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GENERAL:

Al Mabani sand trap louver is used as pre-filter to prevent the conditioned area from sand and high dust particle in areas prone to sandstorm and extreme industrial pollution. The vertically placed inverted U blades and the self-drain holes effectively separate the sand particles. The self-cleaning and maintenance free sand trap louver provides the maximum performance at low face velocities. Ideally suited for installation into structural opening that are constructed into wall cladding either single skin or double wall composite panels, concrete or block wall.

MATERILAS & CONSTRUCTION:

Available in both Aluminum and Galvanized sheet. The aluminum variant is constructed of extruded aluminum. As an option bird screen and aluminum washable filter can be attached in the interior

face of the louver. All combinations for W and H dimensions can be supplied. Sand trap louver with height above 42 inches are fitted with integral sand drain chute.

APPLICATION:

Manufacturing plant air inlet system

Generator and plant room as inlet air devices

Power Station's intake manifolds Air inlet for HVAC ducted systems



SAS-STL-5

DIMENSION Standard size

Width (inches)	12	18	24	30	36	42	48	54	60
Height (inches)	12	18	24	30	36	42	48	54	60



CONFIGURATION:

Supplied In Modular Assembly Form For Rapid Site and Installation and suitable for different weather condition.

MATERIALS:

AL-Aluminum Extruded-Exposed Type GI:- Galvanized steel type-flush type

SCREEN:

B-Bird Mesh I-Insect screen

FINISH:

P-Powder Coated A-Anodizes E-Epoxy Painted M-Mill Finish

OPTIONAL:

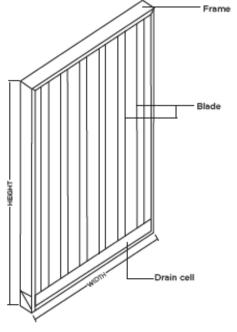
WF-Aluminum washable filter.

SELECTION:

SAS-STL – W X H – MATERIAL-FINISH-OPTIONAL SAS-STL- 18 inches X 12 inches-AL(Aluminum)-P(Powder coat)-B(Bird Screen)



SAS-STL-GI-100





SAS-STL-AL-100

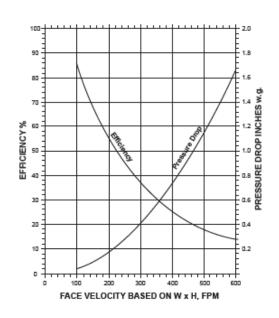


PERFORMANCE DETAILS

Free Area (ft2)

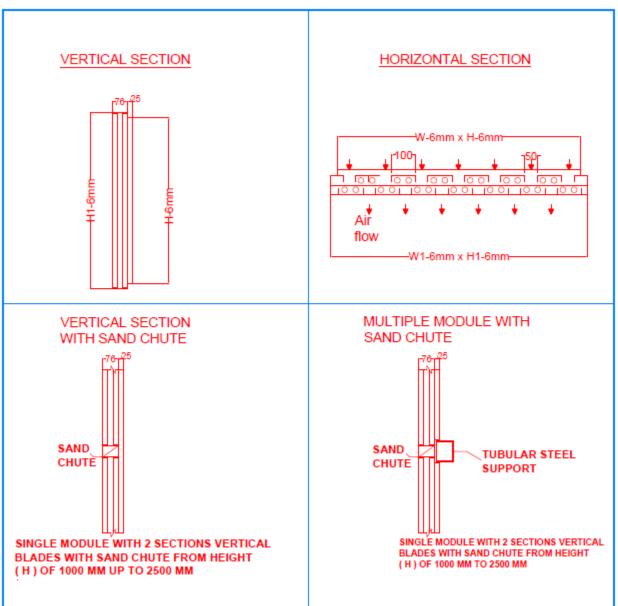
Height	yht Width (inches)													
(inches)	12	18	24	30	36	42	48	54	60	66	72	78	84	90
12	0.31	0.47	0.64	0.79	0.96	1.12	1.28	1.44	1.60	1.77	1.93	2.09	2.25	2.41
18	0.47	0.72	0.96	1.21	1.45	1.70	1.94	2.19	2.43	2.68	2.92	3.17	3.41	3.66
24	0.64	0.96	1.29	1.62	1.95	2.78	2.60	2.93	3.26	3.59	3.92	4.24	4.57	4.90
30	0.79	1.21	1.62	2.03	2.44	2.85	3.27	3.68	4.90	4.50	4.91	5.32	5.73	6.15
36	0.96	1.45	1.95	2.44	2.94	3.43	3.93	4.42	4.92	5.41	5.91	6.40	6.89	7.39
42	1.40	1.57	2.11	2.65	3.19	3.72	4.26	4.79	5.33	5.87	6.40	6.94	7.47	8.01
48	1.20	1.82	2.44	3.06	3.68	4.30	4.92	5.54	6.16	6.78	7.40	8.02	8.64	9.26
54	1.36	2.06	2.77	3.47	4.17	4.87	5.58	6.28	6.98	7.69	8.39	9.10	9.80	10.50
60	1.52	2.31	3.09	3.88	4.67	5.45	6.24	7.03	7.81	8.60	9.39	10.17	10.86	11.75
66	1.69	2.55	3.42	4.29	5.16	6.03	6.90	7.77	8.64	9.51	10.38	11.25	12.12	13.00
72	1.85	2.80	3.75	4.71	5.66	6.61	7.57	8.52	9.47	10.42	11.38	12.33	13.28	14.23
78	2.01	3.04	4.08	5.12	6.15	7.19	8.23	9.26	10.30	11.33	12.37	13.41	14.44	15.48
84	2.17	3.29	4.41	5.53	6.65	7.77	8.89	10.01	11.13	12.25	13.37	14.49	15.61	16.72
90	2.33	3.53	4.74	5.69	7.14	8.35	9.55	10.75	11.96	13.16	14.36	15.56	16.77	17.97

Test result conducted on similar equipment indicate a typical filtration efficiency of 80% on AC coarse (20-200 microns) and 50% on AC fine test dust (1 microns).For normal to 70 operation in ordinary conditions, sand trap louvers used for natural ventilation purpose rated at are recommended face velocity of 1.0 m/s.



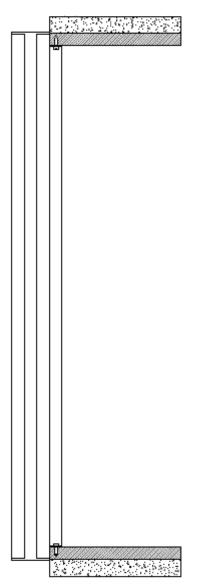


SECTION DETAILS

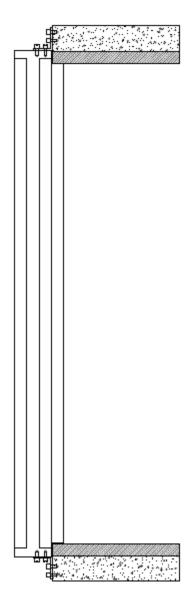




INSTALLATION DETAILS



CONCEALED MOUNTING



EXTERNAL MOUNTING

