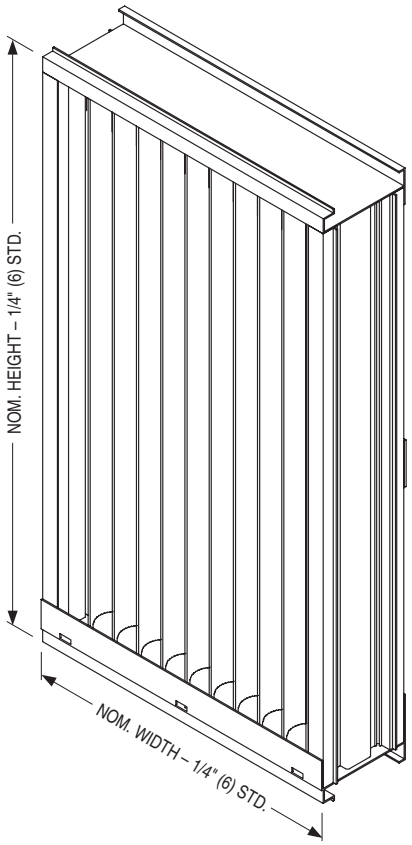
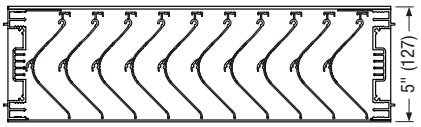
Nailor® Industries Inc.

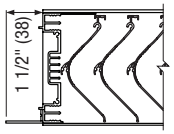
EXTRUDED ALUMINUM STATIONARY LOUVER
MIAMI-DADE QUALIFIED • FLORIDA PRODUCT APPROVED
HIGH VELOCITY WIND-DRIVEN RAIN RESISTANT
5" (127) DEEP • VERTICAL BLADE
MODEL: 1605WDVM

QUALIFICATIONS:

- **Miami-Dade County NOA No. : 24-0516.06**
- **Florida Product Approval No. : 41441.2**
- **Texas Department of Insurance Evaluation ID : LVR-29**
- **Tested in accordance with: TAS-100A (Wind-Driven Rain Test), 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, Air Performance).**
- **AMCA 540 (Wind-Borne Debris Impact Test [Enhanced "Level E" Protection]).**
- **AMCA 550 (High Velocity Wind-Driven Rain Resistance Test).**
- **Wind load rating +/– 130 PSF.**







OPT. FLANGED FRAME
(FL15 STD.)

STANDARD CONSTRUCTION:

FRAME: 5" (127) deep, Type 6063-T6 extruded aluminum, .080" (2.03) nominal wall thickness. Integral downspouts and caulking slot provided.

BLADES: Type 6063-T6 extruded aluminum, .060" (1.52) nominal wall thickness, with reinforcing bosses.

BLADE ANGLE: Fixed at 45 degrees.

BLADE SPACING: Approximately 1 1/2" (38) on centers.

BLADE SUPPORT: 2.5" (64) strap every 60" (1524) or less in height.

SCREEN: 3/4" x .050 (19 x 1.3) 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: 72" W x 120" H (1829 x 3048) or 120" W x 72" H (3048 x 1829). 60 sq. ft. (5.6 m^2). Larger louvers will require field assembly of smaller sections.

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

OPTIONS:

- ❑ **FL15** Flanged Frame, 1 1/2" (38).
- ❑ **FL20** Flanged Frame, 2" (51).
- ❑ **BSSS** Type 304 S.S. Bird Screen.
- ❑ **BSN** No Bird Screen.
- ❑ **ISA** Aluminum Insect Screen.
- ❑ **ISSS** Type 304 S.S. Insect Screen.
- ❑ **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 approved NOA.

SCHEDULE TYPE:	Page 1 of 3 Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**3 - 27 - 26**	**1600M**	**1 - 30 - 24**	**1605WDVM**

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MIAMI-DADE QUALIFIED • FLORIDA PRODUCT APPROVED
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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	**0.51** 0.05	**0.74** 0.07	**0.96** 0.09	**1.19** 0.11	**1.42** 0.13	**1.65** 0.15	**1.87** 0.17	**2.10** 0.20	**2.33** 0.22	**2.55** 0.24	**2.78** 0.26	**3.01** 0.28	**3.24** 0.30	**3.46** 0.32	**3.69** 0.34	**3.92** 0.36	**4.14** 0.38	**4.37** 0.41
18 0.46	**0.49** 0.05	**0.89** 0.08	**1.28** 0.12	**1.68** 0.16	**2.07** 0.19	**2.47** 0.23	**2.86** 0.27	**3.26** 0.30	**3.65** 0.34	**4.05** 0.38	**4.44** 0.41	**4.83** 0.45	**5.23** 0.49	**5.62** 0.52	**6.02** 0.56	**6.41** 0.60	**6.81** 0.63	**7.20** 0.67	**7.60** 0.71
24 0.61	**0.63** 0.06	**1.14** 0.11	**1.65** 0.15	**2.15** 0.20	**2.66** 0.25	**3.17** 0.29	**3.67** 0.34	**4.18** 0.39	**4.69** 0.44	**5.19** 0.48	**5.70** 0.53	**6.20** 0.58	**6.71** 0.62	**7.22** 0.67	**7.72** 0.72	**8.23** 0.76	**8.74** 0.81	**9.24** 0.86	**9.75** 0.91
30 0.76	**0.84** 0.08	**1.52** 0.14	**2.19** 0.20	**2.87** 0.27	**3.54** 0.33	**4.21** 0.39	**4.89** 0.45	**5.56** 0.52	**6.24** 0.58	**6.91** 0.64	**7.58** 0.70	**8.26** 0.77	**8.93** 0.83	**9.61** 0.89	**10.28** 0.96	**10.96** 1.02	**11.63** 1.08	**12.30** 1.14	**12.98** 1.21
36 0.36	**1.05** 0.10	**1.89** 0.18	**2.74** 0.25	**3.58** 0.33	**4.42** 0.41	**5.26** 0.49	**6.10** 0.57	**6.95** 0.65	**7.79** 0.72	**8.63** 0.80	**9.47** 0.88	**10.31** 0.96	**11.15** 1.04	**12.00** 1.11	**12.84** 1.19	**13.68** 1.27	**14.52** 1.35	**15.36** 1.43	**16.21** 1.51
42 1.07	**1.26** 0.12	**2.27** 0.21	**3.28** 0.30	**4.29** 0.40	**5.30** 0.49	**6.31** 0.59	**7.32** 0.68	**8.33** 0.77	**9.34** 0.87	**10.35** 0.96	**11.36** 1.06	**12.37** 1.15	**13.38** 1.24	**14.39** 1.34	**15.39** 1.43	**16.40** 1.52	**17.41** 1.62	**18.42** 1.71	**19.43** 1.81
48 1.22	**1.47** 0.14	**2.65** 0.25	**3.83** 0.36	**5.00** 0.46	**6.18** 0.57	**7.36** 0.68	**8.53** 0.79	**9.71** 0.90	**10.89** 1.01	**12.07** 1.12	**13.24** 1.23	**14.42** 1.34	**15.60** 1.45	**16.77** 1.56	**17.95** 1.67	**19.13** 1.78	**20.31** 1.89	**21.48** 2.00	**22.66** 2.11
54 1.37	**1.68** 0.16	**3.03** 0.28	**4.37** 0.41	**5.72** 0.53	**7.06** 0.66	**8.41** 0.78	**9.75** 0.91	**11.09** 1.03	**12.44** 1.16	**13.78** 1.28	**15.13** 1.41	**16.47** 1.53	**17.82** 1.66	**19.16** 1.78	**20.51** 1.91	**21.85** 2.03	**23.20** 2.16	**24.54** 2.28	**25.89** 2.40
60 1.52	**1.89** 0.18	**3.40** 0.32	**4.92** 0.46	**6.43** 0.60	**7.94** 0.74	**9.45** 0.88	**10.97** 1.02	**12.48** 1.16	**13.99** 1.30	**15.50** 1.44	**17.02** 1.58	**18.53** 1.72	**20.04** 1.86	**21.55** 2.00	**23.07** 2.14	**24.58** 2.28	**26.09** 2.42	**27.60** 2.56	**29.12** 2.70
66 1.68	**2.10** 0.20	**3.78** 0.35	**5.46** 0.51	**7.14** 0.66	**8.82** 0.82	**10.50** 0.98	**12.18** 1.13	**13.86** 1.29	**15.54** 1.44	**17.22** 1.60	**18.90** 1.76	**20.58** 1.91	**22.26** 2.07	**23.94** 2.22	**25.62** 2.38	**27.30** 2.54	**28.98** 2.69	**30.66** 2.85	**32.34** 3.00
72 1.83	**2.31** 0.21	**4.16** 0.39	**6.01** 0.56	**7.85** 0.73	**9.70** 0.90	**11.55** 1.07	**13.40** 1.24	**15.24** 1.42	**17.09** 1.59	**18.94** 1.76	**20.79** 1.93	**22.64** 2.10	**24.48** 2.27	**26.33** 2.45	**28.18** 2.62	**30.03** 2.79	**31.88** 2.96	**33.72** 3.13	**35.57** 3.30
78 1.98	**2.52** 0.23	**4.53** 0.42	**6.55** 0.61	**8.57** 0.80	**10.58** 0.98	**12.60** 1.17	**14.61** 1.36	**16.63** 1.54	**18.64** 1.73	**20.66** 1.92	**22.67** 2.11								
84 2.13	**2.73** 0.25	**4.91** 0.46	**7.10** 0.66	**9.28** 0.86	**11.46** 1.06	**13.64** 1.27	**15.83** 1.47	**18.01** 1.67	**20.19** 1.88	**22.38** 2.08	**24.56** 2.28								
90 2.29	**2.94** 0.27	**5.29** 0.49	**7.64** 0.71	**9.99** 0.93	**12.34** 1.15	**14.69** 1.36	**17.04** 1.58	**19.39** 1.80	**21.75** 2.02	**24.10** 2.24	**26.45** 2.46								
96 2.44	**3.15** 0.29	**5.67** 0.53	**8.19** 0.76	**10.70** 0.99	**13.22** 1.23	**15.74** 1.46	**18.26** 1.70	**20.78** 1.93	**23.30** 2.16	**25.81** 2.40	**28.33** 2.63								
102 2.59	**3.36** 0.31	**6.04** 0.56	**8.73** 0.81	**11.42** 1.06	**14.10** 1.31	**16.79** 1.56	**19.47** 1.81	**22.16** 2.06	**24.85** 2.31	**27.53** 2.56	**30.22** 2.81								
108 2.74	**3.57** 0.33	**6.42** 0.60	**9.27** 0.86	**12.13** 1.13	**14.98** 1.39	**17.84** 1.66	**20.69** 1.92	**23.54** 2.19	**26.40** 2.45	**29.25** 2.72	**32.11** 2.98								
114 2.90	**3.78** 0.35	**6.80** 0.63	**9.82** 0.91	**12.84** 1.19	**15.86** 1.47	**18.88** 1.75	**21.91** 2.04	**24.93** 2.32	**27.95** 2.60	**30.97** 2.88	**33.99** 3.16								
120 3.05	**3.99** 0.37	**7.18** 0.67	**10.36** 0.96	**13.55** 1.26	**16.74** 1.56	**19.93** 1.85	**23.12** 2.15	**26.31** 2.44	**29.50** 2.74	**32.69** 3.04	**35.88** 3.33								

SCHEDULE TYPE:	Page 2 of 3			
PROJECT:	Dimensions are in inches (mm).			
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**3 - 27 - 26**	**1600M**	**1 - 30 - 24**	**1605WDVM**

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MIAMI-DADE QUALIFIED • FLORIDA PRODUCT APPROVED
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5" (127) DEEP • VERTICAL BLADE • PERFORMANCE DATA
MODEL: 1605WDVM

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

	Free Area %	53%
	Free Area sq. ft. (sq. m.)	8.53 (0.79)
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.)*
INTAKE	Air Volume at 1250 fpm Free Area Velocity	10,663 cfm (5032 l/s)
INTAKE	Pressure Drop @ 1250 fpm	.29 in. w.g. (72 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

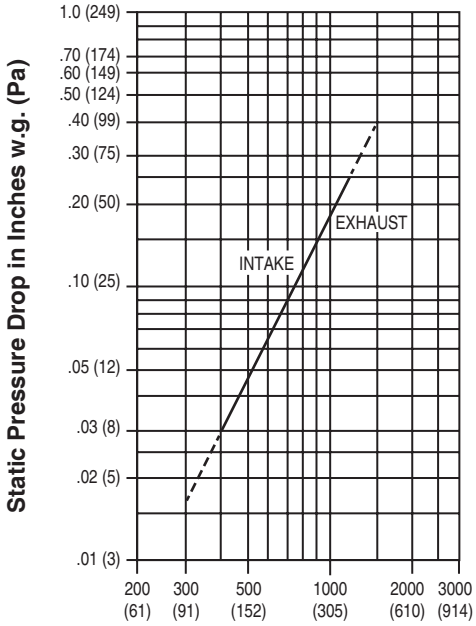
Core Ventilation Rate in fpm (m/s)	0 (0.00)	110 (0.56)	195 (0.99)	279 (1.42)	396 (2.01)	497 (2.52)	588 (2.99)	701 (3.56)	781 (3.97)	891 (4.53)	984 (5.00)
Free Area Ventilation Rate in fpm (m/s)	0 (0.00)	186 (0.95)	330 (1.68)	473 (2.40)	671 (3.41)	842 (4.28)	996 (5.06)	1187 (6.03)	1323 (6.72)	1509 (7.63)	1667 (8.47)
Effectiveness Ratio (%)	100	100	100	100	100	100	100	100	100	100	100
Penetration Class	A	A	A	A	A	A	A	A	A	A	A

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 (0.00)	88 (0.45)	199 (1.01)	301 (1.53)	400 (2.03)	485 (2.46)	590 (3.00)	687 (3.49)	787 (4.00)	883 (4.49)	987 (5.01)
Free Area Ventilation Rate in fpm (m/s)	0 (0.00)	149 (0.76)	337 (1.71)	510 (2.59)	678 (3.44)	822 (4.18)	999 (5.07)	1164 (5.91)	1333 (6.77)	1496 (7.60)	1672 (8.49)
Effectiveness Ratio (%)	100	100	100	100	100	100	100	100	100	100	100
Penetration Class	A	A	A	A	A	A	A	A	A	A	A

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.

Nailor Industries Inc. certifies that the Model 1605WDVM 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 Water Penetration, Wind Driven Rain and Air Performance ratings.

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

HIGH VELOCITY RAIN RESISTANT WITH BLADES FULLY OPEN AND 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 1605WDVM louver 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 +/- 130PSF with a minimum blade span of less than 12 in. (305mm) and a maximum unsupported blade span of 58 in. (1473 mm) and to High Velocity Wind-Driven Rain Resistant Louvers tested in the fully open position that permits airflow through a louver.

SCHEDULE TYPE:	Page 3 of 3			
PROJECT:	Dimensions are in inches (mm).			
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**3 - 27 - 26**	**1600M**	**1 - 30 - 24**	**1605WDVM**