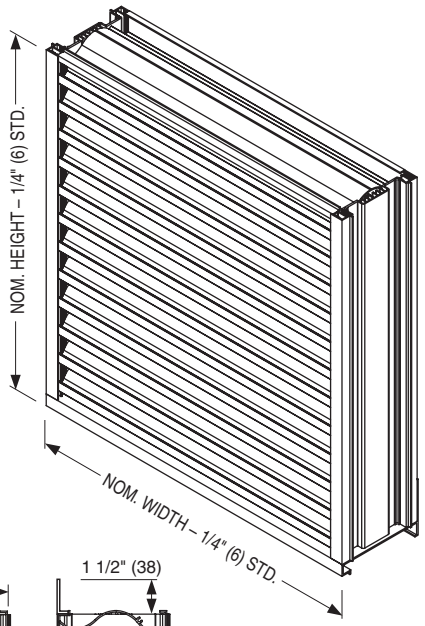
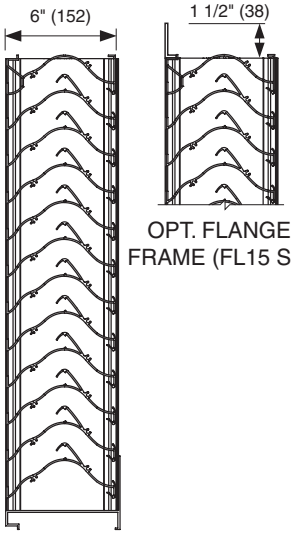
EXTRUDED ALUMINUM STATIONARY LOUVER
WIND-DRIVEN RAIN RESISTANT
6" (152) DEEP • HORIZONTAL BLADE
MODEL: 1606WD

Nailor® Industries Inc.

Model 1606WD Wind-Driven Resistant Horizontal Drainable Blade Louver provides maximum weather protection in a 6" (152) deep frame, with pleasing sight-proof aesthetics that compliment any structure's exterior styling. Suitable for use in exhaust and low to medium velocity intake applications, the drainable head and drainable blade design divert collected water down concealed side downspouts and out the sill. Blades are reinforced with full length integral bosses for superior strength and the 6" (152) deep channel or optional flanged frame installs easily in most common wall configurations. Model 1606WD is AMCA Licensed for Wind-Driven Rain, Water Penetration and Air Performance.





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: Approximately 1.94" (49) on centers.

BLADE SUPPORT: Concealed type, factory installed on rear of louver on maximum 60" (1524) centers. Reinforced with 1 1/2" x 2" (38 x 51) angle (adds 2" [51] to overall louver depth).

MULLIONS: Concealed type allowing continuous line appearance up to 120" (3048) wide. Larger assemblies require seperate visible frames with downspouts.

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: 120" W x 84" H (3048 x 2134) or 84" W x 120" H (2134 x 3048). 70 sq. ft. (6.5 m_2). Larger louvers will require field assembly of smaller sections.

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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.
- ❑ **FR1** 1" (25) Filter Rack.
- ❑ **FR2** 2" (51) Filter Rack.
- ❑ **PAC** Perimeter Anchor Clips.
- ❑ 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.

Color Anodized:

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

OPTIONAL W x H SIZING

(1/4" [6.5] Undersize standard):

- ❑ **U00** Exact Size.
- ❑ **U38** Undersize 3/8" (9.5).
- ❑ **U50** Undersize 1/2" (12.7).

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**	**1606WD**

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

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						

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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**	**1606WD**

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

Nailor Industries Inc.

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.)*
INTAKE	Air Volume at 1250 fpm Free Area Velocity	9,263 cfm (4372 l/s)
INTAKE	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

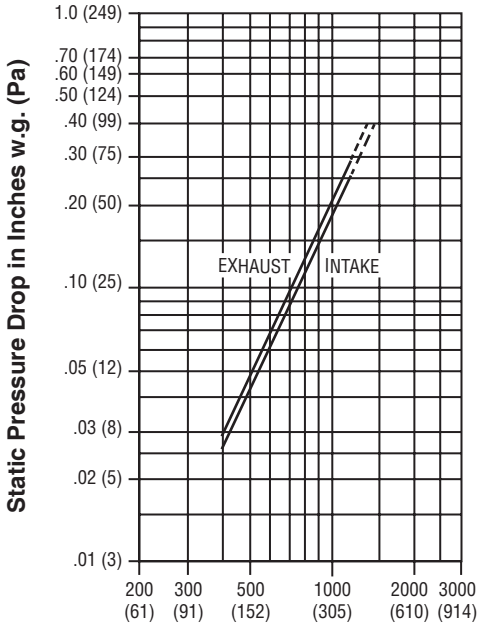
Core Ventilation Rate in fpm (m/s)	0 (0.0)	98 (0.5)	197 (1.0)	295 (1.5)	394 (2.0)	492 (2.5)	591 (3.0)	668 (3.39)	763 (3.88)
Free Area Ventilation Rate in fpm (m/s)	0 (0.0)	209 (1.06)	419 (2.13)	628 (3.19)	838 (4.26)	1047 (5.32)	1257 (6.39)	1421 (7.22)	1623 (8.24)
Effectiveness Ratio(%)	100	99.6	99.2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

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.

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Nailor Industries Inc. certifies that the Model 1606WD 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.

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

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