15
	18	0.48	0.78	1.09	1.39	1.69	1.99	2.29	2.59	2.90
	0.46	0.04	0.07	0.10	0.13	0.16	0.18	0.21	0.24	0.27
	24	0.69	1.13	1.56	2.00	2.43	2.87	3.30	3.73	4.17
	0.61	0.06	0.10	0.15	0.19	0.23	0.27	0.31	0.35	0.39
	30	0.95	1.54	2.13	2.72	3.31	3.91	4.50	5.09	5.68
	0.76	0.09	0.14	0.20	0.25	0.31	0.36	0.42	0.47	0.53
	36	1.19	1.93	2.68	3.42	4.17	4.91	5.66	6.40	7.15
	0.91	0.11	0.18	0.25	0.32	0.39	0.46	0.53	0.59	0.66
	42	1.33	2.16	2.99	3.83	4.66	5.49	6.32	7.16	7.99
	1.07	0.12	0.20	0.28	0.36	0.43	0.51	0.59	0.66	0.74
	48	1.58	2.56	3.55	4.53	5.52	6.50	7.33	8.47	9.46
	1.22	0.15	0.24	0.33	0.42	0.51	0.60	0.68	0.79	0.88
	54	1.79	2.91	4.02	5.14	6.26	7.38	8.50	9.62	10.73
	1.37	0.17	0.27	0.37	0.48	0.58	0.69	0.79	0.89	1.00
	60	2.03	3.30	4.58	5.85	7.12	8.39	9.66	10.93	12.21
	1.52	0.19	0.31	0.43	0.54	0.66	0.78	0.90	1.02	1.13
	66	2.28	3.70	5.13	6.55	7.98	9.40	10.83	12.25	13.68
	1.68	0.21	0.34	0.48	0.61	0.74	0.87	1.01	1.14	1.27
	72	2.52	4.10	5.68	7.26	8.84	10.42	11.99	13.57	15.15
	1.83	0.23	0.38	0.53	0.67	0.82	0.97	1.11	1.26	1.41
	78	2.60	4.23	5.86	7.49	9.11	10.74	12.37	14.00	15.63
	1.98	0.24	0.39	0.54	0.70	0.85	1.00	1.15	1.30	1.45
	84	2.81	4.57	6.33	8.10	9.86	11.62	13.38	15.14	16.90
	2.13	0.26	0.42	0.59	0.75	0.92	1.08	1.24	1.41	1.57
	90	3.03	4.92	6.81	8.70	10.60	12.49	14.38	16.28	18.17
	2.29	0.28	0.46	0.63	0.81	0.98	1.16	1.34	1.51	1.69
	96	3.45	5.61	7.77	9.92	12.08	14.24	16.40	18.56	20.72
	2.44	0.32	0.52	0.72	0.92	1.12	1.32	1.52	1.72	1.92

AIR LEAKAGE (Damper fully closed)



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

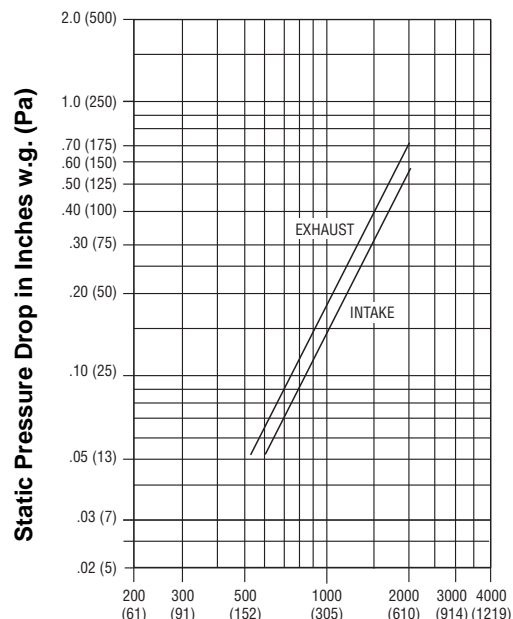
Free Area %		46%
Free Area sq. ft. (sq. m.)		7.34 (0.68)
I N T A K E	Free Area Velocity at Point of Beginning Water Penetration at .01 oz./sq. ft. (3 ml/sq. m) (15 min. test duration)	1144 fpm (349 m/min.)
	Air Volume at 1144 fpm	8397 cfm (3963 l/s)
	Free Area Velocity	
	Pressure Drop @ 1144 fpm	.19 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



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.

Page 2 of 2

Dimensions are in inches (mm).

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B SERIES

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10 - 5 - 12

1600

2 - 2 - 11

1606CDAF