



Construction Specialties Inc. certifies that the louver model DC-6804 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 air performance ratings, water penetration ratings, and wind driven rain ratings.

APPLICATION AND DESIGN:

DC-6804 is tested in accordance with AMCA 500-L Air Performance, Water Penetration and Wind Driven Rain. DC-6804 is tested in accordance with AMCA 550 Test Method for High Velocity Wind Driven Rain Resistant Louvers. DC-6804 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 section size to be 16"x16".

Dade County
N.O.A. # 20-0129.01
Maximum wind-load: 150 PSF
Florida Product Approval #19266.1



TEST 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 (1000 FPM)
Maximum intake free area velocity 10.2 m/s (2,008 FPM)
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 5.0 m/s (978 FPM)
Maximum intake free area velocity 10.0 m/s (1,964 FPM)
\*louver tested with 1m² core area, mill finish and no screen

AIRFLOW DATA:

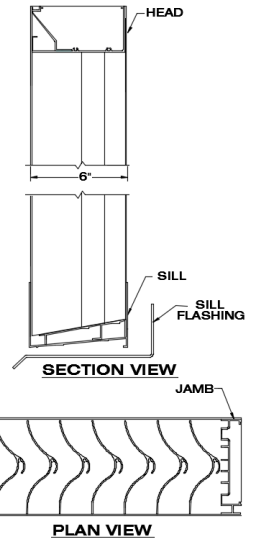
For a 4 Foot by 4 Foot Unit. Tested with mill finish and no screen
Free area = 6.14 ft² (0.570 m²)
Percent free area = 38.3%
Free area velocity at the point of beginning water penetration (@0.01oz. / ft² of free area based on a 15 minute interval test) = 1,250 FPM (6.35 m/s)

Maximum recommended air intake velocity = 1,050 FPM (5.3 m/s)
Air volume @ 1,050 FPM free area velocity = 6,447 CFM (3.0 m³/s)
Pressure drop @ 1,050 FPM intake velocity = 0.12 in. H₂O (29.8 Pa)

Maximum recommended air exhaust velocity = 2,359 FPM (12.0 m/s)
Air Volume @ 2,359 FPM free area velocity = 14,484 CFM (6.8 m³/s)
Pressure drop @ 2,359 FPM free area velocity = 0.50 in. H₂O (124.2 Pa)

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



Discharge Coefficient
Intake Cd = 0.35 (Class 2)

AMCA certifies the coefficient class only

WIND DRIVEN RAIN PERFORMANCE:

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 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 (203 mm) and a wind velocity of 50 mph (23.3 m/s). The test data shall show the water penetration effectiveness rating at each corresponding ventilation rate.

Table with 12 columns for Core Ventilation Rate (m/s) from 0 to 5.0 and 12 rows for various performance metrics including Rating Effectiveness, Effectiveness Ratio, and Free Area Ventilation Rate.



HIGH VELOCITY RAIN RESISTANT AND IMPACT RESISTANT LOUVER
Enhanced Protection
See www.AMCA.org for all certified or listed products

This label does not signify AMCA performance certification.

Construction Specialties Inc. certifies that the louver model DC-6804 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 High Velocity Wind Driven Rain Resistant Louvers. The AMCA Listing Label applies to Wind Borne Debris Impact Louvers.

## SUGGESTED SPECIFICATIONS:

**GENERAL:** Furnish and install where indicated on the drawings C/S 6 (152.4 mm) VERTICAL STORM RESISTANT DADE COUNTY HURRICANE LOUVER MODEL DC-6804 as manufactured by Construction Specialties, Inc. Lebanon, New Jersey. Complete details shall be submitted to the architect for approval prior to fabrication.

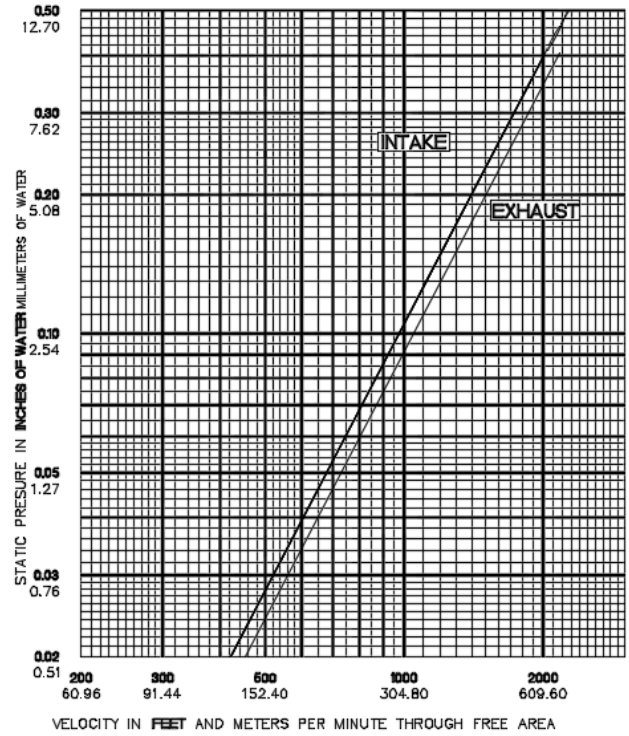
**MATERIAL:** Heads, sills, jambs and mullions to be one piece structural members of 6063-T6 alloy with integral caulking slot and retaining beads. Mullions shall be sliding interlock with integral internal drain(s). Blades to be one piece extrusions with reinforcing bosses. All fasteners to be aluminum or stainless steel. All louvers to be furnished with 5/8" (15.87 mm) flattened expanded mesh, aluminum bird screen with a 0.055" (1.40 mm) thick extruded aluminum frame. Screens and screen frames to be standard mill finish.

**STRUCTURAL DESIGN:** Structural supports shall be designed and furnished by the louver manufacturer to carry a wind load of not less than \_\_\_\_\_ psf (Pascals). (Note: If this paragraph is omitted or if the design wind load is not specified, the louvers will be manufactured in self-supporting units to a maximum of 5' (1524 mm) wide by 8' (2438 mm) high. Any additional structural supports required to adequately secure these units within the opening shall be the responsibility of others.

**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 Flouropolymer coating. Finish to allow zero VOCs** to be omitted 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** "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 Flouropolymer Powder Coat finish. This limited warranty shall begin on the date of material shipment.

## FREE AREA TABLE FREE AREAS IN SQ. FEET AND SQ. METERS Width in Inches and Meters

Height in Inches and Meters	16	18	24	30	36	42	48	54	60	66	72
	0.41	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52	1.68	1.83
<b>16</b>	<b>0.36</b>	<b>0.42</b>	<b>0.59</b>	<b>0.77</b>	<b>1.01</b>	<b>1.19</b>	<b>1.37</b>	<b>1.55</b>	<b>1.72</b>	<b>1.96</b>	<b>2.14</b>
0.41	0.03	0.04	0.06	0.07	0.09	0.11	0.13	0.14	0.16	0.18	0.20
<b>18</b>	<b>0.43</b>	<b>0.51</b>	<b>0.72</b>	<b>0.94</b>	<b>1.23</b>	<b>1.45</b>	<b>1.67</b>	<b>1.88</b>	<b>2.10</b>	<b>2.39</b>	<b>2.61</b>
0.46	0.04	0.05	0.07	0.09	0.11	0.13	0.15	0.17	0.20	0.22	0.24
<b>24</b>	<b>0.67</b>	<b>0.78</b>	<b>1.11</b>	<b>1.45</b>	<b>1.89</b>	<b>2.23</b>	<b>2.56</b>	<b>2.90</b>	<b>3.23</b>	<b>3.68</b>	<b>4.01</b>
0.61	0.06	0.07	0.10	0.13	0.18	0.21	0.24	0.27	0.30	0.34	0.37
<b>30</b>	<b>0.90</b>	<b>1.05</b>	<b>1.50</b>	<b>1.95</b>	<b>2.55</b>	<b>3.01</b>	<b>3.46</b>	<b>3.91</b>	<b>4.36</b>	<b>4.96</b>	<b>5.41</b>
0.76	0.08	0.10	0.14	0.18	0.24	0.28	0.32	0.36	0.40	0.46	0.50
<b>36</b>	<b>1.14</b>	<b>1.32</b>	<b>1.89</b>	<b>2.46</b>	<b>3.22</b>	<b>3.78</b>	<b>4.35</b>	<b>4.92</b>	<b>5.49</b>	<b>6.24</b>	<b>6.81</b>
0.91	0.11	0.12	0.18	0.23	0.30	0.35	0.40	0.46	0.51	0.58	0.63
<b>42</b>	<b>1.37</b>	<b>1.60</b>	<b>2.28</b>	<b>2.97</b>	<b>3.88</b>	<b>4.56</b>	<b>5.25</b>	<b>5.93</b>	<b>6.62</b>	<b>7.53</b>	<b>8.21</b>
1.07	0.13	0.15	0.21	0.28	0.36	0.42	0.49	0.55	0.61	0.70	0.76
<b>48</b>	<b>1.60</b>	<b>1.87</b>	<b>2.67</b>	<b>3.47</b>	<b>4.54</b>	<b>5.34</b>	<b>6.14</b>	<b>6.94</b>	<b>7.74</b>	<b>8.81</b>	<b>9.61</b>
1.22	0.15	0.17	0.25	0.32	0.42	0.50	0.57	0.65	0.72	0.82	0.89
<b>54</b>	<b>1.84</b>	<b>2.14</b>	<b>3.06</b>	<b>3.98</b>	<b>5.20</b>	<b>6.12</b>	<b>7.04</b>	<b>7.96</b>	<b>8.87</b>	<b>10.10</b>	<b>11.02</b>
1.37	0.17	0.20	0.28	0.37	0.48	0.57	0.65	0.74	0.82	0.94	1.02
<b>60</b>	<b>2.07</b>	<b>2.41</b>	<b>3.45</b>	<b>4.48</b>	<b>5.86</b>	<b>6.90</b>	<b>7.93</b>	<b>8.97</b>	<b>10.00</b>	<b>11.38</b>	<b>12.42</b>
1.52	0.19	0.22	0.32	0.42	0.54	0.64	0.74	0.83	0.93	1.06	1.15
<b>66</b>	<b>2.30</b>	<b>2.69</b>	<b>3.84</b>	<b>4.99</b>	<b>6.53</b>	<b>7.68</b>	<b>8.83</b>	<b>9.98</b>	<b>11.13</b>	<b>12.67</b>	<b>13.82</b>
1.68	0.21	0.25	0.36	0.46	0.61	0.71	0.82	0.93	1.03	1.18	1.28
<b>72</b>	<b>2.54</b>	<b>2.96</b>	<b>4.23</b>	<b>5.50</b>	<b>7.19</b>	<b>8.46</b>	<b>9.72</b>	<b>10.99</b>	<b>12.26</b>	<b>13.95</b>	<b>15.22</b>
1.83	0.24	0.27	0.39	0.51	0.67	0.79	0.90	1.02	1.14	1.30	1.41
<b>78</b>	<b>2.77</b>	<b>3.23</b>	<b>4.62</b>	<b>6.00</b>	<b>7.85</b>	<b>9.23</b>	<b>10.62</b>	<b>12.00</b>	<b>13.39</b>	<b>15.24</b>	<b>16.62</b>
1.98	0.26	0.30	0.43	0.56	0.73	0.86	0.99	1.12	1.24	1.42	1.54
<b>84</b>	<b>3.00</b>	<b>3.50</b>	<b>5.01</b>	<b>6.51</b>	<b>8.51</b>	<b>10.01</b>	<b>11.51</b>	<b>13.02</b>	<b>14.52</b>	<b>16.52</b>	<b>18.02</b>
2.13	0.28	0.33	0.47	0.60	0.79	0.93	1.07	1.21	1.35	1.53	1.67
<b>90</b>	<b>3.24</b>	<b>3.78</b>	<b>5.40</b>	<b>7.01</b>	<b>9.17</b>	<b>10.79</b>	<b>12.41</b>	<b>14.03</b>	<b>15.65</b>	<b>17.80</b>	<b>19.42</b>
2.29	0.30	0.35	0.50	0.65	0.85	1.00	1.15	1.30	1.45	1.65	1.80
<b>96</b>	<b>3.47</b>	<b>4.05</b>	<b>5.78</b>	<b>7.52</b>	<b>9.83</b>	<b>11.57</b>	<b>13.30</b>	<b>15.04</b>	<b>16.78</b>	<b>19.09</b>	<b>20.82</b>
2.44	0.32	0.38	0.54	0.70	0.91	1.07	1.24	1.40	1.56	1.77	1.93
<b>102</b>	<b>3.70</b>	<b>4.32</b>	<b>6.17</b>	<b>8.03</b>	<b>10.50</b>	<b>12.35</b>	<b>14.20</b>	<b>16.05</b>	<b>17.90</b>	<b>20.37</b>	<b>22.23</b>
2.59	0.34	0.40	0.57	0.75	0.98	1.15	1.32	1.49	1.66	1.89	2.06
<b>108</b>	<b>3.94</b>	<b>4.59</b>	<b>6.56</b>	<b>8.53</b>	<b>11.16</b>	<b>13.13</b>	<b>15.10</b>	<b>17.06</b>	<b>19.03</b>	<b>21.66</b>	<b>23.63</b>
2.74	0.37	0.43	0.61	0.79	1.04	1.22	1.40	1.59	1.77	2.01	2.20
<b>114</b>	<b>4.17</b>	<b>4.87</b>	<b>6.95</b>	<b>9.04</b>	<b>11.82</b>	<b>13.90</b>	<b>15.99</b>	<b>18.08</b>	<b>20.16</b>	<b>22.94</b>	<b>25.03</b>
2.90	0.39	0.45	0.65	0.84	1.10	1.29	1.49	1.68	1.87	2.13	2.33
<b>120</b>	<b>4.41</b>	<b>5.14</b>	<b>7.34</b>	<b>9.54</b>	<b>12.48</b>	<b>14.68</b>	<b>16.89</b>	<b>19.09</b>	<b>21.29</b>	<b>24.23</b>	<b>26.43</b>
3.05	0.41	0.48	0.68	0.89	1.16	1.36	1.57	1.77	1.98	2.25	2.46



For a 48" x 48" sized louver tested to figure 5.5  
Data corrected to standard air density

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For assistance with overseas requirements,  
Call C/S International (908) 236-0800

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Upper Numerals English Units/Lower Numerals Metric Units

DC-6804-04