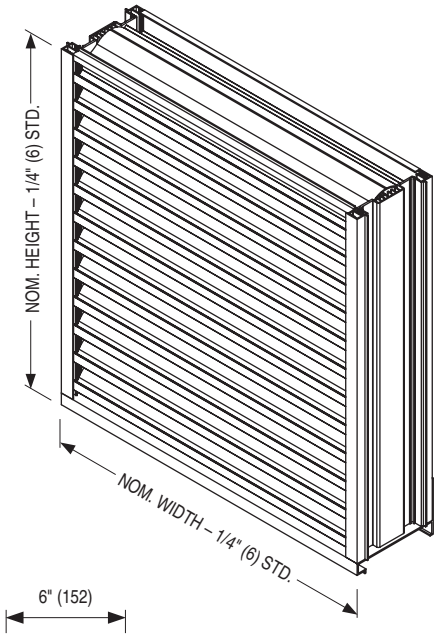
Nailor® Industries Inc.

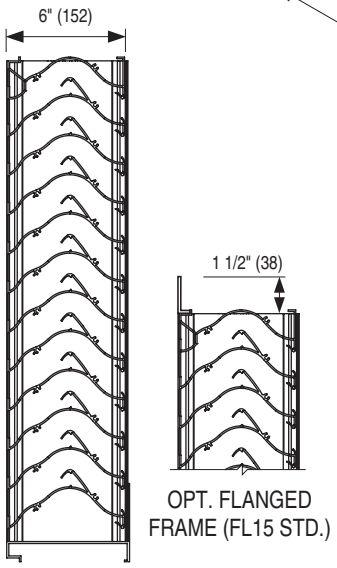
EXTRUDED ALUMINUM STATIONARY LOUVER
FLORIDA PRODUCT APPROVED
WIND-DRIVEN RAIN RESISTANT
6" (152) DEEP • HORIZONTAL BLADE
MODEL: 1606WDF

Intertek

QUALIFICATIONS:

- **Florida Product Approval No. : 19273.5**
- **Intertek Listed Building Product: Exterior Louvers.**
- **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 +/– 50 PSF (standard) (up to +/– 150 PSF dependent on size & configuration).**





OPT. FLANGED FRAME (FL15 STD.)

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:	1.94" (49) 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 m^2). 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.
- ❑ FL15 Flanged Frame, 1 1/2" (38).
- ❑ FL20 Flanged Frame, 2" (51).
- ❑ ESI Extended Sill.
- ❑ PASI Sill Pan.
- ❑ 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:	Page 1 of 3 Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**10 - 23 - 26**	**1600F**	**9 - 15 - 26**	**1606WDF**

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EXTRUDED ALUMINUM STATIONARY LOUVER
FLORIDA PRODUCT APPROVED
WIND-DRIVEN RAIN RESISTANT • 6" (152) DEEP
HORIZONTAL BLADE • PERFORMANCE DATA
MODEL: 1606WDF

Intertek

FREE AREA in Square Feet and Square Meters

Height in Inches and 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
12 0.30	0.28 0.03	0.46 0.04	0.63 0.06	0.80 0.07	0.97 0.09	1.15 0.11	1.32 0.12	1.49 0.14	1.67 0.15	1.84 0.17	2.01 0.19	2.18 0.20	2.36 0.22	2.53 0.23	2.70 0.25	2.87 0.27	3.05 0.28	3.22 0.30	3.39 0.32
18 0.46	0.49 0.05	0.79 0.07	1.09 0.10	1.39 0.13	1.68 0.16	1.98 0.18	2.28 0.21	2.58 0.24	2.88 0.27	3.18 0.30	3.47 0.32	3.77 0.35	4.07 0.38	4.37 0.41	4.67 0.43	4.97 0.46	5.27 0.49	5.56 0.52	5.86 0.54
24 0.61	0.70 0.06	1.12 0.10	1.55 0.14	1.97 0.18	2.39 0.22	2.82 0.26	3.24 0.30	3.67 0.34	4.09 0.38	4.52 0.42	4.94 0.46	5.36 0.50	5.79 0.54	6.21 0.58	6.64 0.62	7.06 0.66	7.48 0.70	7.91 0.73	8.33 0.77
30 0.76	0.91 0.08	1.45 0.14	2.00 0.19	2.55 0.24	3.10 0.29	3.65 0.34	4.20 0.39	4.75 0.44	5.30 0.49	5.85 0.54	6.40 0.59	6.95 0.65	7.50 0.70	8.05 0.75	8.60 0.80	9.15 0.85	9.70 0.90	10.25 0.95	10.80 1.00
36 0.36	1.11 0.10	1.79 0.17	2.46 0.23	3.14 0.29	3.81 0.35	4.49 0.42	5.17 0.48	5.84 0.54	6.52 0.61	7.19 0.67	7.87 0.73	8.54 0.79	9.22 0.86	9.90 0.92	10.57 0.98	11.25 1.04	11.92 1.11	12.60 1.17	13.27 1.23
42 1.07	1.32 0.12	2.12 0.20	2.92 0.27	3.72 0.35	4.52 0.42	5.33 0.49	6.13 0.57	6.93 0.64	7.73 0.72	8.53 0.79	9.33 0.87	10.13 0.94	10.94 1.02	11.74 1.09	12.54 1.16	13.34 1.24	14.14 1.31	14.94 1.39	15.74 1.46
48 1.22	1.59 0.15	2.56 0.24	3.53 0.33	4.50 0.42	5.47 0.51	6.44 0.60	7.41 0.69	8.38 0.78	9.35 0.87	10.32 0.96	11.29 1.05	12.25 1.14	13.22 1.23	14.19 1.32	15.16 1.41	16.13 1.50	17.10 1.59	18.07 1.68	19.04 1.77
54 1.37	1.80 0.17	2.90 0.27	3.99 0.37	5.09 0.47	6.18 0.57	7.28 0.68	8.37 0.78	9.47 0.88	10.56 0.98	11.65 1.08	12.75 1.18	13.84 1.29	14.94 1.39	16.03 1.49	17.13 1.59	18.22 1.69	19.32 1.79	20.41 1.90	21.51 2.00
60 1.52	2.01 0.19	3.23 0.30	4.45 0.41	5.67 0.53	6.89 0.64	8.11 0.75	9.33 0.87	10.55 0.98	11.77 1.09	12.99 1.21	14.21 1.32	15.43 1.43	16.66 1.55	17.88 1.66	19.10 1.77	20.32 1.89	21.54 2.00	22.76 2.11	23.98 2.23
66 1.68	2.22 0.21	3.56 0.33	4.91 0.46	6.25 0.58	7.60 0.71	8.95 0.83	10.29 0.96	11.64 1.08	12.99 1.21	14.33 1.33	15.68 1.46	17.02 1.58	18.37 1.71	19.72 1.83	21.06 1.96	22.41 2.08	23.76 2.21	25.10 2.33	26.45 2.46
72 1.83	2.42 0.23	3.89 0.36	5.37 0.50	6.84 0.64	8.31 0.77	9.78 0.91	11.25 1.05	12.73 1.18	14.20 1.32	15.67 1.46	17.14 1.59	18.62 1.73	20.09 1.87	21.56 2.00	23.03 2.14	24.50 2.28	25.98 2.41	27.45 2.55	28.92 2.69
78 1.98	2.63 0.24	4.23 0.39	5.83 0.54	7.42 0.69	9.02 0.84	10.62 0.99	12.22 1.13	13.81 1.28	15.41 1.43	17.01 1.58	18.61 1.73	20.21 1.88	21.80 2.03	23.40 2.17	25.00 2.32	26.60 2.47	28.19 2.62	29.79 2.77	31.39 2.92
84 2.13	2.84 0.26	4.56 0.42	6.28 0.58	8.01 0.74	9.73 0.90	11.45 1.06	13.18 1.22	14.90 1.38	16.62 1.54	18.35 1.70	20.07 1.86	21.80 2.02	23.52 2.18	25.24 2.35	26.97 2.51	28.69 2.67	30.41 2.83	32.14 2.99	33.86 3.15
90 2.29	3.04 0.28	4.89 0.45	6.74 0.63	8.59 0.80	10.44 0.97	12.29 1.14	14.14 1.31	15.99 1.49	17.84 1.66	19.69 1.83	21.54 2.00	23.39 2.17	25.24 2.34						
96 2.44	3.25 0.30	5.23 0.49	7.20 0.67	9.18 0.85	11.15 1.04	13.13 1.22	15.10 1.40	17.08 1.59	19.05 1.77	21.03 1.95	23.00 2.14	24.98 2.32	26.95 2.50						
102 2.59	3.46 0.32	5.56 0.52	7.66 0.71	9.76 0.91	11.86 1.10	13.96 1.30	16.06 1.49	18.16 1.69	20.26 1.88	22.36 2.08	24.47 2.27	26.57 2.47	28.67 2.66						
108 2.74	3.66 0.34	5.89 0.55	8.12 0.75	10.34 0.96	12.57 1.17	14.80 1.37	17.02 1.58	19.25 1.79	21.48 2.00	23.70 2.20	25.93 2.41	28.16 2.62	30.38 2.82						
114 2.90	3.87 0.36	6.22 0.58	8.58 0.80	10.93 1.02	13.28 1.23	15.63 1.45	17.99 1.67	20.34 1.89	22.69 2.11	25.04 2.33	27.39 2.54	29.75 2.76	32.10 2.98						
120 3.05	4.15 0.39	6.67 0.62	9.19 0.85	11.71 1.09	14.23 1.32	16.75 1.56	19.27 1.79	21.79 2.02	24.31 2.26	26.83 2.49	29.35 2.73	31.87 2.96	34.39 3.19						

SCHEDULE TYPE:	Page 2 of 3 Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**10 - 23 - 26**	**1600F**	**9 - 15 - 26**	**1606WDF**

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EXTRUDED ALUMINUM STATIONARY LOUVER
FLORIDA PRODUCT APPROVED
WIND-DRIVEN RAIN RESISTANT • 6" (152) DEEP
HORIZONTAL BLADE • PERFORMANCE DATA
MODEL: 1606WDF

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

	Free Area %	46%
	Free Area sq. ft. (sq. m.)	7.41 (0.69)
INTAKE	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 Free Area Velocity	9,263 cfm (4372 l/s)
	Pressure Drop @ 1000 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 beginning point of 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

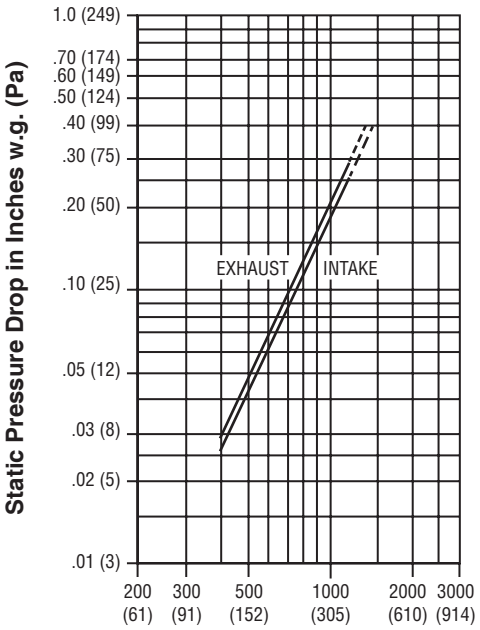
Core Ventilation Rate in fpm (m/s)	0 (0.0)	98 (0.5)	197 (1.0)	295 (1.5)	394 (2.0)	492 (2.5)	591 (3.0)	668 (3.39)	763 (3.88)
Free Area Ventilation Rate in fpm (m/s)	0 (0.0)	209 (1.06)	419 (2.13)	628 (3.19)	838 (4.26)	1047 (5.32)	1257 (6.39)	1421 (7.22)	1623 (8.24)
EffectivenessRatio(%)	100	99.6	99.2	98.7	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)	668 (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)
EffectivenessRatio(%)	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.)

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.

amca WORLDWIDE CERTIFIED RATINGS — WATER PENETRATION, AIR PERFORMANCE, WIND DRIVEN RAIN — AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC.® — amca INTERNATIONAL www.amca.org

Nailor Industries Inc. certifies that the Model 1606WDF shown herein is licensed to bear the AMCA Certified Ratings Program 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. The AMCA Certified Ratings Program seal applies to air performance, water penetration and wind driven rain performance ratings.

Louvers were tested in accordance with AMCA Standard 500-L.

amca INTERNATIONAL LISTED — 540 IMPACT RESISTANT LOUVER *Enhanced Protection Level E* — *See www.AMCA.org for all certified or listed products* — This label does not signify AMCA airflow performance certification.

Nailor Industries Inc. certifies that the 1606WDF shown herein is approved to bear the AMCA International Listing Label. The ratings shown are based on tests and procedures performed in accordance with AMCA publications and comply with the requirements of the AMCA International Listing Label program. The AMCA International Listing Label applies to pressure cycle tested wind-borne debris impact resistant louvers rated for "Enhanced Protection" and +/- 50PSF with a minimum blade span of less than 12 in. (305mm) and a maximum unsupported blade span of 52 in. (1321 mm).

SCHEDULE TYPE:	Page 3 of 3 Dimensions are in inches (mm).			
PROJECT:				
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