

- HIGH PERFORMANCE
- DUAL DRAINABLE DESIGN FOR MAXIMUM WEATHER PROTECTION
- DRAINABLE HEAD
- 4" OR 6" DEEP FRAME
- EXTRUDED ALUMINUM

MODELS:

1604DD 4" (102) DEEP

1606DD 6" (152) DEEP



Model 1604DD

Model 1606DD

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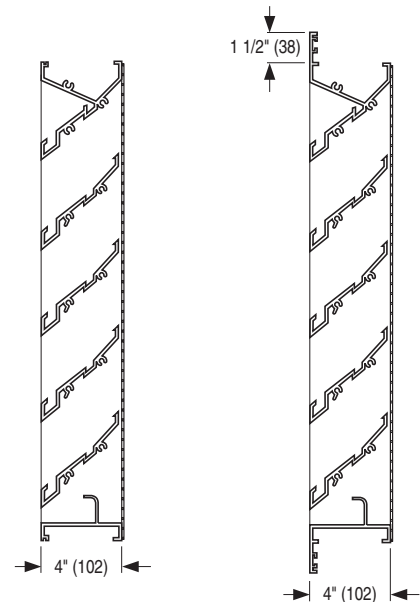
MODEL 1604DD

Model 1604DD, Dual Drainable blade type louver, combines maximum weather protection in a 4" (102) deep frame, with high performance and pleasing aesthetics that compliment any structure's exterior styling. Standard construction features a drainable head that collects the water running down the building face and channels it out the concealed downspouts in the side frame, preventing it from flowing down into the airstream. Suitable for use in exhaust and medium to higher velocity intake applications, the dual drainable blade design utilizes double rain gutters that divert collected water down concealed side downspouts and out the sill. Blades are reinforced with full length integral bosses for superior strength and the design provides good air performance through it's 50% free area as well as maximum protection against the elements. Model 1604DD is available with channel or flanged type frame to suit most architectural and mechanical installation requirements and is AMCA Licensed.

LOUVERS

MODEL 1604DD 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:** Approx. 4" (102) 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:** Visible type, due to watershedding requirements.
- SCREEN:** 1/2" x 1/2" x 19 ga. (13 x 13 x 1.0) galvanized bird screen. Screen adds 3/8" (10) to louver depth.
- FINISH:** Mill. Optional finishes are available.
- MINIMUM SIZE:** 12" wide x 12" high (305 x 305).
- MAXIMUM SIZE:** 120" wide x 96" high (3048 x 2438). Drainable louvers require side frame with downspouts every 120" (3048) in width maximum due to watershedding requirements. Larger sizes will be manufactured in sections with visible mullion side frame (downspouts are concealed) for assembly in the field.



**MODEL 1604DD
STANDARD
CHANNEL FRAME**

**MODEL 1604DD
WITH OPTIONAL
FLANGED FRAME**

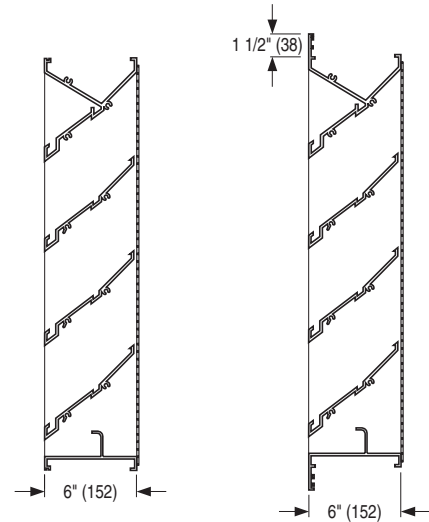
MODEL 1606DD

Model 1606DD is a Dual Drainable blade type louver that combines maximum weather protection, high performance and aesthetics that compliment any building design. With the beginning point of water penetration at 1164 fpm (5.91 m/s) free area velocity, the design allows for optimal weather protection at higher airflow rates. Standard construction features a drainable head that collects the water running down the building face and channels it out the concealed downspouts in the side frame, preventing it from flowing down into the airstream. Suitable for use in exhaust and medium to higher velocity intake applications, the dual drainable blade design utilizes double rain gutters that divert collected water down concealed side downspouts and out the sill. Blades are reinforced with full length integral bosses for superior strength and the design exhibits low pressure drop characteristics throughout the full airflow range. Available with channel or flanged type frame to suit most architectural and mechanical installation requirements, Model 1606DD is engineered for maximum protection from the elements and is AMCA Licensed.

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LOUVERS

MODEL 1606DD 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:** Approx. 6" (152) 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:** Visible type, due to watershedding requirements.
- SCREEN:** 1/2" x 1/2" x 19 ga. (13 x 13 x 1.0) galvanized bird screen. Screen adds 3/8" (10) to louver depth.
- FINISH:** Mill. Optional finishes are available.
- MINIMUM SIZE:** 12" wide x 16" high (305 x 406).
- MAXIMUM SIZE:** 120" wide x 96" high (3048 x 2438). Drainable louvers require side frame with downspouts every 120" (3048) in width maximum due to watershedding requirements. Larger sizes will be manufactured in sections with visible mullion side frame (downspouts are concealed) for assembly in the field.



**MODEL 1606DD
STANDARD
CHANNEL FRAME**

**MODEL 1606DD
WITH OPTIONAL
FLANGED FRAME**

DUAL DRAINABLE LOUVERS



PERFORMANCE DATA MODELS: 1604DD & 1606DD

FREE AREA in Square Feet and Square Meters

MODEL: 1604DD

		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
Height in Inches and Meters	12	0.24	0.38	0.52	0.67	0.81	0.96	1.10	1.24	1.39	1.53	1.68	1.82	1.96	2.11	2.25	2.39	2.53	2.68	2.82
	.30	0.02	0.03	0.05	0.06	0.07	0.09	0.10	0.11	0.12	0.14	0.15	0.16	0.18	0.19	0.21	0.22	0.24	0.25	0.26
	18	0.50	0.80	1.11	1.41	1.71	2.01	2.32	2.62	2.92	3.22	3.53	3.83	4.13	4.43	4.74	5.04	5.34	5.64	5.95
	.46	0.04	0.07	0.10	0.13	0.16	0.18	0.21	0.24	0.27	0.30	0.32	0.35	0.38	0.41	0.44	0.47	0.50	0.52	0.55
	24	0.77	1.24	1.71	2.18	2.64	3.11	3.58	4.04	4.51	4.98	5.45	5.91	6.38	6.85	7.31	7.78	8.25	8.71	9.17
	.61	0.07	0.11	0.15	0.20	0.24	0.28	0.33	0.37	0.42	0.46	0.50	0.55	0.59	0.63	0.68	0.72	0.77	0.81	0.85
	30	1.00	1.60	2.20	2.81	3.41	4.01	4.61	5.22	5.82	6.42	7.03	7.63	8.23	8.83	9.44	10.04	10.64	11.24	11.85
	.76	0.09	0.14	0.20	0.26	0.31	0.37	0.42	0.48	0.54	0.59	0.65	0.70	0.76	0.82	0.87	0.93	0.99	1.05	1.10
	36	1.27	2.04	2.81	3.58	4.34	5.11	5.88	6.65	7.41	8.18	8.95	9.71	10.48	11.25	12.02	12.78	13.55	14.32	15.08
	.91	0.11	0.19	0.26	0.33	0.40	0.47	0.54	0.61	0.68	0.76	0.83	0.90	0.97	1.04	1.11	1.19	1.26	1.33	1.40
	42	1.50	2.41	3.31	4.22	5.13	6.03	6.94	7.84	8.75	9.65	10.56	11.46	12.37	13.27	14.18	15.08	15.99	16.90	17.80
	1.07	0.14	0.22	0.30	0.39	0.47	0.56	0.64	0.72	0.81	0.89	0.98	1.06	1.14	1.23	1.31	1.40	1.49	1.57	1.65
	48	1.77	2.84	3.91	4.97	6.04	7.11	7.97	9.24	10.31	11.37	12.44	13.51	14.57	15.64	16.71	17.77	18.84	19.91	20.97
	1.22	0.16	0.26	0.36	0.46	0.56	0.66	0.74	0.85	0.95	1.05	1.15	1.25	1.35	1.45	1.55	1.65	1.75	1.85	1.95
	54	2.01	3.22	4.42	5.63	6.84	8.05	9.25	10.46	11.67	12.88	14.09	15.29	16.50	17.71	18.92	20.12	21.33	22.54	23.75
	1.37	0.18	0.29	0.41	0.52	0.63	0.74	0.86	0.97	1.08	1.19	1.30	1.42	1.53	1.64	1.75	1.87	1.98	2.09	2.21
60	2.27	3.64	5.01	6.37	7.74	9.11	10.48	11.84	13.21	14.58	15.94	17.31	18.68	20.04	21.41	22.78	24.14	25.51	26.88	
1.52	0.21	0.33	0.46	0.59	0.72	0.84	0.97	1.10	1.22	1.35	1.48	1.60	1.73	1.86	1.99	2.12	2.24	2.37	2.50	
66	2.55	4.08	5.61	7.14	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	
1.68	0.23	0.37	0.52	0.66	0.80	0.94	1.09	1.23	1.37	1.51	1.66	1.80	1.94	2.08	2.23	2.37	2.51	2.66	2.80	
72	2.78	4.44	6.11	7.78	9.45	11.12	12.78	14.45	16.12	17.79	19.46	21.13	22.79	24.46	26.13	27.80	29.47	31.13	32.80	
1.83	0.25	0.41	0.56	0.72	0.87	1.03	1.18	1.34	1.49	1.65	1.80	1.96	2.11	2.27	2.42	2.58	2.74	2.89	3.05	
78	3.05	4.88	6.71	8.54	10.37	12.20	14.03	15.86	17.70	19.53	21.36	23.19	25.02	26.85	28.68	30.51	32.34	34.17	36.00	
1.98	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	2.84	3.01	3.18	3.35	
84	3.28	5.26	7.23	9.20	11.17	13.14	15.12	17.09	19.06	21.03	23.01	24.98	26.95	28.92	30.90	32.87	34.84	36.81	38.79	
2.13	0.30	0.48	0.67	0.85	1.03	1.22	1.40	1.58	1.77	1.95	2.13	2.32	2.50	2.68	2.87	3.05	3.24	3.42	3.60	
90	3.55	5.68	7.81	9.94	12.07	14.21	16.34	18.47	20.60	22.73	24.86	27.00	29.13	31.26	33.39	35.53	37.66	39.79	41.92	
2.29	0.33	0.52	0.72	0.92	1.12	1.32	1.51	1.71	1.91	2.11	2.31	2.50	2.70	2.90	3.10	3.30	3.50	3.70	3.90	
96	3.82	6.12	8.42	10.71	13.01	15.31	17.60	19.90	22.20	24.49	26.79	29.09	31.38	33.68	35.97	38.27	40.57	42.86	45.16	
2.44	0.35	0.56	0.78	0.99	1.20	1.42	1.63	1.84	2.06	2.27	2.48	2.70	2.91	3.12	3.34	3.56	3.77	3.98	4.20	

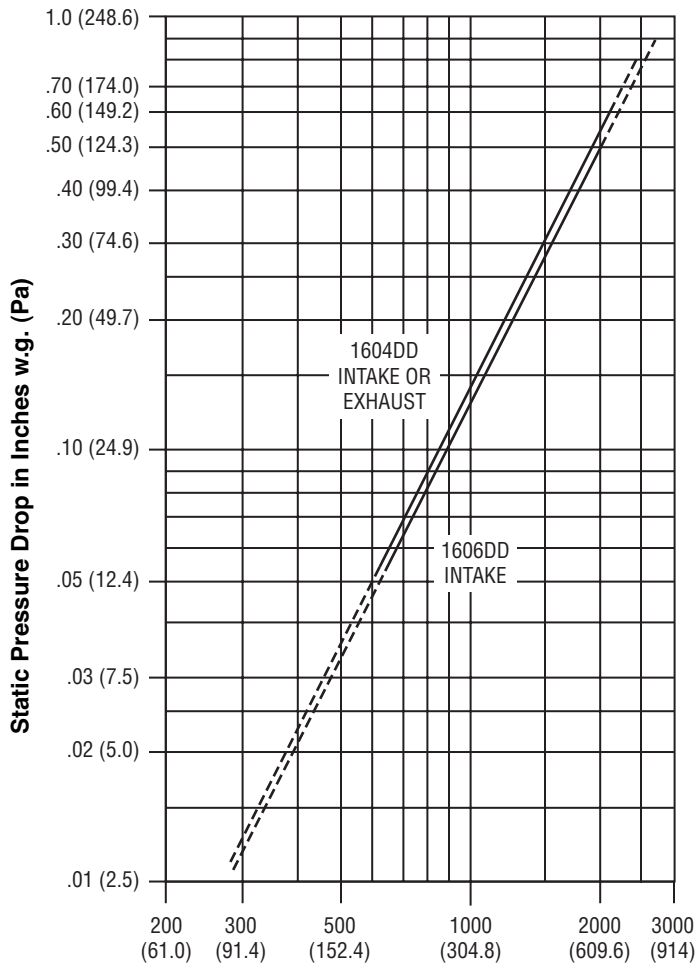
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LOUVERS

MODEL: 1606DD

		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
Height in Inches and Meters	16	0.35	0.56	0.77	0.98	1.19	1.40	1.61	1.82	2.03	2.24	2.45	2.66	2.87	3.08	3.29	3.50	3.71	3.92	4.13
	.41	0.03	0.05	0.07	0.09	0.11	0.13	0.15	0.17	0.19	0.21	0.23	0.25	0.27	0.29	0.31	0.33	0.35	0.37	0.38
	18	0.44	0.70	0.97	1.23	1.49	1.76	2.02	2.29	2.55	2.82	3.08	3.35	3.61	3.88	4.14	4.41	4.67	4.94	5.20
	.46	0.04	0.06	0.09	0.11	0.14	0.16	0.18	0.21	0.23	0.26	0.28	0.31	0.33	0.36	0.38	0.41	0.43	0.46	0.48
	24	0.70	1.12	1.55	1.97	2.39	2.82	3.24	3.66	4.09	4.51	4.93	5.36	5.78	6.20	6.62	7.05	7.47	7.89	8.31
	.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	0.53	0.57	0.61	0.66	0.69	0.73	0.77
	30	0.97	1.55	2.13	2.71	3.29	3.87	4.46	5.04	5.62	6.20	6.78	7.37	7.95	8.53	9.11	9.70	10.28	10.86	11.44
	.76	0.09	0.14	0.20	0.25	0.30	0.36	0.41	0.46	0.52	0.57	0.63	0.68	0.74	0.79	0.84	0.90	0.96	1.01	1.06
	36	1.23	1.97	2.71	3.45	4.19	4.93	5.68	6.42	7.16	7.90	8.64	9.38	10.12	10.86	11.60	12.34	13.08	13.82	14.56
	.91	0.11	0.18	0.25	0.32	0.39	0.46	0.53	0.59	0.66	0.73	0.80	0.87	0.94	1.01	1.08	1.15	1.22	1.28	1.35
	42	1.50	2.41	3.31	4.22	5.13	6.03	6.93	7.84	8.74	9.65	10.55	11.46	12.37	13.27	14.18	15.08	15.99	16.90	17.80
	1.07	0.14	0.22	0.31	0.39	0.47	0.56	0.64	0.73	0.81	0.89	0.98	1.06	1.15	1.23	1.31	1.40	1.49	1.57	1.65
	48	1.77	2.83	3.89	4.96	6.02	7.08	7.74	9.21	10.27	11.34	12.40	13.47	14.53	15.59	16.66	17.72	18.79	19.85	20.91
	1.22	0.16	0.26	0.36	0.46	0.56	0.66	0.72	0.85	0.95	1.05	1.15	1.25	1.35	1.45	1.55	1.65	1.75	1.84	1.94
	54	2.03	3.25	4.47	5.70	6.92	8.14	9.36	10.58	11.80	13.03	14.25	15.47	16.69	17.91	19.14	20.36	21.58	22.80	24.02
	1.37	0.18	0.30	0.41	0.53	0.64	0.75	0.87	0.98	1.10	1.21	1.32	1.43	1.55	1.66	1.78	1.89	2.01	2.12	2.23
60	2.29	3.67	5.05	6.42	7.80	9.18	10.56	11.93	13.31	14.69	16.07	17.44	18.82	20.20	21.58	22.96	24.34	25.72	27.10	
1.52	0.21	0.34	0.47	0.59	0.72	0.85	0.98	1.11	1.23	1.36	1.49	1.62	1.75	1.87	2.00	2.13	2.26	2.39	2.52	
66	2.56	4.10	5.64	7.17	8.71	10.25	11.79	13.33	14.86	16.40	17.94	19.48	21.02	22.56	24.10	25.64	27.18	28.72	30.26	
1.68	0.23	0.38	0.52	0.66	0.81	0.95	1.09	1.24	1.38	1.52	1.66	1.81	1.95	2.09	2.24	2.38	2.53	2.67	2.81	
72	2.82	4.52	6.22	7.91	9.61	11.30	13.00	14.70	16.39	18.09	19.79	21.49	23.18	24.88	26.57	28.27	29.97	31.67	33.36	
1.83	0.26	0.42	0.57	0.73	0.89	1.05	1.21	1.36	1.52	1.68	1.84	1.99	2.15	2.31	2.47	2.63	2.79	2.94	3.10	
78	3.09	4.94	6.80	8.65	10.50	12.36	14.21	16.07	17.92	19.78	21.63	23.49	25.34	27.19	29.05	30.90	32.76	34.61	36.46	
1.98	0.28	0.46	0.63	0.80	0.97	1.15	1.32	1.49	1.66	1.84	2.01	2.18	2.35	2.52	2.70	2.87	3.04	3.22	3.39	
84	3.35	5.36	7.37	9.39	11.40	13.41	15.42	17.44	19.45	21.46	23.47	25.49	27.50	29.51	31.52	33.54	35.55	37.56	39.57	
2.13	0.31	0.50	0.68	0.87	1.06	1.24	1.43	1.62	1.81	1.99	2.18	2.37	2.55	2.74	2.93	3.12	3.30	3.49	3.68	
90	3.61	5.78	7.95	10.12	12.29	14.46	16.63	18.80	20.97	23.14	25.31	27.49	29.65	31.82	34.00	36.17	38.34	40.52	42.69	
2.29	0.33	0.53	0.74	0.94	1.14	1.34	1.54	1.74	1.95	2.15	2.35	2.55	2.75	2.95	3.16	3.36	3.56	3.77	3.97	
96	3.88	6.20	8.53	10.86	13.19	15.52	17.84	20.17	22.50	24.83										

PERFORMANCE DATA MODELS: 1604DD & 1606DD PRESSURE DROP



Nailor Industries certifies the Models 1604DD and 1606DD 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 ratings and water penetration ratings.

A
LOUVERS

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.

AIRFLOW/WATER PENETRATION DATA

for 48" x 48" (1219 x 1219) Louver Size

Model	1604DD	1606DD
Free Area %	50%	49%
Free Area sq. ft. (sq. m.)	7.97 (0.74)	7.74 (0.72)
Free Area Velocity at Point of Beginning Water Penetration at .01 oz./sq. ft. (3 ml/sq. m) (15 min. test duration)	978 fpm (298 m/min.)	1164 fpm (355 m/min.)
Air Volume @ Free Area Velocity shown	7795 cfm (3678 l/s)	9009 cfm (4251 l/s)
Pressure Drop @ Free Area Velocity shown	.14 in. w.g. (35 Pa)	.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.

SUGGESTED SPECIFICATION:**MODEL 1604DD**

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 style (**or specifier to select:** flanged style) with a drainable head frame and side frames that incorporate dual hidden downspouts that allow water to drain from blade ends down to sill. Frame shall be constructed from type 6063-T5 extruded aluminum of .080" (2.03) nominal wall thickness. Blades shall be drainable style incorporating dual rain gutters that divert collected water to hidden downspouts in side frames, and shall be constructed from type 6063-T5 extruded aluminum of .080" (2.03) nominal wall thickness. Blades shall be fixed at 37 degrees on approximately 4" (102) centers and shall be supported by angle reinforced concealed brackets as required to withstand wind loads of 25 pounds per square foot. Large louvers that require multiple sections for shipping shall be constructed with exposed mullions to accommodate watershedding requirements and shall be installed together on site. Louvers shall be equipped with removable 1/2" x 1/2" x 19 ga. (13 x 13 x 1.0) galvanized bird screen. Finish shall be standard mill (**or specifier to select:** Polyester baked enamel; color to be selected from Nailor standard color chart **or** Kynar 500/Hylar 5000 70% PVDF coating; color to be selected from Nailor standard color chart **or** 204-R1 clear anodized to a min. depth of 0.4 mil **or** 215-R1 clear anodized to a min. depth of 0.7 mil **or** color anodized; color to be selected from standard Nailor anodizing colors). 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 Model 1604DD.

SUGGESTED SPECIFICATION:**MODEL 1606DD**

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 style (**or specifier to select:** flanged style) with a drainable head frame and side frames that incorporate dual hidden downspouts that allow water to drain from blade ends down to sill. Frame shall be constructed from type 6063-T5 extruded aluminum of .080" (2.03) nominal wall thickness. Blades shall be drainable style incorporating dual rain gutters that divert collected water to hidden downspouts in side frames, and shall be constructed from type 6063-T5 extruded aluminum of .080" (2.03) nominal wall thickness. Blades shall be fixed at 37 degrees on approximately 6" (152) centers and shall be supported by angle reinforced concealed brackets as required to withstand wind loads of 25 pounds per square foot. Large louvers that require multiple sections for shipping shall be constructed with exposed mullions to accommodate watershedding requirements and shall be installed together on site. Louvers shall be equipped with removable 1/2" x 1/2" x 19 ga. (13 x 13 x 1.0) galvanized bird screen. Finish shall be standard mill (**or specifier to select:** Polyester baked enamel; color to be selected from Nailor standard color chart **or** Kynar 500/Hylar 5000 70% PVDF coating; color to be selected from Nailor standard color chart **or** 204-R1 clear anodized to a min. depth of 0.4 mil **or** 215-R1 clear anodized to a min. depth of 0.7 mil **or** color anodized; color to be selected from standard Nailor anodizing colors). 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 Model 1606DD.