GENERAL

Ventline Weather Resistance Louvers is designed to provide weather resistance and excellent air volume qualities with standard resistance in water penetration. VWL-100 is suitable for special application and supplied with concealed mullions for continuous blade or modular assemblies. Vertically installed into the wall opening of the building.

CONSTRUCTION

Manufactured from aluminium extrusion Alloy 6063 T6 mechanically jointed.

Frame .......................... 2.0mm (T) Al. Extrusion
Blade ............................ 2.0mm (T) Al. Extrusion
Blade Angle ....................... 45° Degrees
Blade Spacing ..................... 100mm
Bottom Blade Spacing .............. Varies
Depth ............................... 103mm (4”)
Free Area (%) ..................... 47%
Point of water penetration .......... 672 fpm (205)
Min. Size .......................... 300x300 (mm)
Max. Size .......................... 2400x2400(mm)
Louver Clearance .................. 1/4 inch less
Larger Sizes in multiple section
Finish ................ Mill Finish, Powder coated, Epoxy coated, PVDF and Natural Anodizing. Special coating is available upon request.

OPTIONAL FEATURE

Blank Panels. ............ Double wall or Single skin
Mullion ...................... more than 1.8m width
Support screen .......... with Birdmesh or Insect mesh
from Aluminium, Galvanized or Stainless steel.
Filter Rack ..................... Washable type
Openable Louver .............. Hinged/Pinned
Welded Assembly ......... Frames and blade with fillet welds concealed from view. Each weld has 25.4mm (1-inch) min. in length with 3.175mm (1/8 – inch) leg.

SUGGESTED SPECIFICATION

Manufacture and install as specified hereinafter where shown on plans or as described in schedules. Louvers shall be stationary type entirely contained a 4” (103) frame. Louver components (heads, jambs, cills, blades and mullions) shall be factory assembled by Ventline. Louver sizes too large for shipping shall be made in modules for easy handling. Louver is designed to withstand a wind load of 20 lbs. per ft² (0.96kPa).

Louver shall be Ventline Model VWL–100 constructions as follows:
Frame: 2mm (T) Extruded Aluminium – Alloy 6063T5/T6
Blades: 45° Degrees 2mm (T) Extruded Aluminium – Alloy 6063T5/T6
Screen: 1.0mm (T) Aluminium flattened expanded mesh.
Finish: To be selected from Standard RAL colour charts (Other colour is available upon request)
VWL-100 PERFORMANCE SPECIFICATION DATA

All tests performed at an independent laboratory and based on AMCA standard 511-91 for air and water penetration.

FREE AREA CALCULATIONS in SQ. FT.

<table>
<thead>
<tr>
<th>Height - Inches</th>
<th>12 in.</th>
<th>18 in.</th>
<th>24 in.</th>
<th>30 in.</th>
<th>36 in.</th>
<th>42 in.</th>
<th>48 in.</th>
<th>54 in.</th>
<th>60 in.</th>
<th>66 in.</th>
<th>72 in.</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 in.</td>
<td>0.13 ft²</td>
<td>0.20 ft²</td>
<td>0.26 ft²</td>
<td>0.33 ft²</td>
<td>0.39 ft²</td>
<td>0.46 ft²</td>
<td>0.52 ft²</td>
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<td>0.65 ft²</td>
<td>0.72 ft²</td>
<td>0.78 ft²</td>
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<tr>
<td>18 in.</td>
<td>0.51 ft²</td>
<td>0.77 ft²</td>
<td>1.02 ft²</td>
<td>1.28 ft²</td>
<td>1.53 ft²</td>
<td>1.79 ft²</td>
<td>2.04 ft²</td>
<td>2.30 ft²</td>
<td>2.55 ft²</td>
<td>2.81 ft²</td>
<td>3.06 ft²</td>
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<tr>
<td>24 in.</td>
<td>0.82 ft²</td>
<td>1.23 ft²</td>
<td>1.64 ft²</td>
<td>2.05 ft²</td>
<td>2.46 ft²</td>
<td>2.87 ft²</td>
<td>3.28 ft²</td>
<td>3.69 ft²</td>
<td>4.10 ft²</td>
<td>4.51 ft²</td>
<td>4.92 ft²</td>
</tr>
<tr>
<td>30 in.</td>
<td>1.10 ft²</td>
<td>1.65 ft²</td>
<td>2.20 ft²</td>
<td>2.75 ft²</td>
<td>3.30 ft²</td>
<td>3.85 ft²</td>
<td>4.40 ft²</td>
<td>4.95 ft²</td>
<td>5.50 ft²</td>
<td>6.05 ft²</td>
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<td>2.03 ft²</td>
<td>2.70 ft²</td>
<td>3.38 ft²</td>
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<td>4.73 ft²</td>
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<td>5.76 ft²</td>
<td>6.58 ft²</td>
<td>7.40 ft²</td>
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<tr>
<td>48 in.</td>
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<td>3.76 ft²</td>
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<td>6.58 ft²</td>
<td>7.52 ft²</td>
<td>8.46 ft²</td>
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<td>10.34 ft²</td>
<td>11.28 ft²</td>
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<td>54 in.</td>
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<td>7.40 ft²</td>
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<td>11.63 ft²</td>
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<td>60 in.</td>
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<td>8.23 ft²</td>
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<td>11.75 ft²</td>
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<td>8.46 ft²</td>
<td>9.87 ft²</td>
<td>11.28 ft²</td>
<td>12.69 ft²</td>
<td>14.10 ft²</td>
<td>15.51 ft²</td>
<td>16.92 ft²</td>
</tr>
</tbody>
</table>

Air Performance (Standard Air .075 lb/ft²)
Test size 48 in. x 48 in.
Tested in accordance with ANSI/AMCA 500-L

Water Penetration (Standard Air .075 lb/ft²)
Test Size 48 in. x 48 in. Test Duration of 15 min
Test in accordance with ANSI/AMCA 500-L

Air Velocity Through Free Area (FPM)

Pressure Drop (in. w.g.)

Free Area Velocity (FPM) beginning of water penetration @ 0.1 ft²/60 min

The beginning of water penetration defined as the velocity where the water penetration curves projects through .01 ft² of water penetration per ft² of louver free area. * The beginning of water penetration per AMCA Publication 511 based on AMCA measured free area for model VWL-100 is 671.6 fpm.

Ventline Metal Industries certifies that the model VWL-100 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 Seal applies to air performance ratings and water penetration ratings.

VWL-100 / June 2015
VENTLINE LOUVERS TESTED AT AMCA LABORATORY

AMCA Standard 500-L-07
Water Penetration Test

ANSI/AMCA Standard 500-L-12
(Exhaust) Pressure Drop Test

ANSI/AMCA Standard 500-L-12
(Intake) Pressure Drop Test
## TYPICAL INSTALLATION DETAILS

<table>
<thead>
<tr>
<th>Masonry Wall</th>
<th>Metal Cladding Wall</th>
<th>Timber Installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flange Mount</td>
<td>Angle Subframe</td>
<td></td>
</tr>
</tbody>
</table>

### 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.

**PVDF COATING:** Louver shall be cleaned, pre-treated and FINISHED-AFTER-ASSEMBLY with an inhibitive primer and Kynar resin coating with minimum 1.2 mils dry-film coating thickness that complies with AAMA2605-05. “Voluntary Specification, Performance Requirements and Tests Procedures for Superior Performance Organic Colcoat requirements.”

**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”.

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