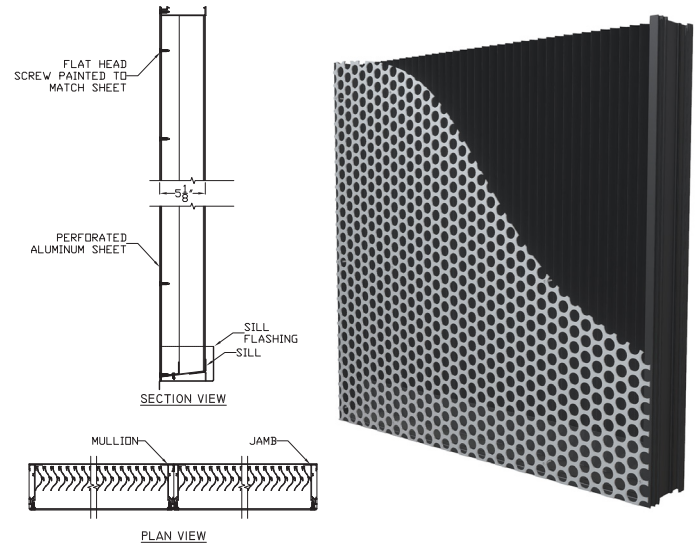


**Model DCPL-3704 - 1" (2.54 mm) Hole Pattern
5.375" (136.5 mm) Perforated Vertical Storm Resistant
Dade County Hurricane Louver**

NOA: 24-0926.04
PATENT PENDING

Material:

| | |
|---|--|
| Material: | Louver 6063-T6 Alloy Perforated Sheet 3003 H14 aluminum |
| Nominal Thickness (heads, sills, jamps, & mullions): | 0.08" (2.03 mm) |
| Nominal Blade Thickness: | 0.05" (1.27 mm) |
| Additional Options (at additional cost): | Rear bird or Insect 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 rear bird or insect screen

- Free area = 8.51 ft² (0.79m²)
- Percent free area = 53.2%
- Intake pressure drop at 1000 FPM free area velocity = 0.16 in. H₂O (38.5 Pa)
- 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 (985 FPM)
 - Max. intake free area velocity 8.9 m/s (1,760 FPM)

Discharge Coefficient
Intake Cd = 0.37 (Class 2)

Application and Design

Model DCPL-3704 (1" holes) is tested to and passed AMCA 550 High Velocity Wind Driven Rain Resistant Louvers in the fully open position that permits airflow through the louver.

Dade County Protocols:

- TAS-201: Large and small missile impact (**Missile Level E**)
- 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

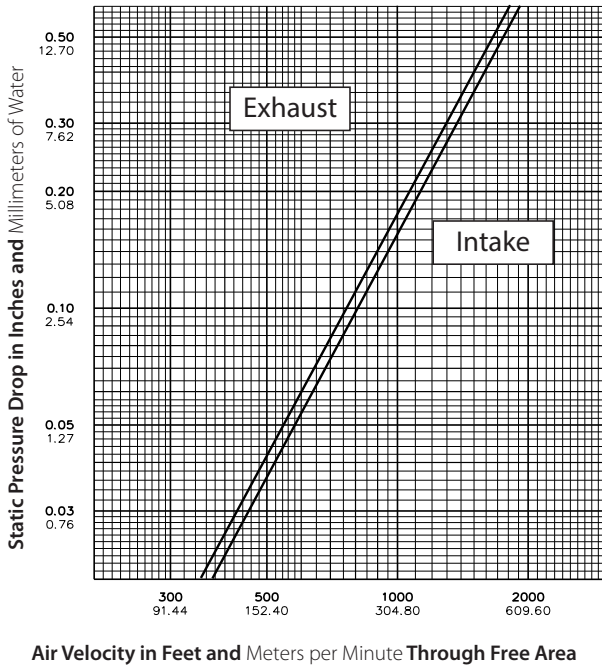
Wind Driven Rain Performance: Tested with 1m² core area, mill finish and no rear bird or insect screen*

The louver test was based on a 39.370" (1.0 m) x 39.370" (1.0 m) core area unit tested at a rainfall rate of 8" per hour (203 mm) and a wind velocity of 50 mph (22.3 m/s). The test data shall show the water penetration effectiveness rating at each corresponding ventilation rate.

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 | 99 | 198 | 296 | 393 | 492 | 591 | 689 | 788 | 886 | 985 |
| Free Area Velocity (ft/min): | 0 | 177 | 354 | 530 | 703 | 880 | 1056 | 1232 | 1408 | 1584 | 1760 |
| Rating Effectiveness: | A | A | A | A | A | A | A | A | A | A | A |
| Effectiveness Ratio (%): | | | | | | | | | | | 100.0 |
| Effectiveness Rating: | A = 1 to 0.99 | | | B = 0.989 to 0.95 | | | C = 0.949 to 0.80 | | | D = Below 0.80 | |

**Model DCPL-3704 - 1" (2.54 mm) Hole Pattern
5.375" (136.5 mm) Perforated Vertical Storm Resistant Dade County Hurricane Louver**



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).

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

| | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 |
|------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 0.46 | 0.61 | 0.76 | 0.91 | 1.07 | 1.22 | 1.37 | 1.52 |
| 18 | 0.93 | 1.31 | 1.69 | 2.07 | 2.45 | 2.84 | 3.27 | 3.55 |
| | 0.46 | 0.09 | 0.12 | 0.16 | 0.19 | 0.23 | 0.26 | 0.30 |
| 24 | 1.30 | 1.83 | 2.37 | 2.90 | 3.44 | 3.97 | 4.58 | 4.96 |
| | 0.61 | 0.12 | 0.17 | 0.22 | 0.27 | 0.32 | 0.37 | 0.43 |
| 30 | 1.67 | 2.36 | 3.04 | 3.73 | 4.42 | 5.11 | 5.89 | 6.38 |
| | 0.76 | 0.16 | 0.22 | 0.28 | 0.35 | 0.41 | 0.47 | 0.55 |
| 36 | 2.04 | 2.88 | 3.72 | 4.56 | 5.40 | 6.24 | 7.20 | 7.80 |
| | 0.91 | 0.19 | 0.27 | 0.35 | 0.42 | 0.50 | 0.58 | 0.67 |
| 42 | 2.41 | 3.40 | 4.40 | 5.39 | 6.38 | 7.38 | 8.51 | 9.22 |
| | 1.07 | 0.22 | 0.32 | 0.41 | 0.50 | 0.59 | 0.69 | 0.79 |
| 48 | 2.78 | 3.93 | 5.07 | 6.22 | 7.36 | 8.51 | 9.82 | 10.64 |
| | 1.22 | 0.26 | 0.36 | 0.47 | 0.58 | 0.68 | 0.79 | 0.91 |
| 54 | 3.15 | 4.45 | 5.75 | 7.05 | 8.35 | 9.64 | 11.13 | 12.06 |
| | 1.37 | 0.29 | 0.41 | 0.53 | 0.65 | 0.78 | 0.90 | 1.03 |
| 60 | 3.52 | 4.98 | 6.43 | 7.88 | 9.33 | 10.78 | 12.44 | 13.47 |
| | 1.52 | 0.33 | 0.46 | 0.60 | 0.73 | 0.87 | 1.00 | 1.16 |
| 66 | 3.89 | 5.50 | 7.10 | 8.71 | 10.31 | 11.91 | 13.75 | 14.89 |
| | 1.68 | 0.36 | 0.51 | 0.66 | 0.81 | 0.96 | 1.11 | 1.28 |
| 72 | 4.27 | 6.02 | 7.78 | 9.54 | 11.29 | 13.05 | 15.05 | 16.31 |
| | 1.83 | 0.40 | 0.56 | 0.72 | 0.89 | 1.05 | 1.21 | 1.40 |
| 78 | 4.64 | 6.55 | 8.46 | 10.36 | 12.27 | 14.18 | 16.36 | 17.73 |
| | 1.98 | 0.43 | 0.61 | 0.79 | 0.96 | 1.14 | 1.32 | 1.52 |
| 84 | 5.01 | 7.07 | 9.13 | 11.19 | 13.26 | 15.32 | 17.67 | 19.15 |
| | 2.13 | 0.47 | 0.66 | 0.85 | 1.04 | 1.23 | 1.42 | 1.64 |
| 90 | 5.38 | 7.59 | 9.81 | 12.02 | 14.24 | 16.45 | 18.98 | 20.57 |
| | 2.29 | 0.50 | 0.71 | 0.91 | 1.12 | 1.32 | 1.53 | 1.76 |
| 96 | 5.75 | 8.12 | 10.48 | 12.85 | 15.22 | 17.59 | 20.29 | 21.98 |
| | 2.44 | 0.53 | 0.75 | 0.97 | 1.19 | 1.41 | 1.63 | 1.89 |
| 102 | 6.12 | 8.64 | 11.16 | 13.68 | 16.20 | 18.72 | 21.60 | 23.40 |
| | 2.59 | 0.57 | 0.80 | 1.04 | 1.27 | 1.51 | 1.74 | 2.01 |
| 108 | 6.49 | 9.16 | 11.84 | 14.51 | 17.18 | 19.86 | 22.91 | 24.82 |
| | 2.74 | 0.60 | 0.85 | 1.10 | 1.35 | 1.60 | 1.84 | 2.13 |
| 114 | 6.86 | 9.69 | 12.51 | 15.34 | 18.17 | 20.99 | 24.22 | 26.24 |
| | 2.90 | 0.64 | 0.90 | 1.16 | 1.43 | 1.69 | 1.95 | 2.25 |
| 120 | 7.23 | 10.21 | 13.19 | 16.17 | 19.15 | 22.13 | 25.53 | 27.66 |
| | 3.05 | 0.67 | 0.95 | 1.23 | 1.50 | 1.78 | 2.06 | 2.37 |

Height in Inches and Meters

Upper Numerals English Units/Lower Numerals Metric Units