

Model DCV-5704

5" (127.0 mm) Storm Resistant Dade County Hurricane Vertical Louver

NOA: 24-0729.06
 Florida Product Approval: FL-21969
 Maximum wind-load: 150 PSF
 TDI Approval: 23

Material:

Material:	6063-T6 Alloy
Nominal Thickness (heads, sills, jambs, & mullions):	0.080" (2.03 mm)
Nominal Blade Thickness:	0.060" (1.52 mm)
Furnished With:	Birdscreen: ½" (12.7mm) intercrimp aluminum mesh, 0.063" (1.60 mm) diameter wire removeable aluminum bird screen in an aluminum frame
Additional Options (at additional cost):	Insect screen (in lieu of bird screen), Continuous clip angles for attachment Sheet blank off, Insulated blank off Sill pans, Flange frames, Integrated glazing frames

Test Summary:
For a 4 Foot by 4 Foot Unit.

Tested with mill finish and no screen

Free area = 7.32 ft² (0.680 m²)

Percent free area = 45.7%

Intake pressure drop at 1,000 FPM free area velocity = 0.16 (38.7 Pa)

To maintain a CLASS A (99%) effectiveness rating* with:

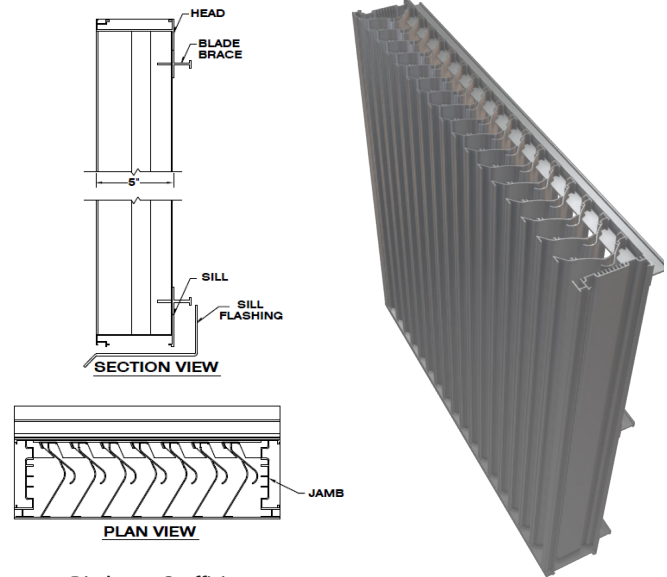
- a 29.1 mph wind speed and rainfall rate of 3 in/hr
 - Max. intake core velocity 5.0 m/s (986 FPM)
 - Max. intake free area velocity 9.9 m/s (1,956 FPM)

To maintain a CLASS A (99%) effectiveness rating* with:

- a 50 mph wind speed and rainfall rate of 8 in/hr
 - Max. intake core velocity 5.0 m/s (980 FPM)
 - Max. intake free area velocity 10.5 m/s (2064 FPM)

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

Construction Specialties Inc. certifies that the louver 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.



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

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

Application and Design

DCV-5704 is tested in accordance with AMCA 500-L Air Performance and Wind Driven Rain. DCV-5704 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 8" x 18".

Construction Specialties Inc. certifies that the louver model DCV-5704 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 Wind Borne Debris Impact Louvers.

Model DCV-5704

5" (127.0 mm) Storm Resistant Dade County Hurricane Vertical Louver

Wind Driven Rain Performance: Tested with 1m² core area, mill finish and no screen

29.1 mph (13 m/s) & 3" (75 mm) rain per hour

Core Velocity Through Cal. Plate (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 Velocity Through Louver (ft/min):	0	132	197	287	380	472	587	680	780	874	986
Free Area Velocity (ft/min):	0	278	415	605	800	994	1236	1432	1643	1734	1956
Rating Effectiveness:	A	A	A	A	A	A	A	A	A	A	A
Effectiveness Ratio (%):										100	99.8

50 mph (22.3 m/s) & 8" (203 mm) rain per hour

Core Velocity Through Cal. Plate (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 Velocity Through Louver (ft/min):	0	132	197	287	380	472	587	680	789	888	980
Free Area Velocity (ft/min):	0	278	415	605	800	994	1236	1432	1662	1871	2064
Rating Effectiveness:	A	A	A	A	A	A	A	A	A	A	A
Effectiveness Ratio (%):									99.8	99.7	99.6
Effectiveness Rating:	A = 1 to 0.99			B = 0.989 to 0.95			C = 0.949 to 0.80			D = Below 0.80	

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.

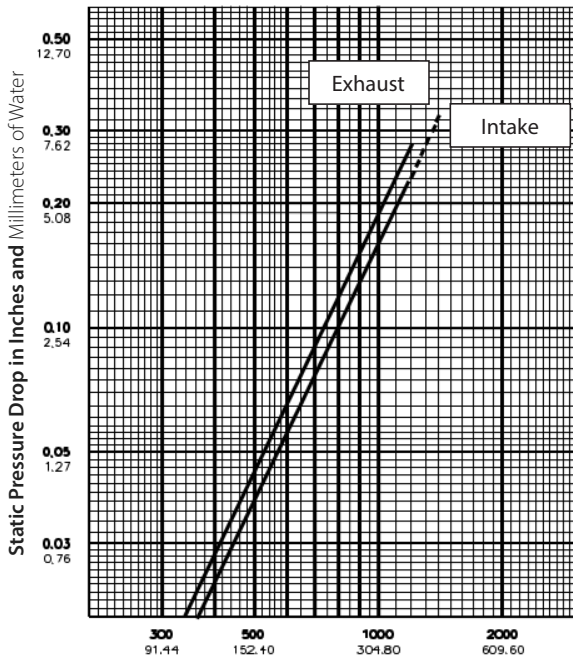
Free Area Table (Free area in sq. feet and sq. meters)

For additional sizes, please visit:

<https://www.c-sgroup.com/louvers-airflow-tool>

Width in Inches and Meters

	8	12	18	24	30	36	42	48	54	60
	0.20	0.30	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52
18	0.23	0.46	0.81	1.15	1.50	1.84	2.19	2.53	2.88	3.23
0.46	0.02	0.04	0.07	0.11	0.14	0.17	0.20	0.24	0.27	0.30
24	0.32	0.64	1.11	1.59	2.06	2.54	3.02	3.49	3.97	4.45
0.61	0.03	0.06	0.10	0.15	0.19	0.24	0.28	0.32	0.37	0.41
30	0.40	0.81	1.42	2.02	2.63	3.24	3.84	4.45	5.06	5.66
0.76	0.04	0.08	0.13	0.19	0.24	0.30	0.36	0.41	0.47	0.53
36	0.49	0.98	1.72	2.46	3.20	3.93	4.67	5.41	6.15	6.88
0.91	0.05	0.09	0.16	0.23	0.30	0.37	0.43	0.50	0.57	0.64
42	0.58	1.16	2.03	2.89	3.76	4.63	5.50	6.37	7.23	8.10
1.07	0.05	0.11	0.19	0.27	0.35	0.43	0.51	0.59	0.67	0.75
48	0.67	1.33	2.33	3.33	4.33	5.33	6.33	7.32	8.32	9.32
1.22	0.06	0.12	0.22	0.31	0.40	0.49	0.59	0.68	0.77	0.87
54	0.75	1.51	2.64	3.76	4.89	6.02	7.15	8.28	9.41	10.54
1.37	0.07	0.14	0.24	0.35	0.45	0.56	0.66	0.77	0.87	0.98
60	0.84	1.68	2.94	4.20	5.46	6.72	7.98	9.24	10.50	11.76
1.52	0.08	0.16	0.27	0.39	0.51	0.62	0.74	0.86	0.98	1.09
66	0.93	1.85	3.25	4.64	6.03	7.42	8.81	10.20	11.59	12.98
1.68	0.09	0.17	0.30	0.43	0.56	0.69	0.82	0.95	1.08	1.21
72	1.01	2.03	3.55	5.07	6.59	8.11	9.64	11.16	12.68	14.20
1.83	0.09	0.19	0.33	0.47	0.61	0.75	0.90	1.04	1.18	1.32
78	1.10	2.20	3.85	5.51	7.16	8.81	10.46	12.11	13.77	15.42
1.98	0.10	0.20	0.36	0.51	0.67	0.82	0.97	1.13	1.28	1.43
84	1.19	2.38	4.16	5.94	7.72	9.51	11.29	13.07	14.86	16.64
2.13	0.11	0.22	0.39	0.55	0.72	0.88	1.05	1.21	1.38	1.55
90	1.28	2.55	4.46	6.38	8.29	10.20	12.12	14.03	15.94	17.86
2.29	0.12	0.24	0.41	0.59	0.77	0.95	1.13	1.30	1.48	1.66
96	1.36	2.73	4.77	6.81	8.86	10.90	12.94	14.99	17.03	19.08
2.44	0.13	0.25	0.44	0.63	0.82	1.01	1.20	1.39	1.58	1.77
102	1.45	2.90	5.07	7.25	9.42	11.60	13.77	15.95	18.12	20.30
2.59	0.13	0.27	0.47	0.67	0.88	1.08	1.28	1.48	1.68	1.89
108	1.54	3.07	5.38	7.68	9.99	12.29	14.60	16.90	19.21	21.52
2.74	0.14	0.29	0.50	0.71	0.93	1.14	1.36	1.57	1.78	2.00
114	1.62	3.25	5.68	8.12	10.56	12.99	15.43	17.86	20.30	22.73
2.89	0.15	0.30	0.53	0.75	0.98	1.21	1.43	1.66	1.89	2.11
120	1.71	3.42	5.99	8.55	11.12	13.69	16.25	18.82	21.39	23.95
3.05	0.16	0.32	0.56	0.79	1.03	1.27	1.51	1.75	1.99	2.23



Air Velocity in Feet and Meters per Minute Through Free Area

Data corrected to standard air density.

48" x 48" (121.92cm x 121.92cm) louver tested to figure 5.5.