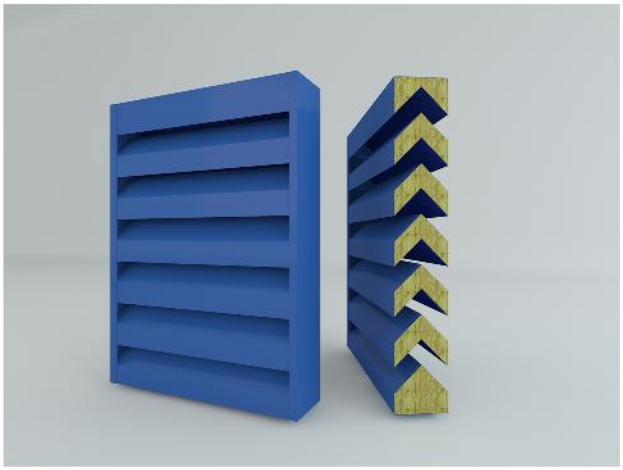
STATIONARY LOUVER

ACOUSTIC LOUVER (13") MODEL: ACL - F13

GENERAL

Designed to provide dual function of weather protection and airborne sound reduction applicable for industrial and commercial purpose. The sound ratings are based on sound transmission standards ASTM E90-04 and ASTM E413-04.



CONSTRUCTION

Manufactured from extruded aluminium - Alloy 6063T5/T6 mechanically jointed.

Frame . . . . . 3.0mm(T)
Chevron Blade . . . . . .2.5mm(T)
Bird screen. . . . . Aluminium expanded mesh
Depth . . . . . .330mm (13")
Free Area (%) . . . . . .26.0% to 31.0%
Min. Size . . . . . 450x450 (mm)
Max. Size . . . . . 2400x1200(mm)
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

RATINGS:

In accordance with ANSI/AMCA Standard 500L-12
Free Area: [48" x 48" (1219x1219mm)] – 4.17 ft²
Air Performance: Coefficient of Discharge
- Class 4

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.

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 13" (330mm) 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.

Louvers shall be Ventline Model ACL-F13 construc-tions as follows:
Frame: 3mm(T) Alum. Extrusion Alloy 6063T6
Blades: 2.5mm(T) Alum. Extrusion 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	

Ventline certifies that the model ACL-F13 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. The AMCA Certified Ratings Seal applies to water penetration and air performance ratings only.

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

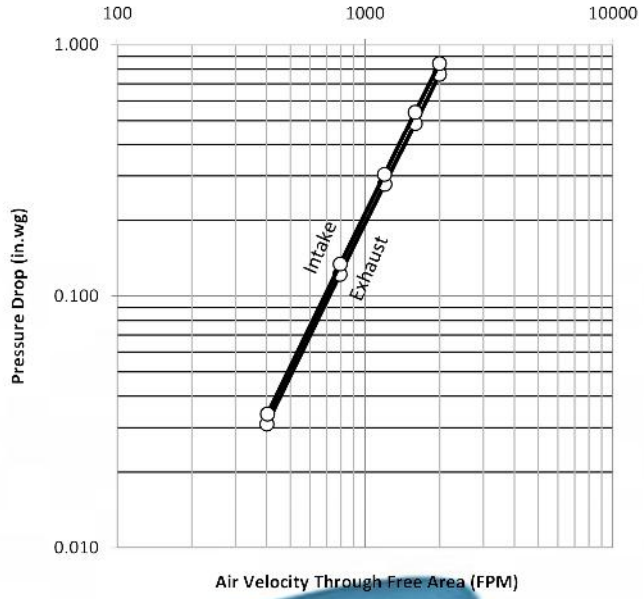
Ventline
Ventilation and Acoustic Solutions

ACL-F13 PERFORMANCE SPECIFICATION DATA

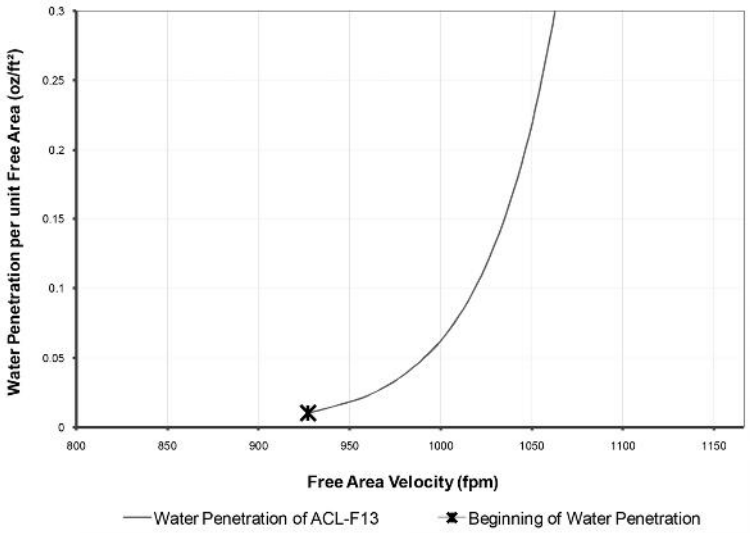
All tests performed at an independent laboratory and based on AMCA standard 511-91

Free Area Table			HEIGHT - FT²																		
	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	915	1067	1219	1372	1524	1677	1829	1981	2134	2286	2439	2591	2743	2896	3048
WIDTH - FT²	12	305	0.22	0.33	0.45	0.56	0.67	0.78	0.89	1.00	1.11	1.22	1.34	1.45	1.56	1.67	1.78	1.89	2.00	2.11	2.23
	18	457	0.40	0.60	0.80	1.01	1.21	1.41	1.61	1.81	2.01	2.21	2.41	2.62	2.82	3.02	3.22	3.42	3.62	3.82	4.02
	24	610	0.49	0.74	0.99	1.24	1.48	1.73	1.98	2.23	2.47	2.72	2.97	3.21	3.46	3.71	3.96	4.20	4.45	4.70	4.94
	30	762	0.67	1.01	1.34	1.68	2.01	2.35	2.68	3.02	3.35	3.69	4.02	4.36	4.69	5.03	5.36	5.70	6.04	6.37	6.71
	36	915	0.77	1.15	1.54	1.92	2.31	2.69	3.08	3.46	3.84	4.23	4.61	5.00	5.38	5.77	6.15	6.53	6.92	7.30	7.69
	42	1067	0.94	1.41	1.88	2.35	2.82	3.29	3.76	4.23	4.69	5.16	5.63	6.10	6.57	7.04	7.51	7.98	8.45	8.92	9.39
	48	1219	1.04	1.56	2.09	2.61	3.13	3.65	4.17	4.69	5.21	5.73	6.26	6.78	7.30	7.82	8.34	8.86	9.38	9.90	10.42
	54	1372	1.21	1.81	2.41	3.02	3.62	4.23	4.83	5.43	6.04	6.64	7.24	7.85	8.45	9.05	9.66	10.26	10.86	11.47	12.07
	60	1524	1.32	1.98	2.64	3.30	3.96	4.62	5.28	5.94	6.60	7.26	7.92	8.58	9.24	9.90	10.56	11.22	11.88	12.54	13.20
	66	1677	1.48	2.21	2.95	3.69	4.43	5.16	5.90	6.64	7.38	8.11	8.85	9.59	10.33	11.07	11.80	12.54	13.28	14.02	14.75
	72	1829	1.61	2.41	3.21	4.02	4.82	5.62	6.42	7.23	8.03	8.83	9.64	10.44	11.24	12.04	12.85	13.65	14.45	15.26	16.06
	78	1981	1.74	2.62	3.49	4.36	5.23	6.10	6.97	7.85	8.72	9.59	10.46	11.33	12.21	13.08	13.95	14.82	15.69	16.56	17.44
	84	2134	1.88	2.82	3.76	4.70	5.64	6.58	7.52	8.46	9.40	10.33	11.27	12.21	13.15	14.09	15.03	15.97	16.91	17.85	18.79
	90	2286	2.01	3.02	4.02	5.03	6.04	7.04	8.05	9.05	10.06	11.07	12.07	13.08	14.08	15.09	16.09	17.10	18.11	19.11	20.12
	96	2439	2.16	3.24	4.32	5.40	6.48	7.55	8.63	9.71	10.79	11.87	12.95	14.03	15.11	16.19	17.27	18.34	19.42	20.50	21.58
	102	2591	2.28	3.42	4.56	5.70	6.84	7.98	9.12	10.26	11.40	12.54	13.68	14.82	15.96	17.10	18.24	19.38	20.52	21.66	22.80
	108	2743	2.44	3.67	4.89	6.11	7.33	8.55	9.77	10.99	12.21	13.44	14.66	15.88	17.10	18.32	19.54	20.76	21.99	23.21	24.43
	114	2896	2.55	3.82	5.10	6.37	7.65	8.92	10.19	11.47	12.74	14.02	15.29	16.56	17.84	19.11	20.39	21.66	22.93	24.21	25.48
	120	3048	2.72	4.09	5.45	6.81	8.17	9.53	10.89	12.26	13.62	14.98	16.34	17.70	19.06	20.42	21.79	23.15	24.51	25.87	27.23

Air Performance (Standard Air .075 lb/ft³)
Test size 48 in. x 48 in.
In accordance with ANSI/AMCA 500-L



Water Penetration of ACL-F13



Beginning of Water penetration per AMCA 511 Section 8.3.2 based on AMCA measured free area: 928.1 fpm

Free Field Noise Reduction in Decibels (NOT BY AMCA)

Free Field Noise Reduction is determined by adding 6 dB to the Transmission Loss

	Full Octave Band Transmission Loss						STC
Frequency (Hz)	125	250	500	1000	2000	4000	
Transmission Loss (dB)	11	16	19	27	23	26	20
Free Field Noise Reduction (dB)	17	22	25	33	29	32	

Sound Transmission Class

The Sound Transmission Class (STC) is a rating of the effectiveness of an assembly in isolating or reducing airborne sound transmission. STC is a single number that summarizes airborne sound transmission loss data. Assemblies with higher STC ratings are more efficient at reducing sound transmission. STC is determined in accordance with ASTM E413-04.
Tested by Third Party independent testing Laboratory

Transmission Loss

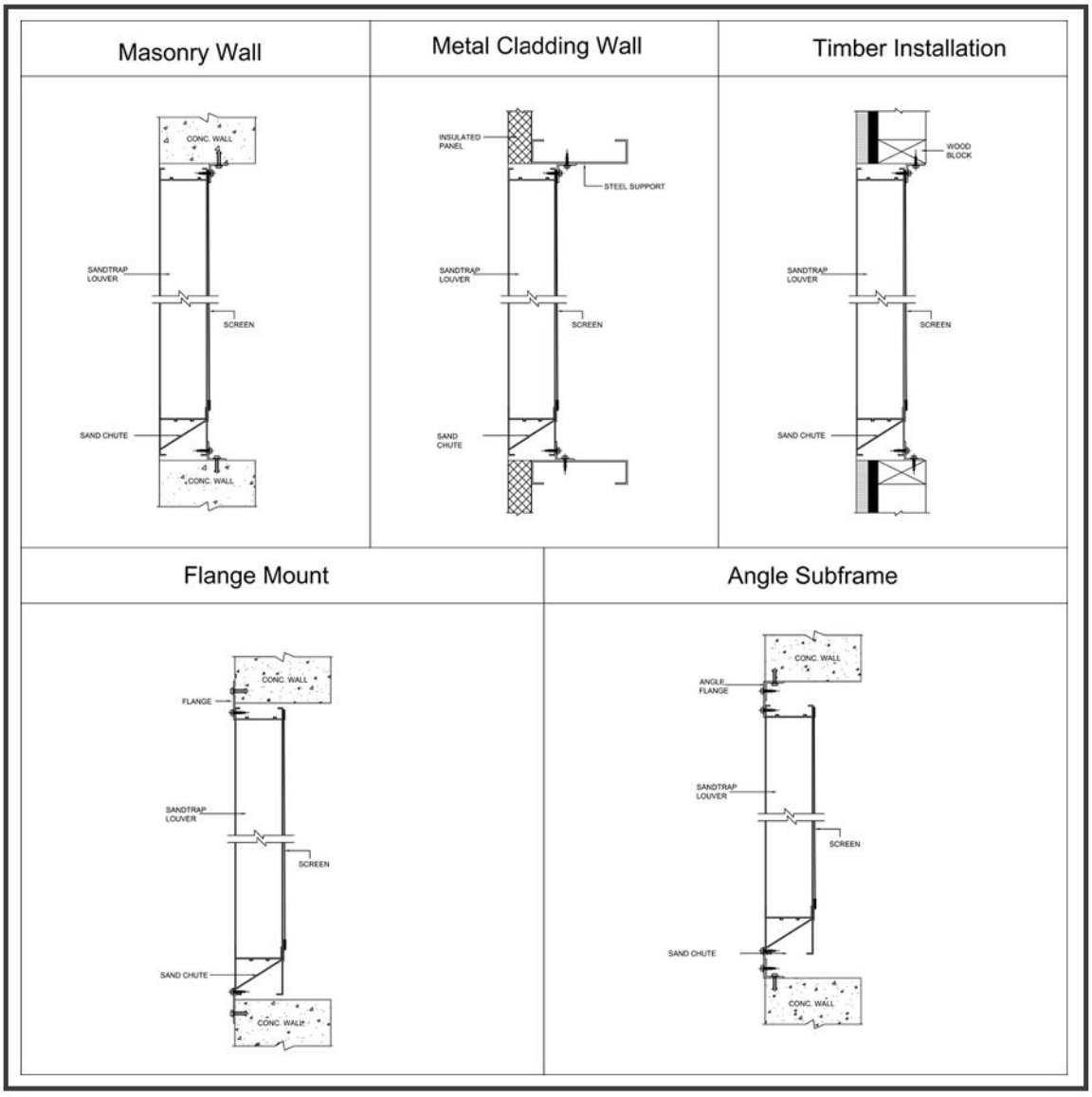
Transmission Loss (TL) is measurement of the reduction of sound power transmission (dB) through an assembly at a given frequency. The more power that is reduced, the greater the TL. TL is tested in accordance with ASTM E90-04

Ventline certifies that the model ACL-F13 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. The AMCA Certified Ratings Seal applies to water penetration and air performance ratings only.

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

Ventilation and Acoustic Solutions

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"

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