GENERAL PRODUCT OVERVIEW

At Nailor Industries, we've been manufacturing premium quality air control products for over 40 years. We've learned a lot since producing our first device and have incorporated that knowledge into the latest designs and production techniques that are offered today. Designed and engineered to meet the most demanding specifications, Nailor's louver products combine architecturally enhancing aesthetics with excellent performance characteristics. So go ahead and take advantage of our experience and dedication to quality engineering and customer satisfaction.

FEATURES AND BENEFITS OF NAILOR LOUVERS

- Nailor offers a wide variety of blade styles to meet mechanical system requirements and architectural design criteria.
- Extruded Aluminum, Galvanized or Stainless Steel construction for high durability and quality fit and finish.
- Reinforcing bosses run the full length of extruded aluminum blades for superior strength.
- All Nailor louvers are precision assembled using zinc plated fasteners. Optional fully welded construction is available.
- Low pressure drop characteristics require less fan energy and contribute to efficient system operation.
- Drainable head is standard on many models for maximum protection against water running down the building face.
- Integral caulking slots on all frames help ensure a tight and tidy installation.
- Vast selection of finishes and colors.
- Largest selection of specialty shapes and custom louver manufacturing.

AMCA INTERNATIONAL MEMBER

Nailor Industries is an active member of the Air Movement and Control Association International (AMCA) which provides standardized test criteria for air control devices. In addition, AMCA also offers a Certified Ratings Program which provides assurance that cataloged performance ratings are reliable and accurate. Only products whose ratings are based on tests performed in accordance with AMCA recognized test methods, at the AMCA Testing Laboratory or an AMCA Accredited Laboratory, and adhere to the Certified Ratings Program criteria, can be licensed to use the Certified Ratings Seal.

Nailor Industries Inc. certifies the Models 1602D, 1604JD, 1606JD, 1604KD, 1606KD, 1604D, 1606D, 1604DD, 1606DD, 1604AD, 1606AD, 1606CDAF and 1706D shown herein are 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. The AMCA Certified Ratings Seal applies to Air Performance and Water Penetration ratings.

Nailor Industries Inc. certifies the Model 1605WD 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. The AMCA Certified Ratings Seal applies to Air Performance, Water Penetration and Wind-Driven Rain ratings.

Nailor Industries Inc. certifies the Model 1612QS 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. The AMCA Certified Ratings Seal applies to Air Performance, Water Penetration and Sound.

MODELS 1602J, 1602K & 1602D
EXTRUDED ALUMINUM LOUVERS
THINLINE FRAME

Nailor Models 1602J, 1602K and 1602D Thinline Louvers combine performance with aesthetics. Nailor Model 1602J is an architecturally styled thinline louver incorporating J style blades, designed with smooth, continuous clean lines that enhance any structure's exterior styling. Model 1602K thinline louver utilizes K style blades, blending weather protection and low pressure drop with a look that augments any architecture. Model 1602D provides good rain protection, utilizing drainable blades that augment any architectural style. Nailor Thinline Louvers are suitable for use in ventilation, exhaust and low to medium velocity intake applications, ideal for use in thin wall applications or A/C units where a full depth louver cannot be used.

Models 1602J and 1602K

Models 1604J and 1606J

MODELS 1604J & 1606J
EXTRUDED ALUMINUM LOUVERS
ARCHITECTURAL BLADE

Nailor Models 1604J and 1606J are architecturally styled louvers utilizing J style blades, crafted with a clean continuous architectural appearance that will visually compliment any structure's exterior. The blade design provides protection against general weather conditions, with low pressure drop characteristics and a high free area. Reinforcing bosses run the full length of each blade for superior strength. Suitable for use in ventilation, exhaust and low to medium velocity intake applications, well suited for use in specialty shape architectural applications. Available in channel, flanged, or glazing adapter type, the 4" (102) or 6" (152) deep frame installs easily in most common wall configurations. Nailor's architectural louvers are engineered to be aesthetically appealing as well as mechanically enduring.

MODELS 1604JD & 1606JD
EXTRUDED ALUMINUM LOUVERS
DRAINABLE HEAD, ARCHITECTURAL BLADE

Nailor Models 1604JD and 1606JD are architecturally styled louvers combining J style blades with a drainable head feature that utilizes a top rain gutter to prevent cascading water from entering into the building. The blade design features a rear water baffle and provides good protection against general weather conditions, with low pressure drop characteristics and a high free area. Reinforcing bosses run the full length of each blade for superior strength. Suitable for use in ventilation, exhaust and low to medium velocity intake applications where water penetration is a concern. Available in channel, flanged, or glazing adapter type, the 4" (102) or 6" (152) deep frame installs easily in most common wall configurations. Nailor Models 1604JD and 1606JD are AMCA Licensed for Water Penetration and Air Performance.

Models 1604JD and 1606JD

MODELS 1604KD & 1606KD
EXTRUDED ALUMINUM LOUVERS
DRAINABLE HEAD, K BLADE

Nailor Models 1604KD and 1606KD combine K style blades with a drainable head feature that utilizes a top rain gutter to prevent cascading water from entering into the building. The blade design features a rear water baffle plus an additional center rain hook, providing adequate protection against more forbidding weather conditions. Reinforcing bosses run the full length of each blade for superior strength. Suitable for use in exhaust and low to medium velocity intake applications. Available in channel, flanged, or glazing adapter type, the 4" (102) or 6" (152) deep frame installs easily in most common wall configurations. Nailor Models 1604KD and 1606KD are AMCA Licensed for Water Penetration and Air Performance.

Models 1604KD and 1606KD

Models 1604D and 1606D

MODELS 1604D & 1606D
EXTRUDED ALUMINUM LOUVERS
DRAINABLE HEAD, DRAINABLE BLADE

Nailor Models 1604D and 1606D combine excellent weather protection with air performance and pleasing aesthetics that compliment any structure's exterior styling. The drainable head feature is enhanced by the drainable blade design, which utilizes additional rain gutters that divert collected water down concealed side downspouts and out through the sill. Blades are reinforced with full length integral bosses for superior strength. Suitable for use in exhaust and low to medium velocity intake applications where water penetration concerns are a priority. Available in channel, flanged, or glazing adapter type, the 4" (102) or 6" (152) deep frame installs easily in most common wall configurations. Nailor Models 1604D and 1606D are AMCA Licensed for Water Penetration and Air Performance.

MODELS 1604DD & 1606DD
EXTRUDED ALUMINUM LOUVERS
DRAINABLE HEAD, DUAL DRAINABLE BLADE

Nailor Models 1604DD and 1606DD combine exceptional weather protection during the most enduring rain conditions, great air performance through a large free area and pleasing aesthetics that enhance any structure's exterior design. Complemented by a drainable head, the dual drainable blade design utilizes double rain gutters that divert collected water down concealed side downspouts and out through the sill preventing water from infiltrating the space. Blades are reinforced with full length integral bosses for superior strength. Suitable for use in exhaust and medium to high velocity intake applications where water penetration concerns are a major priority. Available in channel, flanged, or glazing adapter type, the 4" (102) or 6" (152) deep frame installs easily in most common wall configurations. Nailor Models 1604DD and 1606DD are AMCA Licensed for Water Penetration and Air Performance.

Models 1604DD and 1606DD

APPLICATIONS AND SIZING GUIDE

Selection of a louver for a specific application is determined by many variables including: aesthetic requirements, wall type/depth, pressure loss criteria and water penetration criteria. After determining the relative importance of each variable, a louver style and model can be selected by comparing individual design details and performance data, all included within this catalog. Use the following Applications Guide to assist in determining the appropriate louver type for your application:

Louver Application	Louver Type	Model
EXTRUDED ALUMINUM - 1600 Series Louvers by Application		
Decorative, A/C units, Curtain wall, Ventilation, Exhaust, Low to medium velocity intake	Thinline Frame Louver	1602J, 1602K
Decorative, Specialty Shapes, Ventilation, Exhaust, Low to medium velocity intake	Architectural Blade Louver	1604J, 1606J
Light to moderate rain, Ventilation, Exhaust, Low to medium velocity intake	Drainable Head, Architectural J Blade Louver	1604JD, 1606JD
Light to moderate rain w/ light wind, Exhaust, Low to medium velocity intake	Drainable Head, K Blade Louver	1604KD, 1606KD
Light to moderate rain, Exhaust, Low to medium velocity intake, Low pressure loss	Drainable Blade Louver	1602D, 1604D, 1606D
Moderate to heavy rain, Exhaust, Medium to high velocity intake, Low pressure loss	Dual Drainable Blade Louver	1604DD, 1606DD
Moderate to high winds w/ moderate to heavy rain, Exhaust, Higher velocity intake	Wind Driven Rain Louver	1605WD
Air Control & Shut-off, Light to moderate rain, Exhaust, Low to medium velocity intake	Combination & Adjustable, Drainable Blade Louver	1606CDAF, 1604AD, 1606AD
Sound control, Ventilation, Exhaust, Low to medium velocity intake	Acoustical Louver	1612QS
Visual screen, Vandalism concerns, Ventilation, Exhaust, Low to medium velocity intake	Sightproof Louver	1604Y
Foundation, Crawl space & utility area ventilation, Exhaust, Low to medium velocity intake	Brick Vent	16BVC, 16BVE, 16BVF
FORMED STEEL - 1700 Series Louvers by Application		
Decorative, General weather conditions, Ventilation, Exhaust, Low to medium velocity intake	Architectural Blade Louver	1704J, 1706J
Decorative, Light to moderate rain, Exhaust, Low to medium velocity intake	Drainable Head, Architectural Blade Louver	1704JD, 1706JD
Light to moderate rain, Exhaust, Low to medium velocity intake	Drainable Blade Louver	1704D, 1706D
Light to moderate rain, Exhaust, High velocity intake	Drainable Blade High Performance Louver	1704DHP, 1706DHP
Air Control, Ventilation, Exhaust, Intake	Adjustable, Drainable Blade Louver	1704AD, 1706AD

HOW TO SIZE LOUVERS

The prime factor involved in sizing a louver is the velocity of the air through its free area. The free area is the actual unobstructed area of a louver through which air can travel. Other factors such as pressure drop and amount of water penetration are dependent upon the free area velocity and can be determined by using the respective performance charts provided for each specific louver model.

1. Select Model:

Choose the louver model that is the best suited for the specific application. Use the Applications Guide and 'Quick-Select' Model Guide to assist in making a selection, if so desired.

2. Select Free area Velocity:

Select optimum free area velocity for the specific application, checking Pressure Drop and Water Penetration charts for acceptable performance. For 'exhaust only' applications, water penetration data generally does not need to be considered. For extra weather protection, select a free air velocity that is below the beginning point of water penetration.

As a rule of thumb, ASHRAE suggests 400 fpm (122 m/min.) for intake applications and 500 fpm (152 m/min.) for exhaust applications.

3. Determine Required Louver Free Area:

Divide given AIRFLOW (cfm) by the selected FREE AREA VELOCITY (fpm) to determine the required louver free area. Using the Free Area Chart for the specific louver model chosen, select a louver size that provides the required Free Area. If, in the application, the louver size is given, the maximum practical airflow can be determined by working backwards from the free area chart.

SIZING EXAMPLES:

Example A:

AIRFLOW GIVEN: DETERMINE LOUVER SIZE

1. Determine required louver free area by dividing AIRFLOW by acceptable FREE AREA VELOCITY. (Use performance charts to assist in selecting Free Area Velocity):
   _____ cfm ÷ _____ fpm = _____ sq. ft. Free Area.
2. Using the Free Area Chart for chosen model; select a louver size with at least the required free area:
   _____ wide x _____ high _____ sq. ft. Free Area.

Example B:

LOUVER SIZE GIVEN: DETERMINE MAXIMUM AIRFLOW

1. Given louver size: _____ W x _____ H. Use the Free Area Chart for chosen model to determine the area.
2. Multiply FREE AREA x acceptable FREE AREA VELOCITY to determine maximum airflow:
   _____ sq. ft. x _____ fpm = _____ cfm maximum airflow.
3. Using the Pressure Drop Chart for chosen model; check the pressure drop at the determined airflow rate and resulting free area velocity.

Note: To minimize water penetration when sizing intake louvers, select a Free Area Velocity that is below the point of beginning water penetration.

'QUICK-SELECT' MODEL GUIDE

Model	Depth	Blade Style/Angle	Free Area Sq. Ft. (Sq. Meters)	Free Area %	Beginning Point of Water Penetration
Extruded Aluminum • Stationary • Non-Drainable • Thinline Frame					
1602J	2" (51)	J/30°	7.14 (0.66)	45%	549 fpm (167 m/min.)
1602K	2" (51)	K/30°	7.55 (0.70)	47%	401 fpm (122 m/min.)
Extruded Aluminum • Stationary • Architectural Blade					
1604J	4" (102)	J/37°	8.62 (0.80)	54%	722 fpm (220 m/min.)
1606J	6" (152)	J/37°	8.13 (0.76)	51%	1029 fpm (314 m/min.)
Extruded Aluminum • Stationary • Drainable Head					
1604JD	4" (102)	J/37°	8.57 (0.80)	54%	961 fpm (293 m/min.)
1606JD	6" (152)	J/37°	7.45 (0.69)	47%	1250 fpm (381 m/min.)
1604KD	4" (102)	K/37°	7.51 (0.70)	47%	892 fpm (272 m/min.)
1606KD	6" (152)	K/37°	7.93 (0.74)	50%	1017 fpm (310 m/min.)
Extruded Aluminum • Stationary • Drainable Head & Drainable Blade					
1602D	2" (51)	Drainable/45°	6.91 (0.64)	43%	1123 fpm (342 m/min.)
1604D	4" (102)	Drainable/37°	8.26 (0.77)	52%	906 fpm (272 m/min.)
1606D	6" (152)	Drainable/37°/45°	7.99 (0.74)	50%	1195 fpm (364 m/min.)
1604DD	4" (102)	Dual Drainable/37°	8.14 (0.76)	51%	1000 fpm (305 m/min.)
1606DD	6" (152)	Dual Drainable/37°	7.92 (0.74)	50%	1193 fpm (364 m/min.)
Extruded Aluminum • Stationary • Wind-Driven Rain Resistant					
1605WD	5" (127)	Drainable/30°	8.64 (0.80)	54%	1025 fpm (313 m/min.)
Extruded Aluminum • Adjustable • Drainable Blade					
1604AD	4" (102)	Adjustable, Drainable/37 1/2°	7.10 (0.66)	44%	953 fpm (290 m/min.)
1606AD	6" (152)	Adjustable, Drainable/37 1/2°	8.15 (0.76)	51%	970 fpm (296 m/min.)
Extruded Aluminum • Combination Louver/Damper • Drainable Blade					
1606CDAF	6" (152)	Airfoil, Drainable/45°	6.89 (0.64)	43%	1142 fpm (348 m/min.)
Extruded Aluminum • Stationary • Sightproof					
1604Y	4" (102)	Inverted Y/45°	4.67 (0.43)	29%	—
Formed Aluminum (or Steel) • Acoustical					
1612QS	12" (305)	Insulated, J Sightproof/45°	4.72 (0.44)	30%	826 fpm (252 m/min.)
Formed Steel • Stationary • Architectural Blade					
1704J	4" (102)	J/45°	8.53 (0.79)	53%	869 fpm (265 m/min.)
1706J	6" (152)	J/45°	8.53 (0.79)	53%	938 fpm (286 m/min.)
Formed Steel • Stationary • Drainable Head					
1704JD	4" (102)	J/45°	8.38 (0.78)	52%	1123 fpm (342 m/min.)
1706JD	6" (152)	J/45°	7.85 (0.73)	49%	1250 fpm (381 m/min.)
Formed Steel • Stationary • Drainable Blade					
1704D	4" (102)	Drainable/45°	8.44 (0.78)	53%	976 fpm (298 m/min.)
1706D	6" (152)	Drainable/45°	8.02 (0.75)	50%	1250 fpm (381 m/min.)
1704DHP	4" (102)	Drainable/37 1/2°	8.55 (0.79)	53%	896 fpm (273 m/min.)
1706DHP	6" (152)	Drainable/37 1/2°	9.05 (0.84)	56%	988 fpm (301 m/min.)
Formed Steel • Adjustable • Drainable Blade					
1704AD	4" (102)	Adjustable, Drainable/37 1/2°	8.03 (0.75)	50%	991 fpm (302 m/min.)
1706AD	6" (152)	Adjustable, Drainable/37 1/2°	8.80 (0.82)	55%	977 fpm (298 m/min.)

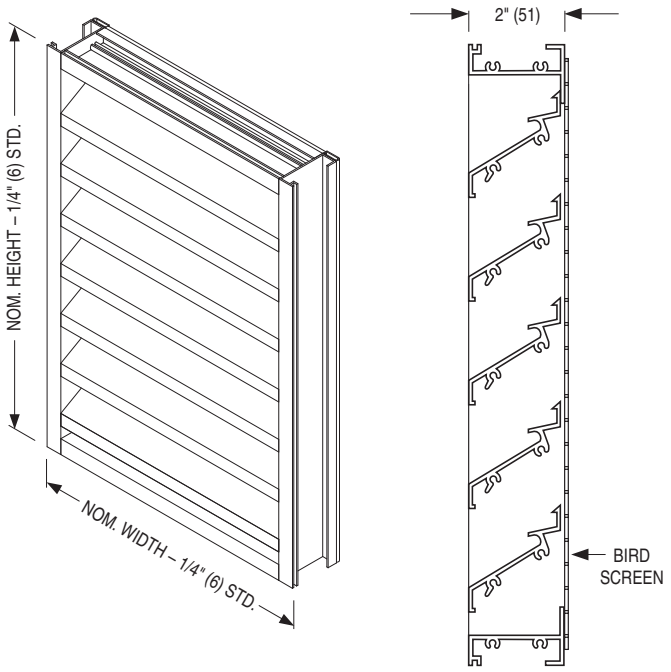
- Dimensions are in inches (mm).
- Free Area shown are for 48" x 48" (1219 x 1219).
- Beginning point of Water Penetration: 0.01 oz./sq. ft. (3 ml/sq. m), 15 minute test duration.

Model 1602K

Model 1602K Thinline Frame Louvers utilize stationary K style blades, integrating great weather protection, air performance and low pressure drop with a look that augments any architecture. The blade design features a rear water baffle plus an additional center rain hook, providing additional protection against more forbidding weather conditions. Standard concealed architectural mullions allow for a continuous look. Reinforcing bosses run the full length of each blade for superior strength. Suitable for use in ventilation, exhaust and low to medium velocity intake applications, ideal for use in thin wall and curtain wall applications or A/C units where a full depth louver cannot be used, delivering remarkable performance when a standard 4" (102) or 6" (152) louver is not practical. Available in channel, flanged, or glazing adapter type, the 2" (51) deep frame installs easily in most common wall and mechanical configurations. Nailor's thinline frame louvers are engineered to be aesthetically appealing as well as mechanically enduring.

STANDARD CONSTRUCTION:

Frame:	2" (51) deep, Type 6063-T5 extruded aluminum, .060" (1.5) nominal wall thickness. Integral caulking slot provided.
Blades:	Type 6063-T5 extruded aluminum, .060" (1.5) nominal wall thickness, with reinforcing bosses. K style.
Blade Angle:	Fixed at 30 degrees.
Blade Spacing:	Approximately 2" (51) on centers.
Blade Support Brackets:	Concealed type, factory installed on rear of louver on maximum 48" (1219) centers. Reinforced with 1" x 1" (25 x 25) angle (adds approx. 1" [25] to overall louver depth).
Mullions:	Concealed architectural style allowing continuous line appearance.
Screen:	3/4" x .051 (19 x 1.3) expanded, flattened alum. bird screen in removable frame, inside (rear) mount (adds approx. 3/8" [10] to louver depth).
Finish:	Mill.
Minimum Size:	8" W x 8" H (203 x 203).
Maximum 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.



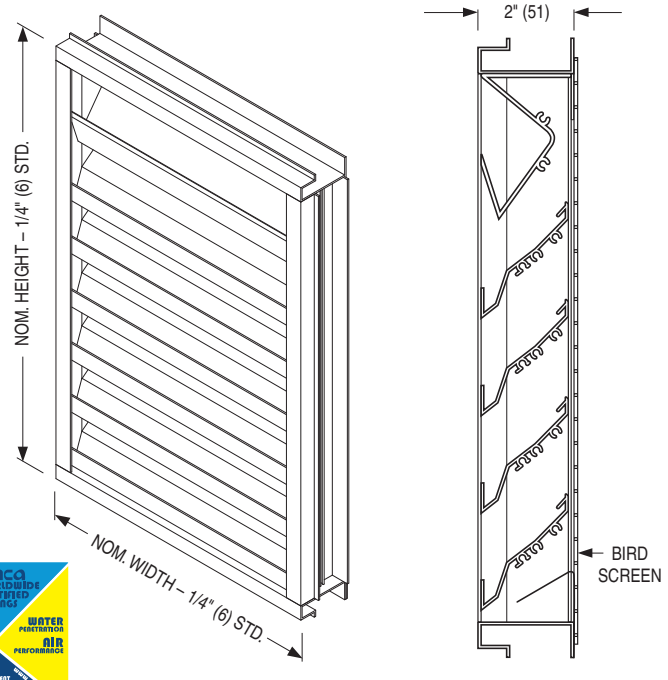
MODEL 1602K

Model 1602D

Model 1602D Thinline Frame Drainable Blade Louvers combine excellent weather protection with pleasing aesthetics. The drainable blade design is enhanced by the drainable head feature, which utilizes a large rain gutter that diverts collected water down concealed side downspouts and out through the sill. This drainable louver delivers outstanding performance where a 4" (102) or 6" (152) louver is not practical. Suitable for use in ventilation, exhaust and low to medium velocity intake applications where water penetration is a concern, ideal for use in thin wall and curtain wall applications or A/C units where a full depth louver cannot be used. Available in channel, flanged, or glazing adapter type, the 2" (51) deep frame installs easily in most common wall and mechanical configurations.

STANDARD CONSTRUCTION:

Frame:	2" (51) deep, Type 6063-T5 extruded alum., .060" (1.5) nominal wall thickness. Integral downspouts and caulking slot provided.
Blades:	Type 6063-T5 extruded aluminum, .060" (1.5) nominal wall thickness, with reinforcing bosses.
Blade Angle:	Fixed at 45 degrees.
Blade Spacing:	Approximately 2 1/4" (57) on centers.
Blade Support Brackets:	Concealed type, factory installed on rear of louver on maximum 48" (1219) centers. Reinforced with 1" x 1" (25 x 25) angle (adds approx. 1" [25] to overall louver depth).
Mullions:	Concealed type allowing continuous line appearance up to 120" (3048) wide. Larger assemblies require separate visible frames with downspouts.
Screen:	3/4" x .051 (19 x 1.3) expanded, flattened alum. bird screen in removable frame, inside (rear) mount (adds approx. 3/8" [10] to louver depth).
Finish:	Mill.
Minimum Size:	8" W x 8" H (203 x 203).
Maximum 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.



MODEL 1602D

PERFORMANCE DATA:
MODEL: 1602D

FREE AREA in Square Feet and Square Meters

Height in Inches and Meters	Width in Inches and Meters																				
	8	**12**	**18**	**24**	**30**	**36**	**42**	**48**	**54**	**60**	**66**	**72**	**78**	**84**	**90**	**96**	**102**	**108**	**114**	**120**
	0.20	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	2.90	3.05
8	**0.07**	**0.12**	**0.19**	**0.27**	**0.34**	**0.41**	**0.49**	**0.56**	**0.63**	**0.70**	**0.78**	**0.85**	**0.92**	**1.00**	**1.07**	**1.14**	**1.21**	**1.29**	**1.36**	**1.43**
0.20	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.05	0.06	0.07	0.07	0.08	0.09	0.09	0.10	0.11	0.11	0.12	0.13	0.13
12	**0.15**	**0.25**	**0.40**	**0.55**	**0.70**	**0.85**	**1.01**	**1.16**	**1.31**	**1.46**	**1.61**	**1.76**	**1.91**	**2.06**	**2.21**	**2.36**	**2.51**	**2.67**	**2.82**	**2.97**
0.30	0.01	0.02	0.04	0.05	0.07	0.08	0.09	0.11	0.12	0.14	0.15	0.16	0.18	0.19	0.21	0.22	0.23	0.25	0.26	0.28
18	**0.27**	**0.45**	**0.73**	**1.00**	**1.27**	**1.54**	**1.81**	**2.08**	**2.36**	**2.63**	**2.90**	**3.17**	**3.44**	**3.72**	**3.99**	**4.26**	**4.53**	**4.80**	**5.08**	**5.35**
0.46	0.03	0.04	0.07	0.09	0.12	0.14	0.17	0.19	0.22	0.24	0.27	0.29	0.32	0.35	0.37	0.40	0.42	0.45	0.47	0.50
24	**0.39**	**0.65**	**1.05**	**1.44**	**1.83**	**2.22**	**2.61**	**3.01**	**3.40**	**3.79**	**4.18**	**4.57**	**4.97**	**5.36**	**5.76**	**6.14**	**6.53**	**6.93**	**7.32**	**7.71**
0.61	0.04	0.06	0.10	0.13	0.17	0.21	0.24	0.28	0.32	0.35	0.39	0.42	0.46	0.50	0.53	0.57	0.61	0.64	0.68	0.72
30	**0.54**	**0.90**	**1.44**	**1.98**	**2.52**	**3.06**	**3.60**	**4.14**	**4.68**	**5.22**	**5.76**	**6.30**	**6.84**	**7.38**	**7.92**	**8.46**	**9.00**	**9.54**	**10.08**	**10.62**
0.76	0.05	0.08	0.13	0.18	0.23	0.28	0.33	0.38	0.43	0.49	0.54	0.59	0.64	0.69	0.74	0.79	0.84	0.89	0.94	0.99
36	**0.66**	**1.10**	**1.76**	**2.42**	**3.08**	**3.74**	**4.40**	**5.06**	**5.72**	**6.38**	**7.04**	**7.70**	**8.36**	**9.02**	**9.68**	**10.34**	**11.00**	**11.66**	**12.32**	**12.98**
0.36	0.06	0.10	0.16	0.22	0.29	0.35	0.41	0.47	0.53	0.59	0.65	0.72	0.78	0.84	0.90	0.96	1.02	1.08	1.14	1.21
42	**0.78**	**1.30**	**2.08**	**2.86**	**3.64**	**4.42**	**5.20**	**5.98**	**6.76**	**7.54**	**8.32**	**9.10**	**9.88**	**10.66**	**11.44**	**12.22**	**13.00**	**13.78**	**14.56**	**15.34**
1.07	0.07	0.12	0.19	0.27	0.34	0.41	0.48	0.56	0.63	0.70	0.77	0.85	0.92	0.99	1.06	1.14	1.21	1.28	1.35	1.43
48	**0.93**	**1.55**	**2.48**	**3.41**	**4.34**	**5.27**	**6.20**	**6.91**	**8.06**	**8.99**	**9.92**	**10.84**	**11.77**	**12.70**	**13.63**	**14.56**	**15.49**	**16.42**	**17.35**	**18.28**
1.22	0.09	0.14	0.23	0.32	0.40	0.49	0.58	0.64	0.75	0.83	0.92	1.01	1.09	1.18	1.27	1.35	1.44	1.53	1.61	1.70
54	**1.05**	**1.75**	**2.80**	**3.85**	**4.90**	**5.95**	**7.00**	**8.05**	**9.10**	**10.15**	**11.19**	**12.24**	**13.29**	**14.34**	**15.39**	**16.44**	**17.49**	**18.54**	**19.59**	**20.64**
1.37	0.10	0.16	0.26	0.36	0.45	0.55	0.65	0.75	0.84	0.94	1.04	1.14	1.23	1.33	1.43	1.53	1.62	1.72	1.82	1.92
60	**1.17**	**1.95**	**3.12**	**4.29**	**5.46**	**6.62**	**7.79**	**8.96**	**10.13**	**11.30**	**12.47**	**13.64**	**14.81**	**15.98**	**17.15**	**18.32**	**19.48**	**20.65**	**21.82**	**22.99**
1.52	0.11	0.18	0.29	0.40	0.51	0.62	0.72	0.83	0.94	1.05	1.16	1.27	1.38	1.48	1.59	1.70	1.81	1.92	2.03	2.14
66	**1.32**	**2.20**	**3.52**	**4.84**	**6.15**	**7.47**	**8.79**	**10.11**	**11.43**	**12.75**	**14.07**	**15.39**	**16.71**	**18.02**	**19.34**	**20.66**	**21.98**	**23.30**	**24.62**	**25.94**
1.68	0.12	0.20	0.33	0.45	0.57	0.69	0.82	0.94	1.06	1.18	1.31	1.43	1.55	1.67	1.80	1.92	2.04	2.16	2.29	2.41
72	**1.44**	**2.40**	**3.84**	**5.27**	**6.71**	**8.15**	**9.59**	**11.03**	**12.47**	**13.90**	**15.34**	**16.78**	**18.22**	**19.66**	**21.10**	**22.54**	**23.97**	**25.93**	**27.39**	**28.86**
1.83	0.13	0.22	0.36	0.49	0.62	0.76	0.89	1.02	1.16	1.29	1.43	1.56	1.69	1.83	1.96	2.09	2.23	2.36	2.49	2.63
78	**1.65**	**2.76**	**4.41**	**6.06**	**7.71**	**9.37**	**11.02**	**12.67**	**14.33**	**15.98**	**17.63**	**19.29**	**20.94**	**22.59**	**24.25**	**25.90**	**27.55**	**29.20**	**30.86**	**32.51**
1.98	0.15	0.26	0.41	0.56	0.72	0.87	1.02	1.18	1.33	1.48	1.64	1.79	1.95	2.10	2.25	2.41	2.56	2.71	2.87	3.02
84	**1.76**	**2.93**	**4.69**	**6.44**	**8.20**	**9.96**	**11.71**	**13.47**	**15.23**	**16.98**	**18.74**	**20.50**	**22.25**	**24.01**	**25.77**	**27.52**	**29.28**	**31.04**	**32.80**	**34.55**
2.13	0.16	0.27	0.44	0.60	0.76	0.92	1.09	1.25	1.41	1.58	1.74	1.90	2.07	2.23	2.39	2.56	2.72	2.88	3.05	3.21
90	**1.83**	**3.05**	**4.88**	**6.71**	**8.54**	**10.37**	**12.20**	**14.04**	**15.87**	**17.70**	**19.53**	**21.36**	**23.19**	**25.02**	**26.85**	**28.68**	**30.51**	**32.34**	**34.17**	**36.00**
2.29	0.17	0.28	0.45	0.62	0.79	0.96	1.13	1.30	1.47	1.64	1.81	1.98	2.15	2.32	2.49	2.66	2.83	3.00	3.17	3.34
96	**1.95**	**3.25**	**5.19**	**7.14**	**9.09**	**11.04**	**12.99**	**14.93**	**16.88**	**18.83**	**20.78**	**22.72**	**24.67**	**26.62**	**28.57**	**30.52**	**32.46**	**34.41**	**36.36**	**38.31**
2.44	0.18	0.30	0.48	0.66	0.84	1.03	1.21	1.39	1.57	1.75	1.93	2.11	2.29	2.47	2.65	2.83	3.02	3.20	3.38	3.56
102	**2.10**	**3.50**	**5.59**	**7.69**	**9.79**	**11.89**	**13.98**	**16.08**	**18.18**	**20.28**	**22.37**	**24.47**	**26.57**	**28.67**	**30.76**	**32.86**	**34.96**	**37.06**	**39.15**	**41.25**
2.59	0.19	0.32	0.52	0.71	0.91	1.10	1.30	1.49	1.69	1.88	2.08	2.27	2.47	2.66	2.86	3.05	3.25	3.44	3.64	3.83
108	**2.22**	**3.70**	**5.91**	**8.13**	**10.35**	**12.57**	**14.79**	**17.00**	**19.22**	**21.44**	**23.66**	**25.87**	**28.09**	**30.31**	**32.53**	**34.75**	**36.96**	**39.18**	**41.40**	**43.62**
2.74	0.21	0.34	0.55	0.76	0.96	1.17	1.37	1.58	1.79	1.99	2.20	2.40	2.61	2.82	3.02	3.23	3.43	3.64	3.85	4.05
114	**2.34**	**3.90**	**6.23**	**8.57**	**10.91**	**13.25**	**15.59**	**17.93**	**20.26**	**22.60**	**24.94**	**27.28**	**29.62**	**31.95**	**34.29**	**36.63**	**38.97**	**41.31**	**43.64**	**45.98**
2.90	0.22	0.36	0.58	0.80	1.01	1.23	1.45	1.67	1.88	2.10	2.32	2.53	2.75	2.97	3.19	3.40	3.62	3.84	4.05	4.27
120	**2.49**	**4.14**	**6.63**	**9.12**	**11.61**	**14.09**	**16.58**	**19.07**	**21.55**	**24.04**	**26.53**	**29.01**	**31.50**	**33.99**	**36.47**	**38.96**	**41.45**	**43.93**	**46.42**	**48.91**
3.05	0.23	0.39	0.62	0.85	1.08	1.31	1.54	1.77	2.00	2.23	2.46	2.70	2.93	3.16	3.39	3.62	3.85	4.08	4.31	4.54

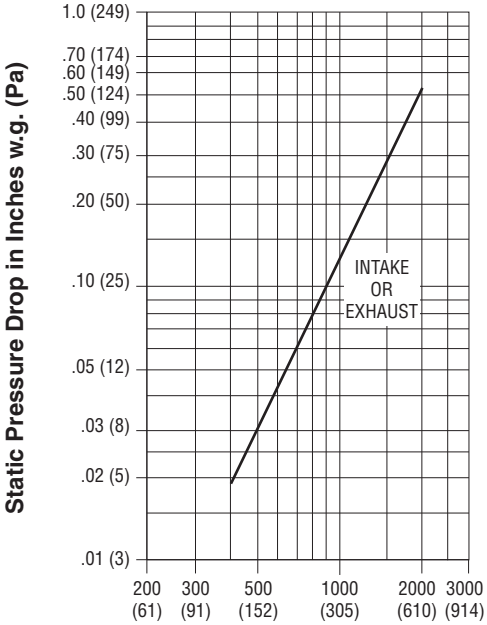
AIRFLOW/ WATER PENETRATION DATA
for 48" x 48" (1219 x 1219) Louver Size

	Model	1602D
	Free Area %	43%
	Free Area sq. ft. (sq. m.)	6.91 (0.64)
INTAKE	Free Area Velocity at Point of Beginning Water Penetration at .01 oz./sq. ft. (3 ml/sq. m) (15 min. test duration)	1123 fpm (342 m/min.)
INTAKE	Air Volume at Free Area Velocity shown	7760 cfm (3662 l/s)
INTAKE	Pressure Drop at Free Area Velocity shown	.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.

Nailor Industries Inc. certifies the Model 1602D 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.

HOW TO SPECIFY

MODEL 1602D

EXTRUDED ALUMINUM THINLINE FRAME LOUVERS

SUGGESTED SPECIFICATION:

Provide and install, as shown on plans and/or schedules, extruded aluminum louvers meeting or exceeding the following criteria: Frame shall be 2" (51) deep channel type (**or specifier to select:** flanged type **or** glazing adapter type), 1/4" (6.3) undersize (**or specifier to select:** exact size **or** 3/8" (9.5) undersize **or** 1/2" (12.7) undersize), with integral caulking slots (and **specifier to select, if required:** extended sill), constructed from ASTM B211 Alloy 6063-T5 extruded aluminum of .060" (1.5) nominal wall thickness. Blades shall be stationary drainable style, constructed from type 6063-T5 extruded aluminum of .060" (1.5) nominal wall thickness with reinforcing bosses, fixed at 45 degrees on approximately 2 1/4" (57) centers and shall be supported by angle reinforced concealed brackets as required to withstand a wind force of not less than 25 pounds per square foot (100 miles per hour). Factory assembled louver components to be mechanically fastened (**or specifier to select:** welded construction). Large louvers that require multiple sections for shipping shall be constructed with visible frames with downspouts when installed together on site. Louvers shall be equipped with removable 3/4" x .051 (19 x 1.3) expanded, flattened aluminum bird screen (**or specifier to select:** type 304 stainless steel bird screen **and/or** aluminum insect screen **and/or** type 304 stainless steel insect screen **or** no screen.

Finish shall be standard mill (**or specifier to select:** prime coat **or** 204-R1 clear anodized to a min. depth of 0.4 mil, with 1 year warranty **or** 215-R1 clear anodized to a min. depth of 0.7 mil, with 5 year warranty **or** color anodized; color to be selected from standard Nailor anodizing colors **or** AAMA 2603 thermosetting polyester powder coat, with 1 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** AAMA 2604 high performance polyester powder coat, with 5 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** AAMA 2605 FEVE fluoropolymer powder coat, with 10 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** Kynar 500/Hylar 5000 70% PVDF coating, with 5 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** Kynar 500/Hylar 5000 50% PVDF coating, with 10 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color).

Furnish where indicated on plans and/or schedules, blank-off panels fabricated by the louver manufacturer. Blank-off panels to be 0.040" (1.02) thick aluminum sheet (**or specifier to select:** 0.040" (1.02) thick aluminum sheet with 1" (25) insulation **or** 0.040" (1.02) thick aluminum sheet with 2" (51) insulation **or** 20 ga. (1.0) galvanized steel **or** 20 ga. (1.0) galvanized steel with 1" (25) insulation **or** 20 ga. (1.0) galvanized steel with 2" (51) insulation). Blank-off panels to be finished to match louvers.

Performance data must be licensed by AMCA under the AMCA Certified Ratings Program and shall bear the AMCA Certified Ratings seal for water penetration and air performance. Free area, water penetration and pressure drop data submitted shall be equal to or better than specified model. Standard of acceptance: Nailor Industries, Inc. Model 1602D.

- AMCA LICENSED
- WEATHER RESISTANT
- DRAINABLE HEAD
- ARCHITECTURAL BLADE
- CONCEALED DOWNSPOUTS

Models:

1604JD 4" (102) Deep

1606JD 6" (152) Deep

Model 1604JD

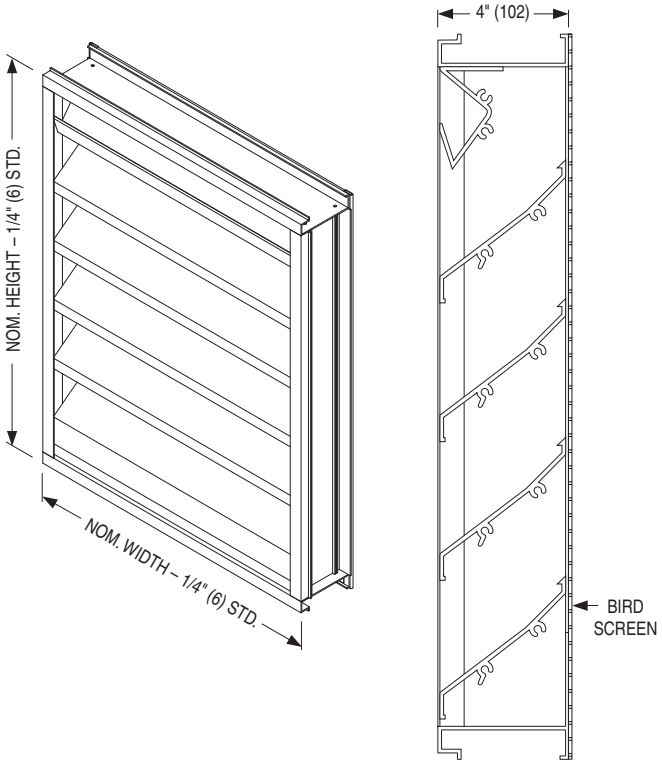
Model 1606JD

Model 1604JD

Model 1604JD combines the aesthetic appeal of a non-drainable blade with the water penetration protection of a drainable louver. High performance J style blades, combined with a drainable head that utilizes a top rain gutter with concealed downspouts in the side frame, prevent cascading water running down the building's face from entering into the building during light to moderate rain conditions. The blade design features a rear water baffle, with low pressure drop characteristics and a high free area. Reinforcing bosses run the full length of each blade for superior strength. Suitable for use in ventilation, exhaust and low to medium velocity intake applications where water penetration is a concern. Available in channel, flanged, or glazing adapter type, the 4" (102) deep frame installs easily in most common wall configurations. Model 1604JD is AMCA Licensed for Water Penetration and Air Performance.

STANDARD CONSTRUCTION:

Frame:	4" (102) deep, Type 6063-T5 extruded aluminum, .080" (2.03) nominal wall thickness. Integral caulking slot provided.
Blades:	Type 6063-T5 extruded aluminum, .080" (2.03) nominal wall thickness, with reinforcing bosses. J style.
Blade Angle:	Fixed at 37 degrees.
Blade Spacing:	Approximately 4" (102) on centers.
Blade Support Brackets:	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 approx. 2" [51] to overall louver depth).
Mullions:	Concealed type allowing continuous line appearance up to 120" (3048) wide. Larger assemblies require separate visible frames with downspouts.
Screen:	3/4" x .051 (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).
Maximum 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.



MODEL 1604JD

COMMON OPTIONS:

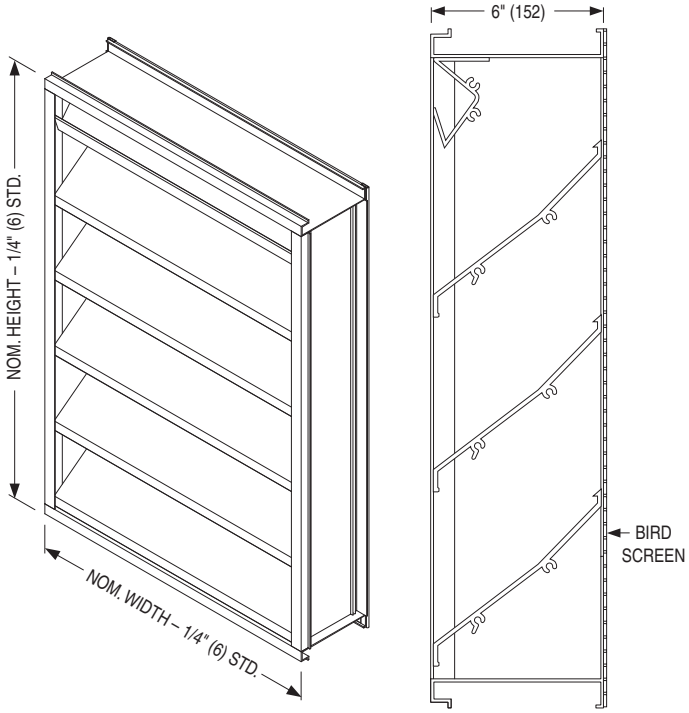
- Flanged or Glazing Adaptor Frame styles.
- Aluminum or Type 304 Stainless Steel Insect Screens.
- Extended Sills.
- Aluminum Installation Clips or Continuous Angles.
- Variety of Standard and High Performance Powder Coat finishes available in a multitude of colors. Custom color matching available.
- Clear or Color Anodized finishes.

Model 1606JD

Model 1606JD combines the desired foul weather performance of a drainable louver with the pleasing aesthetics of an architectural louver. High performance J style architectural blades, combined with a drainable head that utilizes a top rain gutter with concealed downspouts in the side frame, prevent cascading water running down the building's face from entering into the airstream during light to moderate rain conditions. The blade design features a rear water baffle, with low pressure drop characteristics and a high free area. Reinforcing bosses run the full length of each blade for superior strength. Suitable for use in ventilation, exhaust and low to medium velocity intake applications where water penetration is a concern. Available in channel, flanged, or glazing adapter type, the 6" (152) deep frame installs easily in most common wall configurations. Model 1606JD is AMCA Licensed for Water Penetration and Air Performance.

STANDARD CONSTRUCTION:

Frame:	6" (152) deep, Type 6063-T5 extruded aluminum, .080" (2.03) nominal wall thickness. Integral caulking slot provided.
Blades:	Type 6063-T5 extruded aluminum, .080" (2.03) nominal wall thickness, with reinforcing bosses. J style.
Blade Angle:	Fixed at 37 degrees.
Blade Spacing:	Approximately 6" (152) on centers.
Blade Support Brackets:	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 approx. 2" [51] to overall louver depth).
Mullions:	Concealed type allowing continuous line appearance up to 120" (3048) wide. Larger assemblies require separate visible frames with downspouts.
Screen:	3/4" x .051 (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).
Maximum 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.



MODEL 1606JD

COMMON OPTIONS:

- Flanged or Glazing Adaptor Frame styles.
- Aluminum or Type 304 Stainless Steel Insect Screens.
- Extended Sills.
- Aluminum Installation Clips or Continuous Angles.
- Variety of Standard and High Performance Powder Coat finishes available in a multitude of colors. Custom color matching available.
- Clear or Color Anodized finishes.

PERFORMANCE DATA:
MODEL: 1604JD

FREE AREA in Square Feet and Square Meters

Height in Inches and Meters	Width in Inches and Meters																		
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
	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	2.90	3.05
12	**0.25**	**0.39**	**0.54**	**0.69**	**0.84**	**0.99**	**1.14**	**1.29**	**1.44**	**1.59**	**1.74**	**1.89**	**2.04**	**2.19**	**2.34**	**2.49**	**2.64**	**2.79**	**2.94**
.30	0.02	0.03	0.05	0.06	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17	0.19	0.20	0.21	0.22	0.25	0.26	0.27
18	**0.52**	**0.83**	**1.14**	**1.46**	**1.77**	**2.09**	**2.40**	**2.71**	**3.03**	**3.34**	**3.65**	**3.97**	**4.28**	**4.59**	**4.91**	**5.22**	**5.53**	**5.85**	**6.16**
.46	0.05	0.07	0.10	0.13	0.16	0.19	0.22	0.25	0.28	0.31	0.34	0.36	0.39	0.42	0.45	0.49	0.51	0.54	0.57
24	**0.80**	**1.28**	**1.77**	**2.25**	**2.73**	**3.22**	**3.70**	**4.19**	**4.67**	**5.15**	**5.64**	**6.12**	**6.60**	**7.09**	**7.57**	**8.05**	**8.54**	**9.02**	**9.50**
.61	0.07	0.12	0.16	0.21	0.25	0.29	0.34	0.38	0.43	0.47	0.52	0.56	0.61	0.65	0.70	0.75	0.79	0.84	0.88
30	**1.04**	**1.67**	**2.30**	**2.93**	**3.56**	**4.19**	**4.82**	**5.45**	**6.08**	**6.71**	**7.34**	**7.97**	**8.60**	**9.23**	**9.86**	**10.49**	**11.12**	**11.75**	**12.38**
.76	0.09	0.15	0.21	0.27	0.33	0.39	0.44	0.50	0.56	0.62	0.68	0.74	0.79	0.85	0.91	0.98	1.03	1.09	1.15
36	**1.33**	**2.13**	**2.93**	**3.73**	**4.53**	**5.33**	**6.13**	**6.93**	**7.73**	**8.53**	**9.33**	**10.13**	**10.93**	**11.73**	**12.53**	**13.33**	**14.13**	**14.93**	**15.73**
.91	0.12	0.19	0.27	0.34	0.42	0.49	0.57	0.64	0.71	0.79	0.86	0.94	1.01	1.09	1.16	1.24	1.31	1.39	1.46
42	**1.58**	**2.52**	**3.47**	**4.42**	**5.37**	**6.32**	**7.27**	**8.22**	**9.16**	**10.11**	**11.06**	**12.01**	**12.96**	**13.91**	**14.86**	**15.81**	**16.76**	**17.71**	**18.66**
1.07	0.14	0.23	0.32	0.41	0.49	0.58	0.67	0.76	0.85	0.94	1.02	1.11	1.20	1.29	1.38	1.47	1.56	1.65	1.73
48	**1.85**	**2.97**	**4.09**	**5.20**	**6.32**	**7.43**	**8.57**	**9.66**	**10.78**	**11.89**	**13.01**	**14.12**	**15.24**	**16.35**	**17.47**	**18.58**	**19.70**	**20.81**	**21.93**
1.22	0.17	0.27	0.38	0.48	0.58	0.69	0.80	0.89	1.00	1.10	1.20	1.31	1.41	1.52	1.62	1.73	1.83	1.93	2.04
54	**2.11**	**3.38**	**4.64**	**5.91**	**7.18**	**8.44**	**9.71**	**10.98**	**12.25**	**13.51**	**14.78**	**16.05**	**17.32**	**18.58**	**19.85**	**21.12**	**22.38**	**23.64**	**24.91**
1.37	0.19	0.31	0.43	0.54	0.66	0.78	0.90	1.02	1.13	1.25	1.37	1.49	1.60	1.72	1.84	1.96	2.08	2.20	2.32
60	**2.38**	**3.81**	**5.25**	**6.68**	**8.11**	**9.54**	**10.97**	**12.41**	**13.84**	**15.27**	**16.70**	**18.13**	**19.57**	**21.00**	**22.43**	**23.86**	**25.29**	**26.73**	**28.16**
1.52	0.22	0.35	0.48	0.62	0.75	0.88	1.02	1.15	1.28	1.41	1.55	1.68	1.81	1.95	2.08	2.22	2.35	2.48	2.62
66	**2.67**	**4.27**	**5.87**	**7.47**	**9.08**	**10.68**	**12.28**	**13.88**	**15.48**	**17.09**	**18.69**	**20.29**	**21.89**	**23.50**	**25.10**	**26.70**	**28.30**	**29.91**	**31.51**
1.68	0.24	0.39	0.54	0.69	0.84	0.99	1.14	1.29	1.43	1.58	1.73	1.88	2.03	2.18	2.33	2.48	2.63	2.78	2.93
72	**2.91**	**4.66**	**6.41**	**8.16**	**9.91**	**11.66**	**13.41**	**15.16**	**16.91**	**18.66**	**20.40**	**22.15**	**23.90**	**25.65**	**27.40**	**29.14**	**30.89**	**32.64**	**34.39**
1.83	0.27	0.43	0.59	0.75	0.92	1.08	1.24	1.40	1.57	1.73	1.89	2.05	2.22	2.38	2.54	2.71	2.87	3.03	3.20
78	**3.19**	**5.11**	**7.03**	**8.94**	**10.86**	**12.78**	**14.70**	**16.62**	**18.53**	**20.45**	**22.37**	**24.29**	**26.20**	**28.12**	**30.04**	**31.96**	**33.87**	**35.79**	**37.71**
1.98	0.29	0.47	0.65	0.83	1.01	1.18	1.36	1.54	1.72	1.90	2.07	2.25	2.43	2.61	2.79	2.97	3.15	3.33	3.50
84	**3.45**	**5.52**	**7.59**	**9.65**	**11.72**	**13.79**	**15.86**	**17.93**	**20.00**	**22.07**	**24.14**	**26.21**	**28.28**	**30.35**	**32.42**	**34.49**	**36.56**	**38.63**	**40.70**
2.13	0.32	0.51	0.70	0.89	1.09	1.28	1.47	1.66	1.85	2.05	2.24	2.43	2.62	2.82	3.01	3.21	3.40	3.59	3.78
90	**3.72**	**5.95**	**8.19**	**10.42**	**12.66**	**14.89**	**17.13**	**19.36**	**21.60**	**23.83**	**26.06**	**28.30**	**30.53**	**32.77**	**35.00**	**37.24**	**39.47**	**41.71**	**43.94**
2.29	0.34	0.55	0.76	0.96	1.17	1.38	1.59	1.79	2.00	2.21	2.42	2.62	2.83	3.04	3.25	3.46	3.67	3.88	4.08
96	**4.00**	**6.41**	**8.81**	**11.22**	**13.62**	**16.03**	**18.43**	**20.84**	**23.24**	**25.65**	**28.05**	**30.46**	**32.86**	**35.27**	**37.67**	**40.07**	**42.48**	**44.80**	**47.28**
2.44	0.37	0.59	0.81	1.04	1.26	1.48	1.71	1.93	2.16	2.38	2.60	2.83	3.05	3.27	3.50	3.72	3.95	4.16	4.39
102	**4.30**	**6.88**	**9.46**	**12.04**	**14.61**	**17.19**	**19.77**	**22.35**	**24.93**	**27.51**	**30.09**	**32.67**	**35.25**	**37.82**	**40.40**	**42.98**	**45.56**	**48.14**	**50.72**
2.59	0.40	0.64	0.88	1.12	1.36	1.60	1.84	2.08	2.32	2.56	2.80	3.03	3.27	3.51	3.75	3.99	4.23	4.47	4.71
108	**4.54**	**7.26**	**9.98**	**12.71**	**15.43**	**18.15**	**20.88**	**23.60**	**26.32**	**29.04**	**31.77**	**34.49**	**37.21**	**39.94**	**42.66**	**45.38**	**48.10**	**50.83**	**53.55**
2.74	0.42	0.67	0.93	1.18	1.43	1.69	1.94	2.19	2.45	2.70	2.95	3.20	3.46	3.71	3.96	4.22	4.47	4.72	4.97
114	**4.82**	**7.72**	**10.61**	**13.51**	**16.40**	**19.30**	**22.19**	**25.09**	**27.98**	**30.88**	**33.77**	**36.67**	**39.56**	**42.46**	**45.35**	**48.24**	**51.14**	**54.03**	**56.93**
2.90	0.45	0.72	0.99	1.25	1.52	1.79	2.06	2.33	2.60	2.87	3.14	3.41	3.68	3.94	4.21	4.48	4.75	5.02	5.29
120	**5.06**	**8.10**	**11.14**	**14.18**	**17.21**	**20.25**	**23.29**	**26.33**	**29.37**	**32.40**	**35.44**	**38.48**	**41.52**	**44.55**	**47.59**	**50.63**	**53.67**	**56.71**	**59.74**
3.05	0.47	0.75	1.03	1.32	1.60	1.88	2.16	2.45	2.73	3.01	3.29	3.57	3.86	4.14	4.42	4.70	4.99	5.27	5.55

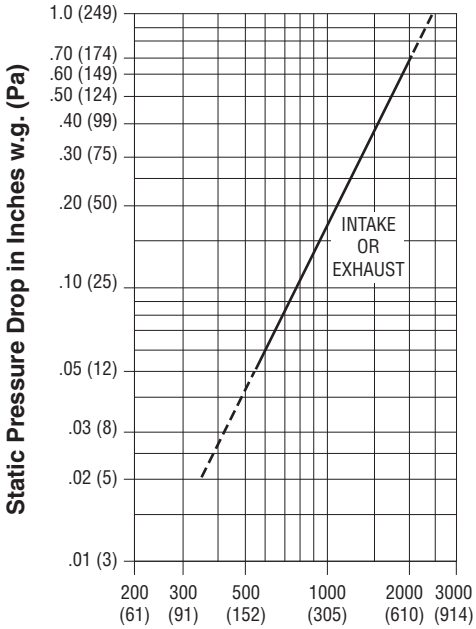
AIRFLOW/ WATER PENETRATION DATA
for 48" x 48" (1219 x 1219) Louver Size

	Model	1604JD
	Free Area %	54%
	Free Area sq. ft. (sq. m.)	8.57 (0.80)
INTAKE	Free Area Velocity at Point of Beginning Water Penetration at .01 oz./sq. ft. (3 ml/sq. m) (15 min. test duration)	961 fpm (293 m/min.)
INTAKE	Air Volume at Free Area Velocity shown	8236 cfm (3887 l/s)
INTAKE	Pressure Drop at Free Area Velocity shown	.16 in. w.g. (40 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 1604JD, 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. The AMCA Certified Ratings Seal applies to Air Performance 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.

PERFORMANCE DATA:
MODEL: 1606JD

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	**0.11** 0.01	**0.18** 0.02	**0.25** 0.02	**0.32** 0.03	**0.38** 0.04	**0.45** 0.04	**0.52** 0.05	**0.59** 0.05	**0.66** 0.06	**0.73** 0.07	**0.80** 0.07	**0.86** 0.08	**0.93** 0.09	**1.00** 0.09	**1.07** 0.10	**1.14** 0.11	**1.21** 0.11	**1.28** 0.12	**1.34** 0.12
18 0.46	**0.41** 0.04	**0.67** 0.06	**0.92** 0.09	**1.18** 0.11	**1.43** 0.13	**1.69** 0.16	**1.94** 0.18	**2.20** 0.20	**2.45** 0.23	**2.71** 0.25	**2.97** 0.28	**3.22** 0.30	**3.48** 0.32	**3.73** 0.35	**3.99** 0.37	**4.24** 0.39	**4.50** 0.42	**4.75** 0.44	**5.01** 0.47
24 0.61	**0.66** 0.06	**1.07** 0.10	**1.48** 0.14	**1.89** 0.18	**2.31** 0.21	**2.72** 0.25	**3.13** 0.29	**3.54** 0.33	**3.95** 0.37	**4.36** 0.41	**4.77** 0.44	**5.19** 0.48	**5.60** 0.52	**6.01** 0.56	**6.42** 0.60	**6.83** 0.63	**7.24** 0.67	**7.65** 0.71	**8.07** 0.75
30 0.76	**1.01** 0.09	**1.64** 0.15	**2.27** 0.21	**2.90** 0.27	**3.53** 0.33	**4.16** 0.39	**4.79** 0.44	**5.42** 0.50	**6.05** 0.56	**6.68** 0.62	**7.31** 0.68	**7.94** 0.74	**8.57** 0.80	**9.19** 0.85	**9.82** 0.91	**10.45** 0.97	**11.08** 1.03	**11.71** 1.09	**12.34** 1.15
36 0.91	**1.26** 0.12	**2.05** 0.19	**2.83** 0.26	**3.62** 0.34	**4.40** 0.41	**5.19** 0.48	**5.97** 0.55	**6.76** 0.63	**7.54** 0.70	**8.33** 0.77	**9.11** 0.85	**9.90** 0.92	**10.69** 0.99	**11.47** 1.07	**12.26** 1.14	**13.04** 1.21	**13.83** 1.28	**14.61** 1.36	**15.40** 1.43
42 1.07	**1.52** 0.14	**2.47** 0.23	**3.42** 0.32	**4.36** 0.41	**5.31** 0.49	**6.26** 0.58	**7.21** 0.67	**8.15** 0.76	**9.10** 0.85	**10.05** 0.93	**11.00** 1.02	**11.94** 1.11	**12.89** 1.20	**13.84** 1.29	**14.79** 1.37	**15.73** 1.46	**16.68** 1.55	**17.63** 1.64	**18.58** 1.73
48 1.22	**1.67** 0.16	**2.71** 0.25	**3.75** 0.35	**4.79** 0.45	**5.83** 0.54	**6.88** 0.64	**7.45** 0.69	**8.43** 0.78	**9.41** 0.87	**10.39** 0.97	**11.37** 1.06	**12.35** 1.15	**13.33** 1.24	**14.31** 1.33	**15.29** 1.42	**16.27** 1.51	**17.25** 1.60	**18.23** 1.69	**19.21** 1.78
54 1.37	**2.03** 0.19	**3.30** 0.31	**4.56** 0.42	**5.83** 0.54	**7.09** 0.66	**8.36** 0.78	**9.62** 0.89	**10.89** 1.01	**12.15** 1.13	**13.42** 1.25	**14.68** 1.36	**15.95** 1.48	**17.22** 1.60	**18.48** 1.72	**19.75** 1.83	**21.01** 1.95	**22.28** 2.07	**23.54** 2.19	**24.81** 2.30
60 1.52	**2.29** 0.21	**3.72** 0.35	**5.15** 0.48	**6.57** 0.61	**8.00** 0.74	**9.43** 0.88	**10.86** 1.01	**12.28** 1.14	**13.71** 1.27	**15.14** 1.41	**16.57** 1.54	**17.99** 1.67	**19.42** 1.80	**20.85** 1.94	**22.28** 2.07	**23.70** 2.20	**25.13** 2.33	**26.56** 2.47	**27.99** 2.60
66 1.68	**2.55** 0.24	**4.14** 0.38	**5.73** 0.53	**7.32** 0.58	**8.91** 0.83	**10.50** 0.98	**12.09** 1.12	**13.68** 1.27	**15.27** 1.42	**16.86** 1.57	**18.45** 1.71	**20.04** 1.86	**21.63** 2.01	**23.21** 2.16	**24.80** 2.30	**26.39** 2.45	**27.98** 2.60	**29.57** 2.75	**31.16** 2.90
72 1.83	**2.81** 0.26	**4.56** 0.42	**6.31** 0.59	**8.07** 0.75	**9.82** 0.91	**11.57** 1.07	**13.32** 1.24	**15.07** 1.40	**16.82** 1.56	**18.58** 1.73	**20.33** 1.89	**22.08** 2.05	**23.83** 2.21	**25.58** 2.38	**27.33** 2.54	**29.09** 2.70	**30.84** 2.86	**32.59** 3.03	**34.34** 3.19
78 1.98	**3.06** 0.28	**4.97** 0.46	**6.88** 0.64	**8.78** 0.82	**10.69** 0.99	**12.60** 1.17	**14.51** 1.35	**16.41** 1.52	**18.32** 1.70	**20.23** 1.88	**22.14** 2.06	**24.04** 2.23	**25.95** 2.41	**27.86** 2.59	**29.77** 2.77	**31.67** 2.94	**33.58** 3.12	**35.49** 3.30	**37.40** 3.47
84 2.13	**3.31** 0.31	**5.37** 0.50	**7.44** 0.69	**9.50** 0.88	**11.56** 1.07	**13.63** 1.27	**15.69** 1.46	**17.75** 1.65	**19.82** 1.84	**21.88** 2.03	**23.94** 2.22	**26.01** 2.42	**28.07** 2.61	**30.13** 2.80	**32.20** 2.99	**34.26** 3.18	**36.32** 3.37	**38.39** 3.57	**40.45** 3.76
90 2.29	**3.57** 0.33	**5.80** 0.54	**8.02** 0.75	**10.25** 0.95	**12.47** 1.16	**14.70** 1.37	**16.92** 1.57	**19.15** 1.78	**21.37** 1.99	**23.60** 2.19	**25.82** 2.40	**28.05** 2.61	**30.28** 2.81	**32.50** 3.02	**34.73** 3.23	**36.95** 3.43	**39.18** 3.64	**41.40** 3.85	**43.63** 4.05
96 2.44	**3.84** 0.36	**6.23** 0.58	**8.63** 0.80	**11.02** 1.02	**13.42** 1.25	**15.81** 1.47	**18.20** 1.69	**20.60** 1.91	**22.99** 2.14	**25.38** 2.36	**27.78** 2.58	**30.17** 2.80	**32.57** 3.03	**34.96** 3.25	**37.35** 3.47	**39.75** 3.69	**42.14** 3.91	**44.53** 4.14	**46.93** 4.36
102 2.59	**4.09** 0.38	**6.64** 0.62	**9.19** 0.85	**11.74** 1.09	**14.29** 1.33	**16.84** 1.56	**19.39** 1.80	**21.94** 2.04	**24.49** 2.27	**27.04** 2.51	**29.59** 2.75	**32.14** 2.99	**34.69** 3.22	**37.23** 3.46	**39.78** 3.70	**42.33** 3.69	**44.88** 4.17	**47.43** 4.41	**49.98** 4.64
108 2.74	**4.35** 0.40	**7.06** 0.66	**9.77** 0.91	**12.49** 1.16	**15.20** 1.41	**17.91** 1.66	**20.62** 1.92	**23.33** 2.17	**26.04** 2.42	**28.76** 2.67	**31.47** 2.92	**34.18** 3.18	**36.89** 3.43	**39.60** 3.68	**42.31** 3.93	**45.03** 4.18	**47.74** 4.43	**50.45** 4.69	**53.16** 4.94
114 2.90	**4.60** 0.43	**7.47** 0.69	**10.34** 0.96	**13.20** 1.23	**16.07** 1.49	**18.94** 1.76	**21.81** 2.03	**24.67** 2.29	**27.54** 2.56	**30.41** 2.82	**33.28** 3.09	**36.14** 3.66	**39.01** 3.62	**41.88** 3.89	**44.75** 4.16	**47.61** 4.42	**50.48** 4.69	**53.35** 4.96	**56.22** 5.22
120 3.05	**4.85** 0.45	**7.87** 0.73	**10.90** 1.01	**13.92** 1.29	**16.94** 1.57	**19.97** 1.85	**22.99** 2.14	**26.01** 2.42	**29.04** 2.70	**32.06** 2.98	**35.08** 3.26	**38.11** 3.54	**41.13** 3.82	**44.15** 4.10	**47.18** 4.38	**50.20** 4.66	**53.22** 4.94	**56.25** 5.23	**59.27** 5.51

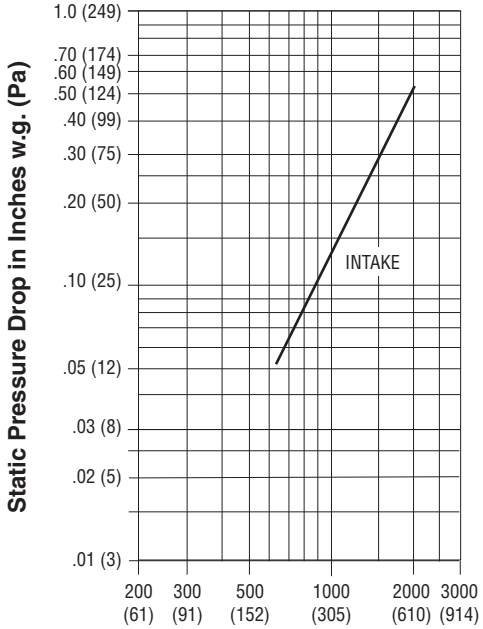
AIRFLOW / WATER PENETRATION DATA
for 48" x 48" (1219 x 1219) Louver Size

	Model	1606JD
	Free Area %	47%
	Free Area sq. ft. (sq. m.)	7.45 (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 Free Area Velocity shown	9313 cfm (4395 l/s)
INTAKE	Pressure Drop at Free Area Velocity shown	.21 in. w.g. (52 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 1606JD, 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. The AMCA Certified Ratings Seal applies to Air Performance 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.

HOW TO SPECIFY

MODEL 1604JD

EXTRUDED ALUMINUM DRAINABLE HEAD LOUVERS

SUGGESTED SPECIFICATION:

Provide and install, as shown on plans and/or schedules, extruded aluminum louvers meeting or exceeding the following criteria: Frame shall be 4" (102) deep channel type (**or specifier to select:** flanged type **or** glazing adapter type), 1/4" (6.3) undersize (**or specifier to select:** exact size **or** 3/8" [9.5] undersize **or** 1/2" [12.7] undersize), with integral caulking slots (and **specifier to select, if required:** extended sill), constructed from ASTM B211 Alloy 6063-T5 extruded aluminum of .080" (2.03) nominal wall thickness. Blades shall be stationary J style, constructed from type 6063-T5 extruded aluminum of .080" (2.03) nominal wall thickness with reinforcing bosses, fixed at 37 degrees on approximately 4" (102) centers and shall be supported by angle reinforced concealed brackets as required to withstand a wind force of not less than 25 pounds per square foot (100 miles per hour). Drain gutter in head frame. Concealed downspouts in jambs to drain water from louver for minimum water cascade from blade to blade. Factory assembled louver components to be mechanically fastened (**or specifier to select:** welded construction). Concealed type mullions for louvers up to 120" (3048) wide allowing continuous line appearance. Large louvers that require multiple sections for shipping shall be constructed with visible frames with downspouts when installed together on site. Louvers shall be equipped with removable 3/4" x .051 (19 x 1.3) expanded, flattened aluminum bird screen (**or specifier to select:** type 304 stainless steel bird screen **and/or** aluminum insect screen **and/or** type 304 stainless steel insect screen **or** no screen).

Finish shall be standard mill (**or specifier to select:** prime coat **or** 204-R1 clear anodized to a min. depth of 0.4 mil, with 1 year warranty **or** 215-R1 clear anodized to a min. depth of 0.7 mil, with 5 year warranty **or** color anodized; color to be selected from standard Nailor anodizing colors **or** AAMA 2603 thermosetting polyester powder coat, with 1 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** AAMA 2604 high performance polyester powder coat, with 5 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** AAMA 2605 FEVE fluoropolymer powder coat, with 10 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** Kynar 500/Hylar 5000 70% PVDF coating, with 5 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** Kynar 500/Hylar 5000 50% PVDF coating, with 10 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color).

Furnish where indicated on plans and/or schedules, blank-off panels fabricated by the louver manufacturer. Blank-off panels to be 0.040" (1.02) thick aluminum sheet (**or specifier to select:** 0.040" [1.02] thick aluminum sheet with 1" [25] insulation **or** 0.040" [1.02] thick aluminum sheet with 2" [51] insulation **or** 20 ga. [1.0] galvanized steel **or** 20 ga. [1.0] galvanized steel with 1" [25] insulation **or** 20 ga. [1.0] galvanized steel with 2" [51] insulation). Blank-off panels to be finished to match louvers.

Performance data must be licensed by AMCA under the AMCA Certified Ratings Program and shall bear the AMCA Certified Ratings seal for water penetration and air performance. Free area, water penetration and pressure drop data submitted shall be equal to or better than specified model. Standard of acceptance: Nailor Industries, Inc. Model 1604JD.

MODEL 1606JD

EXTRUDED ALUMINUM DRAINABLE HEAD LOUVERS

SUGGESTED SPECIFICATION:

Provide and install, as shown on plans and/or schedules, extruded aluminum louvers meeting or exceeding the following criteria: Frame shall be 6" (152) deep channel type (**or specifier to select:** flanged type **or** glazing adapter type), 1/4" (6.3) undersize (**or specifier to select:** exact size **or** 3/8" [9.5] undersize **or** 1/2" [12.7] undersize), with integral caulking slots (and **specifier to select, if required:** extended sill), constructed from ASTM B211 Alloy 6063-T5 extruded aluminum of .080" (2.03) nominal wall thickness. Blades shall be stationary J style, constructed from type 6063-T5 extruded aluminum of .080" (2.03) nominal wall thickness with reinforcing bosses, fixed at 37 degrees on approximately 6" (152) centers and shall be supported by angle reinforced concealed brackets as required to withstand a wind force of not less than 25 pounds per square foot (100 miles per hour). Drain gutter in head frame. Concealed downspouts in jambs to drain water from louver for minimum water cascade from blade to blade. Factory assembled louver components to be mechanically fastened (**or specifier to select:** welded construction). Concealed type mullions for louvers up to 120" (3048) wide allowing continuous line appearance. Large louvers that require multiple sections for shipping shall be constructed with visible frames with downspouts when installed together on site. Louvers shall be equipped with removable 3/4" x .051 (19 x 1.3) expanded, flattened aluminum bird screen (**or specifier to select:** type 304 stainless steel bird screen **and/or** aluminum insect screen **and/or** type 304 stainless steel insect screen **or** no screen).

Finish shall be standard mill (**or specifier to select:** prime coat **or** 204-R1 clear anodized to a min. depth of 0.4 mil, with 1 year warranty **or** 215-R1 clear anodized to a min. depth of 0.7 mil, with 5 year warranty **or** color anodized; color to be selected from standard Nailor anodizing colors **or** AAMA 2603 thermosetting polyester powder coat, with 1 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** AAMA 2604 high performance polyester powder coat, with 5 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** AAMA 2605 FEVE fluoropolymer powder coat, with 10 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** Kynar 500/Hylar 5000 70% PVDF coating, with 5 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** Kynar 500/Hylar 5000 50% PVDF coating, with 10 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color).

Furnish where indicated on plans **and/or** schedules, blank-off panels fabricated by the louver manufacturer. Blank-off panels to be 0.040" (1.02) thick aluminum sheet (**or specifier to select:** 0.040" [1.02] thick aluminum sheet with 1" [25] insulation **or** 0.040" [1.02] thick aluminum sheet with 2" [51] insulation **or** 20 ga. [1.0] galvanized steel **or** 20 ga. [1.0] galvanized steel with 1" [25] insulation **or** 20 ga. [1.0] galvanized steel with 2" [51] insulation). Blank-off panels to be finished to match louvers.

Performance data must be licensed by AMCA under the AMCA Certified Ratings Program and shall bear the AMCA Certified Ratings seal for water penetration and air performance. Free area, water penetration and pressure drop data submitted shall be equal to or better than specified model. Standard of acceptance: Nailor Industries, Inc. Model 1606JD.

- AMCA LICENSED
- WEATHER RESISTANT
- DRAINABLE HEAD
- CONCEALED DOWNSPOUTS
- LOW PRESSURE DROP

Models:

1604KD 4" (102) Deep

1606KD 6" (152) Deep

Model 1604KD

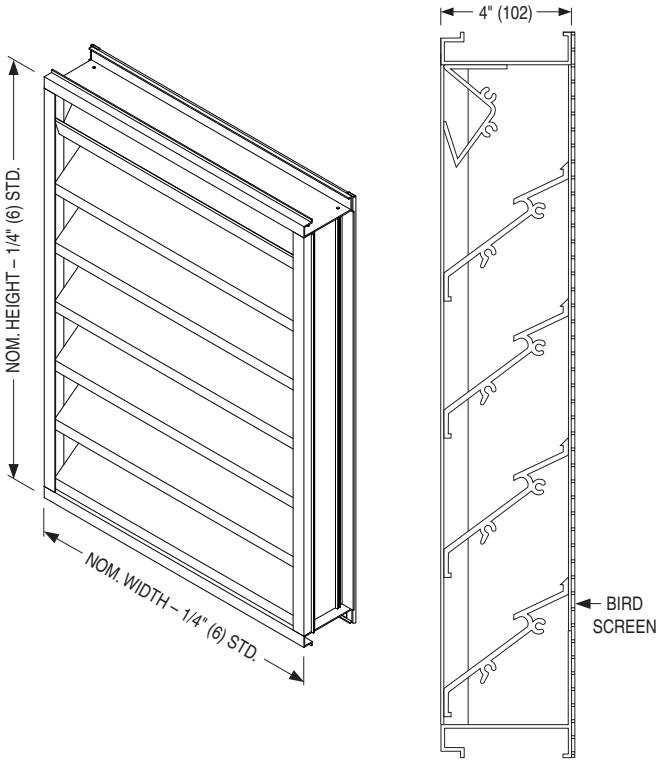
Model 1606KD

Model 1604KD

Model 1604KD combines K style blades with a drainable head that utilizes a top rain gutter with concealed downspouts in the side frame, preventing cascading water running down the building's face from entering into the airstream and infiltrating the space. The blade design features a rear water baffle plus an additional center rain hook, providing additional protection against more forbidding weather. Reinforcing bosses run the full length of each blade for superior strength. Suitable for use in ventilation, exhaust and low to medium velocity intake applications where water penetration is a concern. Available in channel, flanged, or glazing adapter type, the 4" (102) deep frame installs easily in most common wall configurations. Model 1604KD is AMCA Licensed for Water Penetration and Air Performance.

STANDARD CONSTRUCTION:

Frame:	4" (102) deep, Type 6063-T5 extruded aluminum, .080" (2.03) nominal wall thickness. Integral caulking slot provided.
Blades:	Type 6063-T5 extruded aluminum, .080" (2.03) nominal wall thickness, with reinforcing bosses. K style.
Blade Angle:	Fixed at 37 degrees.
Blade Spacing:	Approximately 4" (102) on centers.
Blade Support Brackets:	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 approx. 2" [51] to overall louver depth).
Mullions:	Concealed type allowing continuous line appearance up to 120" (3048) wide. Larger assemblies require separate visible frames with downspouts.
Screen:	3/4" x .051 (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).
Maximum 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.



MODEL 1604KD

COMMON OPTIONS:

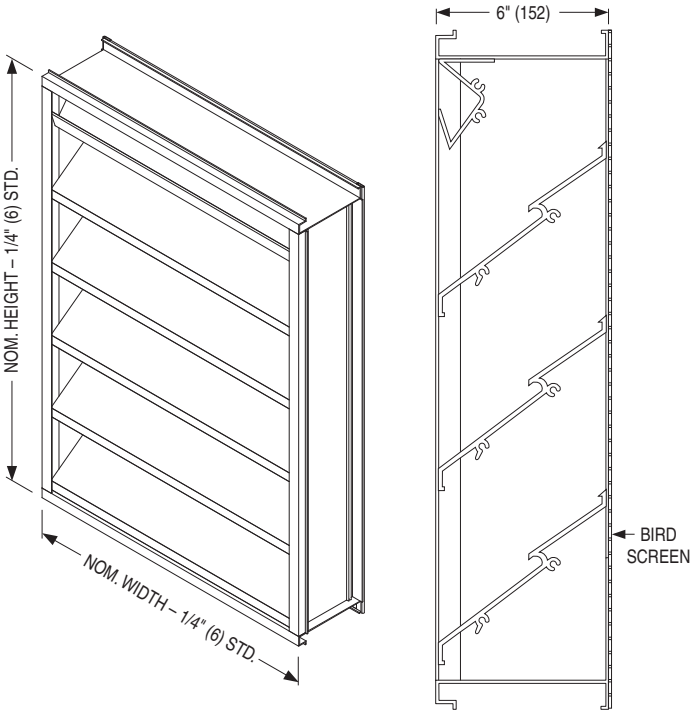
- Flanged or Glazing Adaptor Frame styles.
- Aluminum or Type 304 Stainless Steel Insect Screens.
- Extended Sills.
- Aluminum Installation Clips or Continuous Angles.
- Variety of Standard and High Performance Powder Coat finishes available in a multitude of colors. Custom color matching available.
- Clear or Color Anodized finishes.

Model 1606KD

Model 1606KD blends the aesthetic appeal of a non-drainable blade louver and the higher water penetration protection of a drainable louver. The drainable head feature utilizes a top rain gutter with concealed downspouts in the side frame, efficiently reducing water entrainment in the space. The K style blade design features a rear water baffle plus an additional center rain hook, providing good protection against more forbidding weather conditions. Reinforcing bosses run the full length of each blade for superior strength. Suitable for use in ventilation, exhaust and low to medium velocity intake applications where water penetration is a concern. Available in channel, flanged, or glazing adapter type, the 6" (152) deep frame installs easily in most common wall configurations. Model 1606KD is AMCA Licensed for Water Penetration and Air Performance.

STANDARD CONSTRUCTION:

Frame:	6" (152) deep, Type 6063-T5 extruded aluminum, .080" (2.03) nominal wall thickness. Integral caulking slot provided.
Blades:	Type 6063-T5 extruded aluminum, .080" (2.03) nominal wall thickness, with reinforcing bosses. K style.
Blade Angle:	Fixed at 37 degrees.
Blade Spacing:	Approximately 6" (152) on centers.
Blade Support Brackets:	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 approx. 2" [51] to overall louver depth).
Mullions:	Concealed type allowing continuous line appearance up to 120" (3048) wide. Larger assemblies require separate visible frames with downspouts.
Screen:	3/4" x .051 (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).
Maximum 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.



MODEL 1606KD

COMMON OPTIONS:

- Flanged or Glazing Adaptor Frame styles.
- Aluminum or Type 304 Stainless Steel Insect Screens.
- Extended Sills.
- Aluminum Installation Clips or Continuous Angles.
- Variety of Standard and High Performance Powder Coat finishes available in a multitude of colors. Custom color matching available.
- Clear or Color Anodized finishes.

PERFORMANCE DATA:
MODEL: 1604KD

FREE AREA in Square Feet and Square Meters

Height in Inches and Meters	Width in Inches and Meters																		
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
	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	2.90	3.05
12	**0.21**	**0.34**	**0.47**	**0.60**	**0.73**	**0.85**	**0.98**	**1.11**	**1.24**	**1.37**	**1.49**	**1.62**	**1.75**	**1.88**	**2.01**	**2.13**	**2.26**	**2.39**	**2.52**
0.30	0.02	0.03	0.04	0.06	0.07	0.08	0.09	0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.19	0.20	0.21	0.22	0.23
18	**0.46**	**0.74**	**1.02**	**1.30**	**1.58**	**1.86**	**2.14**	**2.41**	**2.69**	**2.97**	**3.25**	**3.53**	**3.81**	**4.09**	**4.37**	**4.64**	**4.92**	**5.20**	**5.48**
0.46	0.04	0.07	0.09	0.12	0.15	0.17	0.20	0.22	0.25	0.28	0.30	0.33	0.35	0.38	0.41	0.43	0.46	0.48	0.51
24	**0.73**	**1.17**	**1.60**	**2.04**	**2.48**	**2.91**	**3.35**	**3.79**	**4.22**	**4.66**	**5.10**	**5.53**	**5.97**	**6.41**	**6.85**	**7.28**	**7.72**	**8.16**	**8.59**
0.61	0.07	0.11	0.15	0.19	0.23	0.27	0.31	0.35	0.39	0.43	0.47	0.51	0.55	0.60	0.64	0.68	0.72	0.76	0.80
30	**0.93**	**1.49**	**2.05**	**2.61**	**3.17**	**3.74**	**4.30**	**4.86**	**5.42**	**5.98**	**6.54**	**7.10**	**7.66**	**8.22**	**8.78**	**9.34**	**9.90**	**10.46**	**11.02**
0.76	0.09	0.14	0.19	0.24	0.29	0.35	0.40	0.45	0.50	0.56	0.61	0.66	0.71	0.76	0.82	0.87	0.92	0.97	1.02
36	**1.15**	**1.85**	**2.54**	**3.23**	**3.93**	**4.62**	**5.31**	**6.00**	**6.70**	**7.39**	**8.08**	**8.77**	**9.47**	**10.16**	**10.85**	**11.54**	**12.24**	**12.93**	**13.62**
0.91	0.11	0.17	0.24	0.30	0.36	0.43	0.49	0.56	0.62	0.69	0.75	0.82	0.88	0.94	1.01	1.07	1.14	1.20	1.27
42	**1.40**	**2.24**	**3.08**	**3.93**	**4.77**	**5.61**	**6.45**	**7.29**	**8.13**	**8.97**	**9.81**	**10.66**	**11.50**	**12.34**	**13.18**	**14.02**	**14.86**	**15.70**	**16.54**
1.07	0.13	0.21	0.29	0.36	0.44	0.52	0.60	0.68	0.76	0.83	0.91	0.99	1.07	1.15	1.22	1.30	1.38	1.46	1.54
48	**1.62**	**2.59**	**3.56**	**4.53**	**5.50**	**6.48**	**7.51**	**8.42**	**9.39**	**10.36**	**11.33**	**12.30**	**13.28**	**14.25**	**15.22**	**16.19**	**17.16**	**18.13**	**19.10**
1.22	0.15	0.24	0.33	0.42	0.51	0.60	0.70	0.78	0.87	0.96	1.05	1.14	1.23	1.32	1.41	1.50	1.59	1.68	1.77
54	**1.84**	**2.95**	**4.06**	**5.16**	**6.27**	**7.37**	**8.48**	**9.58**	**10.69**	**11.80**	**12.90**	**14.01**	**15.11**	**16.22**	**17.33**	**18.43**	**19.54**	**20.64**	**21.75**
1.37	0.17	0.27	0.38	0.48	0.58	0.68	0.79	0.89	0.99	1.10	1.20	1.30	1.40	1.51	1.61	1.71	1.82	1.92	2.02
60	**2.09**	**3.34**	**4.59**	**5.84**	**7.10**	**8.35**	**9.60**	**10.85**	**12.11**	**13.36**	**14.61**	**15.86**	**17.12**	**18.37**	**19.62**	**20.87**	**22.13**	**23.38**	**24.63**
1.52	0.19	0.31	0.43	0.54	0.66	0.78	0.89	1.01	1.12	1.24	1.36	1.47	1.59	1.71	1.82	1.94	2.06	2.17	2.29
66	**2.31**	**3.69**	**5.07**	**6.46**	**7.84**	**9.23**	**10.61**	**12.00**	**13.38**	**14.76**	**16.15**	**17.53**	**18.92**	**20.30**	**21.68**	**23.07**	**24.45**	**25.84**	**27.22**
1.68	0.21	0.34	0.47	0.60	0.73	0.86	0.99	1.11	1.24	1.37	1.50	1.63	1.76	1.89	2.01	2.14	2.27	2.40	2.53
72	**2.55**	**4.08**	**5.62**	**7.15**	**8.68**	**10.21**	**11.74**	**13.27**	**14.80**	**16.34**	**17.87**	**19.40**	**20.93**	**22.46**	**23.99**	**25.53**	**27.06**	**28.59**	**30.12**
1.83	0.24	0.38	0.52	0.66	0.81	0.95	1.09	1.23	1.38	1.52	1.66	1.80	1.94	2.09	2.23	2.37	2.51	2.66	2.80
78	**2.77**	**4.43**	**6.10**	**7.76**	**9.42**	**11.08**	**12.75**	**14.41**	**16.07**	**17.74**	**19.40**	**21.06**	**22.72**	**24.39**	**26.05**	**27.71**	**29.37**	**31.04**	**32.70**
1.98	0.26	0.41	0.57	0.72	0.88	1.03	1.18	1.34	1.49	1.65	1.80	1.96	2.11	2.27	2.42	2.57	2.73	2.88	3.04
84	**2.99**	**4.79**	**6.59**	**8.38**	**10.18**	**11.98**	**13.77**	**15.57**	**17.37**	**19.16**	**20.96**	**22.76**	**24.55**	**26.35**	**28.15**	**29.94**	**31.74**	**33.54**	**35.33**
2.13	0.28	0.45	0.61	0.78	0.95	1.11	1.28	1.45	1.61	1.78	1.95	2.11	2.28	2.45	2.61	2.78	2.95	3.12	3.28
90	**3.24**	**5.18**	**7.12**	**9.07**	**11.01**	**12.95**	**14.90**	**16.84**	**18.78**	**20.72**	**22.67**	**24.61**	**26.55**	**28.49**	**30.44**	**32.38**	**34.32**	**36.27**	**38.21**
2.29	0.30	0.48	0.66	0.84	1.02	1.20	1.38	1.56	1.74	1.93	2.11	2.29	2.47	2.65	2.83	3.01	3.19	3.37	3.55
96	**3.46**	**5.53**	**7.61**	**9.68**	**11.76**	**13.83**	**15.91**	**17.99**	**20.06**	**22.14**	**24.21**	**26.29**	**28.36**	**30.44**	**32.51**	**34.59**	**36.66**	**38.74**	**40.81**
2.44	0.32	0.51	0.71	0.90	1.09	1.29	1.48	1.67	1.86	2.06	2.25	2.44	2.63	2.83	3.02	3.21	3.41	3.60	3.79
102	**3.68**	**5.89**	**8.10**	**10.31**	**12.52**	**14.73**	**16.94**	**19.15**	**21.36**	**23.56**	**25.77**	**27.98**	**30.19**	**32.40**	**34.61**	**36.82**	**39.03**	**41.24**	**43.45**
2.59	0.34	0.55	0.75	0.96	1.16	1.37	1.57	1.78	1.98	2.19	2.39	2.60	2.80	3.01	3.22	3.42	3.63	3.83	4.04
108	**3.92**	**6.28**	**8.63**	**10.99**	**13.34**	**15.69**	**18.05**	**20.40**	**22.76**	**25.11**	**27.46**	**29.82**	**32.17**	**34.53**	**36.88**	**39.23**	**41.59**	**43.94**	**46.30**
2.74	0.36	0.58	0.80	1.02	1.24	1.46	1.68	1.90	2.11	2.33	2.55	2.77	2.99	3.21	3.43	3.64	3.86	4.08	4.30
114	**4.15**	**6.63**	**9.12**	**11.61**	**14.10**	**16.58**	**19.07**	**21.56**	**24.05**	**26.53**	**29.02**	**31.51**	**34.00**	**36.48**	**38.97**	**41.46**	**43.95**	**46.43**	**48.92**
2.90	0.39	0.62	0.85	1.08	1.31	1.54	1.77	2.00	2.23	2.46	2.70	2.93	3.16	3.39	3.62	3.85	4.08	4.31	4.54
120	**4.39**	**7.02**	**9.66**	**12.29**	**14.93**	**17.56**	**20.19**	**22.83**	**25.46**	**28.10**	**30.73**	**33.36**	**36.00**	**38.63**	**41.27**	**43.90**	**46.53**	**49.17**	**51.80**
3.05	0.41	0.65	0.90	1.14	1.39	1.63	1.88	2.12	2.37	2.61	2.85	3.10	3.34	3.59	3.83	4.08	4.32	4.57	4.81

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

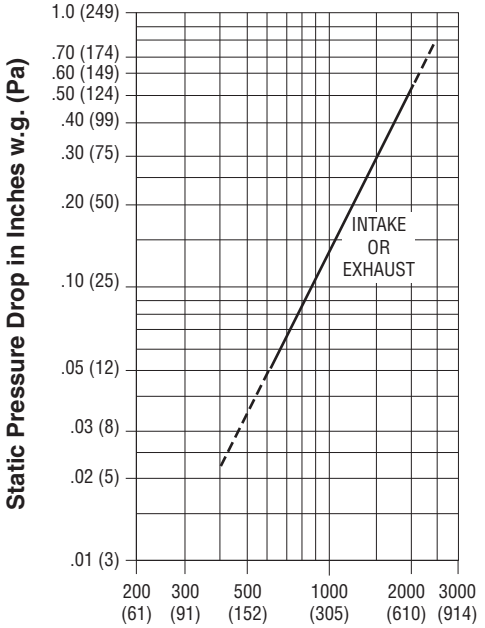
	Model	1604KD
	Free Area %	47%
	Free Area sq. ft. (sq. m.)	7.51 (0.70)
INTAKE	Free Area Velocity at Point of Beginning Water Penetration at .01 oz./sq. ft. (3 ml/sq. m) (15 min. test duration)	892 fpm (272 m/min.)
INTAKE	Air Volume at Free Area Velocity shown	6699 cfm (3161 l/s)
INTAKE	Pressure Drop at Free Area Velocity shown	.11 in. w.g. (27 Pa)

NOTE: To minimize water penetration when sizing intake louvers, select a Free Area Velocity that is **below** the point of beginning water penetration.

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

Nailor Industries Inc. certifies the Model 1604KD, 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. The AMCA Certified Ratings Seal applies to Air Performance 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.

PERFORMANCE DATA:
MODEL: 1606KD

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)	0.18 (0.02)	0.29 (0.03)	0.39 (0.04)	0.50 (0.05)	0.61 (0.06)	0.72 (0.07)	0.82 (0.08)	0.93 (0.09)	1.04 (0.10)	1.15 (0.11)	1.25 (0.12)	1.36 (0.13)	1.47 (0.14)	1.57 (0.15)	1.68 (0.16)	1.79 (0.17)	1.90 (0.18)	2.00 (0.19)	2.11 (0.20)
18 (0.46)	0.44 (0.04)	0.71 (0.07)	0.97 (0.09)	1.24 (0.12)	1.51 (0.14)	1.77 (0.16)	2.04 (0.19)	2.30 (0.21)	2.57 (0.24)	2.84 (0.26)	3.10 (0.29)	3.37 (0.31)	3.63 (0.34)	3.90 (0.36)	4.17 (0.39)	4.43 (0.41)	4.70 (0.44)	4.96 (0.46)	5.23 (0.49)
24 (0.61)	0.68 (0.06)	1.09 (0.10)	1.50 (0.14)	1.92 (0.18)	2.33 (0.22)	2.74 (0.25)	3.15 (0.29)	3.56 (0.33)	3.97 (0.37)	4.38 (0.41)	4.79 (0.44)	5.20 (0.48)	5.61 (0.52)	6.02 (0.56)	6.43 (0.60)	6.84 (0.64)	7.25 (0.67)	7.66 (0.71)	8.07 (0.75)
30 (0.76)	0.9 (0.09)	1.51 (0.14)	2.08 (0.19)	2.64 (0.25)	3.21 (0.30)	3.78 (0.35)	4.35 (0.40)	4.91 (0.46)	5.48 (0.51)	6.05 (0.56)	6.61 (0.61)	7.18 (0.67)	7.75 (0.72)	8.31 (0.77)	8.88 (0.82)	9.45 (0.88)	10.01 (0.93)	10.58 (0.98)	11.15 (1.04)
36 (0.91)	1.21 (0.11)	1.93 (0.18)	2.65 (0.25)	3.38 (0.31)	4.10 (0.38)	4.82 (0.45)	5.55 (0.52)	6.27 (0.58)	6.99 (0.65)	7.72 (0.72)	8.44 (0.78)	9.16 (0.85)	9.89 (0.92)	10.61 (0.99)	11.33 (1.05)	12.06 (1.12)	12.78 (1.19)	13.50 (1.25)	14.23 (1.32)
42 (1.07)	1.47 (0.14)	2.35 (0.22)	3.23 (0.30)	4.11 (0.38)	4.99 (0.46)	5.87 (0.54)	6.75 (0.63)	7.63 (0.71)	8.51 (0.79)	9.39 (0.87)	10.26 (0.95)	11.14 (1.04)	12.02 (1.12)	12.90 (1.20)	13.78 (1.28)	14.66 (1.36)	15.54 (1.44)	16.42 (1.53)	17.30 (1.61)
48 (1.22)	1.73 (0.16)	2.76 (0.26)	3.80 (0.35)	4.84 (0.45)	5.87 (0.55)	6.91 (0.64)	7.93 (0.74)	8.98 (0.83)	10.02 (0.93)	11.06 (1.03)	12.09 (1.12)	13.13 (1.22)	14.17 (1.32)	15.20 (1.41)	16.24 (1.51)	17.28 (1.60)	18.31 (1.70)	19.35 (1.80)	20.39 (1.89)
54 (1.37)	1.99 (0.18)	3.18 (0.30)	4.37 (0.41)	5.57 (0.52)	6.76 (0.63)	7.95 (0.74)	9.15 (0.85)	10.34 (0.96)	11.53 (1.07)	12.72 (1.18)	13.92 (1.29)	15.11 (1.40)	16.30 (1.51)	17.50 (1.63)	18.69 (1.74)	19.88 (1.85)	21.07 (1.96)	22.27 (2.07)	23.46 (2.18)
60 (1.52)	2.25 (0.21)	3.60 (0.33)	4.95 (0.46)	6.30 (0.59)	7.65 (0.71)	9.00 (0.84)	10.35 (0.96)	11.70 (1.09)	13.05 (1.21)	14.40 (1.34)	15.75 (1.46)	17.10 (1.59)	18.45 (1.71)	19.80 (1.84)	21.15 (1.96)	22.50 (2.09)	23.85 (2.22)	25.20 (2.34)	26.55 (2.47)
66 (1.68)	2.51 (0.23)	4.02 (0.37)	5.52 (0.51)	7.03 (0.65)	8.54 (0.79)	10.04 (0.93)	11.55 (1.07)	13.06 (1.21)	14.56 (1.35)	16.07 (1.49)	17.57 (1.63)	19.08 (1.77)	20.59 (1.91)	22.09 (2.05)	23.60 (2.19)	25.11 (2.33)	26.61 (2.47)	28.12 (2.61)	29.63 (2.75)
72 (1.83)	2.77 (0.26)	4.43 (0.41)	6.10 (0.57)	7.76 (0.72)	9.42 (0.88)	11.09 (1.03)	12.75 (1.18)	14.41 (1.34)	16.08 (1.49)	17.74 (1.65)	19.40 (1.80)	21.07 (1.96)	22.73 (2.11)	24.39 (2.27)	26.05 (2.42)	27.72 (2.57)	29.38 (2.73)	31.04 (2.88)	32.71 (3.04)
78 (1.98)	3.03 (0.28)	4.85 (0.45)	6.67 (0.62)	8.49 (0.79)	10.31 (0.96)	12.13 (1.13)	13.95 (1.30)	15.77 (1.46)	17.59 (1.63)	19.41 (1.80)	21.23 (1.97)	23.05 (2.14)	24.87 (2.31)	26.69 (2.48)	28.51 (2.65)	30.33 (2.82)	32.15 (2.99)	33.96 (3.16)	35.78 (3.32)
84 (2.13)	3.29 (0.31)	5.27 (0.49)	7.25 (0.67)	9.22 (0.86)	11.20 (1.04)	13.18 (1.22)	15.15 (1.41)	17.13 (1.59)	19.10 (1.77)	21.08 (1.96)	23.06 (2.14)	25.03 (2.33)	27.01 (2.51)	28.99 (2.69)	30.96 (2.88)	32.94 (3.06)	34.92 (3.24)	36.89 (3.43)	38.87 (3.61)
90 (2.29)	3.56 (0.33)	5.69 (0.53)	7.82 (0.73)	9.95 (0.92)	12.09 (1.12)	14.22 (1.32)	16.35 (1.52)	18.49 (1.72)	20.62 (1.92)	22.75 (2.11)	24.89 (2.31)	27.02 (2.51)	29.15 (2.71)	31.29 (2.91)	33.42 (3.10)	35.55 (3.30)	37.69 (3.50)	39.82 (3.70)	41.95 (3.90)
96 (2.44)	3.82 (0.35)	6.11 (0.57)	8.39 (0.78)	10.68 (0.99)	12.97 (1.21)	15.26 (1.42)	17.55 (1.63)	19.84 (1.84)	22.13 (2.06)	24.42 (2.27)	26.71 (2.48)	29.00 (2.69)	31.29 (2.91)	33.58 (3.12)	35.87 (3.33)	38.16 (3.54)	40.45 (3.76)	42.74 (3.97)	45.03 (4.18)
102 (2.59)	4.08 (0.38)	6.52 (0.61)	8.97 (0.83)	11.42 (1.06)	13.86 (1.29)	16.31 (1.52)	18.75 (1.74)	21.20 (1.97)	23.65 (2.20)	26.09 (2.42)	28.54 (2.65)	30.99 (2.88)	33.43 (3.11)	35.88 (3.33)	38.32 (3.56)	40.77 (3.79)	43.22 (4.01)	45.66 (4.24)	48.11 (4.47)
108 (2.74)	4.34 (0.40)	6.94 (0.64)	9.54 (0.89)	12.14 (1.13)	14.75 (1.37)	17.35 (1.61)	19.95 (1.85)	22.55 (2.10)	25.16 (2.34)	27.76 (2.58)	30.36 (2.82)	32.96 (3.06)	35.57 (3.30)	38.17 (3.55)	40.77 (3.79)	43.37 (4.03)	45.98 (4.27)	48.58 (4.51)	51.18 (4.75)
114 (2.90)	4.70 (0.44)	7.53 (0.70)	10.35 (0.96)	13.17 (1.22)	15.99 (1.49)	18.81 (1.75)	21.63 (2.01)	24.46 (2.27)	27.28 (2.53)	30.10 (2.80)	32.92 (3.06)	35.74 (3.32)	38.57 (3.58)	41.39 (3.84)	44.21 (4.11)	47.03 (4.37)	49.85 (4.63)	52.68 (4.89)	55.50 (5.16)
120 (3.05)	4.86 (0.45)	7.78 (0.72)	10.69 (0.99)	13.61 (1.26)	16.52 (1.54)	19.44 (1.81)	22.35 (2.08)	25.27 (2.35)	28.19 (2.62)	31.10 (2.89)	34.02 (3.16)	36.93 (3.43)	39.85 (3.70)	42.77 (3.97)	45.68 (4.24)	48.60 (4.51)	51.51 (4.79)	54.43 (5.06)	57.35 (5.33)

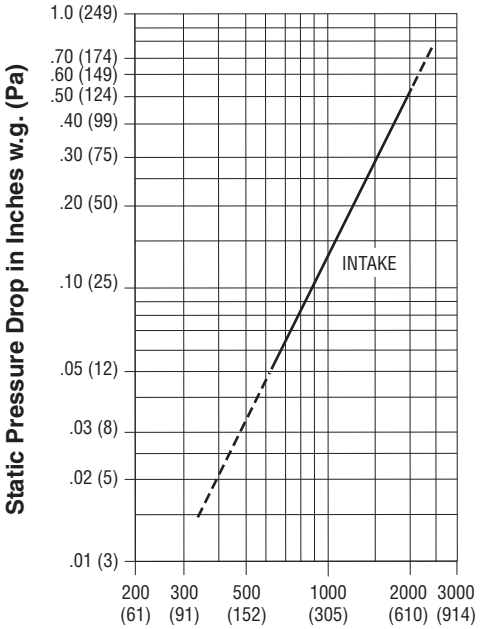
AIRFLOW/ WATER PENETRATION DATA
for 48" x 48" (1219 x 1219) Louver Size

	Model	1606KD
	Free Area %	50%
	Free Area sq. ft. (sq. m.)	7.93 (0.74)
INTAKE	Free Area Velocity at Point of Beginning Water Penetration at .01 oz./sq. ft. (3 ml/sq. m) (15 min. test duration)	1017 fpm (310 m/min.)
INTAKE	Air Volume at Free Area Velocity shown	8065 cfm (3806 l/s)
INTAKE	Pressure Drop at Free Area Velocity shown	.14 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 1606KD, 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. The AMCA Certified Ratings Seal applies to Air Performance 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.

HOW TO SPECIFY

MODEL 1604KD

EXTRUDED ALUMINUM DRAINABLE HEAD LOUVERS

SUGGESTED SPECIFICATION:

Provide and install, as shown on plans and/or schedules, extruded aluminum louvers meeting or exceeding the following criteria: Frame shall be 4" (102) deep channel type (**or specifier to select:** flanged type **or** glazing adapter type), 1/4" (6.3) undersize (**or specifier to select:** exact size **or** 3/8" [9.5] undersize **or** 1/2" [12.7] undersize), with integral caulking slots (and **specifier to select, if required:** extended sill), constructed from ASTM B211 Alloy 6063-T5 extruded aluminum of .080" (2.03) nominal wall thickness. Blades shall be stationary K style, with rear water baffle, center rain hook and reinforcing bosses, constructed from type 6063-T5 extruded aluminum of .080" (2.03) nominal wall thickness, fixed at 37 degrees on approximately 4" (102) centers and shall be supported by angle reinforced concealed brackets as required to withstand a wind force of not less than 25 pounds per square foot (100 miles per hour). Drain gutter in head frame. Concealed downspouts in jambs to drain water from louver for minimum water cascade from blade to blade. Factory assembled louver components to be mechanically fastened (**or specifier to select:** welded construction). Concealed type mullions for louvers up to 120" (3048) wide allowing continuous line appearance. Large louvers that require multiple sections for shipping shall be constructed with visible frames with downspouts when installed together on site. Louvers shall be equipped with removable 3/4" x .051 (19 x 1.3) expanded, flattened aluminum bird screen (**or specifier to select:** type 304 stainless steel bird screen **and/or** aluminum insect screen **and/or** type 304 stainless steel insect screen **or** no screen).

Finish shall be standard mill (**or specifier to select:** prime coat **or** 204-R1 clear anodized to a min. depth of 0.4 mil, with 1 year warranty **or** 215-R1 clear anodized to a min. depth of 0.7 mil, with 5 year warranty **or** color anodized; color to be selected from standard Nailor anodizing colors **or** AAMA 2603 thermosetting polyester powder coat, with 1 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** AAMA 2604 high performance polyester powder coat, with 5 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** AAMA 2605 FEVE fluoropolymer powder coat, with 10 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** Kynar 500/Hylar 5000 70% PVDF coating, with 5 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** Kynar 500/Hylar 5000 50% PVDF coating, with 10 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color).

Furnish where indicated on plans and/or schedules, blank-off panels fabricated by the louver manufacturer. Blank-off panels to be 0.040" (1.02) thick aluminum sheet (**or specifier to select:** 0.040" [1.02] thick aluminum sheet with 1" [25] insulation **or** 0.040" [1.02] thick aluminum sheet with 2" [51] insulation **or** 20 ga. [1.0] galvanized steel **or** 20 ga. [1.0] galvanized steel with 1" [25] insulation **or** 20 ga. [1.0] galvanized steel with 2" [51] insulation). Blank-off panels to be finished to match louvers.

Performance data must be licensed by AMCA under the AMCA 511 Certified Ratings Program and shall bear the AMCA Certified Ratings seal for water penetration and air performance. Free area, water penetration and pressure drop data submitted shall be equal to or better than specified model. Standard of acceptance: Nailor Industries, Inc. Model 1604KD.

MODEL 1606KD

EXTRUDED ALUMINUM DRAINABLE HEAD LOUVERS

SUGGESTED SPECIFICATION:

Provide and install, as shown on plans and/or schedules, extruded aluminum louvers meeting or exceeding the following criteria: Frame shall be 6" (152) deep channel type (**or specifier to select:** flanged type **or** glazing adapter type), 1/4" (6.3) undersize (**or specifier to select:** exact size **or** 3/8" [9.5] undersize **or** 1/2" [12.7] undersize), with integral caulking slots (and **specifier to select, if required:** extended sill), constructed from ASTM B211 Alloy 6063-T5 extruded aluminum of .080" (2.03) nominal wall thickness. Blades shall be stationary K style, with rear water baffle, center rain hook and reinforcing bosses, constructed from type 6063-T5 extruded aluminum of .080" (2.03) nominal wall thickness, fixed at 37 degrees on approximately 6" (152) centers and shall be supported by angle reinforced concealed brackets as required to withstand a wind force of not less than 25 pounds per square foot (100 miles per hour). Drain gutter in head frame. Concealed downspouts in jambs to drain water from louver for minimum water cascade from blade to blade. Factory assembled louver components to be mechanically fastened (**or specifier to select:** welded construction). Concealed type mullions for louvers up to 120" (3048) wide allowing continuous line appearance. Large louvers that require multiple sections for shipping shall be constructed with visible frames with downspouts when installed together on site. Louvers shall be equipped with removable 3/4" x .051 (19 x 1.3) expanded, flattened aluminum bird screen (**or specifier to select:** type 304 stainless steel bird screen **and/or** aluminum insect screen **and/or** type 304 stainless steel insect screen **or** no screen.

Finish shall be standard mill (**or specifier to select:** prime coat **or** 204-R1 clear anodized to a min. depth of 0.4 mil, with 1 year warranty **or** 215-R1 clear anodized to a min. depth of 0.7 mil, with 5 year warranty **or** color anodized; color to be selected from standard Nailor anodizing colors **or** AAMA 2603 thermosetting polyester powder coat, with 1 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** AAMA 2604 high performance polyester powder coat, with 5 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** AAMA 2605 FEVE fluoropolymer powder coat, with 10 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** Kynar 500/Hylar 5000 70% PVDF coating, with 5 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** Kynar 500/Hylar 5000 50% PVDF coating, with 10 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color).

Furnish where indicated on plans and/or schedules, blank-off panels fabricated by the louver manufacturer. Blank-off panels to be 0.040" (1.02) thick aluminum sheet (**or specifier to select:** 0.040" [1.02] thick aluminum sheet with 1" [25] insulation **or** 0.040" [1.02] thick aluminum sheet with 2" [51] insulation **or** 20 ga. [1.0] galvanized steel **or** 20 ga. [1.0] galvanized steel with 1" [25] insulation **or** 20 ga. [1.0] galvanized steel with 2" [51] insulation). Blank-off panels to be finished to match louvers.

Performance data must be licensed by AMCA under the AMCA 511 Certified Ratings Program and shall bear the AMCA Certified Ratings seal for water penetration and air performance. Free area, water penetration and pressure drop data submitted shall be equal to or better than specified model. Standard of acceptance: Nailor Industries, Inc. Model 1606KD.

EXTRUDED ALUMINUM • DRAINABLE BLADE

Nailor

- AMCA LICENSED
- DRAINABLE HEAD AND BLADE
- CONCEALED DOWNSPOUTS
- HIGH PERFORMANCE
- LOW PRESSURE DROP

Models:

1604D 4" (102) Deep
1606D 6" (152) Deep

Model 1604D

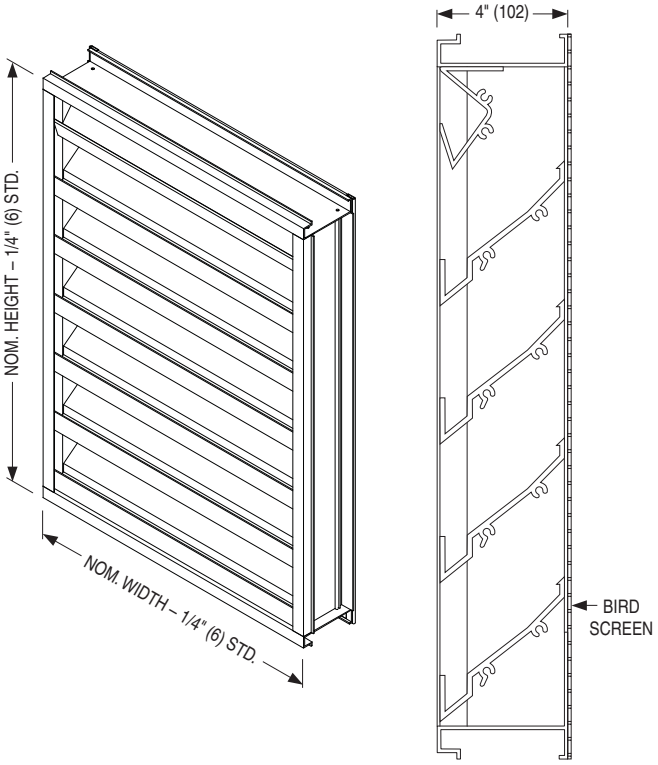
Model 1606D

Model 1604D

Model 1604D is engineered to deliver excellent weather protection in foul weather conditions with great air performance and pleasing aesthetics that compliment any structure's exterior styling. The drainable head feature is enhanced by the drainable blade design which utilizes additional rain gutters that divert collected water through concealed side downspouts and out the sill, effectively preventing water cascading down the building's face from infiltrating the space. Blades are reinforced with full length integral bosses for superior strength. Suitable for use in exhaust and low to medium velocity intake applications where water penetration concerns are a top priority. Available in channel, flanged, or glazing adapter type, the 4" (102) deep frame installs easily in most common wall configurations. Model 1604D is AMCA Licensed for Water Penetration and Air Performance.

STANDARD CONSTRUCTION:

Frame:	4" (102) deep, Type 6063-T5 extruded aluminum, .080" (2.03) nominal wall thickness. Integral downspouts and caulking slot provided.
Blades:	Type 6063-T5 extruded aluminum, .080" (2.03) nominal wall thickness, with reinforcing bosses.
Blade Angle:	Fixed at 37 degrees.
Blade Spacing:	Approximately 4" (102) on centers.
Blade Support Brackets:	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 approx. 2" [51] to overall louver depth).
Mullions:	Concealed type allowing continuous line appearance up to 120" (3048) wide. Larger assemblies require separate visible frames with downspouts.
Screen:	3/4" x .051 (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).
Maximum 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.



MODEL 1604D

COMMON OPTIONS:

- Flanged or Glazing Adaptor Frame styles.
- Aluminum or Type 304 Stainless Steel Insect Screens.
- Extended Sills.
- Aluminum Installation Clips or Continuous Angles.
- Variety of Standard and High Performance Powder Coat finishes available in a multitude of colors. Custom color matching available.
- Clear or Color Anodized finishes.

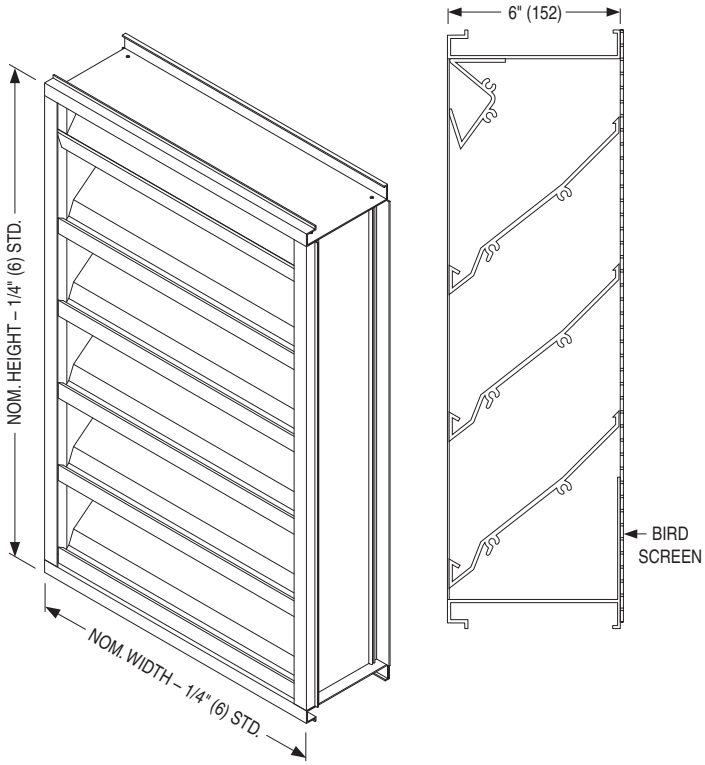
amca WORLDWIDE CERTIFIED RATINGS
WATER PENETRATION
AIR PERFORMANCE
AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC.
www.amca.org

Model 1606D

Model 1606D is designed to provide excellent weather protection in non-wind driven rain conditions with great air performance and pleasing aesthetics that compliment any structure's exterior styling. The drainable head feature is enhanced by the drainable blade design which utilizes additional rain gutters that divert collected water through concealed side downspouts and out the sill, effectively preventing water from infiltrating the space. Blades are reinforced with full length integral bosses for superior strength. Suitable for use in exhaust and low to medium velocity intake applications where water penetration concerns are a priority. Available in channel, flanged, or glazing adapter type, the 6" (152) deep frame installs easily in most common wall configurations. Model 1606D is AMCA Licensed for Water Penetration and Air Performance.

STANDARD CONSTRUCTION:

Frame:	6" (152) deep, Type 6063-T5 extruded aluminum, .080" (2.03) nominal wall thickness. Integral downspouts and caulking slot provided.
Blades:	Type 6063-T5 extruded aluminum, .080" (2.03) nominal wall thickness, with reinforcing bosses.
Blade Angle:	Fixed at 37/45 degrees.
Blade Spacing:	Approximately 5 1/2" (140) on centers.
Blade Support Brackets:	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 approx. 2" [51] to overall louver depth).
Mullions:	Concealed type allowing continuous line appearance up to 120" (3048) wide. Larger assemblies require separate visible frames with downspouts.
Screen:	3/4" x .051 (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).
Maximum 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.



MODEL 1606D

COMMON OPTIONS:

- Flanged or Glazing Adaptor Frame styles.
- Aluminum or Type 304 Stainless Steel Insect Screens.
- Extended Sills.
- Aluminum Installation Clips or Continuous Angles.
- Variety of Standard and High Performance Powder Coat finishes available in a multitude of colors. Custom color matching available.
- Clear or Color Anodized finishes.

PERFORMANCE DATA:
MODEL: 1604D

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	**0.31** 0.03	**0.50** 0.05	**0.68** 0.06	**0.87** 0.08	**1.06** 0.10	**1.24** 0.12	**1.43** 0.13	**1.62** 0.15	**1.80** 0.17	**1.99** 0.18	**2.18** 0.20	**2.36** 0.22	**2.55** 0.24	**2.74** 0.25	**2.92** 0.27	**3.11** 0.29	**3.30** 0.31	**3.48** 0.32	**3.67** 0.34
18 0.46	**0.54** 0.05	**0.87** 0.08	**1.20** 0.11	**1.52** 0.14	**1.85** 0.17	**2.18** 0.20	**2.50** 0.23	**2.83** 0.26	**3.16** 0.29	**3.48** 0.32	**3.81** 0.35	**4.14** 0.38	**4.47** 0.41	**4.79** 0.45	**5.12** 0.48	**5.45** 0.51	**5.77** 0.54	**6.10** 0.57	**6.43** 0.60
24 0.61	**0.78** 0.07	**1.24** 0.12	**1.71** 0.16	**2.18** 0.20	**2.64** 0.25	**3.11** 0.29	**3.58** 0.33	**4.04** 0.38	**4.51** 0.42	**4.98** 0.46	**5.44** 0.51	**5.91** 0.55	**6.38** 0.59	**6.85** 0.64	**7.31** 0.68	**7.78** 0.72	**8.25** 0.77	**8.71** 0.81	**9.18** 0.85
30 0.76	**1.06** 0.10	**1.69** 0.16	**2.33** 0.22	**2.97** 0.28	**3.60** 0.33	**4.24** 0.39	**4.87** 0.45	**5.51** 0.51	**6.14** 0.57	**6.78** 0.63	**7.41** 0.69	**8.05** 0.75	**8.69** 0.81	**9.32** 0.87	**9.96** 0.92	**10.59** 0.98	**11.23** 1.04	**11.86** 1.10	**12.50** 1.16
36 0.91	**1.29** 0.12	**2.07** 0.19	**2.84** 0.26	**3.62** 0.34	**4.39** 0.41	**5.17** 0.48	**5.95** 0.55	**6.72** 0.62	**7.50** 0.70	**8.27** 0.77	**9.05** 0.84	**9.82** 0.91	**10.60** 0.98	**11.37** 1.06	**12.15** 1.13	**12.93** 1.20	**13.70** 1.27	**14.48** 1.34	**15.25** 1.42
42 1.07	**1.57** 0.15	**2.52** 0.23	**3.46** 0.32	**4.41** 0.41	**5.35** 0.50	**6.30** 0.58	**7.24** 0.67	**8.18** 0.76	**9.13** 0.85	**10.07** 0.94	**11.02** 1.02	**11.96** 1.11	**12.91** 1.20	**13.85** 1.29	**14.79** 1.37	**15.74** 1.46	**16.68** 1.55	**17.63** 1.64	**18.57** 1.73
48 1.22	**1.81** 0.17	**2.89** 0.27	**3.98** 0.37	**5.06** 0.47	**6.14** 0.57	**7.23** 0.67	**8.26** 0.77	**9.40** 0.87	**10.48** 0.97	**11.57** 1.07	**12.65** 1.18	**13.74** 1.28	**14.82** 1.38	**15.90** 1.48	**16.99** 1.58	**18.07** 1.68	**19.16** 1.78	**20.24** 1.88	**21.33** 1.98
54 1.37	**2.04** 0.19	**3.27** 0.30	**4.49** 0.42	**5.71** 0.53	**6.94** 0.64	**8.16** 0.76	**9.39** 0.87	**10.61** 0.99	**11.84** 1.10	**13.06** 1.21	**14.28** 1.33	**15.51** 1.44	**16.73** 1.55	**17.96** 1.67	**19.18** 1.78	**20.41** 1.90	**21.63** 2.01	**22.86** 2.12	**24.08** 2.24
60 1.52	**2.32** 0.22	**3.72** 0.35	**5.11** 0.47	**6.50** 0.60	**7.89** 0.73	**9.29** 0.86	**10.68** 0.99	**12.07** 1.12	**13.47** 1.25	**14.86** 1.38	**16.25** 1.51	**17.65** 1.64	**19.04** 1.77	**20.43** 1.90	**21.83** 2.03	**23.22** 2.16	**24.61** 2.29	**26.01** 2.42	**27.40** 2.55
66 1.68	**2.56** 0.24	**4.09** 0.38	**5.62** 0.52	**7.15** 0.66	**8.69** 0.81	**10.22** 0.95	**11.75** 1.09	**13.29** 1.23	**14.82** 1.38	**16.35** 1.52	**17.89** 1.66	**19.42** 1.80	**20.95** 1.95	**22.49** 2.09	**24.02** 2.23	**25.55** 2.37	**27.09** 2.52	**28.62** 2.66	**30.15** 2.80
72 1.83	**2.84** 0.26	**4.54** 0.42	**6.24** 0.58	**7.94** 0.74	**9.64** 0.90	**11.35** 1.05	**13.05** 1.21	**14.75** 1.37	**16.45** 1.53	**18.15** 1.69	**19.86** 1.84	**21.56** 2.00	**23.26** 2.16	**24.96** 2.32	**26.66** 2.48	**28.37** 2.64	**30.07** 2.79	**31.77** 2.95	**33.47** 3.11
78 1.98	**3.07** 0.29	**4.91** 0.46	**6.75** 0.63	**8.60** 0.80	**10.44** 0.97	**12.28** 1.14	**14.12** 1.31	**15.96** 1.48	**17.81** 1.65	**19.65** 1.83	**21.49** 2.00	**23.33** 2.17	**25.17** 2.34	**27.02** 2.51	**28.86** 2.68	**30.70** 2.85	**32.54** 3.02	**34.38** 3.19	**36.23** 3.37
84 2.13	**3.30** 0.31	**5.29** 0.49	**7.27** 0.68	**9.25** 0.86	**11.23** 1.04	**13.21** 1.23	**15.20** 1.41	**17.18** 1.60	**19.16** 1.78	**21.14** 1.96	**23.12** 2.15	**25.11** 2.33	**27.09** 2.52	**29.07** 2.70	**31.05** 2.88	**33.03** 3.07	**35.02** 3.25	**37.00** 3.44	**38.98** 3.62
90 2.29	**3.58** 0.33	**5.74** 0.53	**7.89** 0.73	**10.04** 0.93	**12.19** 1.13	**14.34** 1.33	**16.49** 1.53	**18.64** 1.73	**20.79** 1.93	**22.94** 2.13	**25.09** 2.33	**27.24** 2.53	**29.39** 2.73	**31.55** 2.93	**33.70** 3.13	**35.85** 3.33	**38.00** 3.53	**40.15** 3.73	**42.30** 3.93
96 2.44	**3.82** 0.35	**6.11** 0.57	**8.40** 0.78	**10.69** 0.99	**12.98** 1.21	**15.27** 1.42	**17.56** 1.63	**19.85** 1.84	**22.15** 2.06	**24.44** 2.27	**26.73** 2.48	**29.02** 2.70	**31.31** 2.91	**33.60** 3.12	**35.89** 3.33	**38.18** 3.55	**40.47** 3.76	**42.76** 3.97	**45.05** 4.19
102 2.59	**4.10** 0.38	**6.56** 0.61	**9.02** 0.84	**11.48** 1.07	**13.94** 1.29	**16.40** 1.52	**18.86** 1.75	**21.32** 1.98	**23.78** 2.21	**26.24** 2.44	**28.70** 2.67	**31.16** 2.89	**33.62** 3.12	**36.08** 3.35	**38.53** 3.58	**40.99** 3.81	**43.45** 4.04	**45.91** 4.27	**48.37** 4.49
108 2.74	**4.33** 0.40	**6.93** 0.64	**9.53** 0.89	**12.13** 1.13	**14.73** 1.37	**17.33** 1.61	**19.93** 1.85	**22.53** 2.09	**25.13** 2.33	**27.73** 2.58	**30.33** 2.82	**32.93** 3.06	**35.53** 3.30	**38.13** 3.54	**40.73** 3.78	**43.33** 4.03	**45.93** 4.27	**48.53** 4.51	**51.53** 4.75
114 2.90	**4.57** 0.42	**7.31** 0.68	**1005** 0.93	**12.79** 1.19	**15.53** 1.44	**18.26** 1.70	**21.00** 1.95	**23.74** 2.21	**26.48** 2.46	**29.22** 2.71	**31.96** 2.97	**34.70** 3.22	**37.44** 3.48	**40.18** 3.73	**42.92** 3.99	**45.66** 4.24	**48.40** 4.50	**51.14** 4.75	**53.88** 5.01
120 3.05	**4.85** 0.45	**7.76** 0.72	**10.66** 0.99	**13.57** 1.26	**16.48** 1.53	**19.39** 1.80	**22.30** 2.07	**25.21** 2.34	**28.12** 2.61	**31.02** 2.88	**33.93** 3.15	**36.84** 3.42	**39.75** 3.69	**42.66** 3.96	**45.57** 4.23	**48.48** 4.50	**51.38** 4.77	**54.29** 5.04	**57.20** 5.31

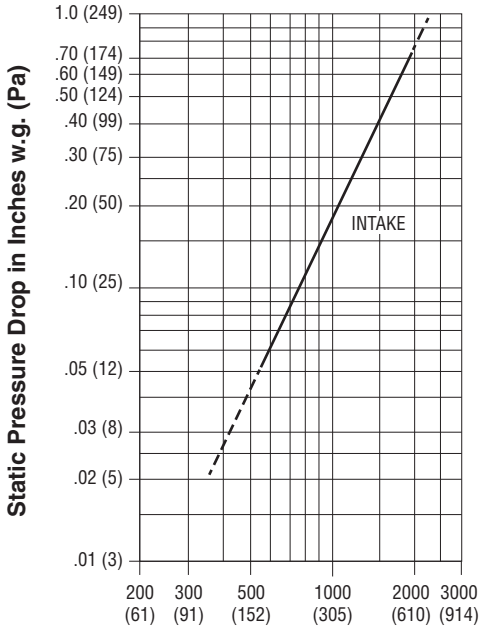
AIRFLOW/WATER PENETRATION DATA
for 48" x 48" (1219 x 1219) Louver Size

	Model	1604D
	Free Area %	52%
	Free Area sq. ft. (sq. m.)	8.26 (0.77)
INTAKE	Free Area Velocity at Point of Beginning Water Penetration at .01 oz./sq. ft. (3 ml/sq. m) (15 min. test duration)	906 fpm (272 m/min.)
INTAKE	Air Volume at Free Area Velocity shown	7484 cfm (3532 l/s)
INTAKE	Pressure Drop at Free Area Velocity shown	.15 in. w.g. (37 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 1604D, 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. The AMCA Certified Ratings Seal applies to Air Performance 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.

PERFORMANCE DATA:
MODEL: 1606D

FREE AREA in Square Feet and Square Meters

Height in Inches and Meters	Width in Inches and Meters																		
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
	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	2.90	3.05
12	**0.24**	**0.39**	**0.54**	**0.70**	**0.85**	**1.00**	**1.15**	**1.30**	**1.45**	**1.60**	**1.75**	**1.90**	**2.05**	**2.20**	**2.36**	**2.51**	**2.66**	**2.81**	**2.96**
0.30	0.02	0.04	0.05	0.06	0.08	0.09	0.11	0.12	0.13	0.15	0.16	0.18	0.19	0.20	0.22	0.23	0.25	0.26	0.27
18	**0.41**	**0.67**	**0.93**	**1.19**	**1.45**	**1.70**	**1.96**	**2.22**	**2.48**	**2.74**	**2.99**	**3.25**	**3.51**	**3.77**	**4.03**	**4.28**	**4.54**	**4.80**	**5.06**
0.46	0.04	0.06	0.09	0.11	0.13	0.16	0.18	0.21	0.23	0.25	0.28	0.30	0.33	0.35	0.37	0.40	0.42	0.45	0.47
24	**0.68**	**1.10**	**1.53**	**1.95**	**2.38**	**2.80**	**3.23**	**3.65**	**4.07**	**4.50**	**4.92**	**5.35**	**5.77**	**6.20**	**6.62**	**7.04**	**7.47**	**7.89**	**8.32**
0.61	0.06	0.10	0.14	0.18	0.22	0.26	0.30	0.34	0.38	0.42	0.46	0.50	0.54	0.58	0.61	0.65	0.69	0.73	0.77
30	**0.93**	**1.51**	**2.09**	**2.67**	**3.25**	**3.83**	**4.40**	**4.98**	**5.56**	**6.14**	**6.72**	**7.30**	**7.88**	**8.46**	**9.04**	**9.62**	**10.20**	**10.78**	**11.35**
0.76	0.09	0.14	0.19	0.25	0.30	0.36	0.41	0.46	0.52	0.57	0.62	0.68	0.73	0.79	0.84	0.89	0.95	1.00	1.05
36	**1.09**	**1.77**	**2.45**	**3.13**	**3.81**	**4.49**	**5.17**	**5.85**	**6.53**	**7.21**	**7.89**	**8.58**	**9.26**	**9.94**	**10.62**	**11.30**	**11.98**	**12.66**	**13.34**
0.36	0.10	0.16	0.23	0.29	0.35	0.42	0.48	0.54	0.61	0.67	0.73	0.80	0.86	0.92	0.99	1.05	1.11	1.18	1.24
42	**1.44**	**2.34**	**3.23**	**4.13**	**5.03**	**5.92**	**6.82**	**7.72**	**8.61**	**9.51**	**10.41**	**11.30**	**12.20**	**13.10**	**13.99**	**14.89**	**15.79**	**16.68**	**17.58**
1.07	0.13	0.22	0.30	0.38	0.47	0.55	0.63	0.72	0.80	0.88	0.97	1.05	1.13	1.22	1.30	1.38	1.47	1.55	1.63
48	**1.69**	**2.74**	**3.79**	**4.84**	**5.89**	**6.94**	**7.99**	**9.05**	**10.10**	**11.15**	**12.20**	**13.25**	**14.30**	**15.35**	**16.40**	**17.46**	**18.51**	**19.56**	**20.61**
1.22	0.16	0.25	0.35	0.45	0.55	0.65	0.74	0.84	0.94	1.04	1.13	1.23	1.33	1.43	1.52	1.62	1.72	1.82	1.91
54	**1.94**	**3.15**	**4.36**	**5.57**	**6.78**	**7.99**	**9.20**	**10.41**	**11.62**	**12.83**	**14.04**	**15.25**	**16.46**	**17.67**	**18.88**	**20.09**	**21.30**	**22.51**	**23.72**
1.37	0.18	0.29	0.41	0.52	0.63	0.74	0.85	0.97	1.08	1.19	1.30	1.42	1.53	1.64	1.75	1.87	1.98	2.09	2.20
60	**2.19**	**3.56**	**4.93**	**6.30**	**7.67**	**9.04**	**10.40**	**11.77**	**13.14**	**14.51**	**15.88**	**17.24**	**18.61**	**19.98**	**21.35**	**22.72**	**24.08**	**25.45**	**26.82**
1.52	0.20	0.33	0.46	0.59	0.71	0.84	0.97	1.09	1.22	1.35	1.47	1.60	1.73	1.86	1.98	2.11	2.24	2.36	2.49
66	**2.45**	**3.98**	**5.50**	**7.03**	**8.55**	**10.08**	**11.61**	**13.13**	**14.66**	**16.19**	**17.71**	**19.24**	**20.77**	**22.29**	**23.82**	**25.34**	**26.87**	**28.40**	**29.92**
1.68	0.23	0.37	0.51	0.65	0.79	0.94	1.08	1.22	1.36	1.50	1.65	1.79	1.93	2.07	2.21	2.35	2.50	2.64	2.78
72	**2.70**	**4.39**	**6.07**	**7.76**	**9.45**	**11.13**	**12.82**	**14.50**	**16.19**	**17.87**	**19.56**	**21.24**	**22.93**	**24.61**	**26.30**	**27.98**	**29.67**	**31.36**	**33.04**
1.83	0.25	0.41	0.56	0.72	0.88	1.03	1.19	1.35	1.50	1.66	1.82	1.97	2.13	2.29	2.44	2.60	2.76	2.91	3.07
78	**2.96**	**4.80**	**6.65**	**8.49**	**10.33**	**12.18**	**14.02**	**15.86**	**17.71**	**19.55**	**21.40**	**23.24**	**25.08**	**26.93**	**28.77**	**30.61**	**32.46**	**34.30**	**36.14**
1.98	0.27	0.45	0.62	0.79	0.96	1.13	1.30	1.47	1.65	1.82	1.99	2.16	2.33	2.50	2.67	2.84	3.02	3.19	3.36
84	**3.21**	**5.22**	**7.22**	**9.22**	**11.22**	**13.23**	**15.23**	**17.23**	**19.23**	**21.24**	**23.24**	**25.24**	**27.24**	**29.25**	**31.25**	**33.25**	**35.25**	**37.26**	**39.26**
2.13	0.30	0.48	0.67	0.86	1.04	1.23	1.41	1.60	1.79	1.97	2.16	2.34	2.53	2.72	2.90	3.09	3.28	3.46	3.65
90	**3.47**	**5.63**	**7.79**	**9.95**	**12.11**	**14.27**	**16.44**	**18.60**	**20.76**	**22.96**	**25.08**	**27.24**	**29.40**	**31.57**	**33.73**	**35.89**	**38.05**	**40.21**	**42.37**
2.29	0.32	0.52	0.72	0.92	1.13	1.33	1.53	1.73	1.93	2.13	2.33	2.53	2.73	2.93	3.13	3.33	3.53	3.74	3.94
96	**3.72**	**6.04**	**8.36**	**10.68**	**13.00**	**15.32**	**17.64**	**19.96**	**22.29**	**24.61**	**26.93**	**29.25**	**31.57**	**33.89**	**36.21**	**38.53**	**40.85**	**43.17**	**45.49**
2.44	0.35	0.56	0.78	0.99	1.21	1.42	1.64	1.85	2.07	2.29	2.50	2.72	2.93	3.15	3.36	3.58	3.79	4.01	4.23
102	**3.98**	**6.46**	**8.94**	**11.41**	**13.89**	**16.37**	**18.85**	**21.33**	**23.81**	**26.29**	**28.77**	**31.25**	**33.73**	**36.20**	**38.68**	**41.16**	**43.64**	**46.12**	**48.60**
2.59	0.37	0.60	0.83	1.06	1.29	1.52	1.75	1.98	2.21	2.44	2.67	2.90	3.13	3.36	3.59	3.82	4.05	4.28	4.51
108	**4.23**	**6.87**	**9.51**	**12.15**	**14.78**	**17.42**	**20.06**	**22.70**	**25.33**	**27.97**	**30.61**	**33.25**	**35.89**	**38,52**	**41.16**	**43.80**	**46.44**	**49.08**	**51.71**
2.74	0.39	0.64	0.88	1.13	1.37	1.62	1.86	2.11	2.35	2.60	2.84	3.09	3.33	3.58	3.82	4.07	4.31	4.56	4.80
114	**4.51**	**7.31**	**10.12**	**12.93**	**15.74**	**18.55**	**21.36**	**24.16**	**26.97**	**29.78**	**32.59**	**35.40**	**38.21**	**41.02**	**43.82**	**46.63**	**49.44**	**52.25**	**55.06**
2.90	0.42	0.68	0.94	1.20	1.46	1.72	1.98	2.24	2.51	2.77	3.03	3.29	3.55	3.81	4.07	4.33	4.59	4.85	5.11
120	**4.74**	**7.70**	**10.66**	**13.61**	**16.57**	**19.52**	**22.48**	**25.44**	**28.39**	**31.35**	**34.31**	**37.26**	**40.22**	**43.17**	**46.13**	**49.09**	**52.04**	**55.00**	**57.96**
3.05	0.44	0.72	0.99	1.26	1.54	1.81	2.09	2.36	2.64	2.91	3.19	3.46	3.74	4.01	4.29	4.56	4.83	5.11	5.38

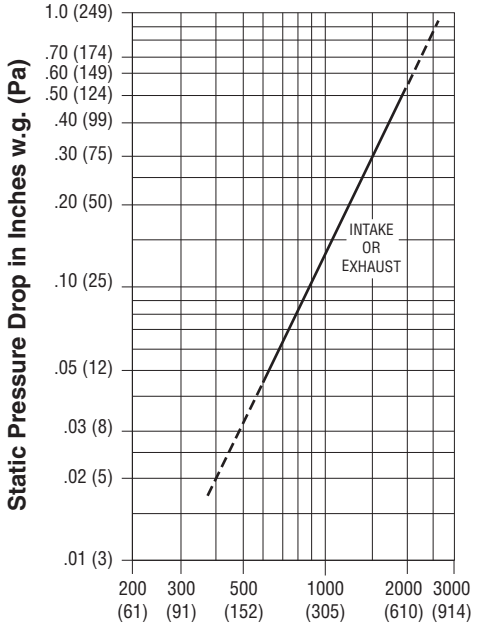
AIRFLOW / WATER PENETRATION DATA
for 48" x 48" (1219 x 1219) Louver Size

	Model	1606D
	Free Area %	50%
	Free Area sq. ft. (sq. m.)	7.99 (0.74)
INTAKE	Free Area Velocity at Point of Beginning Water Penetration at .01 oz./sq. ft. (3 ml/sq. m) (15 min. test duration)	1195 fpm (364 m/min.)
INTAKE	Air Volume at Free Area Velocity shown	9452 cfm (4460 l/s)
INTAKE	Pressure Drop at Free Area Velocity shown	.18 in. w.g. (45 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 1606D, 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. The AMCA Certified Ratings Seal applies to Air Performance 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.

HOW TO SPECIFY

MODEL 1604D

EXTRUDED ALUMINUM DRAINABLE BLADE LOUVERS

SUGGESTED SPECIFICATION:

Provide and install, as shown on plans and/or schedules, extruded aluminum louvers meeting or exceeding the following criteria: Frame shall be 4" (102) deep channel type (**or specifier to select:** flanged type **or** glazing adapter type), 1/4" (6.3) undersize (**or specifier to select:** exact size **or** 3/8" [9.5] undersize **or** 1/2" [12.7] undersize), with integral caulking slots (and **specifier to select, if required:** extended sill), constructed from ASTM B211 Alloy 6063-T5 extruded aluminum of .080" (2.03) nominal wall thickness. Blades shall be stationary drainable style, with drain gutter in each blade and gutter in head frame, constructed from type 6063-T5 extruded aluminum of .080" (2.03) nominal wall thickness with reinforcing bosses, fixed at 37 degrees on approximately 4" (102) centers and shall be supported by angle reinforced concealed brackets as required to withstand a wind force of not less than 25 pounds per square foot (100 miles per hour). Concealed downspouts in jambs to drain water from louver for minimum water cascade from blade to blade. Factory assembled louver components to be mechanically fastened (**or specifier to select:** welded construction). Concealed type mullions for louvers up to 120" (3048) wide allowing continuous line appearance. Large louvers that require multiple sections for shipping shall be constructed with visible frames with downspouts when installed together on site. Louvers shall be equipped with removable 3/4" x .051 (19 x 1.3) expanded, flattened aluminum bird screen (**or specifier to select:** type 304 stainless steel bird screen **and/or** aluminum insect screen **and/or** type 304 stainless steel insect screen **or** no screen).

Finish shall be standard mill (**or specifier to select:** prime coat **or** 204-R1 clear anodized to a min. depth of 0.4 mil, with 1 year warranty **or** 215-R1 clear anodized to a min. depth of 0.7 mil, with 5 year warranty **or** color anodized; color to be selected from standard Nailor anodizing colors **or** AAMA 2603 thermosetting polyester powder coat, with 1 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** AAMA 2604 high performance polyester powder coat, with 5 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** AAMA 2605 FEVE fluoropolymer powder coat, with 10 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** Kynar 500/Hylar 5000 70% PVDF coating, with 5 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** Kynar 500/Hylar 5000 50% PVDF coating, with 10 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color).

Furnish where indicated on plans and/or schedules, blank-off panels fabricated by the louver manufacturer. Blank-off panels to be 0.040" (1.02) thick aluminum sheet (**or specifier to select:** 0.040" [1.0] thick aluminum sheet with 1" [25] insulation **or** 0.040" [1.02] thick aluminum sheet with 2" [51] insulation **or** 20 ga. [1.0] galvanized steel **or** 20 ga. [1.0] galvanized steel with 1" [25] insulation **or** 20 ga. [1.0] galvanized steel with 2" [51] insulation). Blank-off panels to be finished to match louvers.

Performance data must be licensed by AMCA under the AMCA 511 Certified Ratings Program and shall bear the AMCA Certified Ratings seal for water penetration and air performance. Free area, water penetration and pressure drop data submitted shall be equal to or better than specified model. Standard of acceptance: Nailor Industries, Inc. Model 1604D.

MODEL 1606D

EXTRUDED ALUMINUM DRAINABLE BLADE LOUVERS

SUGGESTED SPECIFICATION:

Provide and install, as shown on plans and/or schedules, extruded aluminum louvers meeting or exceeding the following criteria: Frame shall be 6" (152) deep channel type (**or specifier to select:** flanged type **or** glazing adapter type), 1/4" (6.3) undersize (**or specifier to select:** exact size **or** 3/8" [9.5] undersize **or** 1/2" [12.7] undersize), with integral caulking slots (and **specifier to select, if required:** extended sill), constructed from ASTM B211 Alloy 6063-T5 extruded aluminum of .080" (2.03) nominal wall thickness. Blades shall be stationary drainable style, with drain gutter in each blade and gutter in head frame. Concealed downspouts in jambs to drain water from louver for minimum water cascade from blade to blade. Constructed from type 6063-T5 extruded aluminum of .080" (2.03) nominal wall thickness, fixed at 37/45 degrees on approximately 5 1/2" (140) centers and shall be supported by angle reinforced concealed brackets as required to withstand a wind force of not less than 25 pounds per square foot (100 miles per hour). Factory assembled louver components to be mechanically fastened (**or specifier to select:** welded construction). Concealed type mullions for louvers up to 120" (3048) wide allowing continuous line appearance. Large louvers that require multiple sections for shipping shall be constructed with visible frames with downspouts when installed together on site. Louvers shall be equipped with removable 3/4" x .051 (19 x 1.3) expanded, flattened aluminum bird screen (**or specifier to select:** type 304 stainless steel bird screen **and/or** aluminum insect screen **and/or** type 304 stainless steel insect screen **or** no screen).

Finish shall be standard mill (**or specifier to select:** prime coat **or** 204-R1 clear anodized to a min. depth of 0.4 mil, with 1 year warranty **or** 215-R1 clear anodized to a min. depth of 0.7 mil, with 5 year warranty **or** color anodized; color to be selected from standard Nailor anodizing colors **or** AAMA 2603 thermosetting polyester powder coat, with 1 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** AAMA 2604 high performance polyester powder coat, with 5 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** AAMA 2605 FEVE fluoropolymer powder coat, with 10 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** Kynar 500/Hylar 5000 70% PVDF coating, with 5 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** Kynar 500/Hylar 5000 50% PVDF coating, with 10 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color).

Furnish where indicated on plans and/or schedules, blank-off panels fabricated by the louver manufacturer. Blank-off panels to be 0.040" (1.02) thick aluminum sheet (**or specifier to select:** 0.040" [1.02] thick aluminum sheet with 1" [25] insulation **or** 0.040" [1.02] thick aluminum sheet with 2" [51] insulation **or** 20 ga. [1.0] galvanized steel **or** 20 ga. [1.0] galvanized steel with 1" [25] insulation **or** 20 ga. [1.0] galvanized steel with 2" [51] insulation). Blank-off panels to be finished to match louvers.

Performance data must be licensed by AMCA under the AMCA 511 Certified Ratings Program and shall bear the AMCA Certified Ratings seal for water penetration and air performance. Free area, water penetration and pressure drop data submitted shall be equal to or better than specified model. Standard of acceptance: Nailor Industries, Inc. Model 1606D.

- AMCA LICENSED
- DUAL DRAINABLE BLADE
- DRAINABLE HEAD
- PROTECTS AGAINST HEAVY RAIN
- SUPERIOR PERFORMANCE

Models:

1604DD 4" (102) Deep

1606DD 6" (152) Deep

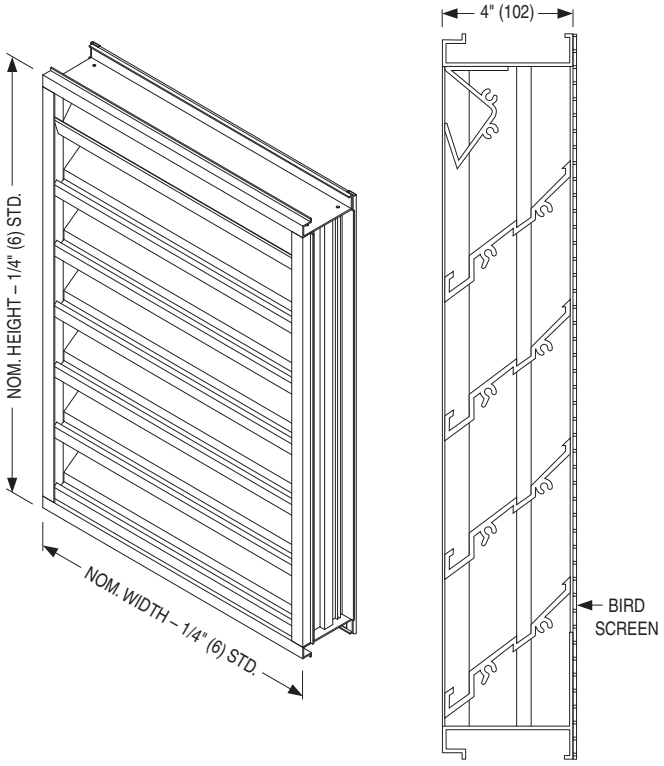
Model 1604DD Model 1606DD

Model 1604DD

Model's 1604DD combines exceptional weather protection during the most enduring non-wind driven rain conditions, great air performance through a large free area and pleasing aesthetics that enhance any structure's exterior design. Complemented by a drainable head, the dual drainable blade design utilizes double rain gutters that divert collected water down concealed side downspouts and out through the sill, preventing water from infiltrating the space. Blades are reinforced with full length integral bosses for superior strength. Suitable for use in exhaust and medium to high velocity intake applications where water penetration concerns are a top priority. Available in channel, flanged, or glazing adapter type, the 4" (102) deep frame installs easily in most common wall configurations. Model 1604DD is AMCA Licensed for Water Penetration and Air Performance.

STANDARD CONSTRUCTION:

Frame:	4" (102) deep, Type 6063-T5 extruded aluminum, .080" (2.03) nominal wall thickness. Integral downspouts and caulking slot provided.
Blades:	Type 6063-T5 extruded aluminum, .080" (2.03) nominal wall thickness, with reinforcing bosses.
Blade Angle:	Fixed at 37 degrees.
Blade Spacing:	Approximately 4" (102) on centers.
Blade Support Brackets:	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 approx. 2" [51] to overall louver depth).
Mullions:	Concealed type allowing continuous line appearance up to 120" (3048) wide. Larger assemblies require separate visible frames with downspouts.
Screen:	3/4" x .051 (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).
Maximum 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.



MODEL 1604DD

COMMON OPTIONS:

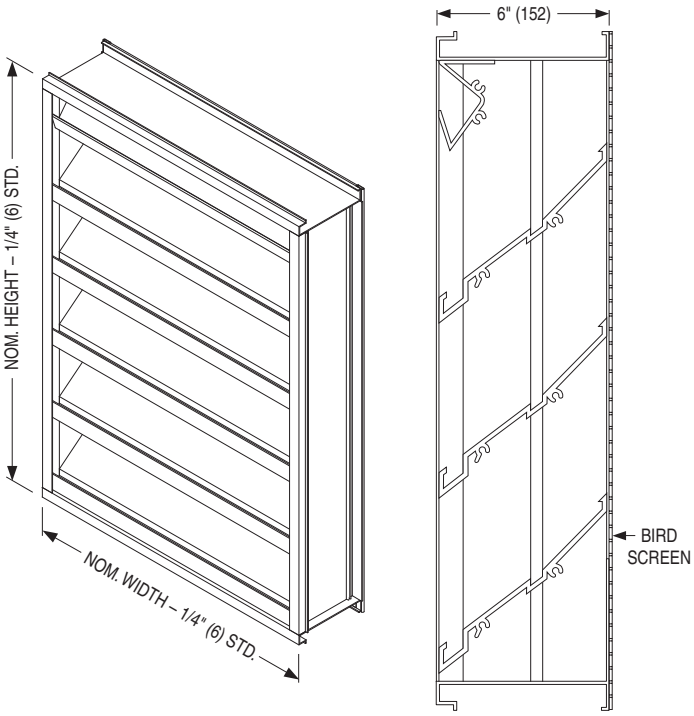
- Flanged or Glazing Adaptor Frame styles.
- Aluminum or Type 304 Stainless Steel Insect Screens.
- Extended Sills.
- Aluminum Installation Clips or Continuous Angles.
- Variety of Standard and High Performance Powder Coat finishes available in a multitude of colors. Custom color matching available.
- Clear or Color Anodized finishes.

Model 1606DD

Model 1606DD combines exceptional weather protection during the most enduring non-wind driven rain conditions, great air performance through a large free area and a clean look that will enhance the exterior of any structure. Complemented by a drainable head, the dual drainable blade design features double rain gutters that divert cascading water running down the building's face down concealed side downspouts and out through the sill, preventing water from infiltrating the space. Blades are reinforced with full length integral bosses for superior strength. Suitable for use in exhaust and medium to high velocity intake applications where water penetration concerns are a top priority. Available in channel, flanged, or glazing adapter type, the 6" (152) deep frame installs easily in most common wall configurations. Model 1606DD is AMCA Licensed for Water Penetration and Air Performance.

STANDARD CONSTRUCTION:

Frame:	6" (152) deep, Type 6063-T5 extruded aluminum, .080" (2.03) nominal wall thickness. Integral downspouts and caulking slot provided.
Blades:	Type 6063-T5 extruded aluminum, .080" (2.03) nominal wall thickness, with reinforcing bosses.
Blade Angle:	Fixed at 37 degrees.
Blade Spacing:	Approximately 6" (152) on centers.
Blade Support Brackets:	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 approx. 2" [51] to overall louver depth).
Mullions:	Concealed type allowing continuous line appearance up to 120" (3048) wide. Larger assemblies require separate visible frames with downspouts.
Screen:	3/4" x .051 (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).
Maximum 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.



MODEL 1606DD

COMMON OPTIONS:

- Flanged or Glazing Adaptor Frame styles.
- Aluminum or Type 304 Stainless Steel Insect Screens.
- Extended Sills.
- Aluminum Installation Clips or Continuous Angles.
- Variety of Standard and High Performance Powder Coat finishes available in a multitude of colors. Custom color matching available.
- Clear or Color Anodized finishes.

PERFORMANCE DATA:
MODEL: 1604DD

FREE AREA in Square Feet and Square Meters

Height in Inches and Meters	Width in Inches and Meters																		
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
	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	2.90	3.05
12	**0.23**	**0.37**	**0.51**	**0.65**	**0.79**	**0.93**	**1.07**	**1.21**	**1.35**	**1.49**	**1.63**	**1.77**	**1.91**	**2.05**	**2.19**	**2.33**	**2.47**	**2.61**	**2.75**
0.30	0.02	0.03	0.05	0.06	0.07	0.09	0.10	0.11	0.13	0.14	0.15	0.16	0.18	0.19	0.20	0.22	0.23	0.24	0.26
18	**0.54**	**0.86**	**1.18**	**1.51**	**1.83**	**2.15**	**2.47**	**2.80**	**3.12**	**3.44**	**3.77**	**4.09**	**4.41**	**4.73**	**5.06**	**5.38**	**5.70**	**6.02**	**6.35**
0.46	0.05	0.08	0.11	0.14	0.17	0.20	0.23	0.26	0.29	0.32	0.35	0.38	0.41	0.44	0.47	0.50	0.53	0.56	0.59
24	**0.73**	**1.17**	**1.61**	**2.05**	**2.49**	**2.93**	**3.37**	**3.81**	**4.25**	**4.69**	**5.13**	**5.57**	**6.01**	**6.45**	**6.89**	**7.33**	**7.77**	**8.21**	**8.65**
0.61	0.07	0.11	0.15	0.19	0.23	0.27	0.31	0.35	0.40	0.44	0.48	0.52	0.56	0.60	0.64	0.68	0.72	0.76	0.80
30	**1.01**	**1.62**	**2.23**	**2.83**	**3.44**	**4.05**	**4.65**	**5.26**	**5.87**	**6.47**	**7.08**	**7.69**	**8.30**	**8.90**	**9.51**	**10.12**	**10.72**	**11.33**	**11.94**
0.76	0.09	0.15	0.21	0.26	0.32	0.38	0.43	0.49	0.55	0.60	0.66	0.71	0.77	0.83	0.88	0.94	1.00	1.05	1.11
36	**1.29**	**2.06**	**2.84**	**3.61**	**4.39**	**5.16**	**5.93**	**6.71**	**7.48**	**8.26**	**9.03**	**9.80**	**10.58**	**11.35**	**12.13**	**12.90**	**13.67**	**14.45**	**15.22**
0.91	0.12	0.19	0.26	0.34	0.41	0.48	0.55	0.62	0.70	0.77	0.84	0.91	0.98	1.05	1.13	1.20	1.27	1.34	1.41
42	**1.51**	**2.42**	**3.33**	**4.24**	**5.15**	**6.06**	**6.96**	**7.87**	**8.78**	**9.69**	**10.60**	**11.51**	**12.41**	**13.32**	**14.23**	**15.14**	**16.05**	**16.95**	**17.86**
1.07	0.14	0.23	0.31	0.39	0.48	0.56	0.65	0.73	0.82	0.90	0.98	1.07	1.15	1.24	1.32	1.41	1.49	1.58	1.66
48	**1.79**	**2.87**	**3.94**	**5.02**	**6.09**	**7.17**	**8.14**	**9.32**	**10.39**	**11.47**	**12.54**	**13.62**	**14.69**	**15.77**	**16.84**	**17.92**	**18.99**	**20.07**	**21.14**
1.22	0.17	0.27	0.37	0.47	0.57	0.67	0.76	0.87	0.97	1.07	1.17	1.27	1.37	1.46	1.56	1.66	1.76	1.86	1.96
54	**2.07**	**3.31**	**4.55**	**5.80**	**7.04**	**8.28**	**9.52**	**10.76**	**12.00**	**13.25**	**14.49**	**15.73**	**16.97**	**18.21**	**19.46**	**20.70**	**21.94**	**23.18**	**24.42**
1.37	0.19	0.31	0.42	0.54	0.65	0.77	0.88	1.00	1.12	1.23	1.35	1.46	1.58	1.69	1.81	1.92	2.04	2.15	2.27
60	**2.29**	**3.67**	**5.05**	**6.42**	**7.80**	**9.18**	**10.55**	**11.93**	**13.30**	**14.68**	**16.06**	**17.43**	**18.81**	**20.19**	**21.56**	**22.94**	**24.32**	**25.69**	**27.07**
1.52	0.21	0.34	0.47	0.60	0.72	0.85	0.98	1.11	1.24	1.36	1.49	1.62	1.75	1.88	2.00	2.13	2.26	2.39	2.51
66	**2.58**	**4.13**	**5.68**	**7.23**	**8.78**	**10.32**	**11.87**	**13.42**	**14.97**	**16.52**	**18.07**	**19.61**	**21.16**	**22.71**	**24.26**	**25.81**	**27.36**	**28.91**	**30.45**
1.68	0.24	0.38	0.53	0.67	0.82	0.96	1.10	1.25	1.39	1.53	1.68	1.82	1.97	2.11	2.25	2.40	2.54	2.69	2.83
72	**2.80**	**4.47**	**6.15**	**7.83**	**9.50**	**11.18**	**12.86**	**14.54**	**16.21**	**17.89**	**19.57**	**21.25**	**22.92**	**24.60**	**26.28**	**27.96**	**29.63**	**31.31**	**32.99**
1.83	0.26	0.42	0.57	0.73	0.88	1.04	1.19	1.35	1.51	1.66	1.82	1.97	2.13	2.29	2.44	2.60	2.75	2.91	3.06
78	**3.07**	**4.92**	**6.76**	**8.61**	**10.45**	**12.30**	**14.14**	**15.99**	**17.83**	**19.67**	**21.52**	**23.36**	**25.21**	**27.05**	**28.90**	**30.74**	**32.59**	**34.43**	**36.28**
1.98	0.29	0.46	0.63	0.80	0.97	1.14	1.31	1.49	1.66	1.83	2.00	2.17	2.34	2.51	2.68	2.86	3.03	3.20	3.37
84	**3.35**	**5.36**	**7.38**	**9.39**	**11.40**	**13.41**	**15.42**	**17.43**	**19.44**	**21.45**	**23.47**	**25.48**	**27.49**	**29.50**	**31.51**	**33.52**	**35.53**	**37.55**	**39.56**
2.13	0.31	0.50	0.69	0.87	1.06	1.25	1.43	1.62	1.81	1.99	2.18	2.37	2.55	2.74	2.93	3.11	3.30	3.49	3.67
90	**3.58**	**5.72**	**7.87**	**10.01**	**12.16**	**14.30**	**16.45**	**18.59**	**20.74**	**22.88**	**25.03**	**27.17**	**29.32**	**31.46**	**33.61**	**35.75**	**37.90**	**40.04**	**42.19**
2.29	0.33	0.53	0.73	0.93	1.13	1.33	1.53	1.73	1.93	2.13	2.33	2.52	2.72	2.92	3.12	3.32	3.52	3.72	3.92
96	**3.85**	**6.17**	**8.48**	**10.79**	**13.10**	**15.42**	**17.73**	**20.04**	**22.35**	**24.67**	**26.98**	**29.29**	**31.60**	**33.91**	**36.23**	**38.54**	**40.85**	**43.16**	**45.48**
2.44	0.36	0.57	0.79	1.00	1.22	1.43	1.65	1.86	2.08	2.29	2.51	2.72	2.94	3.15	3.37	3.58	3.80	4.01	4.22
102	**4.14**	**6.62**	**9.10**	**11.58**	**14.06**	**16.55**	**19.03**	**21.51**	**23.99**	**26.47**	**28.95**	**31.44**	**33.92**	**36.40**	**38.88**	**41.36**	**43.85**	**46.33**	**48.81**
2.59	0.38	0.61	0.85	1.08	1.31	1.54	1.77	2.00	2.23	2.46	2.69	2.92	3.15	3.38	3.61	3.84	4.07	4.30	4.53
108	**4.36**	**6.97**	**9.58**	**12.20**	**14.81**	**17.42**	**20.04**	**22.65**	**25.27**	**27.88**	**30.49**	**33.11**	**35.72**	**38.33**	**40.95**	**43.56**	**46.17**	**48.79**	**51.40**
2.74	0.40	0.65	0.89	1.13	1.38	1.62	1.86	2.10	2.35	2.59	2.83	3.08	3.32	3.56	3.80	4.05	4.29	4.53	4.78
114	**4.63**	**7.42**	**10.20**	**12.98**	**15.76**	**18.54**	**21.32**	**24.10**	**26.88**	**29.66**	**32.44**	**35.22**	**38.00**	**40.78**	**43.56**	**46.34**	**49.13**	**51.91**	**54.69**
2.90	0.43	0.69	0.95	1.21	1.46	1.72	1.98	2.24	2.50	2.76	3.01	3.27	3.53	3.79	4.05	4.31	4.56	4.82	5.08
120	**4.86**	**7.77**	**10.69**	**13.60**	**16.51**	**19.43**	**22.34**	**25.26**	**28.17**	**31.09**	**34.00**	**36.91**	**39.83**	**42.74**	**45.66**	**48.57**	**51.49**	**54.40**	**57.32**
3.05	0.45	0.72	0.99	1.26	1.53	1.80	2.08	2.35	2.62	2.89	3.16	3.43	3.70	3.97	4.24	4.51	4.78	5.05	5.32

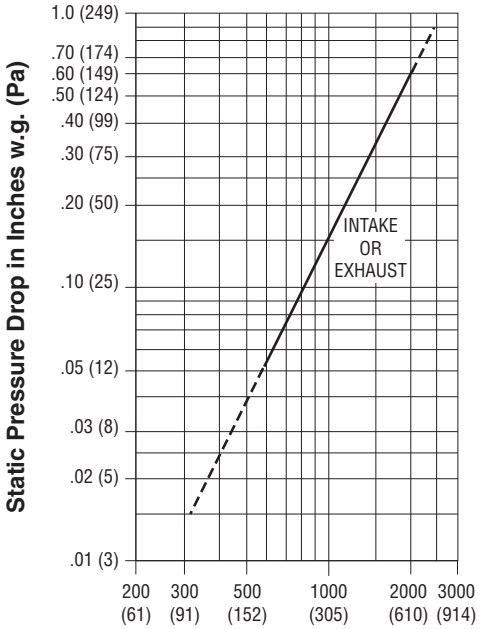
AIRFLOW / WATER PENETRATION DATA
for 48" x 48" (1219 x 1219) Louver Size

	Model	1604DD
	Free Area %	51%
	Free Area sq. ft. (sq. m.)	8.14 (0.76)
INTAKE	Free Area Velocity at Point of Beginning Water Penetration at .01 oz./sq. ft. (3 ml/sq. m) (15 min. test duration)	1000 fpm (305 m/min.)
INTAKE	Air Volume at Free Area Velocity shown	8140 cfm (3841 l/s)
INTAKE	Pressure Drop at Free Area Velocity shown	.16 in. w.g. (40 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 1604DD, 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. The AMCA Certified Ratings Seal applies to Air Performance 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.

PERFORMANCE DATA:
MODEL: 1606DD

FREE AREA in Square Feet and Square Meters

Height in Inches and Meters	Width in Inches and Meters																		
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
	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	2.90	3.05
12	**0.18**	**0.29**	**0.39**	**0.50**	**0.61**	**0.72**	**0.82**	**0.93**	**1.04**	**1.15**	**1.25**	**1.36**	**1.47**	**1.58**	**1.68**	**1.79**	**1.90**	**2.01**	**2.11**
0.30	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
18	**0.43**	**0.69**	**0.95**	**1.21**	**1.47**	**1.73**	**1.99**	**2.25**	**2.51**	**2.77**	**3.03**	**3.29**	**3.55**	**3.81**	**4.07**	**4.33**	**4.59**	**4.85**	**5.11**
0.46	0.04	0.06	0.09	0.11	0.14	0.16	0.19	0.21	0.23	0.26	0.28	0.31	0.33	0.35	0.38	0.40	0.43	0.45	0.47
24	**0.69**	**1.10**	**1.51**	**1.92**	**2.33**	**2.75**	**3.16**	**3.57**	**3.98**	**4.40**	**4.81**	**5.22**	**5.63**	**6.04**	**6.46**	**6.87**	**7.28**	**7.69**	**8.10**
0.61	0.06	0.10	0.14	0.18	0.22	0.26	0.29	0.33	0.37	0.41	0.45	0.48	0.52	0.56	0.60	0.64	0.68	0.71	0.75
30	**0.95**	**1.51**	**2.08**	**2.65**	**3.22**	**3.78**	**4.35**	**4.92**	**5.49**	**6.05**	**6.62**	**7.19**	**7.76**	**8.32**	**8.89**	**9.46**	**10.02**	**10.59**	**11.16**
0.76	0.09	0.14	0.19	0.25	0.30	0.35	0.40	0.46	0.51	0.56	0.62	0.67	0.72	0.77	0.83	0.88	0.93	0.98	1.04
36	**1.21**	**1.93**	**2.65**	**3.37**	**4.10**	**4.82**	**5.54**	**6.27**	**6.99**	**7.71**	**8.44**	**9.16**	**9.88**	**10.60**	**11.33**	**12.05**	**12.77**	**13.50**	**14.22**
0.91	0.11	0.18	0.25	0.31	0.38	0.45	0.51	0.58	0.65	0.72	0.78	0.85	0.92	0.99	1.05	1.12	1.19	1.25	1.32
42	**1.46**	**2.34**	**3.22**	**4.10**	**4.98**	**5.86**	**6.74**	**7.62**	**8.50**	**9.37**	**10.25**	**11.13**	**12.01**	**12.89**	**13.77**	**14.65**	**15.53**	**16.41**	**17.28**
1.07	0.14	0.22	0.30	0.38	0.46	0.54	0.63	0.71	0.79	0.87	0.95	1.03	1.12	1.20	1.28	1.36	1.44	1.52	1.61
48	**1.72**	**2.76**	**3.79**	**4.83**	**5.86**	**6.90**	**7.92**	**8.96**	**10.00**	**11.03**	**12.07**	**13.10**	**14.14**	**15.17**	**16.21**	**17.24**	**18.27**	**19.31**	**20.34**
1.22	0.16	0.26	0.35	0.45	0.54	0.64	0.74	0.83	0.93	1.03	1.12	1.22	1.31	1.41	1.51	1.60	1.70	1.79	1.89
54	**1.98**	**3.17**	**4.36**	**5.55**	**6.74**	**7.93**	**9.12**	**10.31**	**11.50**	**12.69**	**13.88**	**15.07**	**16.26**	**17.45**	**18.64**	**19.83**	**21.02**	**22.21**	**23.40**
1.37	0.18	0.29	0.41	0.52	0.63	0.74	0.85	0.96	1.07	1.18	1.29	1.40	1.51	1.62	1.73	1.84	1.95	2.06	2.17
60	**2.30**	**3.68**	**5.06**	**6.44**	**7.81**	**9.19**	**10.57**	**11.95**	**13.33**	**14.71**	**16.09**	**17.47**	**18.85**	**20.22**	**21.60**	**22.98**	**24.36**	**25.74**	**27.12**
1.52	0.21	0.34	0.47	0.60	0.73	0.85	0.98	1.11	1.24	1.37	1.49	1.62	1.75	1.88	2.01	2.14	2.26	2.39	2.52
66	**2.50**	**4.00**	**5.50**	**7.01**	**8.51**	**10.01**	**11.51**	**13.01**	**14.51**	**16.01**	**17.52**	**19.02**	**20.52**	**22.02**	**23.52**	**25.02**	**26.52**	**28.03**	**29.53**
1.68	0.23	0.37	0.51	0.65	0.79	0.93	1.07	1.21	1.35	1.49	1.63	1.77	1.91	2.05	2.19	2.32	2.46	2.60	2.74
72	**2.77**	**4.44**	**6.10**	**7.76**	**9.43**	**11.09**	**12.75**	**14.42**	**16.08**	**17.74**	**19.41**	**21.07**	**22.73**	**24.40**	**26.06**	**27.72**	**29.39**	**31.05**	**32.71**
1.83	0.26	0.41	0.57	0.72	0.88	1.03	1.18	1.34	1.49	1.65	1.80	1.96	2.11	2.27	2.42	2.58	2.73	2.88	3.04
78	**3.02**	**4.83**	**6.65**	**8.46**	**10.27**	**12.09**	**13.90**	**15.71**	**17.53**	**19.34**	**21.15**	**22.96**	**24.78**	**26.59**	**28.40**	**30.22**	**32.03**	**33.84**	**35.65**
1.98	0.28	0.45	0.62	0.79	0.95	1.12	1.29	1.46	1.63	1.80	1.96	2.13	2.30	2.47	2.64	2.81	2.98	3.14	3.31
84	**3.28**	**5.25**	**7.22**	**9.19**	**11.15**	**13.12**	**15.09**	**17.06**	**19.03**	**21.00**	**22.97**	**24.93**	**26.90**	**28.87**	**30.84**	**32.81**	**34.78**	**36.74**	**38.71**
2.13	0.30	0.49	0.67	0.85	1.04	1.22	1.40	1.58	1.77	1.95	2.13	2.32	2.50	2.68	2.86	3.05	3.23	3.41	3.60
90	**3.54**	**5.66**	**7.79**	**9.91**	**12.04**	**14.16**	**16.28**	**18.41**	**20.53**	**22.66**	**24.78**	**26.90**	**29.03**	**31.15**	**33.28**	**35.40**	**37.52**	**39.65**	**41.77**
2.29	0.33	0.53	0.72	0.92	1.12	1.32	1.51	1.71	1.91	2.10	2.30	2.50	2.70	2.89	3.09	3.29	3.49	3.68	3.88
96	**3.80**	**6.08**	**8.36**	**10.64**	**12.92**	**15.20**	**17.48**	**19.76**	**22.04**	**24.32**	**26.60**	**28.88**	**31.16**	**33.44**	**35.72**	**38.00**	**40.28**	**42.56**	**44.84**
2.44	0.35	0.56	0.78	0.99	1.20	1.41	1.62	1.84	2.05	2.26	2.47	2.68	2.89	3.11	3.32	3.53	3.74	3.95	4.17
102	**4.06**	**6.49**	**8.93**	**11.36**	**13.80**	**16.24**	**18.67**	**21.11**	**23.54**	**25.98**	**28.41**	**30.85**	**33.28**	**35.72**	**38.15**	**40.59**	**43.02**	**45.46**	**47.89**
2.59	0.38	0.60	0.83	1.06	1.28	1.51	1.73	1.96	2.19	2.41	2.64	2.87	3.09	3.32	3.54	3.77	4.00	4.22	4.45
108	**4.32**	**6.91**	**9.50**	**12.09**	**14.68**	**17.27**	**19.87**	**22.46**	**25.05**	**27.64**	**30.23**	**32.82**	**35.41**	**38.00**	**40.60**	**43.19**	**45.78**	**48.37**	**50.96**
2.74	0.40	0.64	0.88	1.12	1.36	1.60	1.85	2.09	2.33	2.57	2.81	3.05	3.29	3.53	3.77	4.01	4.25	4.49	4.73
114	**4.58**	**7.32**	**10.07**	**12.82**	**15.56**	**18.31**	**21.06**	**23.80**	**26.55**	**29.30**	**32.04**	**34.79**	**37.54**	**40.28**	**43.03**	**45.77**	**48.52**	**51.27**	**54.01**
2.90	0.43	0.68	0.94	1.19	1.45	1.70	1.96	2.21	2.47	2.72	2.98	3.23	3.49	3.74	4.00	4.25	4.51	4.76	5.02
120	**4.84**	**7.74**	**10.64**	**13.54**	**16.45**	**19.35**	**22.25**	**25.15**	**28.06**	**30.96**	**33.86**	**36.76**	**39.66**	**42.57**	**45.47**	**48.37**	**51.27**	**54.18**	**57.08**
3.05	0.45	0.72	0.99	1.26	1.53	1.80	2.07	2.34	2.61	2.88	3.15	3.42	3.68	3.95	4.22	4.49	4.76	5.03	5.30

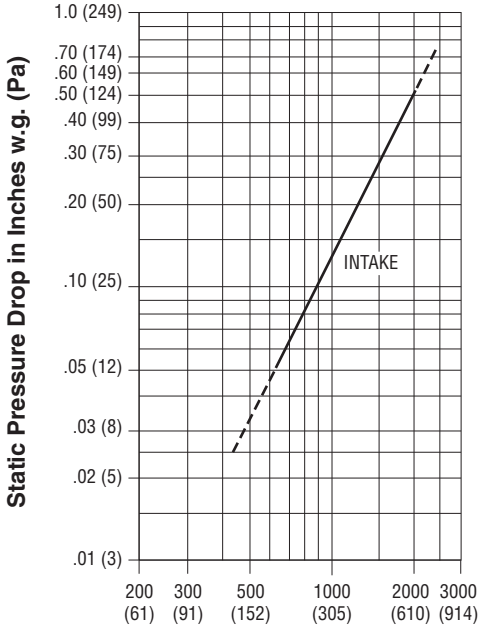
AIRFLOW/WATER PENETRATION DATA
for 48" x 48" (1219 x 1219) Louver Size

	Model	1606DD
	Free Area %	50%
	Free Area sq. ft. (sq. m.)	7.92 (0.74)
INTAKE	Free Area Velocity at Point of Beginning Water Penetration at .01 oz./sq. ft. (3 ml/sq. m) (15 min. test duration)	1193 fpm (364 m/min.)
INTAKE	Air Volume at Free Area Velocity shown	9449 cfm (4459 l/s)
INTAKE	Pressure Drop at Free Area Velocity shown	.18 in. w.g. (45 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 1606DD, 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. The AMCA Certified Ratings Seal applies to Air Performance 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.

HOW TO SPECIFY

MODEL 1604DD
EXTRUDED ALUMINUM DUAL DRAINABLE BLADE LOUVERS

SUGGESTED SPECIFICATION:

Provide and install, as shown on plans and/or schedules, extruded aluminum louvers meeting or exceeding the following criteria: Frame shall be 4" (102) deep channel type (**or specifier to select:** flanged type **or** glazing adapter type), 1/4" (6.3) undersize (**or specifier to select:** exact size **or** 3/8" [9.5] undersize **or** 1/2" [12.7] undersize), with integral caulking slots (and **specifier to select, if required:** extended sill), constructed from ASTM B211 Alloy 6063-T5 extruded aluminum of .080" (2.03) nominal wall thickness. Blades shall be stationary drainable style, with a dual drain gutter in each blade and gutter in head frame, constructed from type 6063-T5 extruded aluminum of .080" (2.03) nominal wall thickness with reinforcing bosses, fixed at 37 degrees on approximately 4" (102) centers and shall be supported by angle reinforced concealed brackets as required to withstand a wind force of not less than 25 pounds per square foot (100 miles per hour). Concealed downspouts in jambs to drain water from louver for minimum water cascade from blade to blade. Factory assembled louver components to be mechanically fastened (**or specifier to select:** welded construction). Concealed type mullions for louvers up to 120" (3048) wide allowing continuous line appearance. Large louvers that require multiple sections for shipping shall be constructed with visible frames with downspouts when installed together on site. Louvers shall be equipped with removable 3/4" x .051 (19 x 1.3) expanded, flattened aluminum bird screen (**or specifier to select:** type 304 stainless steel bird screen **and/or** aluminum insect screen **and/or** type 304 stainless steel insect screen **or** no screen).

Finish shall be standard mill (**or specifier to select:** prime coat **or** 204-R1 clear anodized to a min. depth of 0.4 mil, with 1 year warranty **or** 215-R1 clear anodized to a min. depth of 0.7 mil, with 5 year warranty **or** color anodized; color to be selected from standard Nailor anodizing colors **or** AAMA 2603 thermosetting polyester powder coat, with 1 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** AAMA 2604 high performance polyester powder coat, with 5 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) or AAMA 2605 FEVE fluoropolymer powder coat, with 10 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** Kynar 500/Hylar 5000 70% PVDF coating, with 5 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** Kynar 500/Hylar 5000 50% PVDF coating, with 10 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color).

Furnish where indicated on plans and/or schedules, blank-off panels fabricated by the louver manufacturer. Blank-off panels to be 0.040" (1.02) thick aluminum sheet (**or specifier to select:** 0.040" [1.02] thick aluminum sheet with 1" [25] insulation **or** 0.040" [1.02] thick aluminum sheet with 2" [51] insulation **or** 20 ga. [1.0] galvanized steel **or** 20 ga. [1.0] galvanized steel with 1" [25] insulation **or** 20 ga. [1.0] galvanized steel with 2" [51] insulation). Blank-off panels to be finished to match louvers.

Performance data must be licensed by AMCA under the AMCA 511 Certified Ratings Program and shall bear the AMCA Certified Ratings seal for water penetration and air performance. Free area, water penetration and pressure drop data submitted shall be equal to or better than specified model. Standard of acceptance: Nailor Industries, Inc. Model 1604DD.

MODEL 1606DD
EXTRUDED ALUMINUM DUAL DRAINABLE BLADE LOUVERS

SUGGESTED SPECIFICATION:

Provide and install, as shown on plans and/or schedules, extruded aluminum louvers meeting or exceeding the following criteria: Frame shall be 6" (152) deep channel type (**or specifier to select:** flanged type **or** glazing adapter type), 1/4" (6.3) undersize (**or specifier to select:** exact size **or** 3/8" [9.5] undersize **or** 1/2" [12.7] undersize), with integral caulking slots (and **specifier to select, if required:** extended sill), constructed from ASTM B211 Alloy 6063-T5 extruded aluminum of .080" (2.03) nominal wall thickness. Blades shall be stationary drainable style, with a dual drain gutter in each blade and gutter in head frame, constructed from type 6063-T5 extruded aluminum of .080" (2.03) nominal wall thickness with reinforcing bosses, fixed at 37 degrees on approximately 6" (152) centers and shall be supported by angle reinforced concealed brackets as required to withstand a wind force of not less than 25 pounds per square foot (100 miles per hour). Concealed downspouts in jambs to drain water from louver for minimum water cascade from blade to blade. Factory assembled louver components to be mechanically fastened (**or specifier to select:** welded construction). Concealed type mullions for louvers up to 120" (3048) wide allowing continuous line appearance. Large louvers that require multiple sections for shipping shall be constructed with visible frames with downspouts when installed together on site. Louvers shall be equipped with removable 3/4" x .051 (19 x 1.3) expanded, flattened aluminum bird screen (**or specifier to select:** type 304 stainless steel bird screen **and/or** aluminum insect screen **and/or** type 304 stainless steel insect screen **or** no screen).

Finish shall be standard mill (**or specifier to select:** prime coat **or** 204-R1 clear anodized to a min. depth of 0.4 mil, with 1 year warranty **or** 215-R1 clear anodized to a min. depth of 0.7 mil, with 5 year warranty **or** color anodized; color to be selected from standard Nailor anodizing colors **or** AAMA 2603 thermosetting polyester powder coat, with 1 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** AAMA 2604 high performance polyester powder coat, with 5 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or custom** color) **or** AAMA 2605 FEVE fluoropolymer powder coat, with 10 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** Kynar 500/Hylar 5000 70% PVDF coating, with 5 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color) **or** Kynar 500/Hylar 5000 50% PVDF coating, with 10 year warranty; color to be (**specifier to select:** selected from Nailor standard color chart **or** custom color).

Furnish where indicated on plans and/or schedules, blank-off panels fabricated by the louver manufacturer. Blank-off panels to be 0.040" (1.02) thick aluminum sheet (**or specifier to select:** 0.040" [1.02] thick aluminum sheet with 1" [25] insulation **or** 0.040" [1.02] thick aluminum sheet with 2" [51] insulation **or** 20 ga. [1.0] galvanized steel **or** 20 ga. [1.0] galvanized steel with 1" [25] insulation **or** 20 ga. [1.0] galvanized steel with 2" [51] insulation). Blank-off panels to be finished to match louvers.

Performance data must be licensed by AMCA under the AMCA 511 Certified Ratings Program and shall bear the AMCA Certified Ratings seal for water penetration and air performance. Free area, water penetration and pressure drop data submitted shall be equal to or better than specified model. Standard of acceptance: Nailor Industries, Inc. Model 1606DD.

HOW TO ORDER

MODEL SERIES: 1602, 1604, 1605 AND 1606
STATIONARY EXTRUDED ALUMINUM LOUVERS

EXAMPLE: 1604DD - 48x36 - U25 - CH - BSA - MI - STD

1. **Models**
   - 1602J 2" (51) Deep, J Blade
   - 1602K 2" (51) Deep, K Blade
   - 1604J 4" (102) Deep, J Blade
   - 1604JD 4" (102) Deep, J Blade, Drainable Head
   - 1604KD 4" (102) Deep, K Blade, Drainable Head
   - 1604D 4" (102) Deep, Drainable Blade
   - 1604DD 4" (102) Deep, Dual Drainable Blade
   - 1604Y 4" (102) Deep, Y Blade, Sightproof
   - 1605WD 5" (127) Deep, Wind-Driven Rain Resistant, Sightproof
   - 1606J 6" (152) Deep, J Blade
   - 1606JD 6" (152) Deep, J Blade, Drainable Head
   - 1606KD 6" (152) Deep, K Blade, Drainable Head
   - 1606D 6" (152) Deep, Drainable Blade
   - 1606DD 6" (152) Deep, Dual Drainable Blade
2. **Nominal Width x Height**
   inches (mm's)
3. **Sizing**
   - U00 Exact Size
   - U25 Undersize 1/4" (6.3) (default)
   - U38 Undersize 3/8" (9.5)
   - U50 Undersize 1/2" (12.7)
4. **Frame**
   - CH Channel (default)
   - FL Flanged
   - GA Glazing Adaptor
5. **Bird Screen**
   - BSA Aluminum (default)
   - BSG Galvanized Steel
   - BSSS Type 304 Stainless Steel
   - BSN None
6. **Insect Screen**
   - – None (default)
   - ISA Aluminum
   - ISSS Type 304 Stainless Steel
7. **Finish**
   - MI Mill Finish (default)
   - PC3S Powder Coat, Standard Color
   - PC3C Powder Coat, Custom Color
   - PC4S H. P. Powder Coat, Standard color
   - PC4C H. P. Powder Coat, Custom Color
   - PC5S Fluoropolymer Powder Coat, Standard Color
   - PC5C Fluoropolymer Powder Coat, Custom Color
   - PPC Prime Coat
   - AN04 Anodized, Clear 204-R1
   - AN15 Anodized, Clear 215-R1
   - ANLB Anodized, Light Bronze
   - ANMB Anodized, Medium Bronze
   - ANDB Anodized, Dark Bronze
   - ANBK Anodized, Black
8. **Welded Construction**
   - – None (default)
   - WE Welded Construction
9. **Extended Sill**
   - – None (default)
   - ESI Extended Sill

OPTIONS & ACCESSORIES:

10. **Shape**
    - STD Rectangular or Square (default)
    - CA Circle (Round)
    - CB Semi-circle
    - CC 1/4 circle left
    - CD 1/4 circle right
    - CE Arch semi-circular
    - CFC Arch custom, (dropped or lancet)
    - CFE Arch equilateral
    - CG Oval
    - CH Arch 1/4 circle left
    - CJ Arch 1/4 circle right
    - TA Triangle isosceles
    - TB Arch gable
    - TC Triangle RA left
    - TD Triangle RA right
    - TE Quadrilateral left
    - TF Quadrilateral right
    - TG Diamond/Rhombus
    - TH Trapezoid
    - TJ Octagon
    - TK Left corner
    - TL Right corner
11. **Filter Rack**
    - – None (default)
    - FR1 1" (25) Filter rack
    - FR2 2" (51) Filter rack

12a. **Blank-off Panel**
   - – None (default)
   - BG 20 ga. galv. steel
   - BGI1 20 ga. galv. w/1" (25) insulation
   - BGI2 20 ga. galv. w/2" (51) insulation
   - BA 0.040" aluminum
   - BAI1 0.040" alum. w/1" (25) insulation
   - BAI2 0.040" alum. w/2" (51) insulation

12b. **Percentage of Area Blanked**
   1 – 100%

13a. **Sleeve**
   - – None (default)
   - SGLV Galvanized Steel
   - SALU Aluminum
   - S304 Type 304 Stainless Steel

13b. **Sleeve Length**
   SL = Specify
   12" (305) standard (default)
   8" – 28" (203 – 711)

13c. **Sleeve Gauge**
   - – None (default)
   - 20G 20 Ga.
   - 18G 18 Ga.
   - 16G 16 Ga.
   - 14G 14 Ga.
   - 10G 10 Ga.

14a. **False Mullions**
   - – None (default)
   - FMA 2" (51) wide x .080" aluminum
   - FMG 2" (51) wide x 18 ga. galv. steel

14b. **Quantity = _____ .**

15a. **Subframe/Door**
   - – None (default)
   - CSUB Channel Subframe
   - CSHS Hinged Door w/staple plate

15b. **Hinge Position**
   - – None (default)
   - HL Hinged Left (vertical)
   - HR Hinged Right (vertical)
   - HT Hinged Top (horizontal)
   - HB Hinged Bottom (horizontal)

16. **Special Corner Construction**
   - – None (default)
   - SBCC Box Corner
   - SMCC Mitered Corner

17a. **Installation Angles**
   - – None (default)
   - PACA Clips 1 1/2" x 1 1/2" x .125" (38 x 38 x 3), 3" (76) long alum.
   - SMCC Angles - aluminum continuous

17b. **PACA Qty =** ___ (12" [305] max. o. c.)

Notes:

1. Standard color powder coat paint finishes require a color selection from the 21 color finishes on the "Nailor Louver Finishes and Color Guide".

Codes: LF00 Color to follow, LF01 Slate Blue, LF02 Medium Bronze, LF03 Sandstone, LF04 Light Gray, LF05 Charcoal, LF06 Bone White, LF07 Western Tan, LF08 Architectural Bronze, LF09 Regal Blue, LF10 Forest Green, LF11 Surrey Beige, LF12 Royal Brown, LF13 Barn Red, LF14 Burgandy, LF15 Clay, LF16 Almond, LF17 Coastal White, LF18 Vista Green, LF19 Black, LF20 Gloss Black, LF21 Campus Green.

2. Custom color powder coat paint finishes require color matching. A suitable paint chip must be supplied and Nailor will select or mix and formulate a powder coat paint that matches as closely as possible. We will forward a sample for approval.

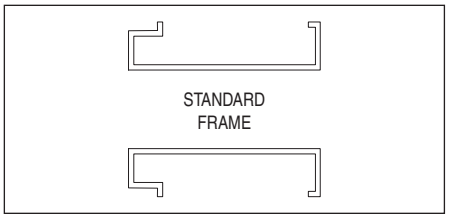
Codes: LF00 Color to follow. You may alternatively enter a unique code and description.

Options and Accessories

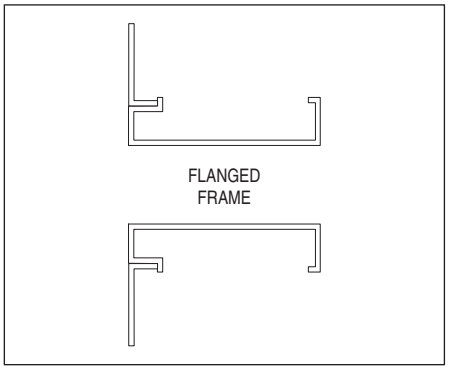
Nailor extruded aluminum and formed steel louvers are available with a variety of options and accessories to suit design specific applications. Selecting the proper accessories and options can save time and labor as well as enhance the visual aesthetics of a louver. Contact your Nailor representative for more information on Nailor custom louver manufacturing capabilities and additional features for your job specific requirements.

FRAME OPTIONS:

OPTION CODE **CH**
STANDARD CHANNEL FRAME

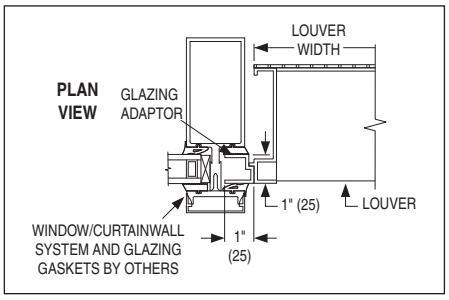


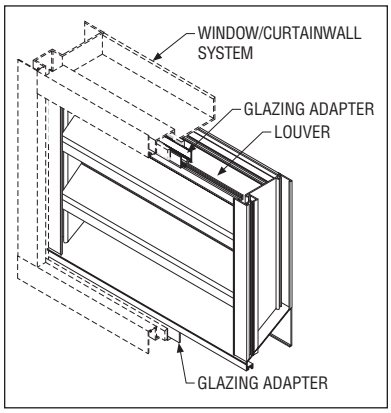
OPTION CODE **FL**
FLANGED FRAME



All Nailor extruded aluminum and formed steel louver models come standard with channel type frames and are available with an optional flanged frame. Nailor 2", 4", 5" and 6" (51, 102, 127 and 152) deep extruded aluminum louvers are also available with an optional glazing adaptor frame for easy installation into windows or curtain wall systems. When ordered, the flanged and glazing adapter type frames are factory mounted using mechanical fasteners.

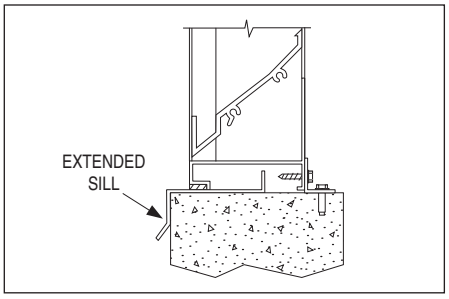
OPTION CODE **GA**
GLAZING ADAPTER (SIDE VIEW)





EXTENDED SILL:

OPTION CODE **ESI**
EXTENDED SILL



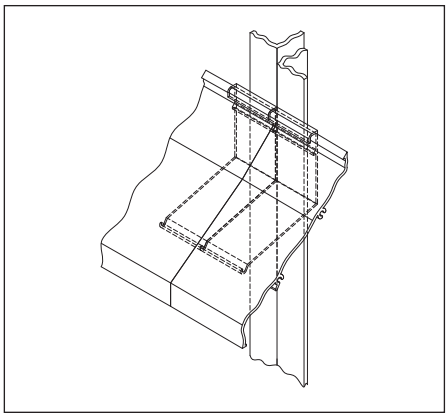
Sill extensions are available on all Nailor extruded aluminum and formed steel louver models and can provide additional deflection of water away from the louver opening. An extended sill option may also provide a transition between the louver and adjacent structures. The material and finish of the sill extension will match the frame and blades of the louver. When ordered, sill extensions are shipped loose for field installation.

Note: All louver options are available at an additional cost.

Options and Accessories

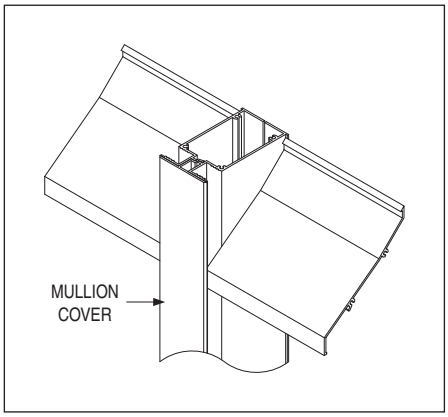
MULLION TYPES:

ARCHITECTURAL CONCEALED MULLION DETAIL



Architectural Concealed Mullions are available on all Nailor stationary non-drainable aluminum louvers, providing a continuous blade appearance without size limitations. Mullions are constructed of the same material as the louver.
Nailor stationary and adjustable/ combination drainable blade louvers feature concealed mullions up to 120" (3048) wide, with larger assemblies requiring separate visible frames with downspouts. Visible Mullions are provided with a Mullion Cover to enhance the architectural appearance of the louver. Mullions are constructed of the same material as the louver and finished to match.

VISIBLE MULLION DETAIL

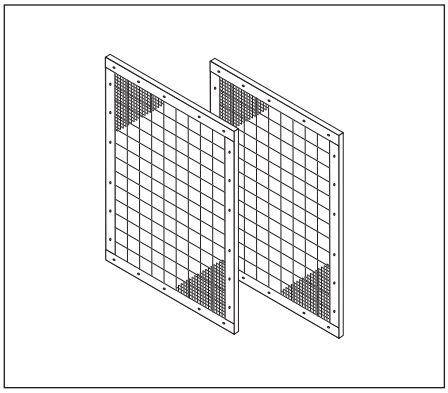


FALSE MULLIONS

False mullions, an architectural feature simulating a mullion, are also available where required visually. They may be shipped loose for mounting to the louver at the installation site, or can be an integral extension of the louver frame, factory mounted. Mullions are constructed of the same material as the louver and finished to match.

SCREEN TYPES:

OPTION CODE **BSG**
BIRD SCREEN - GALV. STEEL (D)
OPTION CODE **BSA**
BIRD SCREEN - ALUMINUM
OPTION CODE **BSSS**
BIRD SCREEN - TYPE 304 STAINLESS STEEL
OPTION CODE **BSN**
BIRD SCREEN - NONE
OPTION CODE **00**
INSECT SCREEN - NONE (DEFAULT)
OPTION CODE **ISA**
INSECT SCREEN - ALUMINUM
OPTION CODE **ISSS**
BIRD SCREEN - TYPE 304 STAINLESS STEEL



Bird and Insect screens prevent the passage of undesirable elements through the louver while maintaining maximum airflow. All Nailor louvers come standard with a bird screen, either 3/4" x .051 (19 x 1.3) wire expanded and flattened aluminum or 1/2" mesh x 19 ga. (13 x 1.1) wire galvanized, dependent on louver construction, unless ordered otherwise. A variety of screen options are available to suit most applications: 1/2" mesh x 18 ga. (13 x 1.3) wire Type 304 stainless steel bird screens, 18 - 16 mesh, .011 (.30) wire aluminum insect screens and 18 - 16 mesh 0.11" (.30) wire Type 304 stainless steel insect screens may be ordered for all louver types.

Options and Accessories

WELDED CONSTRUCTION:

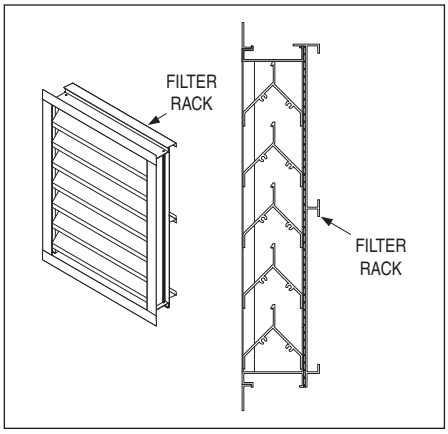
All Nailor louvers are mechanically fastened to provide a clean visual appearance when painted or anodized. Optional welded construction is available on all Nailor stationary louvers for applications that may be subject to vibration damage, i.e. when located in proximity to an air handler. Welded construction is not available when anodized finish is ordered.

OPTION CODE **WE**

FILTER RACK:

OPTION CODE **FR1**
1" (25) FILTER RACK

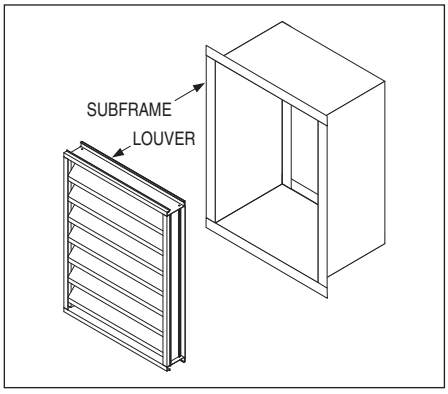
OPTION CODE **FR2**
2" (51) FILTER RACK



For applications where air filtration is required, Nailor offers 1" (25) or 2" (51) filter racks for standard filters, filters by others. Filters are easily accessible with a slide and lock in style design for quick service. Filter racks are constructed of the same material as the louver and factory installed with mechanical fasteners. All Nailor louvers are available with optional filter racks. Consult your Nailor representative for specific details and dimensional drawings for specific louver applications.

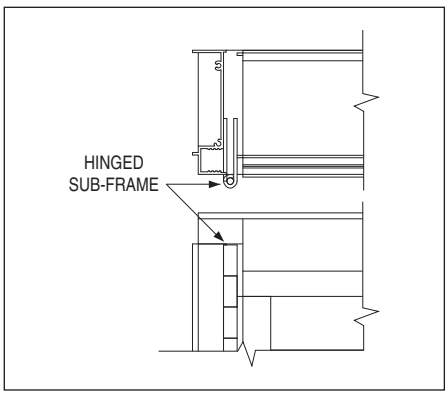
CHANNEL SUB-FRAME AND HINGES:

OPTION CODE **CSUB**
CHANNEL SUB-FRAME



Sub-frames are used as an auxiliary frame around a louver and by adding additional hardware you can enable a louver to be removable, hinged, latched, and for certain applications, restrained. All Nailor extruded aluminum stationary louvers are available with optional channel sub-frames; contact your Nailor representative for sub-frame requirements for steel stationary louvers.

OPTION CODE **HB**
HINGED BOTTOM
OPTION CODE **HL**
HINGED LEFT
OPTION CODE **HR**
HINGED RIGHT
OPTION CODE **HT**
HINGED TOP

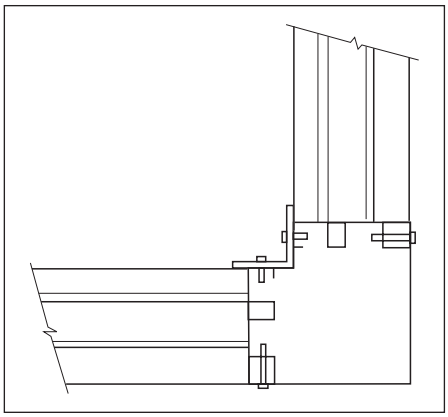


Some applications require access behind a louver for service and maintenance of other system components. When ordered with a channel sub-frame, hinges allow a louver to become an access door, providing easy access behind the louver. Hinges are available on top, bottom, and left or right orientations. Standard piano style hinges are factory mounted when ordered. All Nailor extruded aluminum stationary louvers are available with optional hinges; contact your Nailor representative for hinge requirements for steel stationary louvers.

Options and Accessories

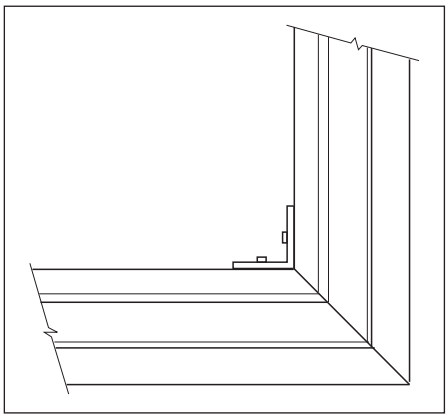
CORNER CONSTRUCTION:

OPTION CODE **SBCC**
BOX CORNER DETAIL



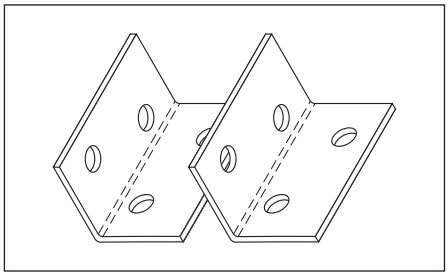
Louvers that follow the architectural line of a building's exterior around a corner may have either mitered or boxed corners, depending on the blade style of the louver selected. All Nailor extruded aluminum stationary J and K non-drainable louvers are available with optional mitered corners providing a desirable continuous look, and all Nailor extruded aluminum stationary drainable louvers are available with optional box corners only; contact your Nailor representative for corner requirements for steel stationary louvers.

OPTION CODE **SMCC**
MITERED CORNER DETAIL



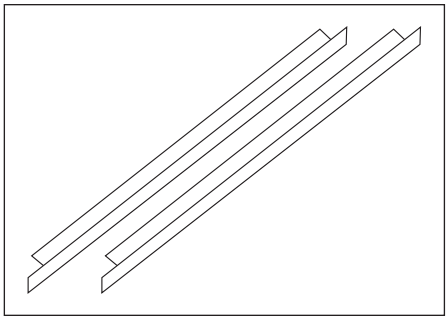
INSTALLATION ANGLES:

OPTION CODE **PACA**
MOUNTING CLIPS



Mounting clips and continuous angles are utilized to anchor a louver to an opening and provide a clean, easy, and speedy installation. When ordered, mounting clips and continuous angles are shipped loose for field assembly. All Nailor extruded aluminum stationary louvers are available with optional mounting clips and continuous angles; contact your Nailor representative for installation angle and mounting clip requirements for steel stationary louvers.

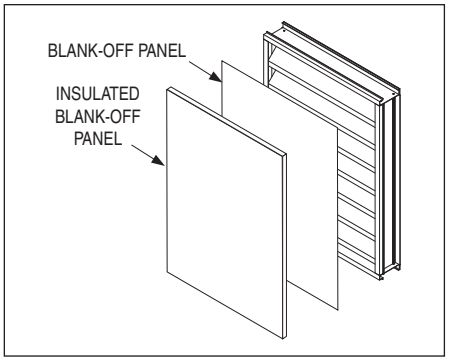
OPTION CODE **PAAA**
CONTINUOUS ANGLES



Options and Accessories

BLANK-OFF PANELS:

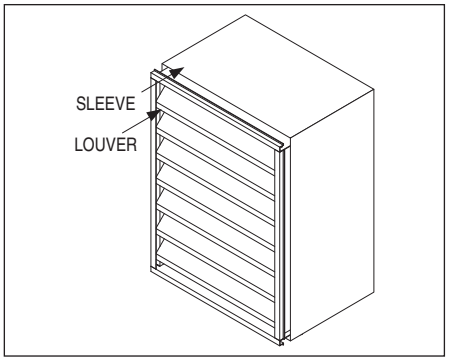
OPTION CODE **BA**
.040" ALUMINUM
OPTION CODE **BAI1**
.040" ALUMINUM W/1" (25) INSUL.
OPTION CODE **BAI2**
.040" ALUMINUM W/2" (51) INSUL.
OPTION CODE **BG**
20 GA. GALVANIZED STEEL
OPTION CODE **BGI1**
20 GA. GALVANIZED STEEL WITH 1" (25) INSULATION
OPTION CODE **BGI2**
20 GA. GALVANIZED STEEL WITH 2" (51) INSULATION



Certain louver applications may require that the airflow be controlled with a blank-off panel while still maintaining the louver's architectural appearance and aesthetic appeal. Blank-off panels can be a plain sheet of either galvanized steel or aluminum or a sandwich type panel in which 1" (25) or 2" (51) insulation attached. All Nailor extruded aluminum stationary louvers are available with blank-off panels; contact your Nailor representative Industries for blank-off panel requirements for steel stationary louvers.

SLEEVE TYPES:

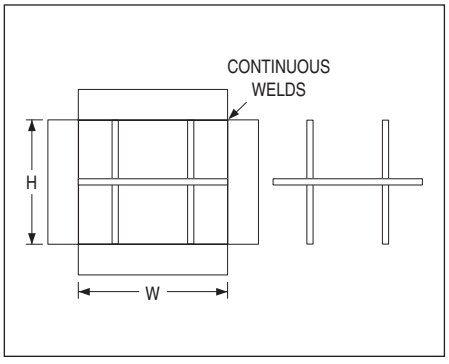
OPTION CODE **S304**
TYPE 304 STAINLESS STEEL
OPTION CODE **SALV**
ALUMINUM
OPTION CODE **SGLV**
GALVANIZED STEEL



A factory installed louver sleeve allows the units to ship directly to jobsite ready for installation, saving time, money and costly field fabrication and mounting, as well as helping to ensure proper installation. Sleeves are available in a variety of construction and thickness: Galvanized steel sleeve (20 ga. [1.0], 18 ga. [1.3], 16 ga. [1.6], 14 ga. [2.0], 12 ga. [2.7] or 10 ga. [3.5]), Aluminum sleeve (16 ga. [1.6], 14 ga. [2.0], 10 ga. [3.5]) or Type 304 stainless steel sleeve (20 ga. [1.0], 18 ga. [1.3], 16 ga. [1.6], 14 ga. [2.0], 12 ga. [2.7] or 10 ga. [3.5]). All Nailor louvers are available with factory installed sleeves.

SECURITY BARS:

OPTION CODE **SECB**
SECURITY BARS



When combined with a sleeve, security bars provide maximum protection for installations where penetration through a wall needs to be secure. Available in a 2" (51) flat steel frame welded continuously at the corners, a variety of bar designs, bar material, construction types and bar spacing is available. Contact your Nailor representative for security bar requirements for all Nailor louvers.

Available Louver Finishes

Nailor offers 21 standard paint colors for architectural exterior use which meet or exceed AAMA specifications and performance requirements for color retention, chalk resistance, gloss retention, erosion, corrosion and chemical resistance as well as dry film thickness and hardness. Our state-of-the-art powder coat system provides an environment friendly finishing solution with more uniform coverage and coating thickness. The result is an exceptional finish that better resists scratching, fading and general wear. Additional liquid coat facilities for special requirements complete our ability to provide unmatched beauty and durability for any application. Nailor also offers 6 standard anodized finishes. Custom color matching is also available upon request. Contact your local Nailor representative.

See inside cover for available louver finishes color chart.

Note: Due to the printing process, colors shown approximate as closely as possible to the actual paint colors.

FINISH TYPE:	DESCRIPTION:
Fluoropolymer Powder Coat AAMA 2605 - Superior Finish (AKA: Powdura® 5000, Coraflon® Powder, Interpon® D3000-Fluoromax)	"Ultimate" - A next generation hyper durable powder coating, based on FEVE fluoropolymer resins and ceramic pigmentation that the industry has acknowledged as the foundation for superior performance coatings. They provide a hard surface that is resistant to scratching and scuffing, with superior color and gloss retention, when applied to a variety of exterior architectural applications. This technology represents the “ultimate” in environmentally friendly finishes, with Zero-VOC emissions. A new alternative to traditional 70% Kynar 500®/Hylar 5000® PVDF fluoropolymer liquid coatings.
High Performance Powder Coat AAMA 2604 - High Performance Finish (AKA: Powdura® 4000, Envirocron® Ultra DurablePowder, Dynadure™ 400, Interpon® D2000)	"Better" - A high performance polyester powder coating, based on “super durable” resins that utilize infrared reflective pigments, which provides excellent resistance to outdoor weathering. A harder and more environmentally friendly coating than other liquid paint counterparts and with Zero-VOC emissions. A good alternative to 50% Kynar 500®/Hylar 5000® liquid coatings.
Durable Powder Coat AAMA 2603 - Pigmented Organic Coatings (AKA: Powdura® 3000, Envirocron® Durable Powder, Dynadure™ 300, Interpon® D1000)	"Good" - A durable powder coat based on thermosetting polyester resin technology. Provides a good economical combination of physical and chemical resistance properties. Environmentally superior to liquid spray paints and Zero – VOC emissions.
Clear Anodize 215-R1 AA-M10C22A41 (0.7 mil. min.)	Architectural Class I. Clear, colorless and hard oxide aluminum coating that resists weathering and chemical attack. Recommended for severely corrosive and abrasive atmospheric exposure.
Clear Anodize 204-R1 AA-M10C22A31 (0.4 - 0.7 mil.)	Architectural Class II. Clear, colorless and hard oxide aluminum coating that resists weathering and chemical attack. Recommended for normal weather exposure.
Color Anodize AA-M10C22A44 (0.7 mil. min.)	Architectural Class I. "Two-step" aluminum coating process. Following a standard anodizing procedure, a second electrolytic process deposits colored metallic pigments which penetrate the aluminum oxide pores, producing a corrosion resistant, colorfast finish. Available in light, medium, dark bronze and black.
Prime Coat	Prime coat provides a stable base for painting of louvers in the field. Surface pretreatment includes degreasing and a chemical cleaning before an epoxy prime coat is applied. Finish coat should be field applied as soon as possible for best adhesion, after a thorough cleaning for dust etc. that can contaminate the final finish and cause premature flaking or peeling.

Contact your local representative for Color Guide and paint warranty information. Paint finish warranties are not applicable to steel products. Powdura® is a registered trademark of The Sherwin-Williams Company.
Coraflon® and Envirocron® are registered trademarks of PPG Industries Ohio, Inc. Interpon® is a registered trademark of Akzo Nobel Powder Coatings Ltd. Kynar 500® is a registered trademark of Arkema, Inc. Hylar 5000® is a registered trademark of Solvay Solexis, Inc.

Nailor® Industries Inc.

Louver Finishes & Color Guide


Slate Blue LF01


Medium Bronze LF02


Sandstone LF03


Light Gray LF04


Charcoal LF05


Bone White LF06


Western Tan LF07


Architectural Bronze LF08


Legal Blue LF09


Forest Green LF10


Surrey Beige LF11

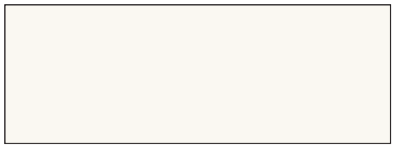

Royal Brown LF12


Barn Red LF13


Burgundy LF14


Clay LF15


Almond LF16


Coastal White LF17


Vista Green LF18


Black LF19


Gloss Black LF20


Campus Green LF21

Nailor offers 21 standard paint colors selected for architectural exterior use which meet or exceed AAMA specifications and performance requirements for color retention, chalk resistance, gloss retention, erosion, corrosion and chemical resistance as well as dry film thickness and hardness. Our state-of-the-art powder coat system provides an environment friendly finishing solution with more uniform coverage and coating thickness. The result is an exceptional finish that better resists scratching, fading and general wear. Additional liquid coat facilities for special requirements complete our ability to provide unmatched beauty and durability for any application.

Custom color matching is also available upon request. Contact your local Nailor representative.

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