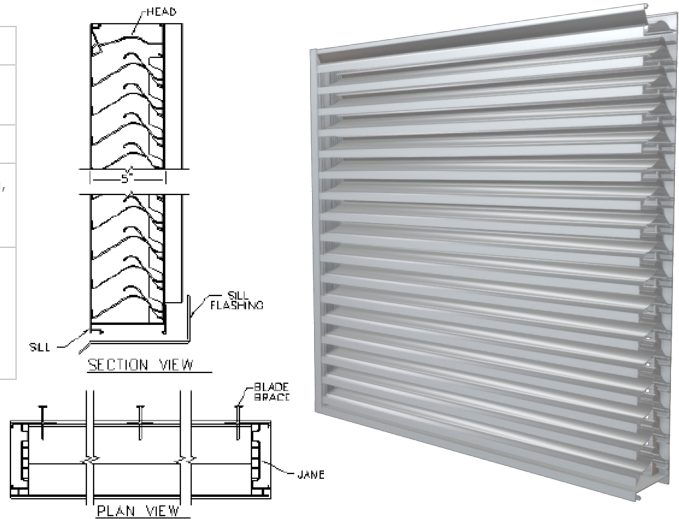


**Model DCH-5704**  
**5" (127.0 mm) Storm Resistant Dade County Hurricane Louver**

NOA: 23-1122.06  
 Florida Product Approval: FL-21969  
 Maximum wind-load: 150 PSF  
 TDI Approval: 23

**Material:**

<b>Material:</b>	6063-T6 Alloy
<b>Nominal Thickness (heads, sills, jamba, &amp; mullions):</b>	0.080" (2.03 mm)
<b>Nominal Blade Thickness:</b>	0.060" (1.52 mm)
<b>Furnished With:</b>	Birdscreen: ½" intercrimp aluminum mesh, 0.063" diameter wire removeable aluminum bird screen in an aluminum frame
<b>Additional Options (at additional cost):</b>	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 ft<sup>2</sup> (0.681 m<sup>2</sup>)
- Percent free area = 45.8%
- 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) = 1250 FPM (6.35 m/s)
- 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 4.0 m/s (763 FPM)
    - Max. intake free area velocity 7.7 m/s (1,514 FPM)
- To maintain a CLASS B (95%) effectiveness rating\* with:
  - a 50 mph wind speed and rainfall rate of 8 in/hr
    - Max. intake core velocity 4.0 m/s (788 FPM)
    - Max. intake free area velocity 7.9 m/s (1,563 FPM)

*Tested with 1m<sup>2</sup> core area, mill finish and no screen\**

**Discharge Coefficient**

Intake Cd = 0.32 (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

**Construction Specialties Inc. certifies that the louver model DCH-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 ratings, Water Penetration Ratings and Air Performance ratings.



**Application and Design**

DCH-5704 is tested in accordance with AMCA 500-L Air Performance and Wind Driven Rain. DCH-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 DCH-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 DCH-5704**  
**5" (127.0 mm) Storm Resistant Dade County Hurricane Louver**

**Wind Driven Rain Performance:** Tested with 1m<sup>2</sup> core area, mill finish and no screen

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

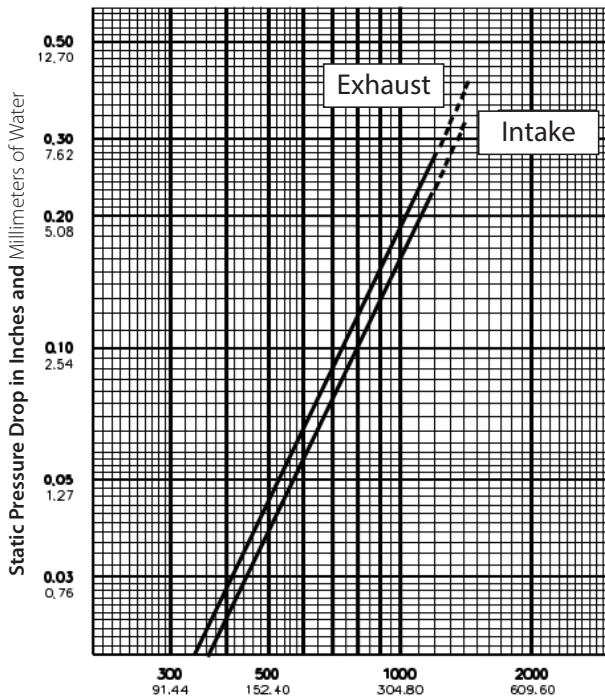
Core Velocity Through Cal. Plate (m/s):	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
Core Velocity Through Louver (ft/min):	0	132	197	287	380	472	585	668	763	883	989
Free Area Velocity (ft/min):	0	262	391	570	754	937	1161	1365	1514	1752	1966
Rating Effectiveness:	A	A	A	A	A	A	A	A	A	B	C
Effectiveness Ratio (%):							99.9	99.5	99.4	98.1	94.9

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	100	177	285	397	479	565	687	788	876	944
Free Area Velocity (ft/min):	0	198	351	565	788	950	1121	1363	1563	1738	1873
Rating Effectiveness:	A	A	A	A	B	B	B	B	B	C	C
Effectiveness Ratio (%):		99.4	99.3	99.2	98.9	98.6	98.2	97.3	96.0	92.9	87.9
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.



**Air Velocity in Feet and Meters per Minute Through Free Area**

Data corrected to standard air density.  
 48" x 48" louver tested to figure 5.5.

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

For additional sizes, please visit:

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

**Width in Inches and Meters**

	8	12	18	24	30	36	42	48	54	60
18	0.30	0.50	0.81	1.11	1.42	1.72	2.03	2.33	2.64	2.94
24	0.43	0.72	1.15	1.59	2.02	2.46	2.89	3.33	3.76	4.20
30	0.55	0.93	1.50	2.06	2.63	3.20	3.76	4.33	4.89	5.46
36	0.68	1.15	1.84	2.54	3.24	3.93	4.63	5.33	6.02	6.72
42	0.81	1.36	2.19	3.02	3.84	4.67	5.50	6.33	7.15	7.98
48	0.94	1.58	2.53	3.49	4.45	5.41	6.37	7.32	8.28	9.24
54	1.07	1.79	2.88	3.97	5.06	6.15	7.23	8.32	9.41	10.50
60	1.19	2.01	3.23	4.45	5.66	6.88	8.10	9.32	10.54	11.76
66	1.32	2.22	3.57	4.92	6.27	7.62	8.97	10.32	11.67	13.02
72	1.45	2.44	3.92	5.40	6.88	8.36	9.84	11.32	12.80	14.28
78	1.58	2.65	4.26	5.87	7.49	9.10	10.71	12.32	13.93	15.54
84	1.71	2.87	4.61	6.35	8.09	9.83	11.58	13.32	15.06	16.80
90	1.83	3.08	4.95	6.83	8.70	10.57	12.44	14.32	16.19	18.06
96	1.96	3.30	5.30	7.30	9.31	11.31	13.31	15.32	17.32	19.32
102	2.09	3.51	5.65	7.78	9.91	12.05	14.18	16.31	18.45	20.58
108	2.22	3.73	5.99	8.26	10.52	12.78	15.05	17.31	19.58	21.84
114	2.35	3.94	6.34	8.73	11.13	13.52	15.92	18.31	20.71	23.10
120	2.47	4.16	6.68	9.21	11.73	14.26	16.79	19.31	21.84	24.36
126	2.60	4.37	7.03	9.70	12.34	15.21	17.84	20.31	23.10	25.62
132	2.73	4.58	7.38	10.19	12.94	16.16	18.84	21.31	24.36	26.88
138	2.86	4.79	7.73	10.68	13.54	17.11	19.84	22.31	25.62	28.14
144	2.99	5.00	8.08	11.17	14.14	18.03	20.84	23.31	26.88	29.40
150	3.12	5.21	8.43	11.66	14.74	19.16	21.84	24.31	28.14	30.66
156	3.25	5.42	8.78	12.15	15.34	20.29	22.84	25.31	29.40	31.92
162	3.38	5.63	9.13	12.64	15.94	21.42	23.84	26.31	30.66	33.18
168	3.51	5.84	9.48	13.13	16.54	22.55	24.84	27.31	31.92	34.44
174	3.64	6.05	9.83	13.62	17.14	23.68	25.84	28.31	33.18	35.70
180	3.77	6.26	10.18	14.11	17.74	24.81	26.84	29.31	34.44	36.96
186	3.90	6.47	10.53	14.60	18.34	25.94	27.84	30.31	35.70	38.22
192	4.03	6.68	10.88	15.09	18.94	27.07	28.84	31.31	36.96	39.48
198	4.16	6.89	11.23	15.58	19.54	28.20	29.84	32.31	38.22	40.74
204	4.29	7.10	11.58	16.07	20.14	29.33	30.84	33.31	39.48	42.00
210	4.42	7.31	11.93	16.56	20.74	30.46	31.84	34.31	40.74	43.26
216	4.55	7.52	12.28	17.05	21.34	31.59	32.84	35.31	42.00	44.52
222	4.68	7.73	12.63	17.54	21.94	32.72	33.84	36.31	43.26	45.78
228	4.81	7.94	12.98	18.03	22.54	33.85	34.84	37.31	44.52	47.04
234	4.94	8.15	13.33	18.52	23.14	34.98	35.84	38.31	45.78	48.30
240	5.07	8.36	13.68	19.01	23.74	36.11	36.84	39.31	47.04	49.56
246	5.20	8.57	14.03	19.50	24.34	37.24	37.84	40.31	48.30	50.82
252	5.33	8.78	14.38	20.00	24.94	38.37	38.84	41.31	49.56	52.08
258	5.46	8.99	14.73	20.49	25.54	39.50	39.84	42.31	50.82	53.34
264	5.59	9.20	15.08	20.98	26.14	40.63	40.84	43.31	52.08	54.60
270	5.72	9.41	15.43	21.47	26.74	41.76	41.84	44.31	53.34	55.86
276	5.85	9.62	15.78	21.96	27.34	42.89	42.84	45.31	54.60	57.12
282	5.98	9.83	16.13	22.45	27.94	44.02	43.84	46.31	55.86	58.38
288	6.11	10.04	16.48	22.94	28.54	45.15	44.84	47.31	57.12	59.64
294	6.24	10.25	16.83	23.43	29.14	46.28	45.84	48.31	58.38	60.90
300	6.37	10.46	17.18	23.92	29.74	47.41	46.84	49.31	59.64	62.16
306	6.50	10.67	17.53	24.41	30.34	48.54	47.84	50.31	60.90	63.42
312	6.63	10.88	17.88	24.90	30.94	49.67	48.84	51.31	62.16	64.68
318	6.76	11.09	18.23	25.39	31.54	50.80	49.84	52.31	63.42	65.94
324	6.89	11.30	18.58	25.88	32.14	51.93	50.84	53.31	64.68	67.20
330	7.02	11.51	18.93	26.37	32.74	53.06	51.84	54.31	65.94	68.46
336	7.15	11.72	19.28	26.86	33.34	54.19	52.84	55.31	67.20	69.72
342	7.28	11.93	19.63	27.35	33.94	55.32	53.84	56.31	68.46	70.98
348	7.41	12.14	19.98	27.84	34.54	56.45	54.84	57.31	69.72	72.24
354	7.54	12.35	20.33	28.33	35.14	57.58	55.84	58.31	70.98	73.50
360	7.67	12.56	20.68	28.82	35.74	58.71	56.84	59.31	72.24	74.76
366	7.80	12.77	21.03	29.31	36.34	59.84	57.84	60.31	73.50	76.02
372	7.93	12.98	21.38	29.80	36.94	60.97	58.84	61.31	74.76	77.28
378	8.06	13.19	21.73	30.29	37.54	62.10	59.84	62.31	76.02	78.54
384	8.19	13.40	22.08	30.78	38.14	63.23	60.84	63.31	77.28	79.80
390	8.32	13.61	22.43	31.27	38.74	64.36	61.84	64.31	78.54	81.06
396	8.45	13.82	22.78	31.76	39.34	65.49	62.84	65.31	79.80	82.32
402	8.58	14.03	23.13	32.25	39.94	66.62	63.84	66.31	81.06	83.58
408	8.71	14.24	23.48	32.74	40.54	67.75	64.84	67.31	82.32	84.84
414	8.84	14.45	23.83	33.23	41.14	68.88	65.84	68.31	83.58	86.10
420	8.97	14.66	24.18	33.72	41.74	70.01	66.84	69.31	84.84	87.36
426	9.10	14.87	24.53	34.21	42.34	71.14	67.84	70.31	86.10	88.62
432	9.23	15.08	24.88	34.70	42.94	72.27	68.84	71.31	87.36	89.88
438	9.36	15.29	25.23	35.19	43.54	73.40	69.84	72.31	88.62	91.14
444	9.49	15.50	25.58	35.68	44.14	74.53	70.84	73.31	89.88	92.40
450	9.62	15.71	25.93	36.17	44.74	75.66	71.84	74.31	91.14	93.66
456	9.75	15.92	26.28	36.66	45.34	76.79	72.84	75.31	92.40	94.92
462	9.88	16.13	26.63	37.15	45.94	77.92	73.84	76.31	93.66	96.18
468	10.01	16.34	26.98	37.64	46.54	79.05	74.84	77.31	94.92	97.44
474	10.14	16.55	27.33	38.13	47.14	80.18	75.84	78.31	96.18	98.70
480	10.27	16.76	27.68	38.62	47.74	81.31	76.84	79.31	97.44	100.00
486	10.40	16.97	28.03	39.11	48.34	82.44	77.84	80.31	98.70	101.26
492	10.53	17.18	28.38	39.60	48.94	83.57	78.84	81.31	100.00	102.52
498	10.66	17.39	28.73	40.09	49.54	84.70	79.84	8		