GENERAL

Ventline Double-drainable louvers is designed to provide weather resistance and excellent air volume qualities with high resistance in water penetration. VDL-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 ............ 45º Degrees
Blade Spacing .......... 130mm
Bottom Blade Spacing .. Varies
Depth .................. 103mm (4”)
Free Area (%) ........... 50%
Point of water penetration .... 1084.1 fpm (330)
Min. Size ............... 300x300 (mm)
Max. Size .............. 2400x2400(mm)
Louver Clearance ........ 1/4 inch
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.
Irregular shapes ........ Triangular, Trapezoidal & etc..

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).

Louvers shall be Ventline Model VDL–100 constructions as follows:
Head Frame: Drainable Head
Frame: 2mm (T) Extruded Aluminium – Alloy 6063T5/T6
Blades: 45º Degrees 2mm (T) Extruded Aluminium –
Alloy 6063T5/T6 with continuous gutter
Screen: 1.0mm (T) Aluminium flattened expanded mesh.
Finish: To be selected from Standard RAL colour charts
(Other colour is available upon request)
## FREE AREA CALCULATIONS in SQ. FT.

| INCHES | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | 90 | 96 | 102 | 108 | 114 | 120 |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| MM     | 305| 457| 610| 762| 914| 1067| 1220| 1372| 1524| 1676| 1828| 1981| 2134| 2286| 2438| 2591| 2743| 2896| 3048 |
| WIDTH - FT² | 0.86 | 0.52 | 0.71 | 0.89 | 1.07 | 1.25 | 1.43 | 1.61 | 1.78 | 1.96 | 2.14 | 2.32 | 2.50 | 2.67 | 2.85 | 3.03 | 3.21 | 3.39 | 3.57 |
| 12     | 0.79 | 1.13 | 1.58 | 1.98 | 2.38 | 2.77 | 3.15 | 3.54 | 3.93 | 4.32 | 4.71 | 5.10 | 5.49 | 5.88 | 6.27 | 6.66 | 7.05 | 7.44 | 7.83 |
| 24     | 1.09 | 1.44 | 2.19 | 2.73 | 3.28 | 3.83 | 4.37 | 4.92 | 5.47 | 6.01 | 6.56 | 7.11 | 7.66 | 8.20 | 8.75 | 9.30 | 9.84 | 10.39 | 10.94 |
| 96     | 2.68 | 4.01 | 5.35 | 6.69 | 8.02 | 9.27 | 10.70 | 12.04 | 13.38 | 14.71 | 16.04 | 17.36 | 18.73 | 20.10 | 21.48 | 22.86 | 24.24 | 25.64 | 27.05 |
| 132    | 3.52 | 5.28 | 7.04 | 8.80 | 10.51 | 12.22 | 13.90 | 15.58 | 17.25 | 18.93 | 20.60 | 22.29 | 23.97 | 25.65 | 27.34 | 29.02 | 30.71 | 32.40 | 34.09 |
| 144    | 3.89 | 5.52 | 7.37 | 9.21 | 11.05 | 12.89 | 14.71 | 16.58 | 18.43 | 20.25 | 22.09 | 23.94 | 25.79 | 27.63 | 29.46 | 31.31 | 33.15 | 35.00 | 36.84 |
| 156    | 4.18 | 6.00 | 8.87 | 10.69 | 12.57 | 14.53 | 16.50 | 18.60 | 20.66 | 22.72 | 24.79 | 26.86 | 28.93 | 31.00 | 33.05 | 35.13 | 37.19 | 39.20 | 41.33 |
| 180    | 4.75 | 6.87 | 9.26 | 11.16 | 13.11 | 15.16 | 17.21 | 19.37 | 21.53 | 23.70 | 25.87 | 28.04 | 30.21 | 32.38 | 34.54 | 36.70 | 38.87 | 41.03 | 43.19 |
| 192    | 5.04 | 7.28 | 9.72 | 11.72 | 13.77 | 15.83 | 17.90 | 20.06 | 22.22 | 24.40 | 26.58 | 28.75 | 30.93 | 33.10 | 35.27 | 37.44 | 39.61 | 41.78 | 43.95 |

### 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

Ventline Metal Industries certifies that the model VDL-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.

The beginning of water penetration defined as the velocity where the water penetration curves projects through .01 oz. 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 VDL-100 is 1084.1 fpm.
VENTLINE LOUVERS TESTED AT AMCA LABORATORY

AMCA Standard 500-L-07
Water Penetration Test
Test Figure 5.6

ANSI/AMCA Standard 500-L
(Exhaust) Pressure Drop Test
Test Figure 5.5

ANSI/AMCA Standard 500-L-12
(Intake) Pressure Drop Test
Test Figure 5.5
## TYPICAL INSTALLATION DETAILS

<table>
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<th>Metal Cladding Wall</th>
<th>Timber Installation</th>
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<td><img src="image1" alt="Masonry Wall Diagram" /></td>
<td><img src="image2" alt="Metal Cladding Wall Diagram" /></td>
<td><img src="image3" alt="Timber Installation Diagram" /></td>
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<td><img src="image5" alt="Angle Subframe Diagram" /></td>
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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.

**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 Coatings on Aluminium Extrusions and Panels” and Qualicoat 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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