

## 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.

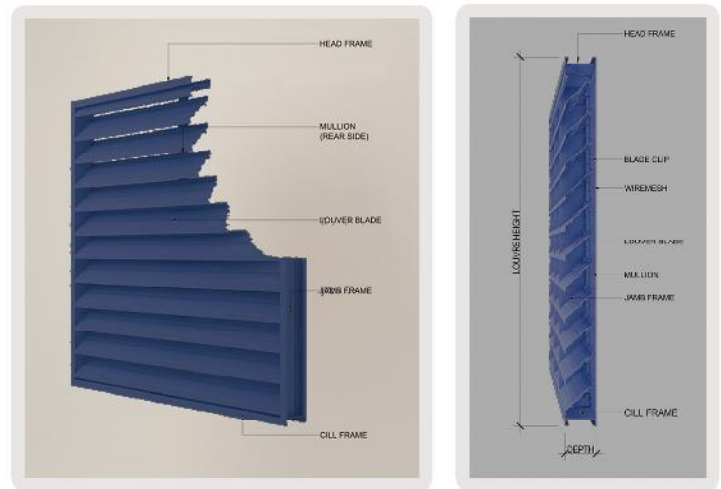
## CONSTRUCTION

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.



LOUVER PARTS

## 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 ft<sup>2</sup> (0.96kPa).

Louvers 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)

DATE	DESIGNER			ENGINEER
PROJECT				
ITEM	QTY	W	H	<div><div>AMCA CERTIFIED RATINGS</div><div>WATER PENETRATION AIR PERFORMANCE</div><div>AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC.™</div></div> <div>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.</div>

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## VWL-100 PERFORMANCE SPECIFICATION DATA

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

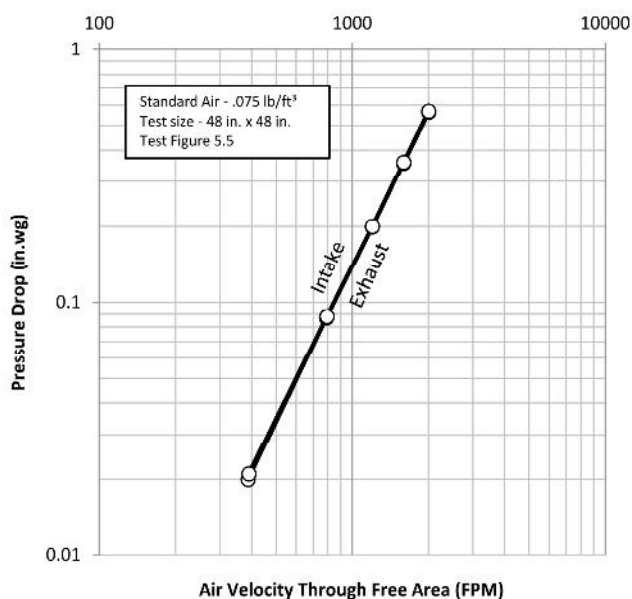
### FREE AREA CALCULATIONS in SQ. FT.

		Width - Inches										
Height - Inches		12 in.	18 in.	24 in.	30 in.	36 in.	42 in.	48 in.	54 in.	60 in.	66 in.	72 in.
	12 in.	0.13 Ft <sup>2</sup>	0.20 Ft <sup>2</sup>	0.26 Ft <sup>2</sup>	0.33 Ft <sup>2</sup>	0.39 Ft <sup>2</sup>	0.46 Ft <sup>2</sup>	0.52 Ft <sup>2</sup>	0.59 Ft <sup>2</sup>	0.65 Ft <sup>2</sup>	0.72 Ft <sup>2</sup>	0.78 Ft <sup>2</sup>
	18 in.	0.51 Ft <sup>2</sup>	0.77 Ft <sup>2</sup>	1.02 Ft <sup>2</sup>	1.28 Ft <sup>2</sup>	1.53 Ft <sup>2</sup>	1.79 Ft <sup>2</sup>	2.04 Ft <sup>2</sup>	2.30 Ft <sup>2</sup>	2.55 Ft <sup>2</sup>	2.81 Ft <sup>2</sup>	3.06 Ft <sup>2</sup>
	24 in.	0.82 Ft <sup>2</sup>	1.23 Ft <sup>2</sup>	1.64 Ft <sup>2</sup>	2.05 Ft <sup>2</sup>	2.46 Ft <sup>2</sup>	2.87 Ft <sup>2</sup>	3.28 Ft <sup>2</sup>	3.69 Ft <sup>2</sup>	4.10 Ft <sup>2</sup>	4.51 Ft <sup>2</sup>	4.92 Ft <sup>2</sup>
	30 in.	1.10 Ft <sup>2</sup>	1.65 Ft <sup>2</sup>	2.20 Ft <sup>2</sup>	2.75 Ft <sup>2</sup>	3.30 Ft <sup>2</sup>	3.85 Ft <sup>2</sup>	4.40 Ft <sup>2</sup>	4.95 Ft <sup>2</sup>	5.50 Ft <sup>2</sup>	6.05 Ft <sup>2</sup>	6.60 Ft <sup>2</sup>
	36 in.	1.35 Ft <sup>2</sup>	2.03 Ft <sup>2</sup>	2.70 Ft <sup>2</sup>	3.38 Ft <sup>2</sup>	4.05 Ft <sup>2</sup>	4.73 Ft <sup>2</sup>	5.40 Ft <sup>2</sup>	6.08 Ft <sup>2</sup>	6.75 Ft <sup>2</sup>	7.43 Ft <sup>2</sup>	8.10 Ft <sup>2</sup>
	42 in.	1.65 Ft <sup>2</sup>	2.47 Ft <sup>2</sup>	3.29 Ft <sup>2</sup>	4.11 Ft <sup>2</sup>	4.94 Ft <sup>2</sup>	5.76 Ft <sup>2</sup>	6.58 Ft <sup>2</sup>	7.40 Ft <sup>2</sup>	8.23 Ft <sup>2</sup>	9.05 Ft <sup>2</sup>	9.87 Ft <sup>2</sup>
	48 in.	1.88 Ft <sup>2</sup>	2.82 Ft <sup>2</sup>	3.76 Ft <sup>2</sup>	4.70 Ft <sup>2</sup>	5.64 Ft <sup>2</sup>	6.58 Ft <sup>2</sup>	7.52 Ft <sup>2</sup>	8.46 Ft <sup>2</sup>	9.40 Ft <sup>2</sup>	10.34 Ft <sup>2</sup>	11.28 Ft <sup>2</sup>
	54 in.	2.12 Ft <sup>2</sup>	3.17 Ft <sup>2</sup>	4.23 Ft <sup>2</sup>	5.29 Ft <sup>2</sup>	6.35 Ft <sup>2</sup>	7.40 Ft <sup>2</sup>	8.46 Ft <sup>2</sup>	9.52 Ft <sup>2</sup>	10.58 Ft <sup>2</sup>	11.63 Ft <sup>2</sup>	12.69 Ft <sup>2</sup>
	60 in.	2.35 Ft <sup>2</sup>	3.53 Ft <sup>2</sup>	4.70 Ft <sup>2</sup>	5.88 Ft <sup>2</sup>	7.05 Ft <sup>2</sup>	8.23 Ft <sup>2</sup>	9.40 Ft <sup>2</sup>	10.58 Ft <sup>2</sup>	11.75 Ft <sup>2</sup>	12.93 Ft <sup>2</sup>	14.10 Ft <sup>2</sup>
	66 in.	2.59 Ft <sup>2</sup>	3.88 Ft <sup>2</sup>	5.17 Ft <sup>2</sup>	6.46 Ft <sup>2</sup>	7.76 Ft <sup>2</sup>	9.05 Ft <sup>2</sup>	10.34 Ft <sup>2</sup>	11.63 Ft <sup>2</sup>	12.93 Ft <sup>2</sup>	14.22 Ft <sup>2</sup>	15.51 Ft <sup>2</sup>
	72 in.	2.82 Ft <sup>2</sup>	4.23 Ft <sup>2</sup>	5.64 Ft <sup>2</sup>	7.05 Ft <sup>2</sup>	8.46 Ft <sup>2</sup>	9.87 Ft <sup>2</sup>	11.28 Ft <sup>2</sup>	12.69 Ft <sup>2</sup>	14.10 Ft <sup>2</sup>	15.51 Ft <sup>2</sup>	16.92 Ft <sup>2</sup>

### Air Performance (Standard Air .075 lb/ft<sup>3</sup>)

Test size 48 in. x 48 in.

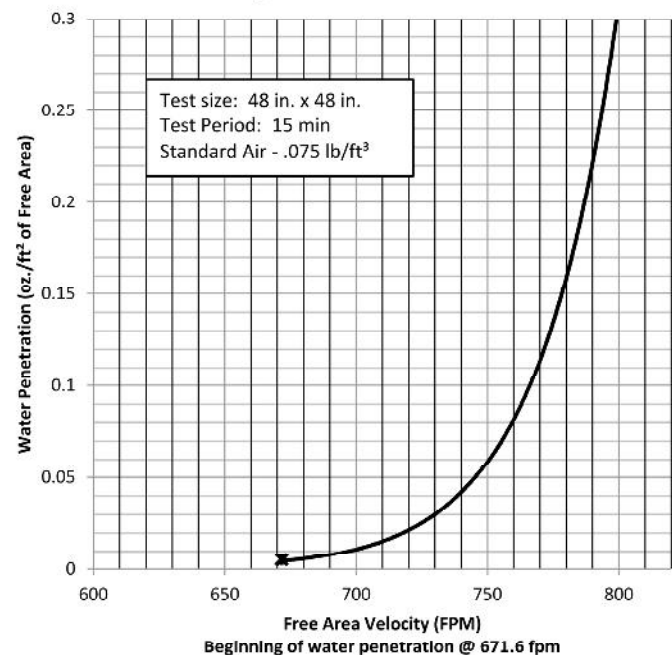
Tested in accordance with ANSI/AMCA 500-L



### Water Penetration (Standard Air .075 lb/ft<sup>3</sup>)

Test Size 48 in. x 48 in. Test Duration of 15 min

Test in accordance with ANSI/AMCA 500-L



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The beginning of water penetration defined as the velocity where the water penetration curves projects through .01 oz. of water (penetration per ft<sup>2</sup> 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 LOUVERS TESTED AT AMCA LABORATORY**



**AMCA Standard 500-L-07  
Water Penetration Test**

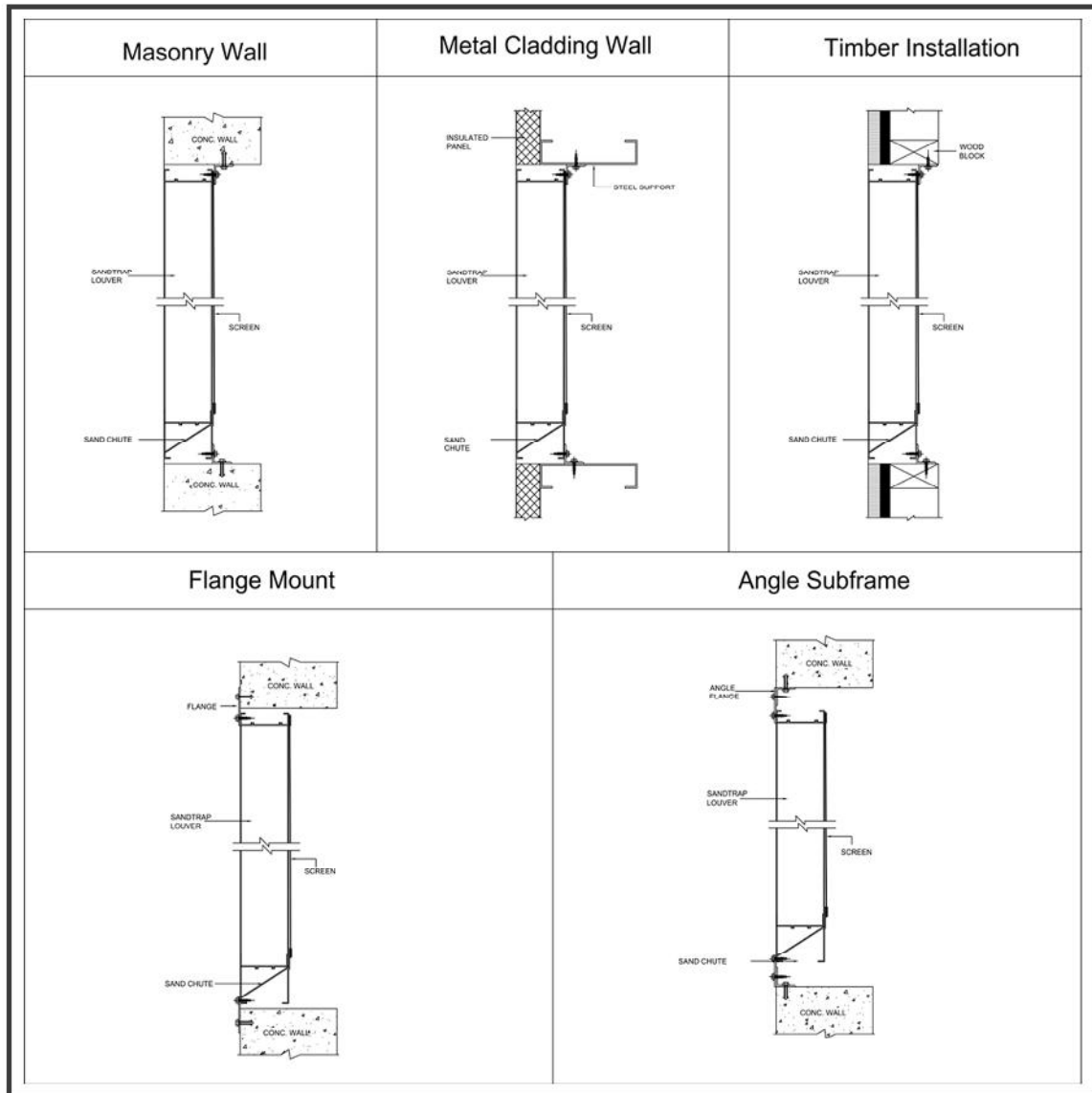


**ANSI/AMCA Standard 500-L-12  
(Exhaust) Pressure Drop Test**



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

## TYPICAL INSTALLATION DETAILS



## 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 Coiccoat 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"