

**GENERAL**

Designed to provide ventilation inside the building and at the same time to prevent the ingress of dust and sand particles. Used where there is high degree of separation of sand and large dust concentrations is required. Vertically installed into the wall opening of the building.

**CONSTRUCTION**

Manufactured from Alloy 6063T5/T6 mechanically jointed.  
 Frame . . . . .2.0mm (T) Aluminium Extrusions.  
 Blade . . . . .2.0mm (T) Aluminium Extrusions.  
 Bird screen. . . . . Aluminium expanded mesh  
 Depth . . . . .102mm (4")  
 Free Area (%) . . . . .27.00%  
 Min. Size . . . . .305mm x 305mm (12"x12")  
 Max. Size . . . . .2438mmx2438mm (96"x96")  
 Larger Sizes in multiple section  
 Finish . . . . . Mill Finish, Powder coated, Epoxy coated, PVDF and Natural Anodizing. Special coating is available upon request.  
 Louver Clearance . . . . . 1/4 inch

**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..  
 Sleeved flange for Ductwok system.



**RATINGS:**



Test Method per ANSI/AMCA Standard 500L  
 Free Area: [47" x 47" (1200x1202mm)] – 4.32 ft<sup>2</sup>  
 Free Area Velocity: 1.09 m/s (214.56 fpm)  
 Air Volume delivered: 0.41 m<sup>3</sup>/s (868.7) cfm  
 Pressure loss: 8.33 Pascal

**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" (102) 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 VSL – 02 constructions as follows:

- Frame: 2.0mm (T) Extruded Alloy 6063T6
- Blades: 2.0mm (T) Extruded Alloy 6063T6
- Screen: (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	 <p>Ventline Airconditioning Requisites Manufacturing LLC certifies that the model VSL-02 shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program."</p>	 <p>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</p>

All tests performed at an independent laboratory and based on AMCA publication 511-10

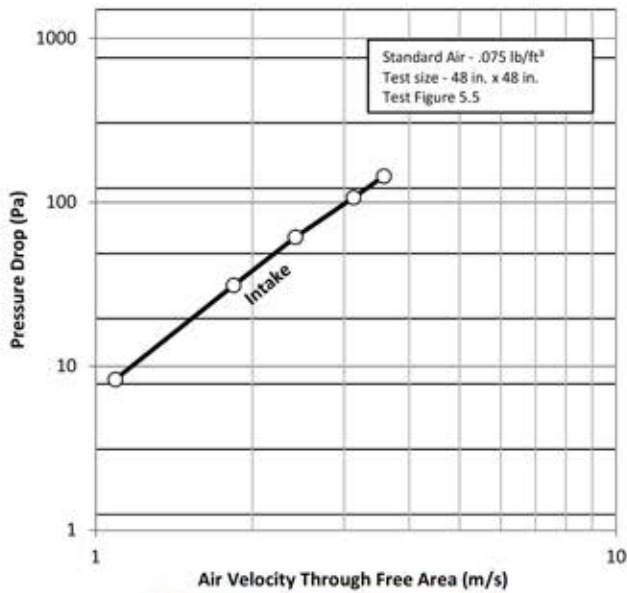
### FREE AREA CALCULATIONS in SQ. Mtr.

M <sup>2</sup>	Height (mm)															
	304.8	457	610	762	914	1067	1219	1372	1524	1676	1829	1981	2134	2286	2438	
Width (mm)	305	0.008	0.016	0.023	0.031	0.039	0.046	0.054	0.061	0.069	0.077	0.084	0.092	0.100	0.107	0.115
	457	0.016	0.031	0.047	0.062	0.077	0.092	0.108	0.123	0.138	0.153	0.169	0.184	0.199	0.214	0.230
	610	0.024	0.047	0.070	0.093	0.116	0.139	0.161	0.184	0.207	0.230	0.253	0.276	0.299	0.321	0.344
	762	0.032	0.063	0.093	0.124	0.154	0.185	0.215	0.246	0.276	0.307	0.337	0.368	0.398	0.429	0.459
	914	0.040	0.079	0.117	0.155	0.193	0.231	0.269	0.307	0.345	0.383	0.422	0.460	0.498	0.536	0.574
	1067	0.049	0.094	0.140	0.186	0.231	0.277	0.323	0.369	0.414	0.460	0.506	0.551	0.597	0.643	0.689
	1219	0.057	0.110	0.163	0.217	0.270	0.323	0.377	0.430	0.483	0.537	0.590	0.643	0.697	0.750	0.803
	1372	0.065	0.126	0.187	0.248	0.308	0.370	0.430	0.492	0.552	0.613	0.674	0.735	0.796	0.857	0.918
	1524	0.073	0.141	0.210	0.279	0.347	0.416	0.484	0.553	0.621	0.690	0.759	0.827	0.896	0.964	1.033
	1676	0.081	0.157	0.234	0.310	0.386	0.462	0.538	0.615	0.691	0.767	0.843	0.919	0.996	1.072	1.148
	1829	0.089	0.173	0.257	0.340	0.424	0.508	0.592	0.676	0.760	0.843	0.927	1.011	1.095	1.179	1.262
	1981	0.097	0.188	0.280	0.371	0.463	0.554	0.646	0.737	0.829	0.920	1.012	1.103	1.195	1.286	1.377
	2134	0.105	0.204	0.304	0.402	0.501	0.601	0.699	0.799	0.898	0.996	1.096	1.195	1.294	1.393	1.492
	2286	0.113	0.220	0.327	0.433	0.540	0.647	0.753	0.860	0.967	1.073	1.180	1.287	1.394	1.500	1.607
	2438	0.121	0.236	0.350	0.464	0.578	0.693	0.807	0.922	1.036	1.150	1.265	1.379	1.493	1.607	1.721

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

Test size 48 in. x 48 in.

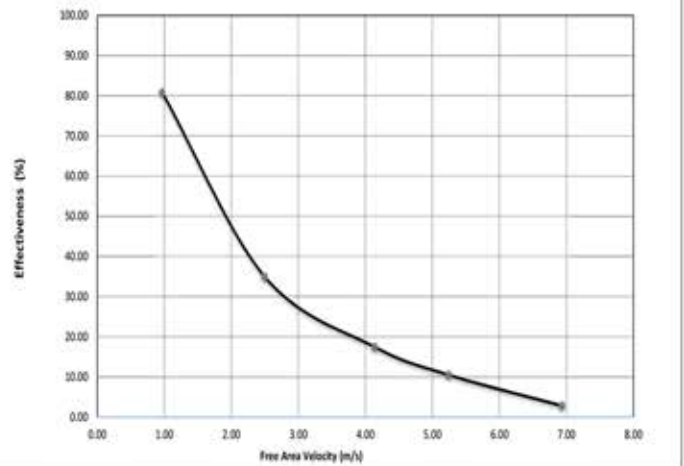
Tested in accordance with ANSI/AMCA 500-L



### Sand Removal Efficiency

Test size 48 in. x 48 in.

Tested in accordance with ANSI/AMCA 500-L



Free Area Velocity	M/s	1	2.5	4	5.5	7
Mass of Sand	Kg	1	1	2	2	2
Discharge Duration	s	200	75	100	70	60
Rate of Injected Sand	kg/s	0.005	0.013	0.020	0.029	0.033
Effectiveness	%	80.9	34.9	17.5	10.5	2.8

**Table 3**  
Penetration Class for Wind Driven Sand Test

Class	Effectiveness
A	100% to 90%
B	89.9% to 80%
C	79.9% to 70%
D	Below 70%

Note: These classifications apply at various free area velocities.

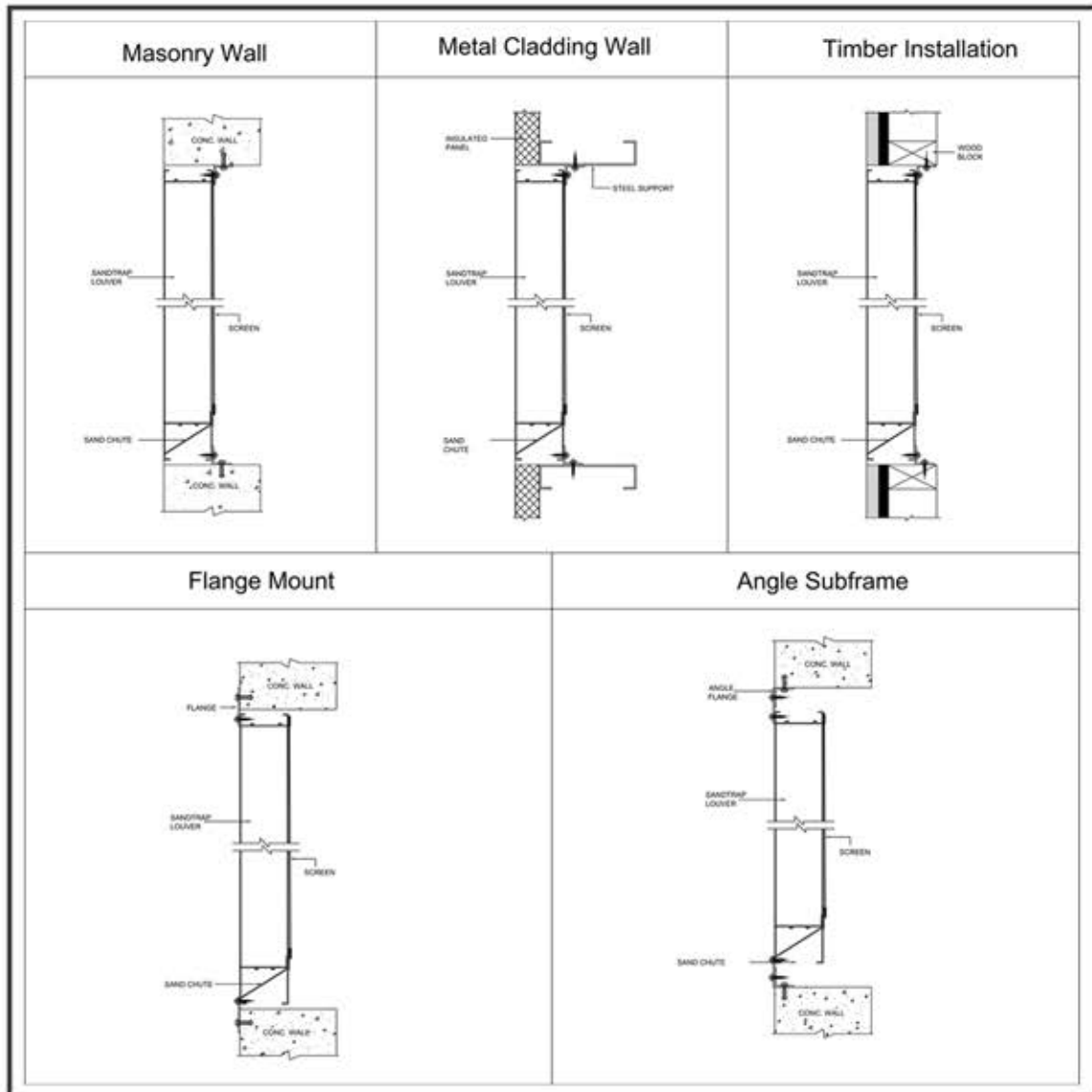


Certified Ratings:

Ventline Airconditioning Requisites Manufacturing LLC certifies that the model VSL - 02 shown herein is (or are) licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program."



## 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"