

C/S 5" (127.0 mm) STORM RESISTANT DADE COUNTY HURRICANE VERTICAL LOUVER

Construction Specialties Inc. certifies that Model DCV-5704 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.

N.O.A. #09-0310.06

DESIGN DATA:

To maintain a **CLASS A (99%) effectiveness rating** with a 29.1 mph wind speed an rainfall rate of 3 in/hr*

- Maximum intake core velocity 5.0 m/s (977 FPM)
- Maximum intake free area velocity 10.0 m/s (1,939 FPM)
- Intake pressure drop 144 Pa (0.58 in. H₂O)
- Intake capacity 5.0 m³/s (10,516 CFM)



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 4.5 m/s (856 FPM)
- Maximum intake free area velocity 9 m/s (1699 FPM)
- Intake pressure drop 110 Pa (0.44 in. H₂O)
- Intake capacity 4.5 m³/s (9214 CFM)

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

*Louver tested with 1 m² core area, mill

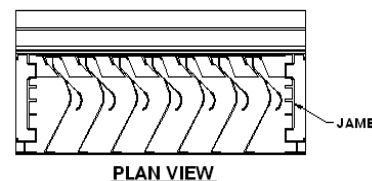
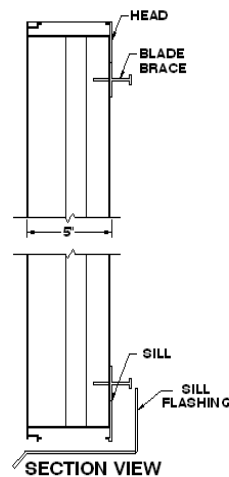
SUGGESTED SPECIFICATIONS:

GENERAL: Furnish and install where indicated on the drawings C/S 5" (127.0 mm) STORM RESISTANT DADE COUNTY HURRICANE VERTICAL LOUVER MODEL DCV-5704 as manufactured by Construction Specialties, Inc., Cranford, NJ or Mississauga, Ontario. Complete details shall be submitted to the architect for approval prior to fabrication.

MATERIAL: Frames and blades to be fabricated from 6063-T6 aluminum alloy. Blades are to be minimum 0.060" (1.52mm) thick and frames to be minimum 0.075" (1.91 mm) thick. Louver to be mechanically fastened using stainless steel or aluminum fasteners. Louvers to be supplied with 4" (101.6 mm) high by full depth sill flashing formed from minimum 0.050" (1.27 mm) thick aluminum. Sill flashing are to have welded side panels. Louvers and sill flashing are 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: 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), for single unit sizes up to 6 1/2 feet wide by 12 feet high; and for allowable design wind loading up to 150 psf. 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.

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 2605-5** "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.



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 3" per hour (75 mm/hr) and with a wind directed to the face of the louver at a velocity of 29.1-mph (13 m/s) as well as a rainfall rate of 8" per hour (203mm) and wind directed at the face of the louver at a velocity of 50.0 mph (22.3 m/s). The test data shall show the water penetration effectiveness rating at each corresponding ventilation rate.

Discharge Coefficient
Intake Cd = 0.33 (Class 2)
AMCA certifies the coefficient class only

Core Ventilation Rate (m/s):	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
Core Ventilation Rate (ft/min):	0	98	197	295	394	492	591	676	782	856	977
Free Area Velocity (ft/min):	0	195	391	586	781	977	1172	1342	1552	1699	1939
Rating Effectiveness @ 29 & 3	A	A	A	A	A	A	A	A	A	A	A
Effectiveness Ratio @ 29 & 3 (%)										100	99.8
Rating Effectiveness @ 50 & 8	A	A	A	A	A	A	A	A	A	A	B
Effectiveness Ratio @ 50 & 8 (%)								99.7	99.5	99.1	98.2
Effectiveness Rating:	A = 1 to 0.99		B = 0.989 to 0.95		C = 0.949 to 0.80		D = 0.799 to 0				

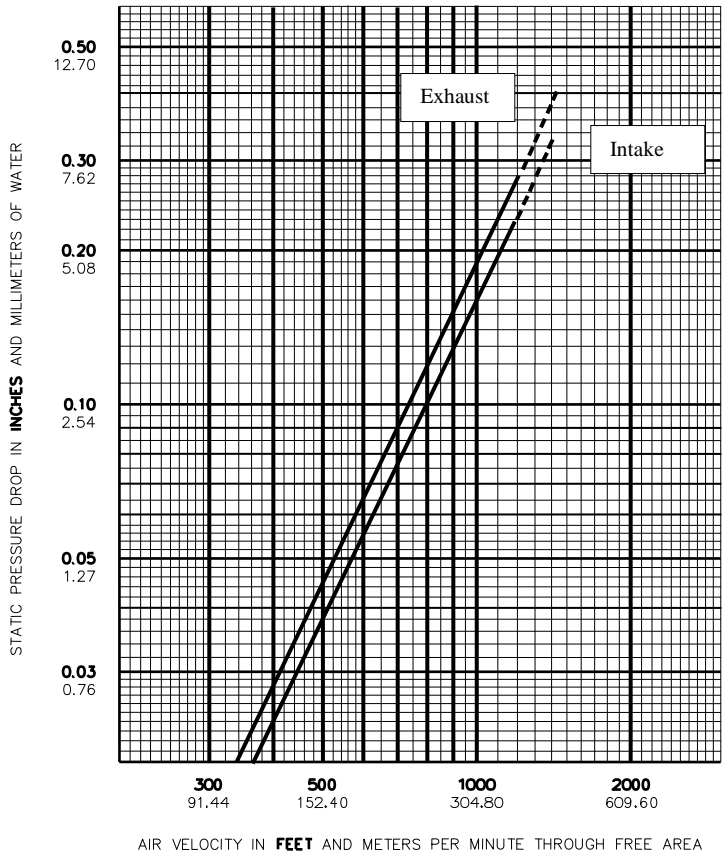
To download details and specifications visit www.c-sgroup.com. For technical and design assistance call 800-631-7379

PERFORMANCE DATA MODEL DCV-5704

Width in Inches and Meters

	18	24	30	36	42	48	54	60	66	72	78	84	90
18	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
24	0.61	0.81	1.11	1.42	1.72	2.03	2.33	2.64	2.94	3.25	3.55	3.85	4.16
30	0.76	1.01	1.31	1.62	1.93	2.23	2.54	2.84	3.15	3.45	3.75	4.06	4.36
36	0.91	1.16	1.46	1.77	2.07	2.38	2.68	2.98	3.28	3.58	3.88	4.18	4.48
42	1.07	1.32	1.62	1.93	2.23	2.54	2.84	3.15	3.45	3.75	4.06	4.36	4.66
48	1.22	1.47	1.77	2.08	2.38	2.68	2.98	3.28	3.58	3.88	4.18	4.48	4.78
54	1.37	1.62	1.92	2.23	2.53	2.83	3.13	3.43	3.73	4.03	4.33	4.63	4.93
60	1.52	1.77	2.07	2.38	2.68	2.98	3.28	3.58	3.88	4.18	4.48	4.78	5.08
66	1.68	1.93	2.23	2.54	2.84	3.14	3.44	3.74	4.04	4.34	4.64	4.94	5.24
72	1.83	2.08	2.38	2.68	2.98	3.28	3.58	3.88	4.18	4.48	4.78	5.08	5.38
78	1.98	2.23	2.53	2.83	3.13	3.43	3.73	4.03	4.33	4.63	4.93	5.23	5.53
84	2.13	2.38	2.68	2.98	3.28	3.58	3.88	4.18	4.48	4.78	5.08	5.38	5.68
90	2.29	2.54	2.84	3.14	3.44	3.74	4.04	4.34	4.64	4.94	5.24	5.54	5.84
96	2.44	2.69	2.99	3.29	3.59	3.89	4.19	4.49	4.79	5.09	5.39	5.69	5.99
102	2.59	2.84	3.14	3.44	3.74	4.04	4.34	4.64	4.94	5.24	5.54	5.84	6.14
108	2.74	2.99	3.29	3.59	3.89	4.19	4.49	4.79	5.09	5.39	5.69	5.99	6.29
114	2.89	3.14	3.44	3.74	4.04	4.34	4.64	4.94	5.24	5.54	5.84	6.14	6.44
120	3.05	3.30	3.60	3.90	4.20	4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60
126	3.20	3.45	3.75	4.05	4.35	4.65	4.95	5.25	5.55	5.85	6.15	6.45	6.75
132	3.35	3.60	3.90	4.20	4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90
138	3.51	3.76	4.06	4.36	4.66	4.96	5.26	5.56	5.86	6.16	6.46	6.76	7.06
144	3.66	3.91	4.21	4.51	4.81	5.11	5.41	5.71	6.01	6.31	6.61	6.91	7.21
150	3.81	4.06	4.36	4.66	4.96	5.26	5.56	5.86	6.16	6.46	6.76	7.06	7.36
156	3.96	4.21	4.51	4.81	5.11	5.41	5.71	6.01	6.31	6.61	6.91	7.21	7.51
162	4.11	4.36	4.66	4.96	5.26	5.56	5.86	6.16	6.46	6.76	7.06	7.36	7.66
168	4.27	4.52	4.82	5.12	5.42	5.72	6.02	6.32	6.62	6.92	7.22	7.52	7.82
174	4.42	4.67	4.97	5.27	5.57	5.87	6.17	6.47	6.77	7.07	7.37	7.67	7.97
180	4.57	4.82	5.12	5.42	5.72	6.02	6.32	6.62	6.92	7.22	7.52	7.82	8.12
186	4.72	4.97	5.27	5.57	5.87	6.17	6.47	6.77	7.07	7.37	7.67	7.97	8.27
192	4.88	5.13	5.43	5.73	6.03	6.33	6.63	6.93	7.23	7.53	7.83	8.13	8.43
198	5.03	5.28	5.58	5.88	6.18	6.48	6.78	7.08	7.38	7.68	7.98	8.28	8.58
5.03	1.04	1.43	1.82	2.22	2.61	3.00	3.39	3.79	4.18	4.57	4.96	5.35	5.74

Height in Inches and Meters



AIR VELOCITY IN FEET AND METERS PER MINUTE THROUGH FREE AREA

For a 48" X 48" sized louver

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Upper Numerals English Units/Lower Numerals Metric Units