

LOUVERS



STLC

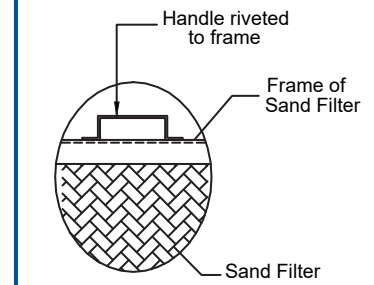
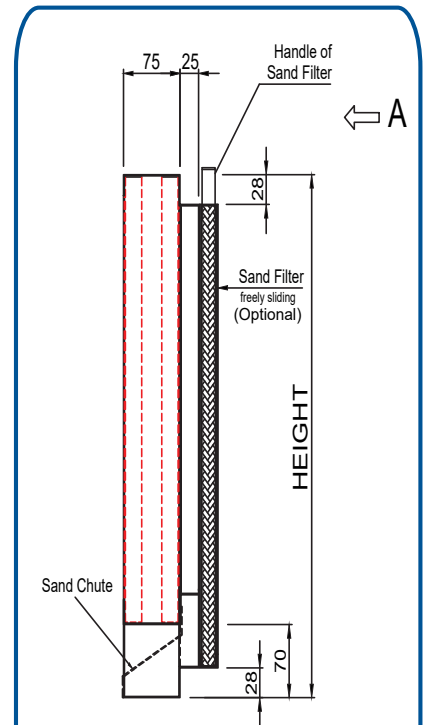
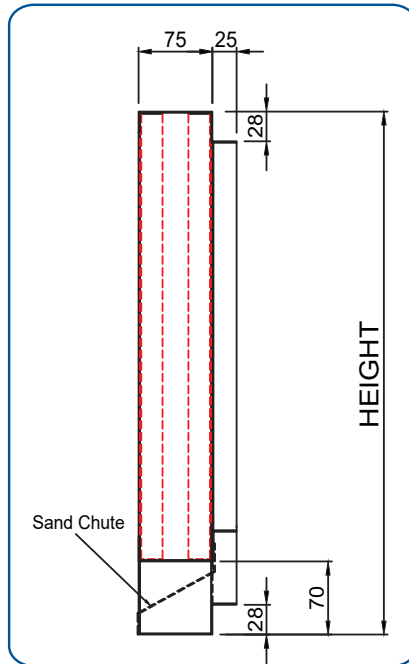
>> The sand trap louver is made of aluminum section/ GI sheet. It is composed of two sets of inverted U-channels, mounted vertically on two opposite rows.

>> The sand trap louver is used at the fresh air inlet duct. It can lower the dust loading of conventional filtration as it is designed to separate large size sand particles at low to medium speeds. It can be fitted with a bird/insect screen mesh.

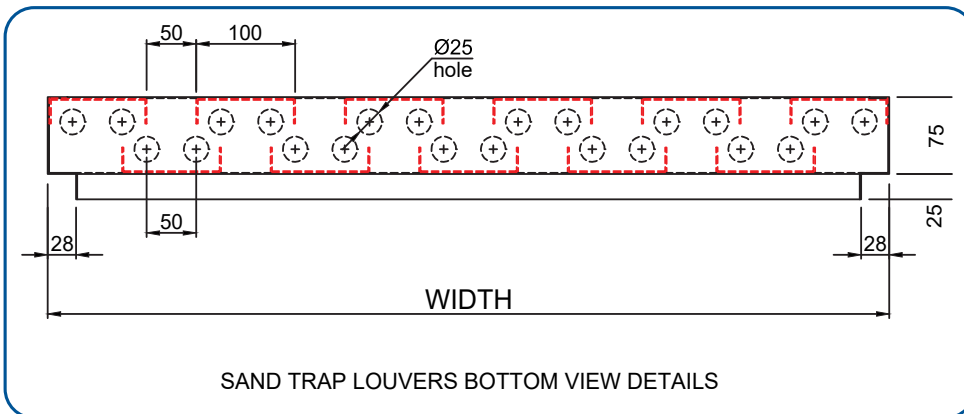
>> The sand trap louver is a self emptying system, it has a set of holes at the bottom and a chute to discharge separated sand particles.

>> Tested by AMCA in accordance with ANSI/ AMCA 500-L

SAND TRAP LOUVERS WITH SAND CHUTE



View detail from arrow A



SAND TRAP LOUVERS BOTTOM VIEW DETAILS

Ordering Key:

S	T	L	CA	SSWM	SF	SIZE
STLCA: SAND TRAP LOUVER WITH CHUTE IN ALUMINIUM						
STLCG: SAND TRAP LOUVER WITH CHUTE IN GI						
-: WITHOUT SCREEN/WIRE MESH						
IS: G.I. INSECT SCREEN						
SSWM: STAINLESS STEEL WIRE MESH						
-: WITHOUT FILTER						
SF: WITH SLIDING 1 INCH THICK ALUMINIUM FILTER						
SF2: WITH SLIDING 2 INCH THICK ALUMINIUM FILTER						
SIZE: WIDTH X HEIGHT						
**NOTE: 78 INCH X 78 INCH (OUT TO OUT) IS MAXIMUM SINGLE SECTION SIZE						





Beta Industrial LLC certifies that the STLC 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 AMCA Certified Ratings Seal applies to Air Performance, Wind Driven Sand and Water Penetration.

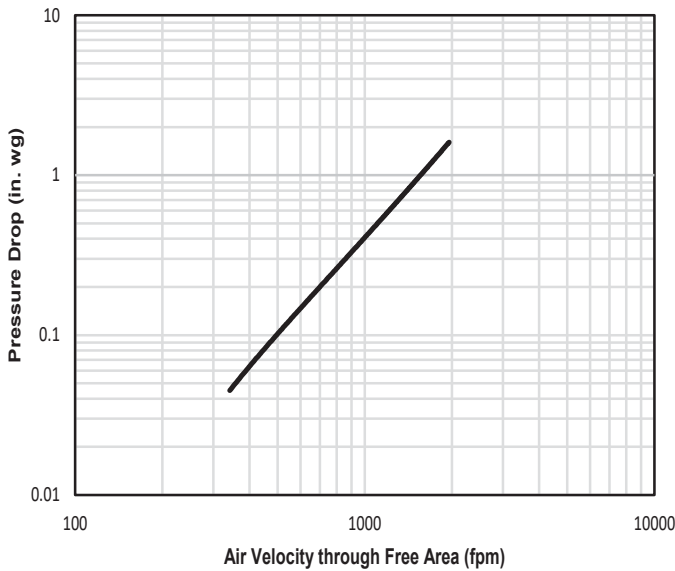
The beginning point of water penetration is 232.6 fpm

Test Information

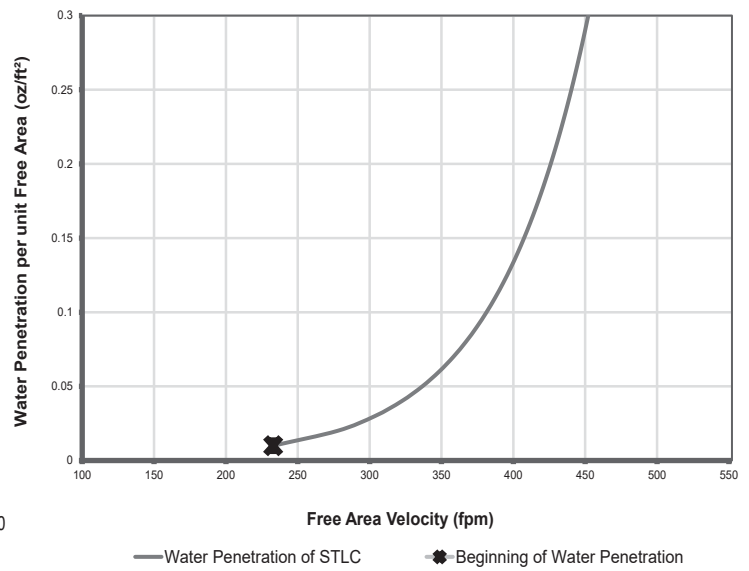
Tested in accordance with ANSI/AMCA 500-L, Figure 5.5 Test sample size is 1219mm x 1219mm (48 in. x 48 in.) Air Performance data are based on exhaust performance

The sand grading used for the test is between 76µm - 699µm as per AMCA 500-L.

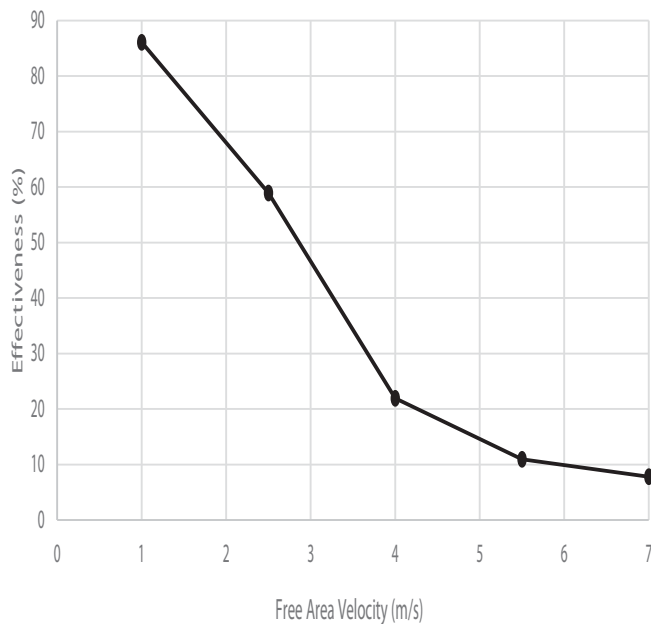
PRESSURE DROP DATA



WATER PENETRATION DATA



SAND REJECTION EFFECTIVENESS DATA



FREE AREA CHART (SQUARE FEET)

		Width (inches)											
		12	18	24	30	36	42	48	54	60	66	72	78
Out to Out	Neck Size	9.8	15.8	21.8	27.8	33.8	39.8	45.8	51.8	57.8	63.8	69.8	75.8
12	9.8	0.17	0.30	0.44	0.57	0.70	0.84	0.97	1.10	1.24	1.37	1.50	1.64
18	15.8	0.30	0.54	0.79	1.03	1.28	1.53	1.77	2.02	2.26	2.51	2.75	3.00
24	21.8	0.44	0.80	1.15	1.51	1.86	2.22	2.57	2.93	3.30	3.64	4.01	4.36
30	27.8	0.58	1.05	1.51	1.98	2.44	2.91	3.39	3.85	4.32	4.78	5.25	5.71
36	33.8	0.71	1.29	1.87	2.46	3.02	3.61	4.19	4.77	5.34	5.92	6.50	7.08
42	39.8	0.85	1.54	2.24	2.92	3.61	4.30	4.99	5.67	6.37	7.06	7.74	8.44
48	45.8	1.00	1.80	2.58	3.39	4.19	4.99	5.79	6.59	7.39	8.19	8.90	9.80
54	51.8	1.12	2.04	2.95	3.86	4.78	5.69	6.59	7.51	8.43	9.33	10.25	11.15
60	57.8	1.27	2.29	3.31	4.33	5.35	6.38	7.41	8.43	9.45	10.47	11.49	12.51
66	63.8	1.40	2.53	3.67	4.81	5.93	7.07	8.21	9.34	10.47	11.61	12.74	13.88
72	69.8	1.54	2.78	4.03	5.27	6.51	7.77	9.01	10.25	11.50	12.74	13.98	15.24
78	75.8	1.68	3.04	4.39	5.75	7.10	8.45	9.81	11.17	12.52	13.88	15.24	16.59

Free Area velocity, m/s	Sand Rejection Louver Effectiveness (%)	Penetration Class
1.000	85.31	B
2.500	56.90	D
4.000	21.85	D
5.500	10.56	D
7.000	9.54	D

