



EXTRUDED ALUMINUM STATIONARY LOUVER
FLORIDA PRODUCT APPROVED
 4" (102) DEEP • HIGH PERFORMANCE
 DRAINABLE BLADE
 MODEL: 1604DHPF



QUALIFICATIONS:

- Florida Product Approval.
- ETL Listed Product: 106225.
- Tested in accordance with: **TAS-202 (Uniform Static Air Pressure Test).**
- **AMCA 500-L (Water Penetration, Airflow).**
- **AMCA 540 (Wind-Borne Debris Impact Test [Basic "Level D" Protection]).**
- Wind load rating up to +/- 150 PSF (dependent on size and configuration).

STANDARD CONSTRUCTION:

- FRAME:** 4" (102) deep, Type 6063-T6 extruded aluminum, .120" (3.05) nominal wall thickness. Integral downspouts and caulking slot provided.
- BLADES:** Type 6063-T6 extruded aluminum, .095" (2.41) nominal wall thickness, with reinforcing bosses.
- BLADE ANGLE:** Fixed at 37.5 degrees.
- BLADE SPACING:** Approximately 3" (76) on centers.
- BLADE SUPPORT:** Concealed type, factory installed on rear of louver. Reinforced with 2" x 2" (51 x 51) angle (adds approx. 2" [51] to overall louver depth).
- SCREEN:** 5/8" x .050 (16 x 1.27) 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).
- MAX. SINGLE SECTION SIZE:** 108" W x 84" H (2743 x 2134) or 84" W x 120" H (2134 x 3048). Larger louvers will require field assembly of smaller sections.

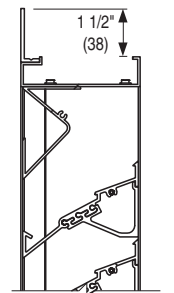
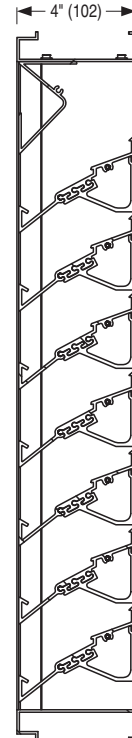
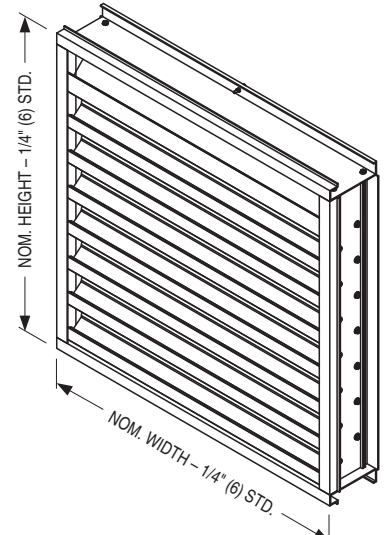
OPTIONS:

- | | |
|---|--|
| <input type="checkbox"/> BSSS Type 304 S.S. Bird Screen. | <input type="checkbox"/> FL Flanged Frame. |
| <input type="checkbox"/> BSN No Bird Screen. | <input type="checkbox"/> ESI Extended Sill. |
| <input type="checkbox"/> ISA Aluminum Insect Screen. | <input type="checkbox"/> Other: _____. |
| <input type="checkbox"/> ISSS Type 304 S.S. Insect Screen. | |

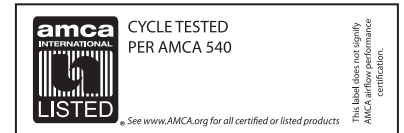
OPTIONAL FINISHES:

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

For Installation Instructions, see IOM-LOUVERINSTFPA.



FLANGED FRAME (FL)
(OPTIONAL)



SCHEDULE TYPE:
PROJECT:
ENGINEER:
CONTRACTOR:

DATE	B SERIES	SUPERSEDES	DRAWING NO.
1 - 30 - 18	1600F	1 - 10 - 17	1604DHPF



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

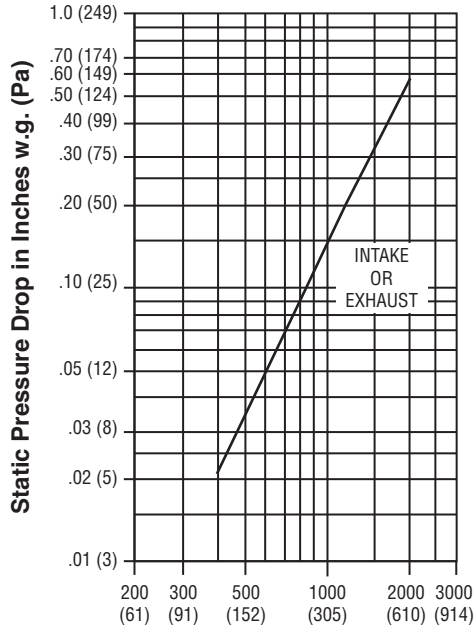
Free Area %		57%
Free Area sq. ft. (sq. m.)		9.11 (0.85)
I N T A K E	Free Area Velocity at Point of Beginning Water Penetration at .01 oz./sq. ft. (3 ml/sq. m) (15 min. test duration)	954 fpm (291 m/min.)
	Air Volume at 954 fpm	8,691 cfm (4101 l/s)
	Free Area Velocity	
	Pressure Drop @ 1000 fpm	.15 in. w.g. (35 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 1604DHPF 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.

CYCLE TESTED
PER AMCA 540

This label does not signify AMCA airflow performance certification.

IMPACT RESISTANT LOUVER
Basic Protection Level D

This label does not signify AMCA airflow performance certification.

Nailor Industries Inc. certifies the 1604DHPF louvers shown herein are approved to bear the AMCA 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 Listing Label Program. The AMCA Listing Label applies to Wind Borne Debris Impact Resistant Louvers.

SCHEDULE TYPE:	Page 2 of 3 Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.
CONTRACTOR:	1 - 30 - 18	1600F	1 - 10 - 17	1604DHPF

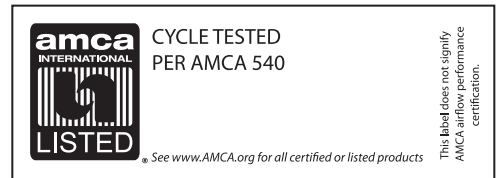


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FREE AREA in Square Feet and Square Meters

		Width in Inches and Meters																	
		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	
Height in Inches and Meters	12	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	
	0.30	0.32	0.52	0.71	0.91	1.11	1.31	1.51	1.71	1.86	2.06	2.26	2.46	2.65	2.85	3.05	3.25	3.45	
	18	0.46	0.59	0.96	1.33	1.70	2.06	2.43	2.80	3.17	3.45	3.82	4.19	4.56	4.93	5.30	5.67	6.03	6.40
	0.46	0.05	0.09	0.12	0.16	0.19	0.23	0.26	0.29	0.32	0.35	0.39	0.42	0.46	0.49	0.53	0.56	0.59	
	24	0.61	0.86	1.40	1.94	2.48	3.02	3.56	4.10	4.64	5.04	5.58	6.12	6.66	7.20	7.74	8.28	8.82	9.36
	0.61	0.08	0.13	0.18	0.23	0.28	0.33	0.38	0.43	0.47	0.52	0.57	0.62	0.67	0.72	0.77	0.82	0.87	
	30	0.76	1.40	2.28	3.16	4.04	4.92	5.80	6.68	7.56	8.22	9.10	9.98	10.86	11.74	12.62	13.51	14.39	15.27
	0.76	0.13	0.21	0.29	0.38	0.46	0.54	0.62	0.70	0.76	0.85	0.93	1.01	1.09	1.17	1.25	1.34	1.42	
	36	0.36	1.94	3.16	4.39	5.61	6.83	8.05	9.27	10.49	11.41	12.63	13.85	15.07	16.29	17.51	18.73	19.95	21.17
	0.36	0.18	0.29	0.41	0.52	0.63	0.75	0.86	0.97	1.06	1.17	1.29	1.40	1.51	1.63	1.74	1.85	1.97	
	42	1.07	1.67	2.72	3.77	4.82	5.87	6.93	7.98	9.03	9.81	10.87	11.92	12.97	14.02	15.07	16.12	17.17	18.22
	1.07	0.16	0.25	0.35	0.45	0.55	0.64	0.74	0.84	0.91	1.01	1.11	1.20	1.30	1.40	1.50	1.59	1.69	
	48	1.22	1.94	3.16	4.39	5.61	6.83	8.05	9.11	10.49	11.41	12.63	13.85	15.07	16.29	17.51	18.73	19.95	21.17
	1.22	0.18	0.29	0.41	0.52	0.63	0.75	0.85	0.97	1.06	1.17	1.29	1.40	1.51	1.63	1.74	1.85	1.97	
	54	1.37	2.21	3.61	5.00	6.39	7.78	9.17	10.56	11.95	13.00	14.39	15.78	17.17	18.56	19.95	21.34	22.74	24.13
	1.37	0.21	0.33	0.46	0.59	0.72	0.85	0.98	1.11	1.21	1.34	1.47	1.60	1.72	1.85	1.98	2.11	2.24	
	60	1.52	2.49	4.05	5.61	7.17	8.73	10.29	11.86	13.42	14.59	16.15	17.71	19.27	20.83	22.40	23.96	25.52	27.08
	1.52	0.23	0.38	0.52	0.67	0.81	0.96	1.10	1.25	1.36	1.50	1.65	1.79	1.94	2.08	2.23	2.37	2.52	
	66	1.68	2.76	4.49	6.22	7.95	9.68	11.42	13.15	14.88	16.18	17.91	19.64	21.38	23.11	24.84	26.57	28.30	30.04
	1.68	0.26	0.42	0.58	0.74	0.90	1.06	1.22	1.38	1.50	1.66	1.82	1.99	2.15	2.31	2.47	2.63	2.79	
72	1.83	3.03	4.93	6.83	8.73	10.64	12.54	14.44	16.34	17.77	19.67	21.58	23.48	25.38	27.28	29.18	31.09	32.99	
1.83	0.28	0.46	0.63	0.81	0.99	1.16	1.34	1.52	1.65	1.83	2.00	2.18	2.36	2.53	2.71	2.89	3.06		
78	1.98	3.30	5.37	7.44	9.52	11.59	13.66	15.73	17.81	19.36	21.43	23.51	25.58	27.65	29.72	31.80	33.87	35.94	
1.98	0.31	0.50	0.69	0.88	1.08	1.27	1.46	1.65	1.80	1.99	2.18	2.38	2.57	2.76	2.95	3.15	3.34		
84	2.13	3.57	5.81	8.06	10.30	12.54	14.78	17.03	19.27	20.95	23.20	25.44	27.68	29.92	32.17	34.41	36.65	38.90	
2.13	0.33	0.54	0.75	0.96	1.17	1.37	1.58	1.79	1.95	2.15	2.36	2.57	2.78	2.99					
90	2.29	3.84	6.25	8.67	11.08	13.49	15.91	18.32	20.73	22.54	24.96	27.37	29.78	32.20					
2.29	0.36	0.58	0.81	1.03	1.25	1.48	1.70	1.93	2.09	2.32	2.54	2.77	2.99						
96	2.44	4.11	6.70	9.28	11.86	14.45	17.03	19.61	22.20	24.14	26.72	29.30	31.89	34.47					
2.44	0.38	0.62	0.86	1.10	1.34	1.58	1.82	2.06	2.24	2.48	2.72	2.96	3.20						
102	2.59	4.38	7.14	9.89	12.65	15.40	18.15	20.91	23.66	25.73	28.48	31.23	33.99	36.74					
2.59	0.41	0.66	0.92	1.17	1.43	1.69	1.94	2.20	2.39	2.65	2.90	3.16	3.41						
108	2.74	4.65	7.58	10.50	13.43	16.35	19.28	22.20	25.12	27.32	30.24	33.17	36.09	39.01					
2.74	0.43	0.70	0.98	1.25	1.52	1.79	2.06	2.33	2.54	2.81	3.08	3.35	3.62						
114	2.90	4.93	8.02	11.11	14.21	17.30	20.40	23.49	26.59	28.91	32.00	35.10	38.19	41.29					
2.90	0.46	0.75	1.03	1.32	1.61	1.90	2.18	2.47	2.69	2.97	3.26	3.55	3.84						
120	3.05	5.20	8.46	11.73	14.99	18.26	21.52	24.79	28.05	30.50	33.77	37.03	40.30	43.56					
3.05	0.48	0.79	1.09	1.39	1.70	2.00	2.30	2.61	2.83	3.14	3.44	3.74	4.05						



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