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

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” intercrimp aluminum mesh, 0.063” diameter wire removable 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 (0.681 m²)
- Percent free area = 45.8%
- Free area velocity at the point of beginning water penetration (@ 0.01 oz. / ft² of free area based on a 15 minute interval test) = 1,169 FPM (5.94 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)

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 1m² core area, mill finish and no screen

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

<table>
<thead>
<tr>
<th>Core Velocity Through Cal. Plate (m/s)</th>
<th>0.0</th>
<th>0.5</th>
<th>1.0</th>
<th>1.5</th>
<th>2.0</th>
<th>2.5</th>
<th>3.0</th>
<th>3.5</th>
<th>4.0</th>
<th>4.5</th>
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<tbody>
<tr>
<td>Core Velocity Through Louver (ft/min)</td>
<td>0</td>
<td>132</td>
<td>197</td>
<td>287</td>
<td>380</td>
<td>472</td>
<td>585</td>
<td>668</td>
<td>763</td>
<td>883</td>
<td>989</td>
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<td>Free Area Velocity (ft/min)</td>
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<td>570</td>
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<td>1161</td>
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<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>B</td>
<td>C</td>
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<tr>
<td>Effectiveness Ratio (%):</td>
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<td>99.5</td>
<td>99.4</td>
<td>98.1</td>
<td>94.9</td>
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50 mph (22.3 m/s) & 8" (203 mm) rain per hour

<table>
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<th>Core Velocity Through Cal. Plate (m/s)</th>
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<th>1.0</th>
<th>1.5</th>
<th>2.0</th>
<th>2.5</th>
<th>3.0</th>
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<td>Core Velocity Through Louver (ft/min)</td>
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<tr>
<td>Free Area Velocity (ft/min)</td>
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<td>565</td>
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<td>C</td>
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<tr>
<td>Effectiveness Ratio (%):</td>
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<td>87.9</td>
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### 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.ft and sq. meters)

For additional sizes, please visit: [https://www.c-sgroup.com/architectural-louvers/louvers-airflow-tool](https://www.c-sgroup.com/architectural-louvers/louvers-airflow-tool)

### 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.

### Upper Numerals English Units/Lower Numerals Metric Units

Questions? Connect with a CS Representative.

c-sgroup.com/representative-locator

c-sgroup.com/representative-locator