

Application

The **VSFL 130** offers exceptional protection against wind driven rain under the most severe conditions and is ideally suited for high wind areas or applications that are sensitive to wind-driven rain penetration. The **VSFL 130** incorporates horizontal blades and is available in a wide array of anodized and powder coated finishes including custom color matching.

Standard Construction

Material: Mill finish alloy 6063-T6 extruded aluminium.
Frame: 130 deep x 2.0 thick (mm) channel.
Blade: 45 deg. x 2.0mm thick horizontal drainable style..
Screen: 20x40x1.1 (mm) expanded and flattened aluminum

Mullion: Visible type
Fabricated Dimensions:
Minimum: 114 x 127 (mm)
Maximum: 1524 x 3048 (mm) ; 3048 x 1524 (mm)
Multiple section: Unlimited

Options

- ☐ Factory Finish
 - ☐ High Performance Fluoropolymer - 100% resin Newlar®/ 70% resin Kynar®
 - ☐ Baked Enamel
 - ☐ Clear or Color Anodized, Class 1
 - ☐ Prime Coat
- ☐ Hidden vertical mullion for continuous blade appearance.
- ☐ Flange frame:
 - ☐ 1 1/2" (38) flange
 - ☐ Custom-size flange
 - ☐ Stucco flange
 - ☐ Glazing frame
- ☐ Welded construction.
- ☐ Alternate bird or insect screens.
- ☐ Filter racks.
- ☐ Hinge frame
- ☐ Head and/or cill flashing.
- ☐ Installation hardware:
 - ☐ Clip angles
 - ☐ Continuous angles
- ☐ Bulgars bars:
 - ☐ Shipped loose
 - ☐ Shipped mounted
- ☐ Frame closure.

Ratings

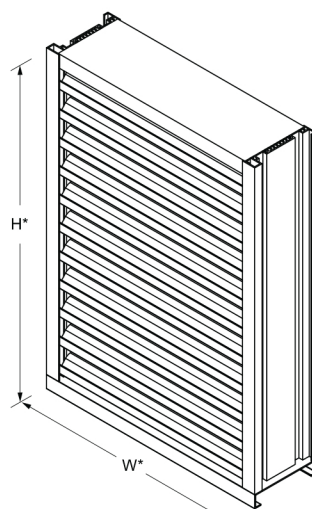
Free Area: [48" x 48" (1219 x 1219) unit]:
8.38 ft² (0.78 m²) 52.37 %

Performance @ Beginning Point of Water Penetration

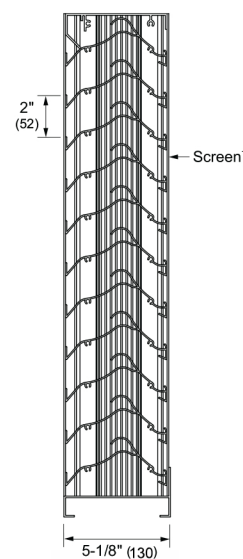
Free Area Velocity: Above 1070.5 fpm (5.44 m/s)
Air Volume Delivered: Above 8604 cfm (4.06 m³/s)
Pressure Loss: 0.22 in. wg. (55.5 Pascal)

Velocity @ 0.15 in. wg. Pressure Loss: 888 fpm (4.51 m/s)

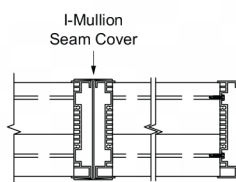
Std. Design Load: 30 psf



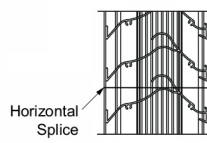
Model **VSFL 130**
Louver dimension furnished
1/2" (12.5mm) overall clearance



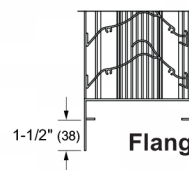
Section



Visible Vertical Mullion
(standard)



Horizontal Mullion
(standard)



Flange Frame
(optional)



Certified Ratings:

Ventline certifies that the model VSFL-130 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, water penetration and wind driven rain ratings.

Free Area (Ft²)

		WIDTH - 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	914	1067	1219	1372	1524	1676	1828	1981	2134	2286	2438	2591	2743	2898	3048
HEIGHT - FT²																				
	12	305	0.33	0.50	0.67	0.83	1.00	1.16	1.33	1.50	1.66	1.83	1.99	2.16	2.33	2.49	2.66	2.83	2.99	3.16
	18	457	0.63	0.94	1.25	1.56	1.88	2.19	2.50	2.82	3.13	3.44	3.75	4.07	4.38	4.69	5.01	5.32	5.63	5.95
	24	610	0.92	1.38	1.84	2.30	2.76	3.22	3.68	4.14	4.60	5.05	5.51	5.97	6.43	6.89	7.35	7.81	8.27	8.74
	30	762	1.21	1.82	2.43	3.03	3.64	4.24	4.85	5.46	6.06	6.67	7.27	7.88	8.49	9.09	9.70	10.31	10.91	11.53
	36	914	1.51	2.26	3.01	3.76	4.52	5.27	6.02	6.78	7.53	8.28	9.03	9.79	10.54	11.29	12.04	12.80	13.55	14.32
	42	1067	1.80	2.70	3.60	4.50	5.39	6.30	7.19	8.10	9.00	9.89	10.79	11.69	12.60	13.49	14.39	15.29	16.19	17.10
	48	1219	2.09	3.14	4.19	5.23	6.27	7.32	8.37	9.42	10.46	11.51	12.55	13.60	14.65	15.69	16.74	17.79	18.83	19.89
	54	1372	2.39	3.58	4.77	5.96	7.15	8.35	9.54	10.74	11.93	13.12	14.31	15.51	16.70	17.89	19.08	20.28	21.47	22.68
	60	1524	2.68	4.02	5.36	6.70	8.03	9.38	10.71	12.06	13.39	14.73	16.07	17.41	18.76	20.09	21.43	22.77	24.11	25.47
	66	1676	2.97	4.46	5.95	7.43	8.91	10.40	11.89	13.38	14.86	16.34	17.83	19.32	20.81	22.29	23.77	25.27	26.75	28.26
	72	1828	3.27	4.90	6.54	8.16	9.79	11.43	13.06	14.70	16.33	17.96	19.58	21.22	22.86	24.49	26.12	27.76	29.39	31.05
	78	1981	3.56	5.34	7.12	8.90	10.67	12.46	14.23	16.02	17.79	19.57	21.34	23.13	24.92	26.69	28.47	30.25	32.03	33.84
	84	2134	3.85	5.78	7.71	9.63	11.55	13.49	15.41	17.34	19.26	21.18	23.10	25.04	26.97	28.89	30.81	32.75	34.67	36.63
	90	2286	4.15	6.22	8.30	10.36	12.43	14.51	16.58	18.66	20.73	22.80	24.86	26.94	29.02	31.09	33.16	35.24	37.31	39.42
	96	2348	4.44	6.66	8.88	11.10	13.31	15.54	17.75	19.98	22.19	24.41	26.62	28.85	31.08	33.29	35.51	37.73	39.95	42.20
102	2591	4.74	7.10	9.47	11.83	14.19	16.57	18.93	21.30	23.66	26.02	28.38	30.76	33.13	35.49	37.85	40.23	42.59	44.99	
108	2743	5.03	7.53	10.06	12.56	15.07	17.59	20.10	22.62	25.13	27.63	30.14	32.66	35.19	37.69	40.20	42.72	45.23	47.78	
114	2898	5.32	7.97	10.64	13.30	15.95	18.62	21.27	23.94	26.59	29.25	31.90	34.57	37.24	39.89	42.54	45.21	47.87	50.57	
120	3048	5.62	8.41	11.23	14.03	16.83	19.65	22.44	25.26	28.06	30.86	33.66	36.48	39.29	42.09	44.89	47.71	50.51	53.36	

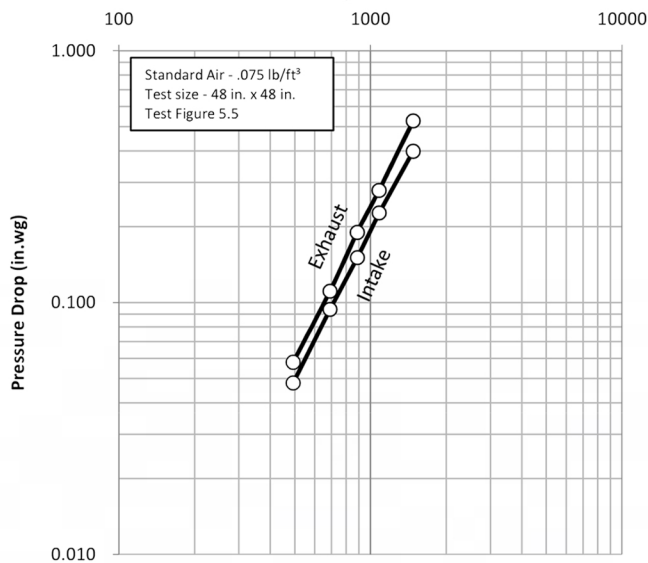


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Air Performance (Standard Air .075 lb/ft³)

Test size 48 in. x 48 in.

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



Water Penetration of VSFL-130

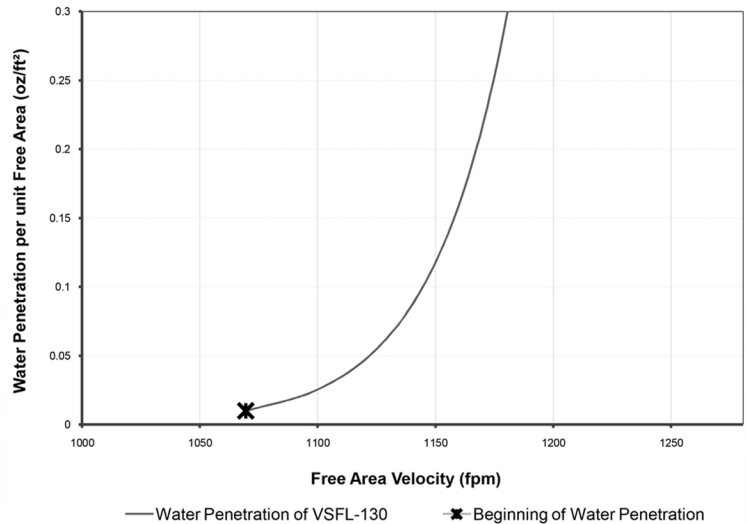


Table 1

Discharge Loss Coefficient Class

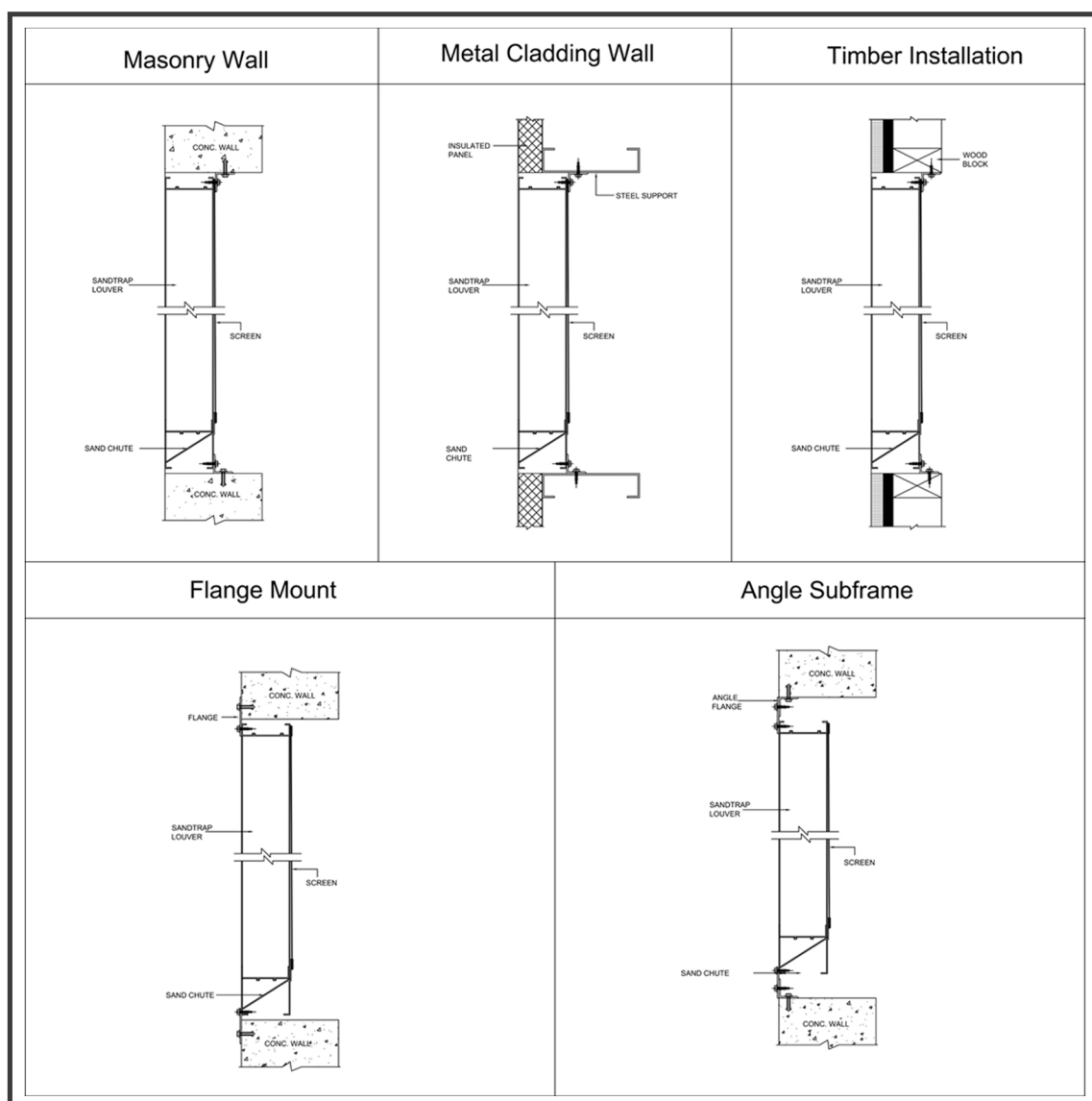
Class	Discharge Loss Coefficient
1	0.4 and above
2	0.3 to 0.399
3	0.2 to 0.299
4	0.199 and below
Exhaust	3
Intake	2

WIND DRIVEN RAIN PERFORMANCE

The Louver test was based on a 48" (1219 mm) x 48" (1219 mm) core area unit tested at a rainfall rate of 3" per hour (75 mm/hr) and with a wind directed to the face of the louver at a velocity of 29 mph (13 m/s) as well as a rainfall rate of 8" per hour (203 mm/hr) and a wind of 50 mph (23.3 m/s). The test data shall show the water penetration effectiveness rating to each corresponding ventilation rate.

Ventilation Airflow (cfm)	0	0	2879	4199	5684	7170	8379	9914	11314	12752	14109
Core Ventilation Rate (m/sec)	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
Core Ventilation Rate (ft per min) @ 29 & 3	0	99	197	296	396	497	588	688	788	892	984
Free Area Velocity (ft per min) @ 29 & 3	0	207	411	617	825	1036	1225	1434	1642	1859	2050
Rating Effectiveness @ 29 & 3	A	A	A	A	A	B	B	C	C	C	C
Effectiveness Ratio @ 29 & 3 (%)			99.4	99.3	99.0	97.6	96.4	94.1	91.6	88.5	85.9
Ventilation Airflow (cfm)	0	1374	2745	4086	5555	6961	8259	9679	10946	12472	13744
Core Ventilation Rate (ft per min) @ 50 & 8	0	99	197	291	399	498	590	692	781	890	983
Free Area Velocity (ft per min) @ 50 & 8	0	207	411	607	832	1038	1230	1442	1628	1855	2048
Rating Effectiveness @ 50 & 8	B	B	B	B	B	B	C	C	C	C	C
Effectiveness Ratio @ 50 & 8 (%)	98.1	97.5	96.7	96.4	95.8	95.1	94.1	92.7	90.5	86	86.2
Effectiveness Rating:	A = 1.0 to 0.99		B = 0.989 to 0.95		C = 0.949 to 0.800		D = 0.799 to 0				

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"