

Construction Specialties Inc. certifies that the louver model DC-6174 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. The AMCA Certified Ratings Seal applies to Water Penetration Ratings and Air Performance ratings.

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

- Free area = 9.22 ft<sup>2</sup> (0.850 m<sup>2</sup>)
- Percent free area = 57.6%
- Free area velocity at the point of beginning water penetration  
(@ 0.01oz./ft<sup>2</sup> of free area based on a 15 minute interval test) = 1046 FPM (5.31 m/s)
- Maximum recommended air intake velocity = 846 FPM (4.30 m/s)  
Air volume @ 846 FPM free area velocity = 7800 CFM (3.68 m<sup>3</sup>/s)  
Pressure drop @ 846 FPM intake velocity = 0.12 in. H<sub>2</sub>O (30.8 Pa)
- Maximum recommended air exhaust velocity = 1919 FPM (9.75 m/s)  
Air Volume @ 1919 FPM free area velocity = 17693 CFM (8.35 m<sup>3</sup>/s)  
Pressure drop @ 1919 FPM free area velocity = 0.50 in. H<sub>2</sub>O (124.2 Pa)

**DADE COUNTY PROTOCOLS:**

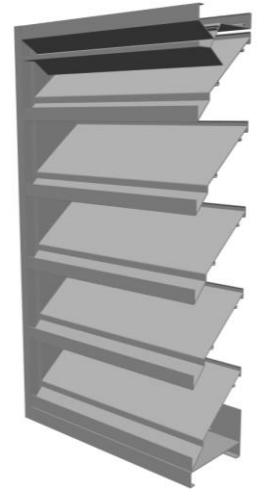
- TAS-201:** Large and small missile impact  
Criteria for testing impact and not impact resistant building
- TAS-202:** Envelope components using static uniform air pressure  
Criteria for testing products subject to cyclic wind pressure
- TAS-203:** Envelope components using static uniform air pressure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

**NOA# 18-0117.09**

**Florida Product Approval #15929**

**Maximum Design Windload 170 PSF**

**TDI Approval No: LVR-20**



**SUGGESTED SPECIFICATIONS:**

**GENERAL:** Furnish and install where indicated on the drawings C/S 6" (152.6 mm) DADE COUNTY HURRICANE LOUVER **MODEL DC-6174** 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.

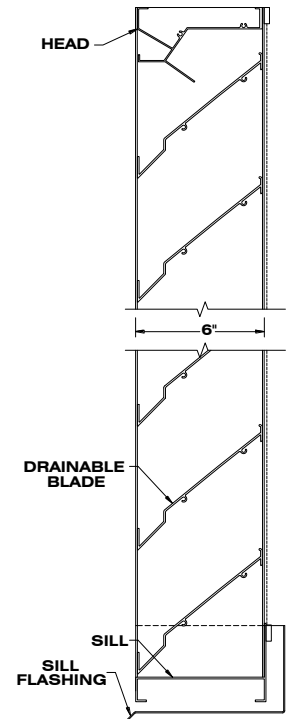
**MATERIAL:** Heads, sills and jambs to be one piece structural members of 6063-T6 alloy with integral caulking slot and retaining beads. Mullions shall be sliding interlock with internal drain(s). Blades to be one piece extrusions with gutter(s) designed to catch and direct water to jamb and mullion drains. Extrusion thicknesses shall be as follows: Heads: 0.060" (1.52 mm), Sills: 0.081" (2.06 mm), jambs and mullions: 0.125" (3.18 mm) Fixed Blades: 0.081" (2.06 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 1/2" intercrimp aluminum mesh, 0.063" diameter wire removable aluminum bird screen in an aluminum frame. Screens and screen frames to be standard mill finish.

**STRUCTURAL DESIGN:** Structural supports shall be designed and furnished by the louver manufacturer to carry a wind load of not less than \_\_\_\_\_ psf (Pascals). (Note: If this paragraph is omitted or if the design wind load is not specified, the louvers will be manufactured in self-supporting units up to a maximum of 5' (1524 mm) wide by 8' (2438 mm) high. Any additional structural supports required to adequately secure these units within the opening shall be the responsibility of others.)

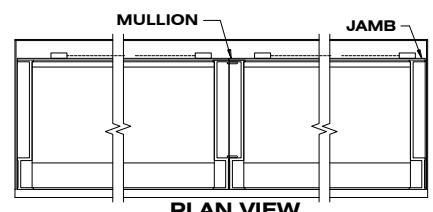
**TEST DATA:** The louver manufacturer shall submit test data on a 4' x 4' (1.22 m x 1.22 m) unit showing that the louver conforms to the following: (Based on a 15 min. test duration)

Free area:	9.22 ft <sup>2</sup> (0.850 m <sup>2</sup> )
Free area velocity @ point of beginning water penetration (0.01 oz/ ft <sup>2</sup> ):	1046 FPM (5.31 m/s)
Intake pressure drop at 0.01 oz. ft <sup>2</sup> free area velocity:	0.19 in. H <sub>2</sub> O (46.9 Pa)
Exhaust pressure drop at 1000 FPM (5.08 m/s) free area velocity :	0.14 in. H <sub>2</sub> O (33.8 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.



**SECTION VIEW**



**PLAN VIEW**

**Discharge Coefficient**  
Intake Cd = 0.38 (Class 2)  
AMCA certifies the coefficient class only

# PERFORMANCE DATA MODEL DC-6174

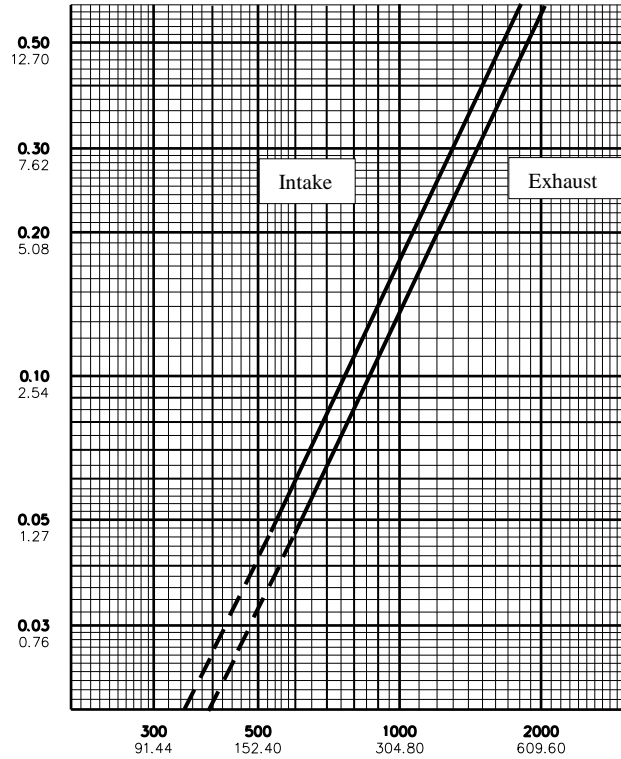
## Water Penetration Statement

### Width in Inches and Meters

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.

Height in Inches and Meters

	18	24	30	36	42	48	54	60
	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52
18	1.00	1.36	1.72	2.08	2.44	2.81	3.17	3.53
0.46	0.09	0.13	0.16	0.19	0.23	0.26	0.29	0.33
24	1.45	1.98	2.51	3.03	3.56	4.09	4.62	5.14
0.61	0.13	0.18	0.23	0.28	0.33	0.38	0.43	0.48
30	1.91	2.60	3.29	3.98	4.68	5.37	6.06	6.76
0.76	0.18	0.24	0.31	0.37	0.43	0.50	0.56	0.63
36	2.36	3.22	4.08	4.94	5.79	6.65	7.51	8.37
0.91	0.22	0.30	0.38	0.46	0.54	0.62	0.70	0.78
42	2.82	3.84	4.86	5.89	6.91	7.93	8.96	9.98
1.07	0.26	0.36	0.45	0.55	0.64	0.74	0.83	0.93
48	3.27	4.46	5.65	6.84	8.03	9.22	10.41	11.59
1.22	0.30	0.41	0.52	0.64	0.75	0.86	0.97	1.08
54	3.73	5.08	6.43	7.79	9.14	10.50	11.85	13.21
1.37	0.35	0.47	0.60	0.72	0.85	0.98	1.10	1.23
60	4.18	5.70	7.22	8.74	10.26	11.78	13.30	14.82
1.52	0.39	0.53	0.67	0.81	0.95	1.09	1.24	1.38
66	4.68	6.38	8.08	9.78	11.48	13.18	14.88	16.59
1.68	0.43	0.59	0.75	0.91	1.07	1.22	1.38	1.54
72	5.16	7.04	8.92	10.79	12.67	14.55	16.42	18.30
1.83	0.48	0.65	0.83	1.00	1.18	1.35	1.53	1.70
78	5.64	7.70	9.75	11.80	13.86	15.91	17.96	20.01
1.98	0.52	0.72	0.91	1.10	1.29	1.48	1.67	1.86
84	6.13	8.36	10.59	12.81	15.04	17.27	19.50	21.73
2.13	0.57	0.78	0.98	1.19	1.40	1.60	1.81	2.02
90	6.61	9.01	11.41	13.82	16.22	18.62	21.02	23.43
2.29	0.61	0.84	1.06	1.28	1.51	1.73	1.95	2.18
96	7.08	9.66	12.23	14.81	17.39	19.96	22.54	25.11
2.44	0.66	0.90	1.14	1.38	1.62	1.85	2.09	2.33
102	7.56	10.31	13.06	15.81	18.55	21.30	24.05	26.80
2.59	0.70	0.96	1.21	1.47	1.72	1.98	2.23	2.49
108	8.04	10.96	13.88	16.80	19.73	22.65	25.57	28.49
2.74	0.75	1.02	1.29	1.56	1.83	2.10	2.38	2.65
114	8.52	11.61	14.71	17.81	20.90	24.00	27.10	30.19
2.90	0.79	1.08	1.37	1.65	1.94	2.23	2.52	2.81
120	8.96	12.22	15.48	18.74	22.00	25.26	28.52	31.78
3.05	0.83	1.14	1.44	1.74	2.04	2.35	2.65	2.95
126	9.42	12.84	16.27	19.69	23.12	26.54	29.97	33.39
3.20	0.87	1.19	1.51	1.83	2.15	2.47	2.78	3.10
132	9.87	13.46	17.05	20.64	24.23	27.82	31.41	35.00
3.35	0.92	1.25	1.58	1.92	2.25	2.58	2.92	3.25
138	10.33	14.08	17.84	21.59	25.35	29.10	32.86	36.62
3.51	0.96	1.31	1.66	2.01	2.36	2.70	3.05	3.40
144	10.78	14.70	18.62	22.54	26.47	30.39	34.31	38.23
3.66	1.00	1.37	1.73	2.09	2.46	2.82	3.19	3.55
150	11.24	15.32	19.41	23.50	27.58	31.67	35.75	39.84
3.81	1.04	1.42	1.80	2.18	2.56	2.94	3.32	3.70
156	11.91	16.25	20.58	24.91	29.24	33.57	37.91	42.24
3.96	1.11	1.51	1.91	2.31	2.72	3.12	3.52	3.92
162	12.37	16.87	21.36	25.86	30.36	34.86	39.35	43.85
4.11	1.15	1.57	1.98	2.40	2.82	3.24	3.66	4.07
168	12.82	17.49	22.15	26.81	31.47	36.14	40.80	45.46
4.27	1.19	1.62	2.06	2.49	2.92	3.36	3.79	4.22
174	13.28	18.11	22.93	27.76	32.59	37.42	42.25	47.08
4.42	1.23	1.68	2.13	2.58	3.03	3.48	3.92	4.37
180	13.73	18.73	23.72	28.71	33.71	38.70	43.70	48.69
4.57	1.28	1.74	2.20	2.67	3.13	3.60	4.06	4.52
186	14.19	19.35	24.51	29.67	34.82	39.98	45.14	50.30
4.72	1.32	1.80	2.28	2.76	3.24	3.71	4.19	4.67
192	14.64	19.97	25.29	30.62	35.94	41.27	46.59	51.91
4.88	1.36	1.86	2.35	2.84	3.34	3.83	4.33	4.82
198	15.10	20.59	26.08	31.57	37.06	42.55	48.04	53.53
5.03	1.40	1.91	2.42	2.93	3.44	3.95	4.46	4.97



AIR VELOCITY IN FEET AND METERS PER MINUTE THROUGH FREE AREA

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

**Construction Specialties, Inc.**  
Manufacturing & Sales Locations  
[www.c-sgroup.com](http://www.c-sgroup.com)

Lebanon, New Jersey  
3 Werner Way 08833  
Telephone: (800) 631-7379  
[louvers@c-sgroup.com](mailto:louvers@c-sgroup.com)

For assistance with overseas requirements, call  
C/S International (908) 236-0800

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