

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.

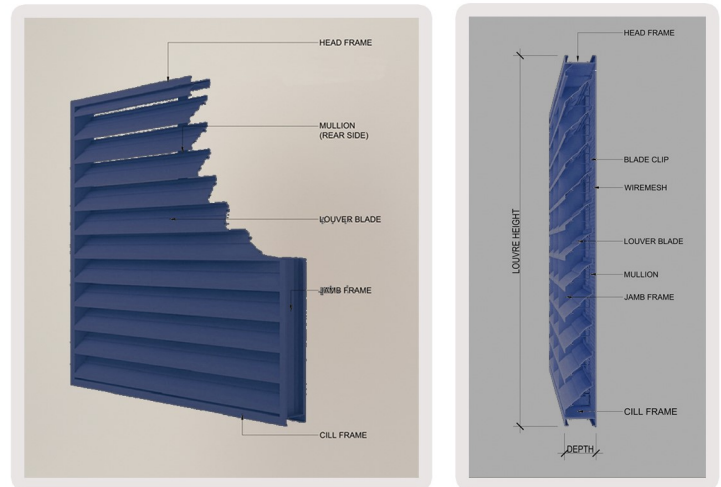
CONSTRUCTION

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 (%) 50%
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 ft² (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	AMCA CERTIFIED RATINGS WATER PENETRATION AIR PERFORMANCE AIR MOVEMENT AND OCCUPANT DISCOMFORT EQUIVOCAL INTERNATIONAL, INC.® Ventline 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.

VentLine

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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

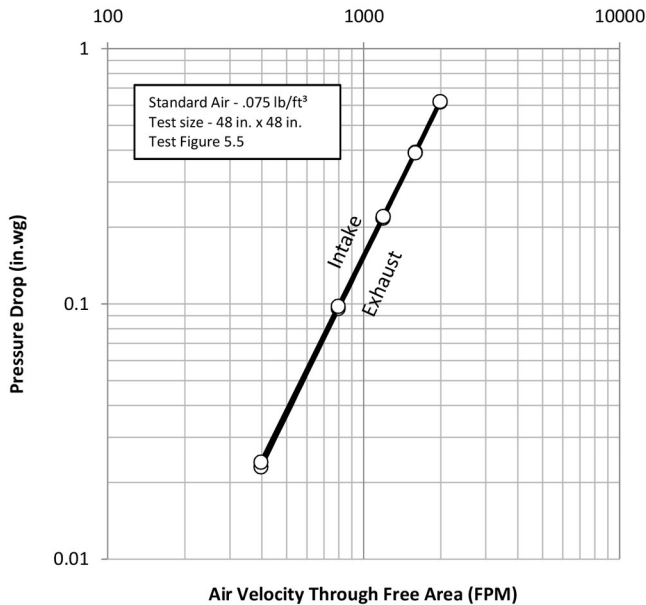
FREE AREA CALCULATIONS in SQ. FT.

		WIDTH - FT ²															
HEIGHT - FT ²	INCHES	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102
	MM	305	457	610	762	914	1067	1219	1372	1524	1676	1828	1981	2134	2286	2438	2591
	12	305	0.51	0.77	1.03	1.28	1.54	1.80	2.05	2.31	2.57	2.82	3.08	3.34	3.59	3.85	4.11
	18	457	0.61	0.91	1.21	1.51	1.82	2.12	2.42	2.73	3.03	3.33	3.63	3.94	4.24	4.54	4.85
	24	610	0.97	1.45	1.94	2.42	2.90	3.39	3.87	4.36	4.84	5.32	5.81	6.29	6.78	7.26	7.74
	30	762	0.98	1.47	1.96	2.45	2.93	3.43	3.91	4.40	4.89	5.38	5.87	6.36	6.85	7.34	7.83
	36	914	1.61	2.41	3.22	4.02	4.83	5.64	6.44	7.25	8.05	8.85	9.66	10.46	11.27	12.07	12.88
	42	1067	1.73	2.59	3.46	4.32	5.18	6.05	6.91	7.77	8.63	9.50	10.36	11.22	12.09	12.95	13.81
	48	1219	2.09	3.13	4.18	5.22	6.26	7.31	8.36	9.40	10.45	11.49	12.53	13.58	14.63	15.67	16.71
	54	1372	2.18	3.27	4.36	5.45	6.53	7.63	8.71	9.81	10.89	11.98	13.07	14.16	15.25	16.34	17.43
	60	1524	2.32	3.48	4.65	5.80	6.96	8.13	9.28	10.45	11.61	12.76	13.92	15.09	16.25	17.41	18.57
	66	1676	2.56	3.83	5.11	6.39	7.66	8.94	10.22	11.50	12.77	14.04	15.32	16.60	17.88	19.16	20.43
	72	1828	2.93	4.39	5.86	7.32	8.78	10.25	11.71	13.18	14.64	16.10	17.56	19.03	20.50	21.96	23.42
	78	1981	3.15	4.72	6.30	7.87	9.44	11.02	12.59	14.18	15.75	17.32	18.89	20.47	22.05	23.62	25.19
	84	2134	3.51	5.26	7.02	8.77	10.52	12.28	14.03	15.79	17.54	19.29	21.04	22.80	24.56	26.31	28.06
	90	2286	3.61	5.40	7.21	9.01	10.81	12.62	14.41	16.22	18.02	19.82	21.61	23.42	25.23	27.03	28.83
	96	2348	3.76	5.63	7.52	9.39	11.27	13.15	15.03	16.91	18.79	20.66	22.54	24.42	26.31	28.18	30.06
	102	2591	4.08	6.11	8.15	10.18	12.22	14.26	16.29	18.34	20.37	22.40	24.43	26.48	28.52	30.55	32.59
	108	2743	4.39	6.58	8.78	10.97	13.16	15.36	17.55	19.75	21.94	24.12	26.31	28.51	30.72	32.90	35.09
	114	2898	4.54	6.81	9.09	11.35	13.62	15.90	18.16	20.44	22.70	24.97	27.23	29.51	31.79	34.06	36.32
	120	3048	6.32	9.47	12.65	15.80	18.95	22.12	25.27	28.44	31.60	34.75	37.90	41.07	44.24	47.39	50.54

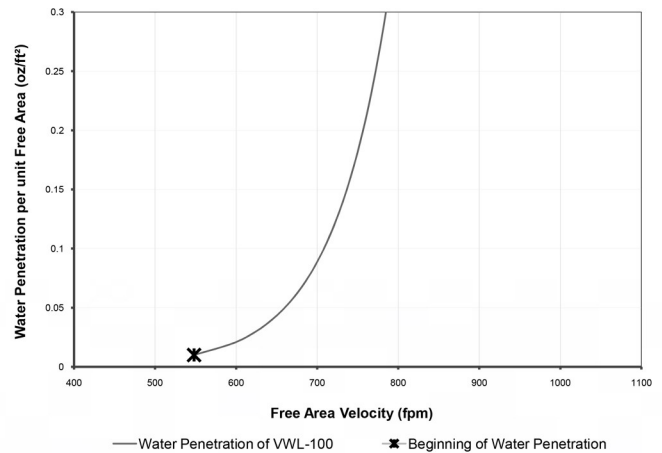
Air Performance (Standard Air .075 lb/ft³)

Test size 48 in. x 48 in.

Tested in accordance with ANSI/AMCA 500-L



Water Penetration of VWL-100



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 VWL-100 is 548.20 fpm.



Ventline 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.

VENTLINE LOUVERS TESTED AT AMCA LABORATORY



AMCA Standard 500-L-07
Water Penetration Test

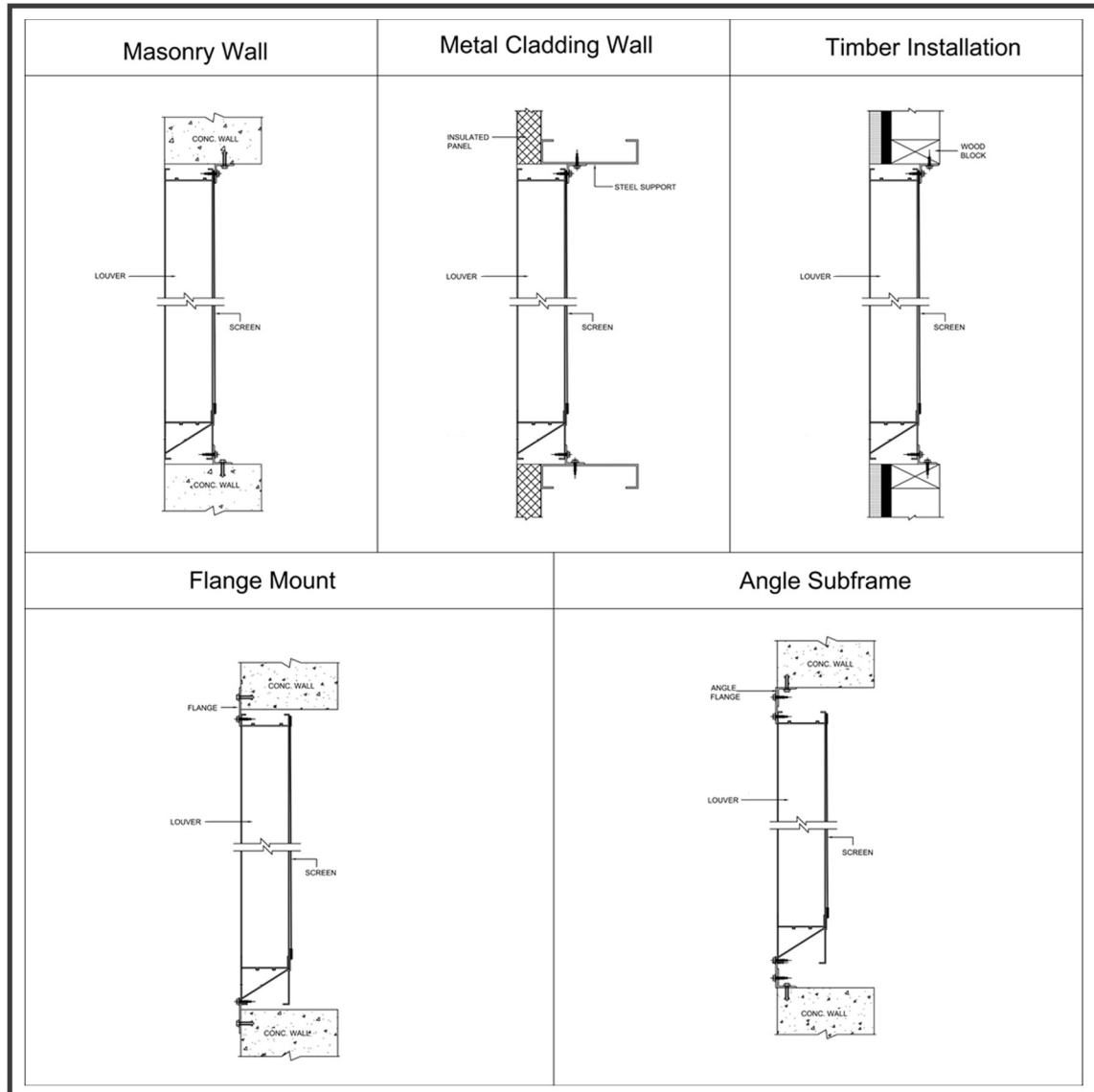


ANSI/AMCA Standard 500-L-12
(Exhaust) Pressure Drop Test



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 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 thermo-setting enamel finish in compliance with AAMA 2603, "Voluntary Specification Performance Requirements and Test Procedures for Pigmented Organic Coatings"