MODEL DCFL-D-6

MIAMI-DADE APPROVED
MIAMI-DADE COUNTY, FLORIDA NOTICE OF ACCEPTANCE #: 12-0120.06 (EXPIRES 01-17-16)
FLORIDA BUILDING CODE PRODUCT APPROVAL #: FL3284-R3

Application and Features

The Model DCFL-D-6 is a louver designed to protect the outside opening in building exterior walls. It is engineered for use in Dade County and its municipalities as well as other regions that use Dade County codes. These louvers may be used for exhaust or intake air.

STANDARD CONSTRUCTION:

FRAME:
.125 Extruded Aluminum 6.20" deep.

BLADES:
.081 Extruded Aluminum Positioned on a 37° angle on approximately 4.64" centers.

BIRDSCREEN:
.75" X .051 Flattened Aluminum in Removable Frame. Screen is mounted on inside (rear) as looking from exterior of building.

FINISH:
Mill Aluminum (Std.)

MINIMUM SIZE:
12"w x 12"h

MAXIMUM SIZE:
72"w x 72"h single section
Larger sizes made in multiple sections with vertical Mullions.

OPTIONS:
☐ Flanged Frame (1.5" std.)
☐ Custom Flange (1", 2", or 3")
☐ Extended Sill
☐ Insect Screen (Other Screens Available, See Screen Page)
☐ Filter Racks (no screen)
☐ Security Bars
☐ 090° Alum. Sleeve, 12" deep
☐ 125° Alum. Sleeve, 12" deep

AVAILABLE FINISHES:
☐ Powder Polyester TGIC (2 coats) baked on at 410°F, 2.5 to 3.5 mils Meets AAMA-2603 Standards
☐ Powder Super durable polyester (2 coats) baked on at 410°F, 2.5 to 3.5 mils Meets AAMA-2604-05 Standards
☐ Acrylic baked enamel (ACRA-BOND® ULTRA) by AkzoNobel baked on at 350°F, 0.8 to 1.2 mils dry Meets AAMA-2603 Standards
☐ Ky nar® (ALUM®-STAR®) 2 coats by AkzoNobel baked on at 450°F, 1.2 to 1.6 mils dry Meets AAMA-2604-05 Standards
☐ Ky nar® 500® or HYLAR® 5000 70% TRINAR® (2 coats) by AkzoNobel baked on at 450°F, 1.2 to 1.6 mils dry, Meets AAMA-2605-05 Standards
☐ Ky nar® 500® or HYLAR® 5000 (70% Tr-Escent II) (2 coats) by AkzoNobel, a superior finish to other metallic or anodized finishes. A blend of mica, ceramic, and inorganic pigments creates subtle yet dazzling design that goes beyond metallic color without the requirement of a clear coat. 14 standard colors - custom colors available. Baked on at 415°F. 1.4 to 1.8 mils dry, meets AAMA-2605-05.
☐ Clear Anodize 204 R-1 Class II (AA-C22A31)(0.4 to 0.7 mil)
☐ Clear Anodize 215 R-1 Class I (AA-C22A41)(>0.7 mil)
☐ Integral Color Anodize (AA-C22A42)(>0.7 mil)
☐ Clear coat available for all above finishes.
☐ HYLAN® 5000 is a registered trademark of Solvay Solexis, Inc.
☐ Ky nar® 500 is a registered trademark of Arkema.
☐ ALUM®-STAR® 50 and TRINAR® are registered trademarks of AkzoNobel
☐ ACRA-BOND® ULTRA is a registered trademark of AkzoNobel

AMCA CERTIFIED RATINGS

WATER MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL

NOTE: Please specify the following for proper construction of mounting hardware.
Wall Thickness
Design Wind Load
Substrate
(Wood, Steel, Poured Concrete, or Concrete Block)

*Width and Height dimensions are approximately 1/4" under listed sizes.

Due to continuing research, United Enertech reserves the right to change specifications without notice.

United
Enertech

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Fax: (423) 698-8629
www.unitedenertech.com

MODEL DCFL-D-6 (Hurricane Louver w/ drainable blades and jambs gutter downsputs)

DRAWN BY: CLJ
DATE: January 2002
REV. DATE: December 2014
REV. NO: 12
APPROVED BY: SGT
DWG. NO.: A-22
Suggested Specification

Furnish and install louver as hereinafter specified where shown on plans or as described in schedules. Louvers shall be Miami-Dade approved, hurricane resistant, drainable type with drain gutters in each blade and downspouts in jambs. Stationary drainable blades shall be contained within a 6.20" deep frame. Louver components (heads, jambs, sills, blades & milliuns) shall be factory assembled by the louver manufacturer. Louver sizes too large for shipping shall be built up by the contractor from factory assembled louver sections and milliun support tubes to provide overall sizes required. Louver design shall incorporate structural supports required to withstand a maximum wind load of 150 psf.

Performance Data

AMCA Standard 500-L provides a reasonable basis for testing and rating louver. Testing to AMCA 500-L is performed under a certain set of laboratory conditions. This does not guarantee that other conditions will not occur in the actual environment where louver must operate. The louver system should be designed with a reasonable safety factor for louver performance. To ensure protection from water carryover, design with a performance level somewhat below maximum desired pressure drop and .01 oz./sq.ft. of water penetration. Ratings do not include the effects of bird screen. Size tested: 48"x48".

United Enertech Corporation Certifies that the louver model DCFL-D-6 Is licencned to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with the AMCA publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance and water penetration ratings.

MODEL DCFL-D-6 FREE AREA CHART (SQUARE FEET)

<table>
<thead>
<tr>
<th>Louver Height Inches</th>
<th>12</th>
<th>18</th>
<th>24</th>
<th>30</th>
<th>36</th>
<th>42</th>
<th>48</th>
<th>54</th>
<th>60</th>
<th>66</th>
<th>72</th>
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<tr>
<td>12</td>
<td>0.27</td>
<td>0.44</td>
<td>0.61</td>
<td>0.78</td>
<td>0.95</td>
<td>1.11</td>
<td>1.28</td>
<td>1.45</td>
<td>1.62</td>
<td>1.79</td>
<td>1.95</td>
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<td>18</td>
<td>0.54</td>
<td>0.87</td>
<td>1.20</td>
<td>1.54</td>
<td>1.87</td>
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<td>2.53</td>
<td>2.86</td>
<td>3.20</td>
<td>3.53</td>
<td>3.86</td>
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<tr>
<td>24</td>
<td>0.79</td>
<td>1.27</td>
<td>1.76</td>
<td>2.24</td>
<td>2.72</td>
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<td>3.69</td>
<td>4.18</td>
<td>4.66</td>
<td>5.14</td>
<td>5.63</td>
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<tr>
<td>30</td>
<td>1.06</td>
<td>1.72</td>
<td>2.37</td>
<td>3.03</td>
<td>3.68</td>
<td>4.34</td>
<td>4.99</td>
<td>5.65</td>
<td>6.30</td>
<td>6.96</td>
<td>7.61</td>
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<td>36</td>
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<td>2.06</td>
<td>2.84</td>
<td>3.62</td>
<td>4.40</td>
<td>5.19</td>
<td>5.97</td>
<td>6.75</td>
<td>7.54</td>
<td>8.32</td>
<td>9.10</td>
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<td>1.51</td>
<td>2.44</td>
<td>3.37</td>
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<td>5.22</td>
<td>6.15</td>
<td>7.08</td>
<td>8.01</td>
<td>8.94</td>
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<td>4.07</td>
<td>5.19</td>
<td>6.31</td>
<td>7.43</td>
<td>8.24</td>
<td>9.68</td>
<td>10.80</td>
<td>11.92</td>
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<td>60</td>
<td>2.24</td>
<td>3.62</td>
<td>5.00</td>
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<td>9.15</td>
<td>10.53</td>
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<td>14.67</td>
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<td>66</td>
<td>2.50</td>
<td>4.05</td>
<td>5.59</td>
<td>7.13</td>
<td>8.67</td>
<td>10.21</td>
<td>11.75</td>
<td>13.29</td>
<td>14.83</td>
<td>16.37</td>
<td>17.92</td>
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MIAMI-DADE COUNTY HURRICANE STRUCTURAL TEST PERFORMANCE

SIZE TESTED: 146"w x72"h

DCBCCD TAS 201-94 LARGE MISSILE IMPACT TEST:

<table>
<thead>
<tr>
<th>MISSILE TYPE</th>
<th>VELOCITY IN FT/SEC (M/SEC)</th>
<th>IMPACTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 lb. Southern Yellow Pine 2&quot;x4&quot;x88-1/2&quot;long</td>
<td>50 (15.24)</td>
<td>4</td>
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</table>

DCBCCD TAS 202-94 UNIFORM STATIC AIR PRESSURE TEST:

<table>
<thead>
<tr>
<th>LOAD IN PSF (kPA)</th>
<th>LOAD DURATION</th>
<th>LOUVER RECOVERY</th>
</tr>
</thead>
<tbody>
<tr>
<td>+112.5 (+5.38)</td>
<td>30 seconds</td>
<td>100%</td>
</tr>
<tr>
<td>-112.5 (-5.38)</td>
<td>30 seconds</td>
<td>100%</td>
</tr>
<tr>
<td>+150 (+7.16)</td>
<td>30 seconds</td>
<td>100%</td>
</tr>
<tr>
<td>-150 (-7.18)</td>
<td>30 seconds</td>
<td>100%</td>
</tr>
<tr>
<td>+225 (+10.76)</td>
<td>30 seconds</td>
<td>100%</td>
</tr>
<tr>
<td>-225 (-10.76)</td>
<td>30 seconds</td>
<td>100%</td>
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</table>

DCBCCD TAS 203-94 FATIGUE LOADING TEST:

<table>
<thead>
<tr>
<th>CYCLES</th>
<th>LOAD IN PSF (kPA)</th>
<th>LOAD DURATION</th>
<th>LOUVER RECOVERY</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>+75 (+3.59)</td>
<td>1 to 3 seconds</td>
<td>100%</td>
</tr>
<tr>
<td>600</td>
<td>-75 (-3.59)</td>
<td>1 to 3 seconds</td>
<td>100%</td>
</tr>
<tr>
<td>80</td>
<td>+90 (+4.31)</td>
<td>1 to 3 seconds</td>
<td>100%</td>
</tr>
<tr>
<td>80</td>
<td>-90 (-4.31)</td>
<td>1 to 3 seconds</td>
<td>100%</td>
</tr>
<tr>
<td>1</td>
<td>+195 (+9.33)</td>
<td>1 to 3 seconds</td>
<td>100%</td>
</tr>
<tr>
<td>1</td>
<td>-195 (-9.33)</td>
<td>1 to 3 seconds</td>
<td>100%</td>
</tr>
</tbody>
</table>

GENERAL INSTALLATION DETAILS

-See specific details for substrates on installation details (NOA drawings) as can be found at www.unitedenergetech.com

Vertically mounted angle (both sides)
(Use appropriate fasteners for substrate)
#14 x 1"(304 s/s) sheet metal screws to louver, 5" from top & bottom, 7" o.c.

2" wide cross bar with blade supports

Vertical mullion tube

TOP VIEW

72" max section
Varies
72" max section

24" max (typ.)

(Use .375" s/s thru bolts= 9" from top & bottom, 18" o.c.)

Note: If louver is 72" wide or less, the multi-section height is unlimited.

2" x 4" x .26" or .31" (8" long) Aluminum angle @ each mullion (head & sill) anchored with fasteners per sheet 1 of installation details (NOA drawings)
SEE SPECIFIC TYPE DETAILS FOR SUBSTRATES IN INSTALLATION DETAILS FOR MAXIMUM HEIGHTS.

Note: Cross-bar with blade supports placed as shown above

PLEASE NOTE: THIS DRAWING IS FOR GENERAL INFORMATION. REFER TO SPECIFIC SUBSTRATE DESIGN CRITERIA FOR EXACT INSTALLATION DETAILS (NOA #12-0120.06)