

Construction Specialties Inc. certifies that Model DC-9614 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 wind driven rain and air performance ratings only.

APPLICATION AND DESIGN:

DC-9614 is tested in accordance with AMCA 500-L Air Performance and Wind Driven Rain. DC-9614 is tested in accordance with AMCA 550 Test Method for High Velocity Wind Driven Rain Resistant Louvers. DC-9614 is tested in accordance with AMCA 540 Test Method for Louvers Impacted by Wind Borne Debris (Basic Protection, Missile Level D and Enhanced Protection, Missile Level E).

Minimum louver section size to be 16" x 16".

TEST DATA:

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

➤ Free Area = 9.46 ft² (0.88m²) = 59.1%

To maintain a **CLASS A (99%) effectiveness rating** with a 50 mph wind speed an rainfall rate of 8 in/hr

- Maximum intake core velocity 5.0 m/s (977 FPM)
- Maximum intake free area velocity 7.57 m/s (1490 FPM)
- Intake pressure drop 188 Pa (0.76 in. H₂O)
- Intake capacity 5.0 m³/s (10513 CFM)

*louver tested with 1m² core area, mill finish and no screen

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



Dade County N.O.A. # 17-1218.26
Maximum wind-load: 160 PSF
Florida Product Approval #FL-21146

Discharge Coefficient

Intake Cd = 0.29 (Class 3)

AMCA certifies the coefficient class only

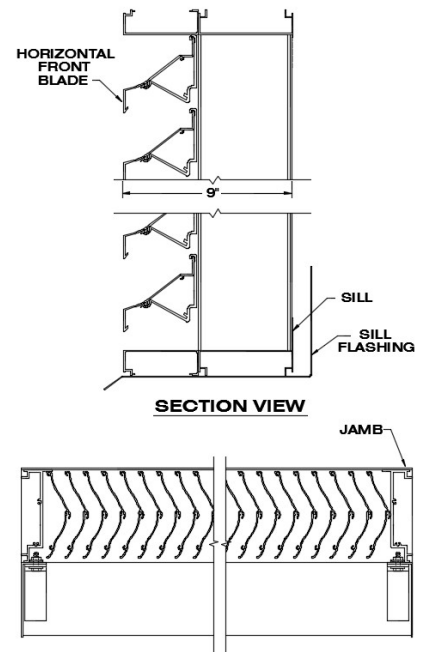
SUGGESTED SPECIFICATIONS:

GENERAL: Furnish and install where indicated on the drawings C/S 9" (228.6 mm) STORM RESISTANT DADE COUNTY HURRICANE LOUVER **MODEL DC-9614** as manufactured by Construction Specialties, Inc., Lebanon, NJ. Complete details shall be submitted to the architect for approval prior to fabrication. The supplier must be a member of AMCA or BSRIA.

MATERIAL: Frames and blades to be fabricated from 6063-T6 aluminum alloy. Louver to be mechanically fastened using stainless steel or aluminum fasteners. Louvers to be supplied with 6" (152.4 mm) high by full depth sill flashing formed from minimum 0.050" (1.27 mm) thick aluminum. Sill flashing to have welded side panels. Louvers and sill flashing to be installed in accordance with the manufacturer's recommended procedures to ensure complete water integrity performance of louver system. All louvers to be furnished with 5/8" (15.87 mm) flattened expanded mesh, aluminum bird screen with a .055" (1.4 mm) thick extruded aluminum frame.

STRUCTURAL DESIGN: Structural supports shall be designed and furnished by the louver manufacturer to carry a wind load of not less than ____ psf. (kPa). (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 4' (1524 mm) wide by 10' (2438 mm) high. Any additional structural supports required to adequately secure these units within the opening shall be the responsibility of others.)

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.



HIGH VELOCITY
RAIN RESISTANT
AND IMPACT RESISTANT
LOUVER
Enhanced Protection

See www.AMCA.org for all certified or listed products

This label does not represent
AMCA airflow performance
certification.

Construction Specialties Inc. certifies that the louver model DC-9614 shown herein is approved to bear the AMCA Listing Label. The ratings shown are based on tests and procedures performed in accordance with AMCA Publications and comply with the requirements of the AMCA Listing Label Program. The AMCA Listing Label applies to High Velocity Wind Driven Rain Resistant Louvers. The AMCA Listing Label applies to Wind Borne Debris Impact Louvers.

PERFORMANCE DATA MODEL DC-9614

WIND DRIVEN RAIN PERFORMANCE:

The louver test was based on a 39.370" (1.00 m) x 39.370" (1.00 m) core area unit tested at a rainfall rate of 8" per hour (203 mm/hr) and with a wind directed to the face of the louver at a velocity 50 mph (22.4 m/s). The test data shall show the water penetration effectiveness rating at each corresponding ventilation rate.

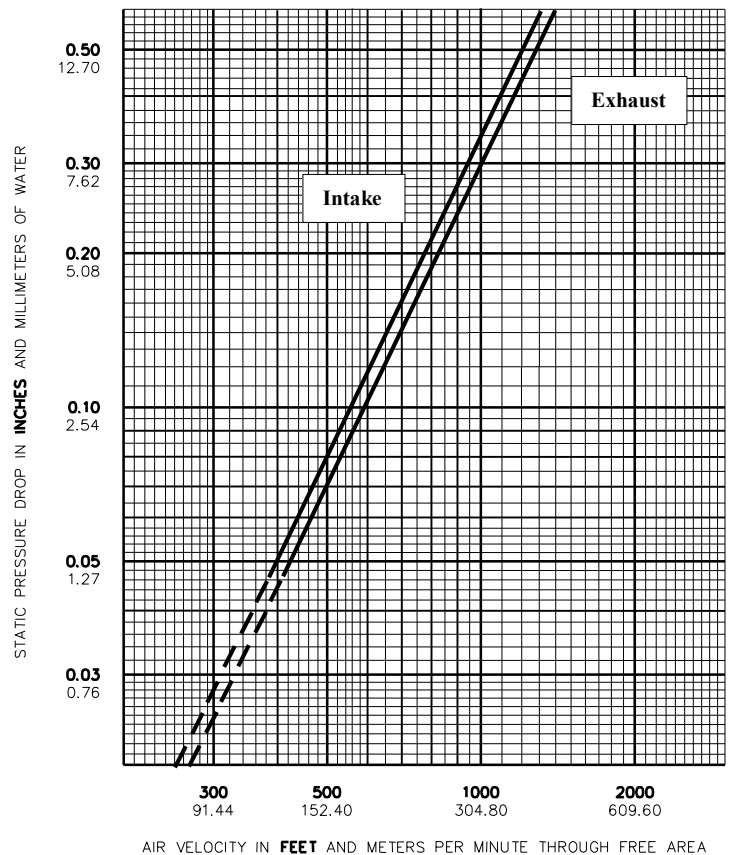
Core Ventilation Rate (m/s):	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.3	5.0
Core Ventilation Rate (ft/min):	0	98	197	295	394	492	591	689	787	854	977
Free Area Velocity (ft/min):	0	150	300	450	600	750	900	1050	1201	1302	1490
Rating Effectiveness:	A	A	A	A	A	A	A	A	A	A	A
Effectiveness Ratio @ 50 & 8 (%)										100.0	99.7
Effectiveness Rating:	A = 1 to 0.99		B = 0.989 to 0.95		C = 0.949 to 0.80		D = 0.80 to 0				

Free Area Table (Free Areas in sq. feet and sq. meters)
Width in Inches and Meters

	16	18	24	30	36	42	48	54	60
	0.41	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52
16	0.68	0.79	1.13	1.47	1.80	2.14	2.48	2.82	3.16
0.41	0.06	0.07	0.10	0.14	0.17	0.20	0.23	0.26	0.29
18	0.80	0.93	1.33	1.72	2.12	2.52	2.92	3.31	3.71
0.46	0.07	0.09	0.12	0.16	0.20	0.23	0.27	0.31	0.34
24	1.15	1.34	1.92	2.50	3.07	3.65	4.22	4.80	5.38
0.61	0.11	0.12	0.18	0.23	0.29	0.34	0.39	0.45	0.50
30	1.51	1.76	2.51	3.27	4.02	4.78	5.53	6.29	7.04
0.76	0.14	0.16	0.23	0.30	0.37	0.44	0.51	0.58	0.65
36	1.87	2.18	3.11	4.04	4.97	5.91	6.84	7.77	8.71
0.91	0.17	0.20	0.29	0.38	0.46	0.55	0.64	0.72	0.81
42	2.22	2.59	3.70	4.81	5.93	7.04	8.15	9.26	10.37
1.07	0.21	0.24	0.34	0.45	0.55	0.65	0.76	0.86	0.96
48	2.58	3.01	4.30	5.59	6.88	8.17	9.46	10.75	12.04
1.22	0.24	0.28	0.40	0.52	0.64	0.76	0.88	1.00	1.12
54	2.94	3.42	4.89	6.36	7.83	9.30	10.76	12.23	13.70
1.37	0.27	0.32	0.45	0.59	0.73	0.86	1.00	1.14	1.27
60	3.29	3.84	5.49	7.13	8.78	10.43	12.07	13.72	15.36
1.52	0.31	0.36	0.51	0.66	0.82	0.97	1.12	1.27	1.43
66	3.65	4.26	6.08	7.91	9.73	11.56	13.38	15.21	17.03
1.68	0.34	0.40	0.57	0.73	0.90	1.07	1.24	1.41	1.58
72	3.83	4.47	6.38	8.29	10.21	12.12	14.03	15.95	17.86
1.83	0.36	0.41	0.59	0.77	0.95	1.13	1.30	1.48	1.66
78	4.18	4.88	6.97	9.07	11.16	13.25	15.34	17.43	19.53
1.98	0.39	0.45	0.65	0.84	1.04	1.23	1.43	1.62	1.81
84	4.54	5.30	7.57	9.84	12.11	14.38	16.65	18.92	21.19
2.13	0.42	0.49	0.70	0.91	1.13	1.34	1.55	1.76	1.97
90	4.90	5.71	8.16	10.61	13.06	15.51	17.96	20.41	22.86
2.29	0.46	0.53	0.76	0.99	1.21	1.44	1.67	1.90	2.12
96	5.25	6.13	8.76	11.38	14.01	16.64	19.27	21.89	24.52
2.44	0.49	0.57	0.81	1.06	1.30	1.55	1.79	2.03	2.28
102	5.61	6.55	9.35	12.16	14.96	17.77	20.57	23.38	26.19
2.59	0.52	0.61	0.87	1.13	1.39	1.65	1.91	2.17	2.43
108	5.97	6.96	9.95	12.93	15.91	18.90	21.88	24.87	27.85
2.74	0.55	0.65	0.92	1.20	1.48	1.76	2.03	2.31	2.59
114	6.32	7.38	10.54	13.70	16.87	20.03	23.19	26.35	29.52
2.90	0.59	0.69	0.98	1.27	1.57	1.86	2.15	2.45	2.74
120	6.68	7.79	11.14	14.48	17.82	21.16	24.50	27.84	31.18
3.05	0.62	0.72	1.03	1.34	1.66	1.97	2.28	2.59	2.90

Height in Inches and Meters

For a 48"x48" sized louver tested to Figure 5.5
Data corrected to standard air density



AIR VELOCITY IN FEET AND METERS PER MINUTE THROUGH FREE AREA

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Manufacturing & Sales Location

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To download details and specifications
visit www.c-sgroup.com.

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

Upper Numerals English Units/Lower Numerals Metric Units

DC-9614-07

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