

6" STATIONARY WEATHER LOUVER

Extruded Aluminium Louvers

MODEL : VWL-150

GENERAL

Stationary Weatherproof extruded aluminium louvers is designed for intake and exhaust application for industrial and architectural purpose. VWL-150 is suitable for special application and supplied with support mullions for continuous blade or modular assemblies.

CONSTRUCTION

Manufactured from Extruded Alu. Alloy 6063T5 / T6

Frame 3.0mm (T)
 Blade 3.0mm (T)
 Mullion Concealed
 Depth 152mm (6")
 Free Area (%) 42%
 Min. Std. Size 304x457 (mm)
 Max. Std. Size 2200x3048(mm)
 Louver Clearance 1/4 inch

Larger Sizes is available on request.

Finish Mill Finish, Powder coated, Epoxy coated, PVDF and Natural Anodizing. Special coating is available upon request.

OPTIONAL FEATURE

Openable Options.....Pinned/Hinged
 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
 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..
 Sleeved flange for Ductwok system.

Ratings:

Free Area: [48" (1219 mm) x 48" (1219 mm) Unit]
 = 6.78 ft² (0.63 m²) : 42.4%

Performance @ Beginning of water penetration

Velocity: Above 725 fpm (3.68 m/s)
 Air Volume Delivered: Above 4867 cfm (2.30 m³/s)

Pressure Drop @ 652.33 fpm : 0.1 in.wg. (25 Pascals)



SUGGESTED SPECIFICATION

Manufacture and install as specified hereinafter where shown on plans or as described in schedules. Louvers shall be fixed non-drainable type entirely contained a 6" (150) 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. The Louver blade can be installed unsupported upto max 3000mm. Louver is designed to withstand a wind load of 30 lbs. per ft².

Louvers shall be Ventline Model VWL-150 constructions as follows:

Frame: 152mm depth manufactured from - 3.0mm (T) Alloy 6063T6 extrusion.

Blades: Fixed Louver blades upto 45 degrees - 3.0mm (T) alloy 6063T6 extrusion

Mullion Distance: Upto Max (3000 mm) o.c.

Screen: 1.0mm (T) Aluminium 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	 Certified Ratings Ventline certifies that the model VWL-150 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 and water penetration.



Ventilation and Acoustic Solutions

P.O. Box : 77261 , Dubai, UAE
 Tel.: +971 4 341 9538, Fax: +971 4 3419548
 Email: info@ventline.ae
 Website: www.ventlineinternational.com

Head Office
 6444 Santa Fe Drive, TX, USA, 75056, 3276
 Tel.: +1 469 767 6579
 Fax: +1 972 668 2553

AMCA CERTIFIED RATINGS

WATER PENETRATION AIR PERFORMANCE

AMCA INTERNATIONAL, INC.

VWL-150 PERFORMANCE SPECIFICATION DATA

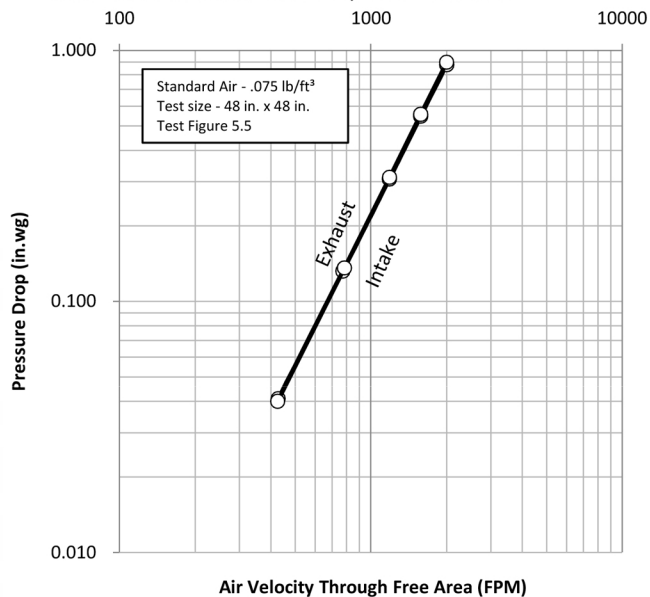
FREE AREA CALCULATIONS in SQ. FT.

		WIDTH - FT ²																		
HEIGHT - FT ²	INCHES	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
	MM	305	457	610	762	914	1067	1219	1372	1524	1676	1828	1981	2134	2286	2438	2591	2743	2898	3048
12	305																			
18	457	0.22	0.34	0.45	0.56	0.67	0.78	0.89	1.01	1.12	1.23	1.34	1.45	1.57	1.68	1.79	1.90	2.01	2.13	2.24
24	610	0.68	1.01	1.35	1.69	2.02	2.36	2.70	3.04	3.38	3.71	4.05	4.39	4.73	5.06	5.40	5.74	6.08	6.42	6.75
30	762	0.84	1.26	1.68	2.10	2.52	2.94	3.36	3.78	4.20	4.62	5.04	5.46	5.88	6.30	6.72	7.14	7.56	7.99	8.40
36	914	1.07	1.60	2.14	2.67	3.20	3.74	4.27	4.81	5.34	5.87	6.41	6.94	7.48	8.01	8.54	9.08	9.61	10.15	10.68
42	1067	1.30	1.95	2.60	3.25	3.90	4.55	5.20	5.85	6.50	7.15	7.79	8.45	9.10	9.75	10.40	11.05	11.70	12.36	13.00
48	1219	1.70	2.54	3.39	4.24	5.08	5.93	6.78	7.63	8.47	9.32	10.17	11.02	11.87	12.71	13.56	14.41	15.25	16.12	16.95
54	1372	1.86	2.79	3.72	4.65	5.58	6.51	7.44	8.37	9.30	10.23	11.15	12.09	13.02	13.95	14.88	15.81	16.74	17.68	18.60
60	1524	2.09	3.13	4.17	5.22	6.26	7.30	8.34	9.39	10.43	11.47	12.51	13.56	14.61	15.65	16.69	17.73	18.77	19.83	20.86
66	1676	2.50	3.74	4.99	6.24	7.48	8.74	9.98	11.23	12.48	13.72	14.97	16.22	17.47	18.72	19.96	21.22	22.46	23.73	24.96
72	1828	2.68	4.02	5.37	6.70	8.04	9.39	10.72	12.07	13.41	14.74	16.08	17.42	18.77	20.11	21.44	22.79	24.13	25.49	26.81
78	1981	2.89	4.34	5.79	7.23	8.67	10.12	11.57	13.02	14.46	15.90	17.35	18.80	20.25	21.69	23.13	24.59	26.03	27.50	28.92
84	2134	3.50	5.24	7.00	8.74	10.49	12.24	13.98	15.74	17.48	19.23	20.97	22.73	24.48	26.22	27.97	29.72	31.47	33.25	34.97
90	2286	3.53	5.29	7.07	8.83	10.59	12.36	14.12	15.89	17.65	19.41	21.17	22.94	24.72	26.48	28.24	30.01	31.77	33.56	35.30
96	2348	3.71	5.56	7.43	9.28	11.13	12.99	14.84	16.70	18.55	20.40	22.25	24.11	25.98	27.83	29.68	31.54	33.39	35.28	37.10
102	2591	3.95	5.92	7.90	9.87	11.84	13.82	15.79	17.78	19.75	21.71	23.68	25.67	27.65	29.62	31.59	33.57	35.54	37.55	39.49
108	2743	4.38	6.56	8.75	10.93	13.11	15.31	17.49	19.68	21.86	24.04	26.22	28.42	30.61	32.79	34.97	37.17	39.35	41.57	43.72
114	2898	4.57	6.84	9.13	11.41	13.68	15.97	18.25	20.54	22.81	25.09	27.36	29.65	31.94	34.22	36.49	38.78	41.06	43.38	45.63
120	3048	4.76	7.14	9.53	11.90	14.28	16.67	19.04	21.43	23.81	26.18	28.56	30.95	33.34	35.71	38.08	40.47	42.85	45.27	47.61

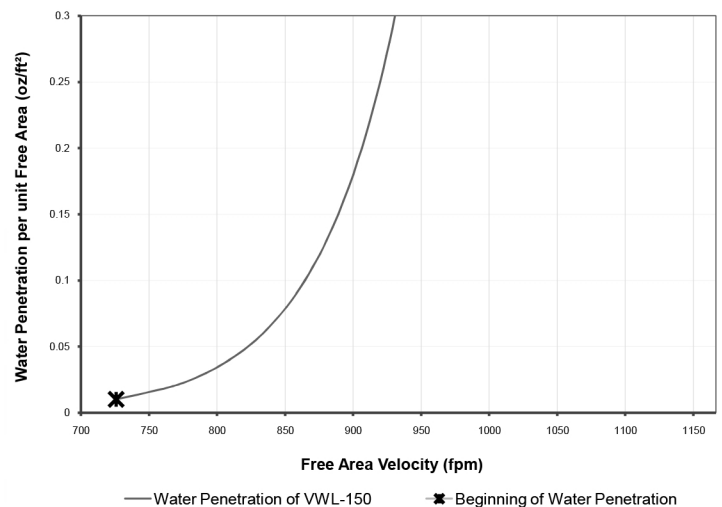
Air Performance (Standard Air .075 lb/ft³)

Test size 48 in. x 48 in.

Tested in accordance with ANSI/AMCA 500-L-12



Water Penetration of VWL-150



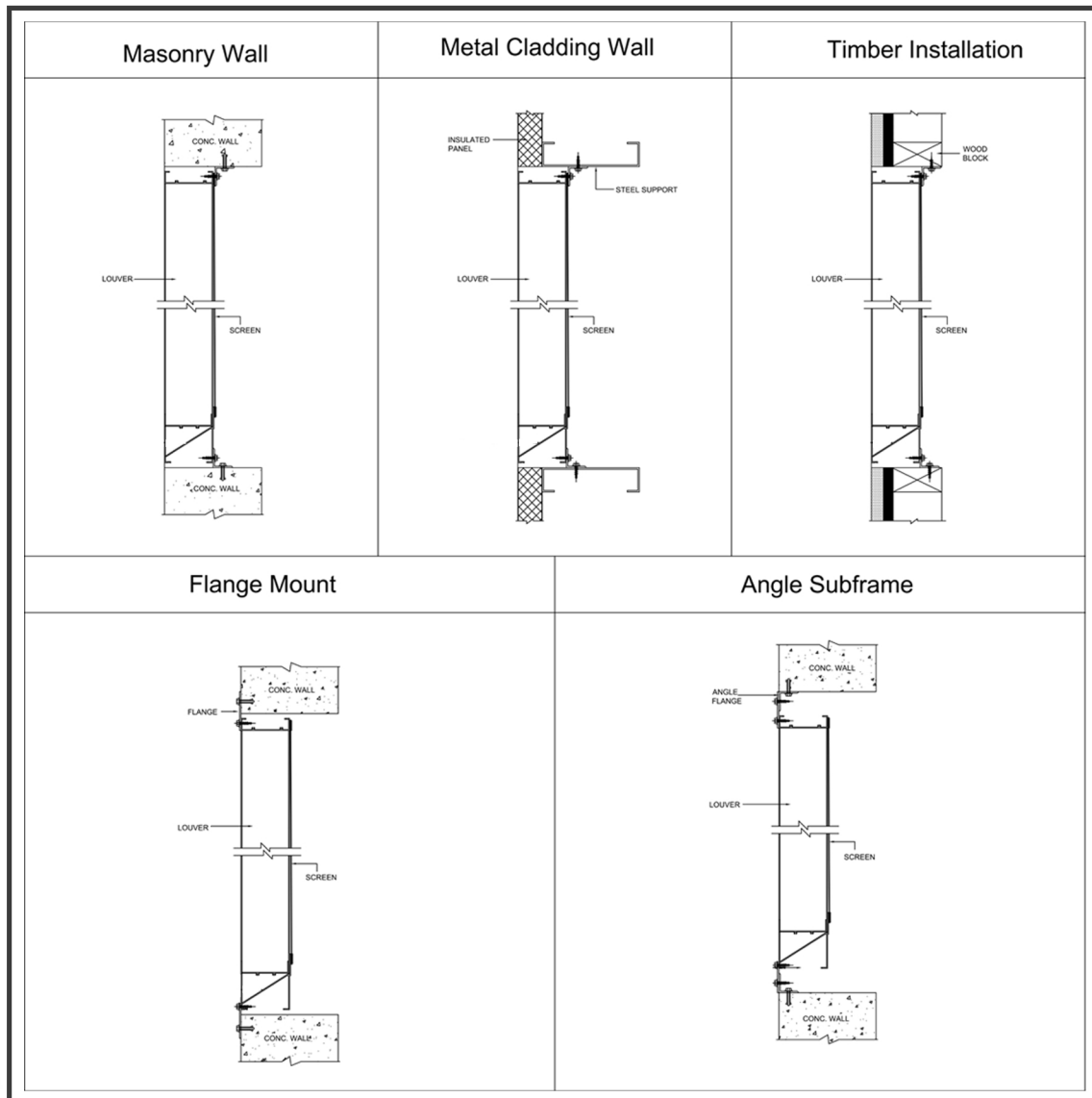
The beginning of water penetration defined as the velocity where the water penetration curves projects through .01 oz. of water (penetration) per ft² of lower free area. *The beginning of water penetration per AMCA Publication 511 based on AMCA measured free area for model VWL-150 is 724.5 fpm.



Certified Ratings:

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TYPICAL INSTALLATION DETAILS



FINISHES

POWDER COATING: Louver shall be cleaned, re-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. "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"