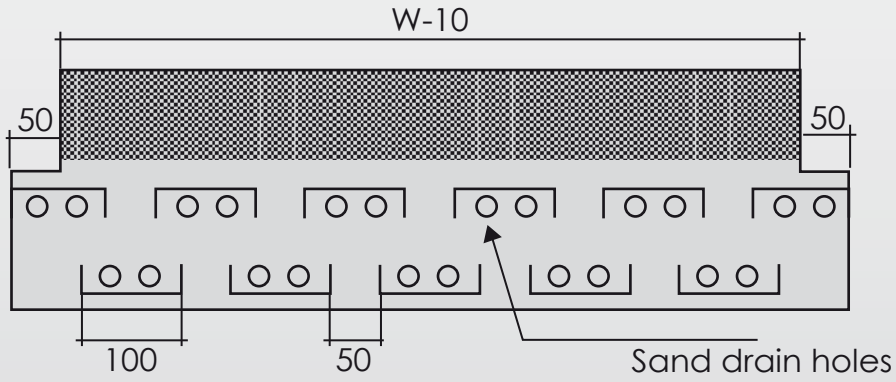
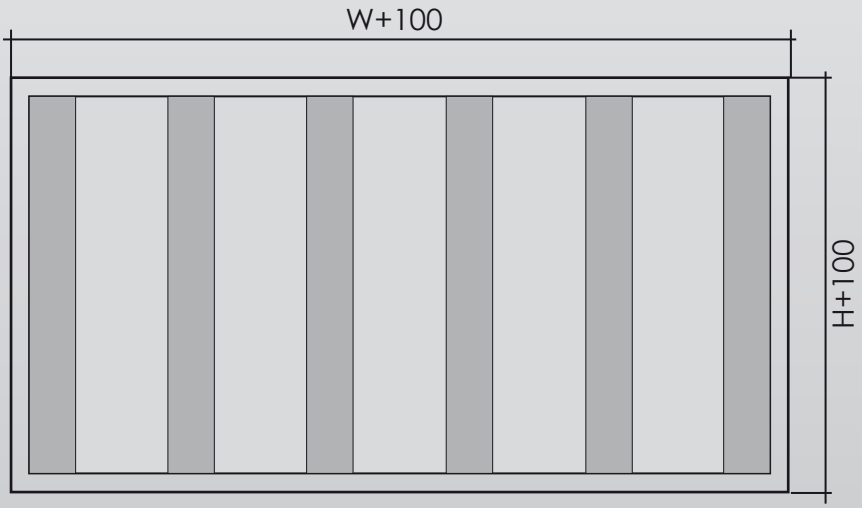
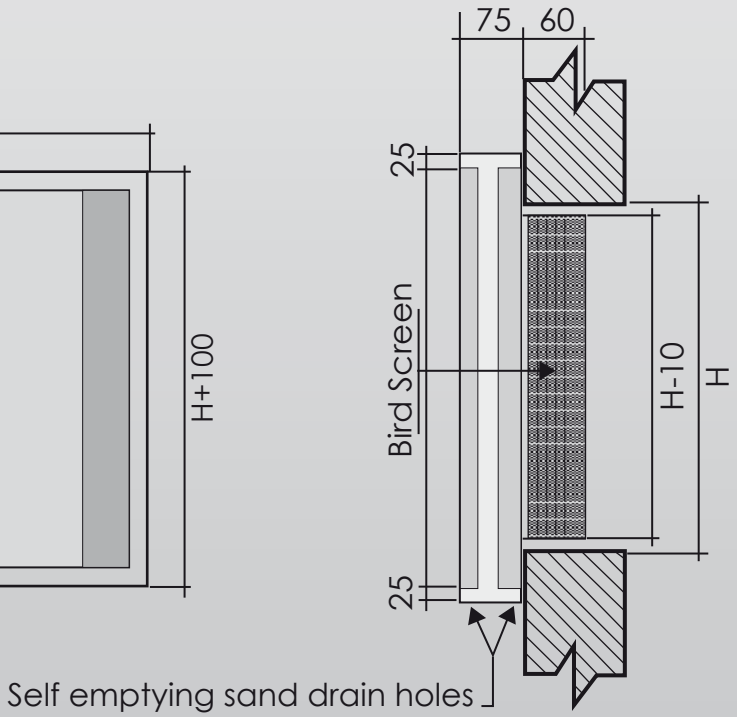
SAND TRAP LOUVERS

BLADE MODEL: SL - AV 100-A

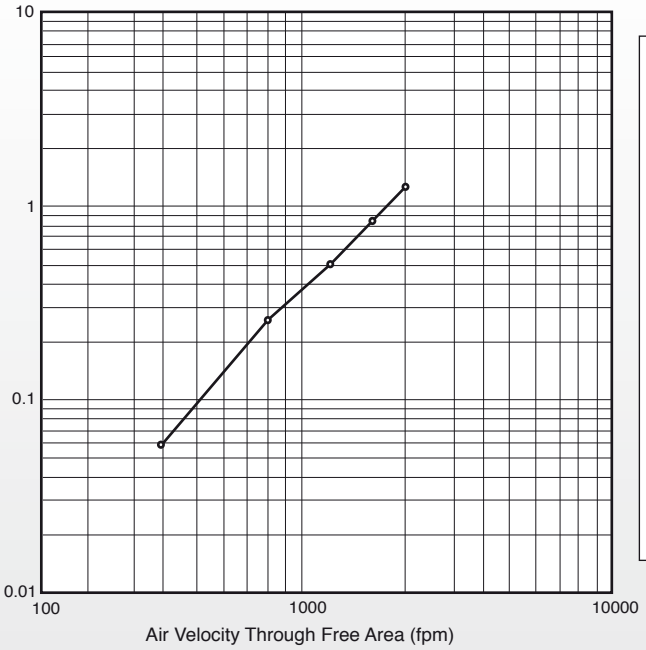
Frame	: 1.2 mm thickness Extruded Profiled Aluminium Channels.
Blade	: 1.0mm / 1.2 mm thickness Extruded/ Roll formed Aluminium Blades.(Standard)
Screen	: Bird Wire Mesh (Standard); Insect Screen (Optional).
Filter	: 12mm, 25mm and 50mm thickness Aluminium Washable/Removable Filter. (Optional).
Supports	: Aluminium / Galvanized Steel.
Mounting	: Mounting frame angle flange is available upon request.(optional).
Finish	: Natural Anodized Aluminium Finished (Standard).
Coating	: Sand Louver with Powder Coating Finish is optional.
Construction	: Aluminium Construction. (Standard).



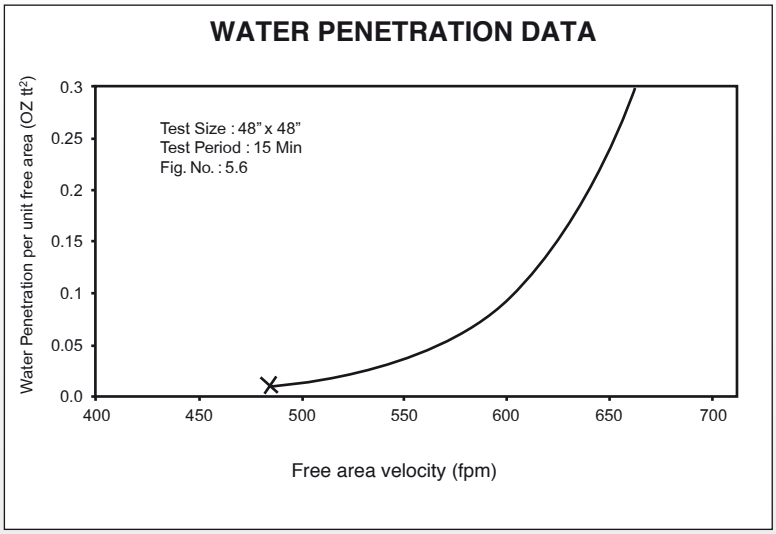




AIR PERFORMANCE DATA



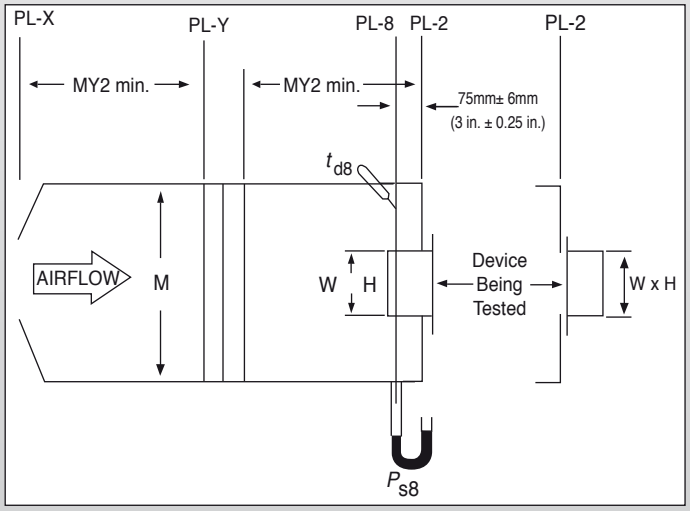
WATER PENETRATION DATA



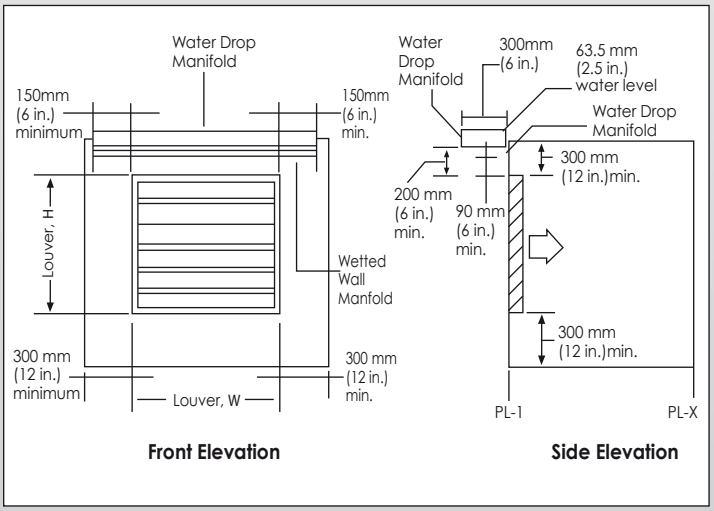
Test Results:			
Velocity		Pressure Drop	
(fpm)	(m/s)	(inch.W.G)	(Pa)
400	2.03	0.058	14.45
800	4.06	0.258	64.26
1200	6.1	0.505	125.79
1600	8.13	0.832	207.24
2000	10.16	1.254	312.36

Test Results:			
Velocity		Net Weight	
(fpm)	(m/s)	(oz./ft2)	(g/m2)
494.2	2.51	0.012	0.0316
549.7	2.79	0.035	0.0922
600.1	3.05	0.104	0.2739
657.8	3.34	0.255	0.6716

The beginning point of water penetration is 494.2



AMCA Figure 5.5 Pressure Drop Penetration



AMCA Figure 5.6 Water

Prime Air Conditioning Industries LLC. certifies that the model SL-AV-100A shown herein is licensed to bear the AMCA Seal. The rating shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified ratings Programs. The AMCA Certified Rating Seal apples to Waterpenetration and Air Performance ratings.

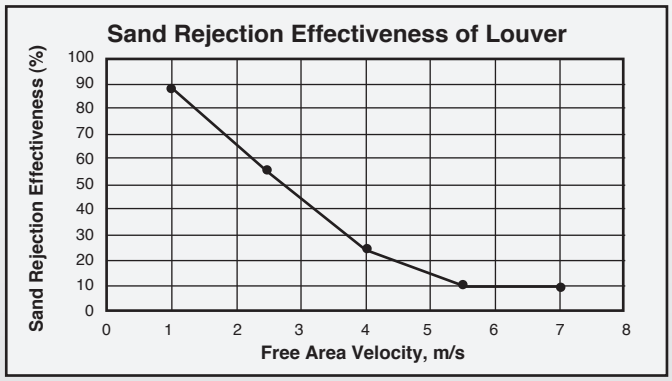
Wind Driven Sand

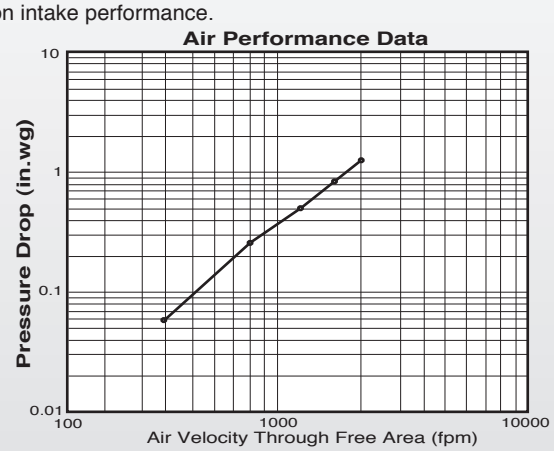
Prime Air Conditioning Industries LLC Certifies that the sand trap louver model SL-AV-100-A shown hereon is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program.

The certified ratings seal applies to wind driven sand and air performance ratings.

Test Information

Tested for wind driven sand performance in accordance with ANSI/AMCA Standard 500-L, Figure 5.12. Test sample size is 48 in. x 48 in. with a tolerance of +0, -0.25 in. Wind driven sand performance data are based on intake performance.





Performance:

Free area velocity (m/s)	1	2.5	4	5.5	7
Weight of Sand (g)	1001	1001	2000	2000	1999
Discharge duration (s)	200	75	100	70	60
Sand feed rate (g/s)	5.0	13.3	20.0	28.6	33.3
Effectiveness (%)	88	55	25	11	10
Penetration Class	B	D	D	D	D

Grading of the sand used for wind driven sand performance tests shall be as per Annex H, Table 8, of ANSI/AMCA Standard 500-L.

ENGINEERING PERFORMANCE DATA

Sand Trap Louver Free Area - SL - AV-100 -A

W x H	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400
12	0.29	0.44	0.58	0.73	0.88	1.02	1.17	1.32	1.46	1.61	1.75	1.90	2.05	2.19	2.34
300	0.03	0.04	0.05	0.07	0.08	0.10	0.11	0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.22
18	0.44	0.66	0.88	1.10	1.32	1.54	1.75	1.97	2.19	2.41	2.63	2.85	3.07	3.29	3.51
450	0.04	0.06	0.08	0.10	0.12	0.14	0.16	0.18	0.20	0.22	0.24	0.26	0.29	0.31	0.33
24	0.58	0.88	1.17	1.46	1.75	2.05	2.34	2.63	2.92	3.22	3.51	3.80	4.09	4.39	4.68
600	0.05	0.08	0.11	0.14	0.16	0.19	0.22	0.24	0.27	0.30	0.33	0.35	0.38	0.41	0.43
30	0.73	1.10	1.46	1.83	2.19	2.56	2.92	3.29	3.66	4.02	4.39	4.75	5.12	5.48	5.85
750	0.07	0.10	0.14	0.17	0.20	0.24	0.27	0.31	0.34	0.37	0.41	0.44	0.48	0.51	0.54
36	0.88	1.32	1.75	2.19	2.63	3.07	3.51	3.95	4.39	4.83	5.26	5.70	6.14	6.58	7.02
900	0.08	0.12	0.16	0.20	0.24	0.29	0.33	0.37	0.41	0.45	0.49	0.53	0.57	0.61	0.65
42	1.02	1.54	2.05	2.56	3.07	3.58	4.09	4.61	5.12	5.63	6.14	6.65	7.17	7.68	8.19
1050	0.10	0.14	0.19	0.24	0.29	0.33	0.38	0.43	0.48	0.52	0.57	0.62	0.67	0.71	0.76
48	1.17	1.75	2.34	2.92	3.51	4.09	4.68	5.26	5.85	6.43	7.02	7.60	8.19	8.77	9.36
1200	0.11	0.16	0.22	0.27	0.33	0.38	0.43	0.49	0.54	0.60	0.65	0.71	0.76	0.82	0.87
54	1.32	1.97	2.63	3.29	3.95	4.61	5.26	5.92	6.58	7.24	7.90	8.56	9.21	9.87	10.53
1350	0.12	0.18	0.24	0.31	0.37	0.43	0.49	0.55	0.61	0.67	0.73	0.79	0.86	0.92	0.98
60	1.46	2.19	2.92	3.66	4.39	5.12	5.85	6.58	7.31	8.04	8.77	9.51	10.24	10.97	11.70
1500	0.14	0.20	0.27	0.34	0.41	0.48	0.54	0.61	0.68	0.75	0.82	0.88	0.95	1.02	1.09
66	1.61	2.41	3.22	4.02	4.83	5.63	6.43	7.24	8.04	8.85	9.65	10.46	11.26	12.07	12.87
1650	0.15	0.22	0.30	0.37	0.45	0.52	0.60	0.67	0.75	0.82	0.90	0.97	1.05	1.12	1.20
72	1.75	2.63	3.51	4.39	5.26	6.14	7.02	7.90	8.77	9.65	10.53	11.41	12.28	13.16	14.04
1800	0.16	0.24	0.33	0.41	0.49	0.57	0.65	0.73	0.82	0.90	0.98	1.06	1.14	1.22	1.30
78	1.90	2.85	3.80	4.75	5.70	6.65	7.60	8.56	9.51	10.46	11.41	12.36	13.31	14.26	15.21
1950	0.18	0.26	0.35	0.44	0.53	0.62	0.71	0.79	0.88	0.97	1.06	1.15	1.24	1.32	1.41
84	2.05	3.07	4.09	5.12	6.14	7.17	8.19	9.21	10.24	11.26	12.28	13.31	14.33	15.36	16.38
2100	0.19	0.29	0.38	0.48	0.57	0.67	0.76	0.86	0.95	1.05	1.14	1.24	1.33	1.43	1.52
90	2.19	3.29	4.39	5.48	6.58	7.68	8.77	9.87	10.97	12.07	13.16	14.26	15.36	16.45	17.55
2250	0.20	0.31	0.41	0.51	0.61	0.71	0.82	0.92	1.02	1.12	1.22	1.32	1.43	1.53	1.63
96	2.34	3.51	4.68	5.85	7.02	8.19	9.36	10.53	11.70	12.87	14.04	15.21	16.38	17.55	18.72
2400	0.22	0.33	0.43	0.54	0.65	0.76	0.87	0.98	1.09	1.20	1.30	1.41	1.52	1.63	1.74