

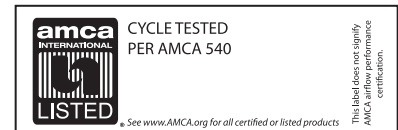
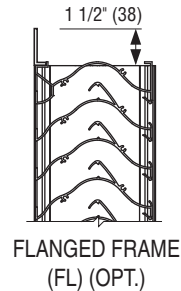
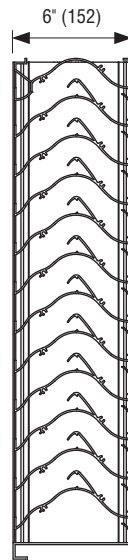
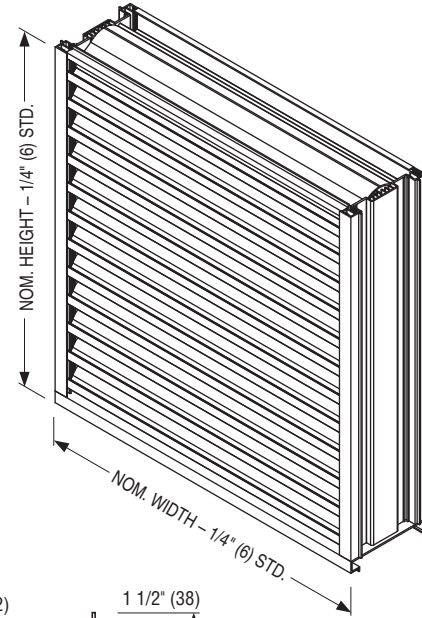
QUALIFICATIONS:

- Florida Product Approval.
- ETL Listed Product: 106225.
- Tested in accordance with: TAS-201 (Large Missile Impact Test), TAS-202 (Uniform Static Air Pressure Test), TAS-203 (Cyclic Wind Pressure Loading Test).
- AMCA 500-L (Wind-Driven Rain, Water Penetration, Airflow).
- AMCA 540 (Wind-Borne Debris Impact Test [Enhanced "Level E" Protection]).
- Wind load rating +/- 150 PSF (dependent on size & configuration).

STANDARD CONSTRUCTION:

- FRAME:** 6" (152) 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 30 degrees.
- BLADE SPACING:** Approximately 2 1/8" (54) on centers.
- BLADE SUPPORT:** Concealed type, factory installed on rear of louver. Size varies based on design pressure. Consult Nailor.
- SCREEN:** 5/8" x .050 (15.9 x 1.27) expanded, flattened aluminum bird screen in removable frame, inside (rear) mount (adds approx. 3/8" [10] to louver depth).
- FINISH:** Mill.
- MINIMUM SIZE:** 12" W x 12" H (305 x 305).
- MAX. SINGLE SECTION SIZE:** 108" W x 84" H (2743 x 2134) or 84" W x 120" H (2134 x 3048). 63 – 70 sq. ft. (5.9 – 6.5 m²). Larger louvers will require field assembly of smaller sections.

OVERALL MAXIMUM SIZE: Unlimited Width x 120" H (3048).



OPTIONS:

- ☐ **BSSS** Type 304 S.S. Bird Screen.
- ☐ **BSN** No Bird Screen.
- ☐ **ISA** Aluminum Insect Screen.
- ☐ **ISSS** Type 304 S.S. Insect Screen.
- ☐ **FL** Flanged Frame.
- ☐ **ESI** Extended Sill.
- ☐ **Other:** _____.

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.
- ☐ **ANLB** Light Bronze.
- ☐ **ANMB** Medium Bronze.
- ☐ **ANDB** Dark Bronze.
- ☐ **ANBK** Black.

For Installation Instructions, see IOM-LOUVERINSTFPA.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

DATE

B SERIES

SUPERSEDES

DRAWING NO.

1 - 30 - 18

1600F

NEW

1606WDF

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Dimensions are in inches (mm).

AIRFLOW/WATER PENETRATION DATA

for 48" x 48" (1219 x 1219) Louver Size

Free Area %	47%
Free Area sq. ft. (sq. m.)	7.52 (0.70)
Free Area Velocity at Point of Beginning Water Penetration at .01 oz./sq. ft. (3 ml/sq. m) (15 min. test duration)	1250 fpm (381 m/min.)
Air Volume at 1250 fpm	9,163 cfm (4324 l/s)
Free Area Velocity	
Pressure Drop @ 1000 fpm	.17 in. w.g. (42 Pa)

NOTE: To minimize water penetration when sizing intake louvers, select a Free Area Velocity that is **below** the point of beginning water penetration.* Maximum Free Area Velocity tested is 1250 fpm. Beginning point of water penetration for this model is above 1250 fpm.

WIND DRIVEN RAIN PERFORMANCE

Core Ventilation Rate in fpm (m/s)	0 (0.0)	98 (0.5)	197 (1.0)	295 (1.5)	394 (2.0)	492 (2.5)	591 (3.0)	688 (3.39)	763 (3.88)
Free Area Ventilation Rate in fpm (m/s)	0 (0.0)	209 (1.06)	419 (2.13)	628 (3.19)	838 (4.26)	1047 (5.32)	1257 (6.39)	1421 (7.22)	1623 (8.24)
Effectiveness Ratio (%)	100	99.6	99.2	98.7	98.4	98.4	98.3	97.8	97.3
Penetration Class	A	A	A	B	B	B	B	B	B

Test was based on a 39.375" x 39.375" (1.0 m x 1.0 m) core area louver tested at a rainfall rate of 3" per hour (76 mm/hour) with a wind velocity of **29 mph (13 m/s)**.

DISCHARGE LOSS COEFFICIENT CLASS (INTAKE): 2. (Discharge Loss Coefficient Classification is as follows: 1=0.4 and above, 2=0.3 to 0.399, 3 = 0.2 to 0.299, 4 = 0.199 and below.)

Core Ventilation Rate in fpm (m/s)	0 (0.0)	98 (0.5)	197 (1.0)	295 (1.5)	394 (2.0)	492 (2.5)	591 (3.0)	688 (3.39)	763 (3.88)
Free Area Ventilation Rate in fpm (m/s)	0 (0.0)	209 (1.06)	419 (2.13)	628 (3.19)	838 (4.26)	1047 (5.32)	1257 (6.39)	1421 (7.22)	1623 (8.24)
Effectiveness Ratio (%)	100	99.5	99.4	99.2	98.6	98.7	98.4	97.9	97.4
Penetration Class	A	A	A	A	B	B	B	B	B

Test was based on a 39.375" x 39.375" (1.0 m x 1.0 m) core area louver tested at a rainfall rate of 8" per hour (203 mm/hour) with a wind velocity of **50 mph (22 m/s)**.

DISCHARGE LOSS COEFFICIENT CLASS (INTAKE): 2. (Discharge Loss Coefficient Classification is as follows: 1=0.4 and above, 2=0.3 to 0.399, 3 = 0.2 to 0.299, 4 = 0.199 and below.)



CYCLE TESTED
PER AMCA 540

* See www.AMCA.org for all certified or listed products

This label does not signify AMCA airflow performance certification.



IMPACT
RESISTANT
LOUVER
Enhanced Protection Level E

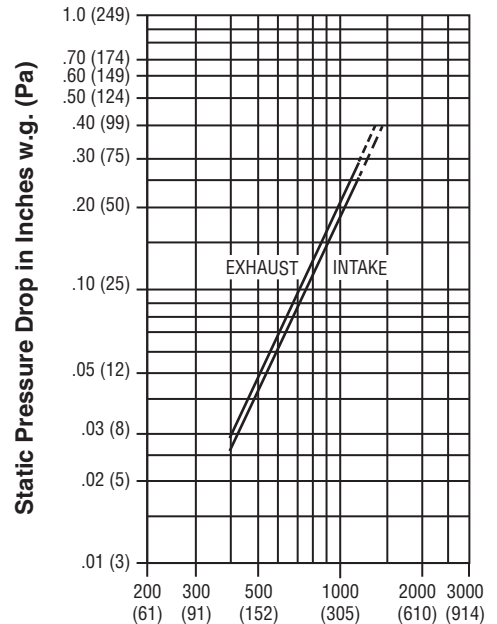
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Nailor Industries Inc. certifies the Model 1606WDF shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. Seal applies to air performance, water penetration and wind driven rain performance ratings.

PRESSURE DROP



SCHEDULE TYPE:

PROJECT:

ENGINEER:

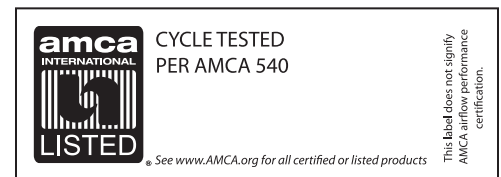
CONTRACTOR:

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Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
1 - 30 - 18	1600F	NEW	1606WDF

FREE AREA in Square Feet and Square Meters

		Width in Inches and Meters																
		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108
		0.30	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52	1.68	1.83	1.98	2.13	2.29	2.44	2.59	2.74
Height in Inches and Meters	12	0.28	0.45	0.62	0.79	0.97	1.14	1.31	1.48	1.65	1.82	1.99	2.16	2.34	2.51	2.68	2.85	3.02
	0.30	0.03	0.04	0.06	0.07	0.09	0.11	0.12	0.14	0.15	0.17	0.19	0.20	0.22	0.23	0.25	0.26	0.28
	18	0.56	0.90	1.25	1.59	1.93	2.27	2.62	2.96	3.30	3.64	3.99	4.33	4.67	5.01	5.36	5.70	6.04
	0.46	0.05	0.08	0.12	0.15	0.18	0.21	0.24	0.27	0.31	0.34	0.37	0.40	0.43	0.47	0.50	0.53	0.56
	24	0.77	1.24	1.71	2.18	2.65	3.13	3.60	4.07	4.54	5.01	5.48	5.95	6.42	6.89	7.37	7.84	8.31
	0.61	0.07	0.12	0.16	0.20	0.25	0.29	0.33	0.38	0.42	0.47	0.51	0.55	0.60	0.64	0.68	0.73	0.77
	30	0.98	1.58	2.18	2.78	3.38	3.98	4.58	5.18	5.78	6.38	6.98	7.58	8.18	8.78	9.37	9.97	10.57
	0.76	0.09	0.15	0.20	0.26	0.31	0.37	0.43	0.48	0.54	0.59	0.65	0.70	0.76	0.82	0.87	0.93	0.98
	36	1.19	1.92	2.65	3.37	4.10	4.83	5.56	6.29	7.01	7.74	8.47	9.20	9.93	10.66	11.38	12.11	12.84
	0.91	0.11	0.18	0.25	0.31	0.38	0.45	0.52	0.58	0.65	0.72	0.79	0.85	0.92	0.99	1.06	1.13	1.19
	42	1.40	2.26	3.11	3.97	4.83	5.68	6.54	7.40	8.25	9.11	9.97	10.82	11.68	12.54	13.39	14.25	15.11
	1.07	0.13	0.21	0.29	0.37	0.45	0.53	0.61	0.69	0.77	0.85	0.93	1.01	1.08	1.16	1.24	1.32	1.40
	48	1.61	2.59	3.58	4.56	5.55	6.53	7.52	8.51	9.49	10.48	11.46	12.45	13.43	14.42	15.40	16.39	17.37
	1.22	0.15	0.24	0.33	0.42	0.52	0.61	0.70	0.79	0.88	0.97	1.06	1.16	1.25	1.34	1.43	1.52	1.61
	54	1.89	3.05	4.20	5.36	6.51	7.67	8.83	9.98	11.14	12.30	13.45	14.61	15.77	16.92	18.08	19.24	20.39
	1.37	0.18	0.28	0.39	0.50	0.61	0.71	0.82	0.93	1.03	1.14	1.25	1.36	1.46	1.57	1.68	1.79	1.89
	60	2.10	3.38	4.67	5.95	7.24	8.52	9.81	11.09	12.38	13.66	14.95	16.23	17.52	18.80	20.09	21.37	22.66
	1.52	0.19	0.31	0.43	0.55	0.67	0.79	0.91	1.03	1.15	1.27	1.39	1.51	1.63	1.75	1.87	1.99	2.11
	66	2.31	3.72	5.14	6.55	7.96	9.38	10.79	12.20	13.62	15.03	16.44	17.86	19.27	20.68	22.10	23.51	24.92
	1.68	0.21	0.35	0.48	0.61	0.74	0.87	1.00	1.13	1.26	1.40	1.53	1.66	1.79	1.92	2.05	2.18	2.32
	72	2.59	4.17	5.76	7.34	8.93	10.51	12.10	13.68	15.27	16.85	18.44	20.02	21.61	23.19	24.78	26.36	27.95
	1.83	0.24	0.39	0.53	0.68	0.83	0.98	1.12	1.27	1.42	1.57	1.71	1.86	2.01	2.15	2.30	2.45	2.60
	78	2.80	4.51	6.23	7.94	9.65	11.37	13.08	14.79	16.51	18.22	19.93	21.65	23.36	25.07	26.79	28.50	30.21
	1.98	0.26	0.42	0.58	0.74	0.90	1.06	1.21	1.37	1.53	1.69	1.85	2.01	2.17	2.33	2.49	2.65	2.81
	84	3.01	4.85	6.69	8.53	10.38	12.22	14.06	15.90	17.74	19.58	21.43	23.27	25.11	26.95	28.79	30.64	32.48
	2.13	0.28	0.45	0.62	0.79	0.96	1.14	1.31	1.48	1.65	1.82	1.99	2.16	2.33	2.50	2.67	2.85	3.02
	90	3.22	5.19	7.16	9.13	11.10	13.07	15.04	17.01	18.98	20.95	22.92	24.89	26.86				
	2.29	0.30	0.48	0.67	0.85	1.03	1.21	1.40	1.58	1.76	1.95	2.13	2.31	2.50				
	96	3.43	5.53	7.63	9.72	11.82	13.92	16.02	18.12	20.22	22.32	24.42	26.52	28.61				
	2.44	0.32	0.51	0.71	0.90	1.10	1.29	1.49	1.68	1.88	2.07	2.27	2.46	2.66				
	102	3.71	5.98	8.25	10.52	12.79	15.06	17.33	19.60	21.87	24.14	26.41	28.68	30.95				
	2.59	0.34	0.56	0.77	0.98	1.19	1.40	1.61	1.82	2.03	2.24	2.45	2.66	2.88				
	108	3.92	6.32	8.72	11.11	13.51	15.91	18.31	20.71	23.11	25.51	27.90	30.30	32.70				
	2.74	0.36	0.59	0.81	1.03	1.26	1.48	1.70	1.92	2.15	2.37	2.59	2.82	3.04				
	114	4.13	6.65	9.18	11.71	14.24	16.76	19.29	21.82	24.35	26.87	29.40	31.93	34.45				
	2.90	0.38	0.62	0.85	1.09	1.32	1.56	1.79	2.03	2.26	2.50	2.73	2.97	3.20				
	120	4.34	6.99	9.65	12.30	14.96	17.62	20.27	22.93	25.58	28.24	30.89	33.55	36.21				
	3.05	0.40	0.65	0.90	1.14	1.39	1.64	1.88	2.13	2.38	2.62	2.87	3.12	3.36				


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