Application

The **VSFL 130** offers exceptional protection against wind-driven rain under the most severe conditions and is ideally suited for high wind areas or applications that are sensitive to wind-driven rain penetration. The **VSFL 130** incorporates horizontal blades and is available in a wide array of anodized and powder coated finishes including custom color matching.

Standard Construction

- **Material:** Mill finish alloy 6063-T6 extruded aluminium.
- **Frame:** 130 deep x 2.0 thick (mm) channel.
- **Blade:** 45 deg. x 2.0mm thick horizontal drainable style.
- **Screen:** 20x40x1.1 (mm) expanded and flattened aluminum

- **Mullion:** Visible type
- **Fabricated Dimensions:**
  - **Minimum:** 114 x 127 (mm)
  - **Maximum:** 1524 x 3048 (mm) ; 3048 x 1524 (mm)
  - **Multiple section:** Unlimited

Options

- **Factory Finish**
  - High Performance Fluoropolymer - 100% resin Newlar®/70% resin Kynar®
  - Baked Enamel
  - Clear or Color Anodized, Class 1
  - Prime Coat
  - Hidden vertical mullion for continuous blade appearance.
- **Flange frame:**
  - 1 ½” (38) flange
  - Custom-size flange
  - Stucco flange
  - Glazing frame
- **Welded construction.**
- **Alternate bird or insect screens.**
- **Filter racks.**
- **Hinge frame**
- **Head and/or cill flashing.**
- **Installation hardware:**
  - Clip angles
  - Continuous angles
  - Bulgars bars:
    - Shipped loose
    - Shipped mounted
- **Frame closure.**

Ratings

- **Free Area:** [48" x 48" (1219 x 1219) unit]:
  - 8.38 ft² (0.78 m²) 52.37%
- **Performance @ Beginning Point of Water Penetration**
  - **Free Area Velocity:** Above 1070.5 fpm (5.44 m/s)
  - **Air Volume Delivered:** Above 8604 cfm (4.06 m³/s)
  - **Pressure Loss:** 0.22 in. wg. (55.5 Pascal)
- **Velocity @ 0.15 in. wg. Pressure Loss:** 888 fpm (4.51 m/s)
- **Std. Design Load:** 30 psf

Certified Ratings:

Ventline certifies that the model VSFL-130 shown herein is licensed to bear the AMCA seal. The ratings shown are based on test 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, water penetration and wind driven rain ratings.
**Free Area (Ft²)**

<table>
<thead>
<tr>
<th>WINDS</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>
<th>78</th>
<th>84</th>
<th>90</th>
<th>96</th>
<th>102</th>
<th>108</th>
<th>114</th>
<th>120</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPH</td>
<td>305</td>
<td>457</td>
<td>620</td>
<td>762</td>
<td>904</td>
<td>1057</td>
<td>1209</td>
<td>1362</td>
<td>1515</td>
<td>1668</td>
<td>1821</td>
<td>1974</td>
<td>2127</td>
<td>2280</td>
<td>2433</td>
<td>2586</td>
<td>2739</td>
<td>2892</td>
<td>3045</td>
</tr>
<tr>
<td>Width (Ft²)</td>
<td>0.93</td>
<td>1.39</td>
<td>1.85</td>
<td>2.32</td>
<td>2.79</td>
<td>3.27</td>
<td>3.75</td>
<td>4.23</td>
<td>4.71</td>
<td>5.19</td>
<td>5.67</td>
<td>6.15</td>
<td>6.64</td>
<td>7.13</td>
<td>7.62</td>
<td>8.11</td>
<td>8.60</td>
<td>9.09</td>
<td>9.58</td>
</tr>
</tbody>
</table>

**Certified Ratings:** Ventline certifies that the model VSFL-130 shown herein is licensed to bear the AMCA seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Program.

**Air Performance (Standard Air .075 lb/ft³)**
Test size 48 in. x 48 in.
Tested in accordance with ANSI/AMCA 500-L-12

**WIND DRIVEN RAIN PERFORMANCE**
The Louver test was based on a 48" (1219 mm) x 48" (1219 mm) core area unit tested at a rainfall rate of 3" per hour (75 mm/hr) and with a wind directed to the face if the louvre at a velocity of 29 mph (13 m/s) as well as a rainfall rate of 8" per hour (203 mm/hr) and a wind of 50 mph (23.3 m/s). The test data shall show the water penetration effectiveness rating to each corresponding ventilation rate.

**Ventilation Airflow (cfm)**

<table>
<thead>
<tr>
<th>0</th>
<th>2879</th>
<th>4199</th>
<th>5694</th>
<th>7170</th>
<th>8379</th>
<th>9914</th>
<th>11514</th>
<th>12752</th>
<th>14109</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Ventilation Rate (m/sec)</td>
<td>0.0</td>
<td>0.5</td>
<td>1.0</td>
<td>1.5</td>
<td>2.0</td>
<td>2.5</td>
<td>3.0</td>
<td>3.5</td>
<td>4.0</td>
</tr>
<tr>
<td>Core Ventilation Rate (ft per min) @ 28' &amp; 3'</td>
<td>0</td>
<td>99</td>
<td>197</td>
<td>295</td>
<td>393</td>
<td>491</td>
<td>589</td>
<td>687</td>
<td>785</td>
</tr>
<tr>
<td>Free Area Velocity (ft per min) @ 28' &amp; 3'</td>
<td>0</td>
<td>207</td>
<td>411</td>
<td>615</td>
<td>819</td>
<td>1023</td>
<td>1227</td>
<td>1431</td>
<td>1635</td>
</tr>
<tr>
<td>Rating Effectiveness @ 28' &amp; 3'</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>Effectiveness Ratio @ 28' &amp; 3'</td>
<td>99.4</td>
<td>99.3</td>
<td>99.0</td>
<td>98.7</td>
<td>98.4</td>
<td>98.1</td>
<td>97.8</td>
<td>97.5</td>
<td>97.2</td>
</tr>
</tbody>
</table>

**Effective Rating:**

| 28' & 3' | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 |

**Water Penetration of VSFL-130**

<table>
<thead>
<tr>
<th>Free Area Velocity (ft/sec)</th>
<th>0</th>
<th>0.1</th>
<th>0.2</th>
<th>0.3</th>
<th>0.4</th>
<th>0.5</th>
<th>0.6</th>
<th>0.7</th>
<th>0.8</th>
<th>0.9</th>
<th>1.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Penetration (in/hr)</td>
<td>0</td>
<td>0.1</td>
<td>0.2</td>
<td>0.3</td>
<td>0.4</td>
<td>0.5</td>
<td>0.6</td>
<td>0.7</td>
<td>0.8</td>
<td>0.9</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**Table 1**

<table>
<thead>
<tr>
<th>Discharge Loss Coefficient Class</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class</td>
<td>0.4 and above</td>
<td>0.3 to 0.399</td>
<td>0.2 to 0.299</td>
<td>0.199 and below</td>
</tr>
<tr>
<td>Exhaust</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

**Exhaust 2**

**Intake 2**

VSFL 130 / March 2018

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FINISHES

POWDER COATING: Louver shall be cleaned, pre-treated and FINISHED-AFTER-ASSEMBLY with an inhibitive primer and oven-cured polyester powder coatings complies with BS6496:1984 and Qualicoat requirement. Normally 70 to 90 microns.


ANODIZE: Louver shall be FINISHED-AFTER-ASSEMBLY with class 1 clear anodized or electrolytically color anodized coating that complies with AAMA Specification 611-98, “Voluntary Specification for Anodized Architectural Aluminium”. Color shall be from Gold, Silver and Black Matt or Polished.

EPOXY PAINT: Louver shall be cleaned, pre-treated and FINISH-AFTER-ASSEMBLY with an oven cured thermosetting enamel finish in compliance with AAMA 2603, “Voluntary Specification Performance Requirements and Test Procedures for Pigmented Organic Coatings”