MODEL VSL-180 7" VERTICAL BLADE SAND/RAIN FIXED LOUVER

STANDARD CONSTRUCTION:

FRAME: 0.081 [2.06mm] extruded aluminum sides 7" deep
0.090 [2.29mm] formed aluminum top and bottom
(bottom incorporates 30° angle for maximum drainage)

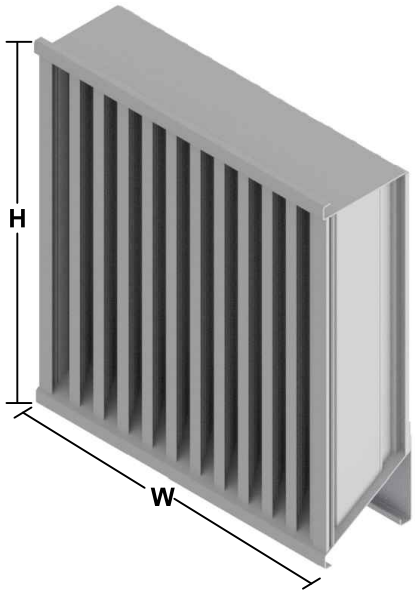
BLADES: 0.081 [2.06mm] extruded aluminum placed on 2.00" centers

BIRDSCREEN: 0.50" x 0.050" [12.70mm x 1.27mm] Flattended Aluminum in removeable frame. Screen is mounted as standard on inside (rear) as looking from exterior of building.

FINISH: Mill Aluminum (Std)

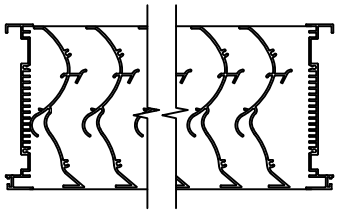
MINIMUM SIZE: 12"w x 18"h [305mm x 457mm]

MAXIMUM SECTION SIZE: 60"w x96"h [1524mm x 2438mm]

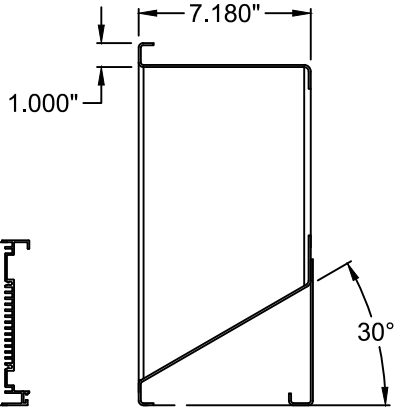


OPTIONS:

- ☐ Flanged Frame (1.5" std.) [38mm]
- ☐ Custom Flange (1", 2" , or 3") [25mm, 51mm, or 76mm]
- ☐ Extended Sill
- ☐ Insect Screen (Other Screens Available, See Screen Page)
- ☐ Filter Racks (no screen)
- ☐ Security Bars
- ☐ Hinged Sub Frame
- ☐ Welded Construction (Wind Load +/- 50 psf)
- ☐ Blank-off, Alum., non-insulated, no screen, non-removeable
- ☐ Blank-off, Alum., non-insulated, with bird screen or insect screen
- ☐ Blank-off, Alum., insulated double wall, with bird screen, removable
- ☐ Blank-off, Alum., insulated double wall, no screen, non-removable



PLAN VIEW



SIDE VIEW

AVAILABLE FINISHES:

- ☐ Durable Polyester (AAMA 2604)
- ☐ 70% PVDF Fluoropolymer (AAMA 2605)
- ☐ Yellow Primer
- ☐ Clear Anodize
- ☐ Dark Bronze Anodize

*Width and Height dimensions are approximately 1/4" [6.35mm] under listed size.

Due to continuing research, United Enertech reserves the right to change specifications without notice.

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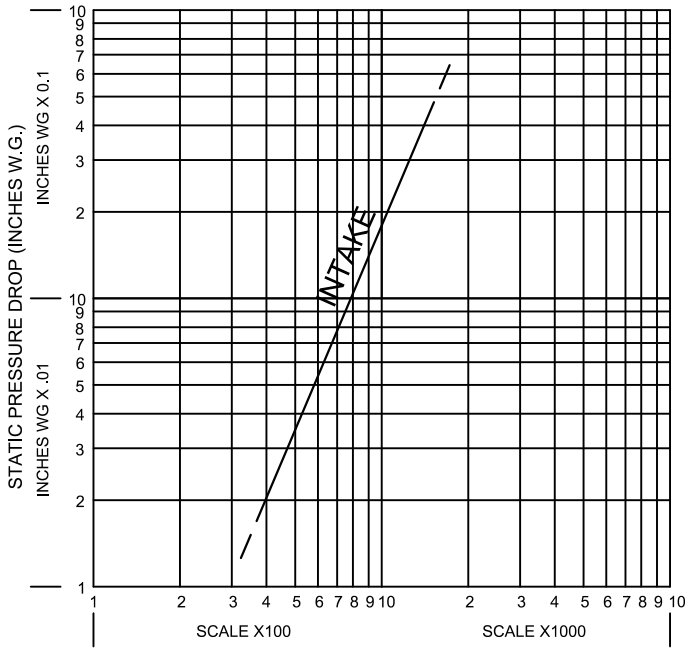
MODEL VSL-180, 7" Deep Vertical Sand Louver

DRAWN BY:	DATE:	REV. DATE:	REV. NO.	APPROVED BY:	DWG. NO.:
CLJ	April 2023				A-17

VSL-180 Performance Data

AIR FLOW RESISTANCE



Based on STANDARD AIR- .075 lb. per cubic foot.
Ratings do not include the effects of screen.
Test size 48" x 48"
Test Figure 5.5

Louver Height Inches	VSL-180 FREE AREA Width - Inches									Louver Height Inches
	12	18	24	30	36	42	48	54	60	
18	0.39	0.62	0.86	1.10	1.34	1.58	1.82	2.05	2.29	18
24	0.51	0.82	1.13	1.45	1.76	2.07	2.39	2.70	3.01	24
30	0.69	1.12	1.54	1.97	2.39	2.82	3.24	3.67	4.09	30
36	0.87	1.41	1.95	2.49	3.02	3.56	4.10	4.64	5.18	36
42	1.06	1.71	2.36	3.01	3.66	4.31	4.96	5.61	6.26	42
48	1.18	1.90	2.63	3.35	4.08	4.80	**5.53**	6.25	6.98	48
54	1.42	2.30	3.17	4.05	4.92	5.80	6.67	7.55	8.42	54
60	1.54	2.49	3.44	4.39	5.34	6.29	7.24	8.19	9.14	60
66	1.73	2.79	3.85	4.91	5.97	7.04	8.10	9.16	10.22	66
72	1.98	3.20	4.42	5.65	6.87	8.09	9.31	10.53	11.75	72
78	2.17	3.50	4.83	6.16	7.50	8.83	10.16	11.50	12.83	78
84	2.35	3.79	5.24	6.68	8.13	9.58	11.02	12.47	13.91	84
90	2.53	4.09	5.65	7.20	8.76	10.32	11.88	13.44	14.99	90
96	2.65	4.29	5.92	7.55	9.18	10.82	12.45	14.08	15.71	96

VSL-180 Specifications

Furnish and install louver as hereinafter specified where shown on plans or as described in schedules. Louver shall be stationary type with vertical sand resistant style blades positioned on approximately 2" centers within 7" deep frame. Louver jambs and blade material to be .081" 6063-T5 extruded aluminum. Head and Sill to be .090" 3000 series formed sheet aluminum. Louver shall have a design wind load of +/- 30 psf. Louver shall have a minimum free area of 5.53 sq. ft. based on the standard 48"w x 48"h test specimen. Louver shall have a maximum static pressure drop of 0.19" (intake) water gage based on 1000 FPM free area intake velocity. Louver shall carry a class B wind driven sand classifications based on a ventilation air core velocity of 207 fpm, and class D rating up to 1425 fpm.

United Enertech Corporation certifies that the VSL-180 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. The AMCA Certified Rating Seal applies to air performance ratings and wind driven sand ratings.

WIND DRIVEN SAND PERFORMANCE

	Airflow rate		Free Area Velocity		Total Mass Injected		Total Mass Rejected		Louver Effectiveness	Class
Test No.	cubic meter/s	cfm	m/s	fpm	mass g	Lbm	mass g	Lbm		
1	0.54	1144	1.05	207	999.7	2.20	801.6	1.77	80.18%	B
2	1.33	2818	2.6	512	999.5	2.20	565.2	1.25	56.55%	D
3	2.09	4428	4.06	799	1998.9	4.41	842.4	1.86	42.14%	D
4	2.77	5869	5.38	1059	2000.2	4.41	731.5	1.61	36.57%	D
5	3.72	7882	7.24	1425	1999.5	4.41	543.4	1.20	27.18%	D