

Construction Specialties Inc. certifies that the louver model DC-4174 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 ratings and water penetration ratings.

TEST DATA:

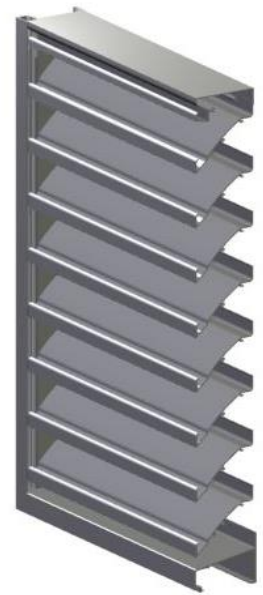
For a 4 Foot by 4 Foot Unit. Tested with mill finish and no screen

- Free area = 8.80 ft² (0.82 m²)
- Percent free area = 55.0%
- Free area velocity at the point of beginning water penetration (@0.01oz./ft² of free area based on a 15 minute interval test) = 1087 FPM (5.52 m/s)
- Maximum recommended air intake velocity = 887 FPM (4.51 m/s)
Air volume @ 887 FPM free area velocity = 7806 CFM (3.68 m³/s)
Pressure drop @ 887 FPM intake velocity = 0.12 in. H₂O (29.8 Pa)

NOA# 18-0117.07

Florida Product Approval #21658

Maximum Design Windload 170 PSF



DADE COUNTY PROTOCOLS:

- TAS-201:** Large and small missile impact
- TAS-202:** Criteria for testing impact and not impact resistant building
Envelope components using static uniform air pressure
- TAS-203:** Criteria for testing products subject to cyclic wind pressure

SUGGESTED SPECIFICATIONS:

GENERAL: Furnish and install where indicated on the drawings C/S 4" (101.6 mm) DADE COUNTY HURRICANE LOUVER **MODEL DC-4174** as manufactured by Construction Specialties, Inc. Lebanon, New Jersey. Complete details shall be submitted to the architect for approval prior to fabrication. The supplier must be a member of AMCA or BSRIA.

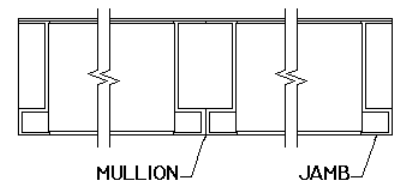
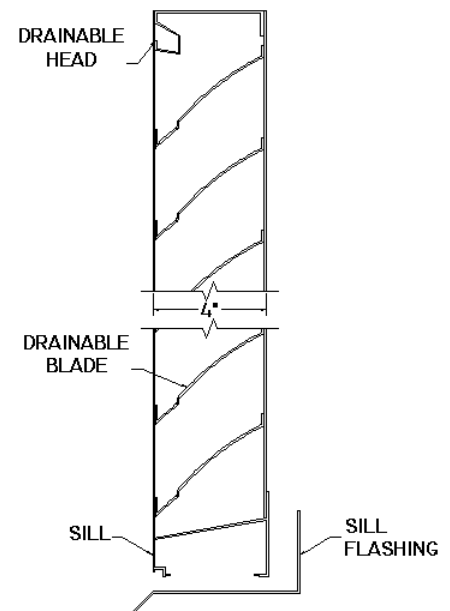
MATERIAL: Heads, sills and jamps to be one piece structural members of 6063-T6 alloy. Mullions shall be sliding interlock with internal drain(s). Blades to be one piece extrusions with gutter(s) designed to catch and direct water to jamb and mullion drains. Extrusion thicknesses shall be as follows: Heads: 0.070" (1.78 mm). Sills: 0.080" (2.03mm). Jamps and Mullions: 0.125" (3.18mm). Fixed Blades: 0.070" (1.78 mm). Closed cell PVC compression gaskets shall be provided between bottom of the mullion or jamb and the top of the sill to insure leak tight connections. All fasteners to be aluminum, plated carbon steel or stainless steel. All louvers to be furnished with 5/8" (15.87 mm) flattened expanded mesh, aluminum bird screen with a 0.055" (1.4 mm) thick extruded aluminum frame. Screens and screen frames to be standard mill finish.

STRUCTURAL DESIGN: Louvers must be tested in accordance with Dade County protocols TAS-201, TAS-202, TAS-203. Louvers shall be Dade County approved for open structure building envelope protection (including missile). To maintain Dade County product approval status, the louvers must be attached to a structural substrate in accordance with the Dade County Product Approval Drawings. In addition, the structural substrate to which the louvers are attached must be designed to withstand the point loads transferred by the louvers when subjected to the design wind loads.

TEST DATA: The louver manufacturer shall submit test data on a 4' x 4' (1.22 m x 1.22 m) unit showing that the louver conforms to the following: (Based on a 15 min. test duration)

Free area:	8.80 ft ² (0.82 m ²)
Free area velocity @ point of beginning water penetration (0.01 oz/ ft ²):	1087 FPM (5.52 m/s)
Intake pressure drop at 0.01 oz. ft ² free area velocity:	0.18 in. H ₂ O (44.7 Pa)
Exhaust pressure drop at 1000 FPM (5.08 m/s) free area velocity :	0.13 in. H ₂ O (32.3 Pa)

FINISH: All louvers shall be finished with C/S Powder Coat, a coating to be 1.5 to 3 mil. thick full strength **100% resin Fluoropolymer coating. Finish to allow zero VOCs** to be emitted into facility of application. Finish to adhere to a 4H Hardness rating. All finishing procedures shall be one continuous operation in the plant of the manufacturer. **The coating shall meet or exceed all requirements of AAMA specification 2605** "Voluntary Specification for High Performance Organic Coatings on Architectural extrusions and Panels." The louver manufacturer shall supply an industry standard **20-year limited warranty against failure or excessive fading** of the Fluoropolymer Powder Coat finish. This limited warranty shall begin on the date of material shipment.



PLAN VIEW

Discharge Coefficient

Intake Cd = 0.39 (Class 2)

AMCA certifies the coefficient class only

To download details and specifications visit www.c-sgroup.com. For technical and design assistance call 800-631-7379

PERFORMANCE DATA MODEL DC-4174

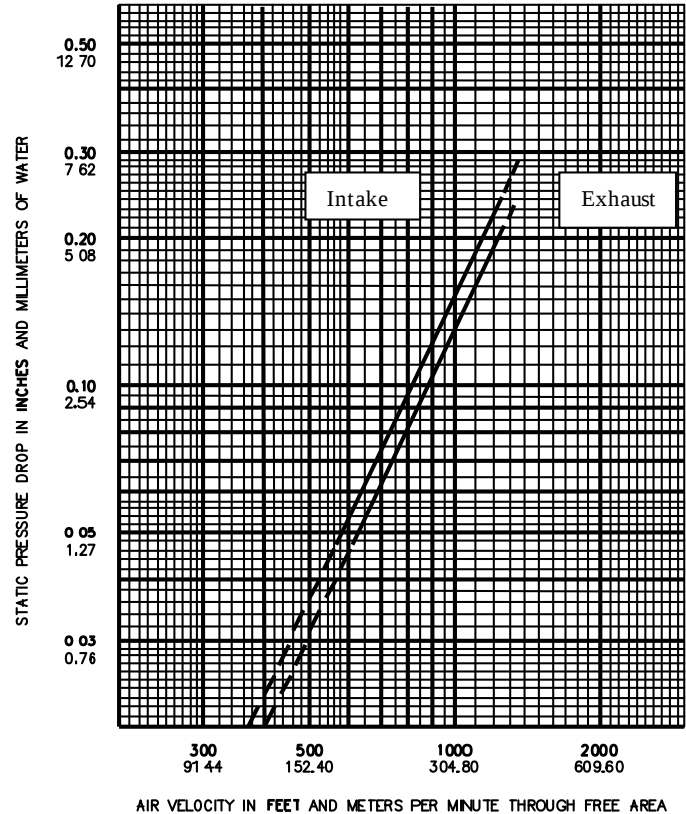
Width in Inches and Meters

Height in Inches and Meters

	18 0.46	24 0.61	30 0.76	36 0.91	42 1.07	48 1.22	54 1.37	60 1.52
18	0.91	1.25	1.60	1.95	2.29	2.51	2.86	3.20
0.46	0.08	0.12	0.15	0.18	0.21	0.23	0.27	0.30
24	1.30	1.80	2.29	2.79	3.28	3.59	4.09	4.59
0.61	0.12	0.17	0.21	0.26	0.31	0.33	0.38	0.43
30	1.79	2.47	3.15	3.83	4.52	4.94	5.62	6.30
0.76	0.17	0.23	0.29	0.36	0.42	0.46	0.52	0.59
36	2.28	3.14	4.01	4.88	5.75	6.29	7.16	8.02
0.91	0.21	0.29	0.37	0.45	0.53	0.58	0.66	0.75
42	2.76	3.81	4.86	5.91	6.97	7.62	8.67	9.73
1.07	0.26	0.35	0.45	0.55	0.65	0.71	0.81	0.90
48	3.19	4.40	5.61	6.83	8.04	8.80	10.01	11.22
1.22	0.30	0.41	0.52	0.63	0.75	0.82	0.93	1.04
54	3.62	5.00	6.37	7.75	9.13	9.99	11.37	12.75
1.37	0.34	0.46	0.59	0.72	0.85	0.93	1.06	1.18
60	4.05	5.59	7.14	8.68	10.22	11.19	12.73	14.28
1.52	0.38	0.52	0.66	0.81	0.95	1.04	1.18	1.33
66	4.47	6.17	7.88	9.58	11.28	12.35	14.05	15.76
1.68	0.42	0.57	0.73	0.89	1.05	1.15	1.31	1.46
72	4.96	6.85	8.74	10.63	12.52	13.70	15.59	17.47
1.83	0.46	0.64	0.81	0.99	1.16	1.27	1.45	1.62
78	5.45	7.53	9.60	11.68	13.75	15.05	17.13	19.20
1.98	0.51	0.70	0.89	1.08	1.28	1.40	1.59	1.78
84	5.90	8.15	10.40	12.65	14.90	16.30	18.55	20.80
2.13	0.55	0.76	0.97	1.18	1.38	1.51	1.72	1.93
90	6.33	8.74	11.15	13.56	15.97	17.48	19.89	22.30
2.29	0.59	0.81	1.04	1.26	1.48	1.62	1.85	2.07
96	6.76	9.34	11.91	14.49	17.06	18.67	21.25	23.82
2.44	0.63	0.87	1.11	1.35	1.59	1.73	1.97	2.21
102	7.15	9.88	12.60	15.33	18.05	19.76	22.48	25.21
2.59	0.66	0.92	1.17	1.42	1.68	1.84	2.09	2.34
108	7.64	10.55	13.46	16.37	19.29	21.10	24.02	26.93
2.74	0.71	0.98	1.25	1.52	1.79	1.96	2.23	2.50
114	8.13	11.23	14.32	17.42	20.52	22.45	25.55	28.65
2.90	0.76	1.04	1.33	1.62	1.91	2.09	2.37	2.66
120	8.61	11.89	15.17	18.46	21.74	23.79	27.07	30.35
3.05	0.80	1.10	1.41	1.71	2.02	2.21	2.51	2.82
126	9.04	12.48	15.92	19.37	22.81	24.96	28.40	31.85
3.20	0.84	1.16	1.48	1.80	2.12	2.32	2.64	2.96
132	9.47	13.08	16.69	20.29	23.90	26.16	29.76	33.37
3.35	0.88	1.22	1.55	1.89	2.22	2.43	2.77	3.10
138	9.90	13.68	17.45	21.22	25.00	27.35	31.13	34.90
3.51	0.92	1.27	1.62	1.97	2.32	2.54	2.89	3.24
144	10.32	14.26	18.19	22.12	26.06	28.51	32.45	36.38
3.66	0.96	1.32	1.69	2.06	2.42	2.65	3.01	3.38
150	10.81	14.93	19.05	23.17	27.29	29.86	33.98	38.10
3.81	1.00	1.39	1.77	2.15	2.53	2.77	3.16	3.54
156	11.30	15.61	19.91	24.22	28.53	31.22	35.52	39.83
3.96	1.05	1.45	1.85	2.25	2.65	2.90	3.30	3.70
162	11.76	16.23	20.71	25.19	29.67	32.47	36.94	41.42
4.11	1.09	1.51	1.92	2.34	2.76	3.02	3.43	3.85
168	12.18	16.82	21.46	26.10	30.74	33.64	38.28	42.92
4.27	1.13	1.56	1.99	2.42	2.86	3.13	3.56	3.99
174	12.61	17.42	22.22	27.03	31.83	34.84	39.64	44.45
4.42	1.17	1.62	2.06	2.51	2.96	3.24	3.68	4.13
180	13.01	17.96	22.92	27.87	32.83	35.92	40.88	45.83
4.57	1.21	1.67	2.13	2.59	3.05	3.34	3.80	4.26
186	13.49	18.63	23.77	28.92	34.06	37.27	42.41	47.55
4.72	1.25	1.73	2.21	2.69	3.16	3.46	3.94	4.42
192	13.98	19.31	24.63	29.96	35.29	38.62	43.94	49.27
4.88	1.30	1.79	2.29	2.78	3.28	3.59	4.08	4.58
198	14.46	19.98	25.49	31.00	36.51	39.95	45.46	50.97
5.03	1.34	1.86	2.37	2.88	3.39	3.71	4.22	4.74

Water Penetration Statement

AMCA defines the point of beginning water penetration as the free area velocity at which the AMCA water test has yielded 0.01 or less ounces of water per square foot of louver free area during a 15-minute test period.



For a 48" X 48" sized louver tested to figure 5.5.
Data corrected to standard air density.

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Upper Numerals English Units/Lower Numerals Metric Units

DC-4174-06