

SAND TRAP LOUVER

STL-A08

DESIGN FEATURES

- > High performance sand trap louver.
- > The static pressure is less than 2 PA @ 1 m/s.
- > Frame is recessed in wall or flanged as optional.
- > Double stage Y-shaped profile blades.
- > Weight per one square meter is approximately 30 Kg.
- > Face of louver is free from all fasteners.

STANDARD CONSTRUCTION

FRAME: 8" (203) X 0.07" (2) Formed Aluminum.6063-T6

BLADE: 0.08" (2.0) Extruded Aluminum, 6063-T6

SCREEN: Bird Screen 0.5" (12.7) x 0.059" (1.5) wire diameter, with removable frame on the interior of the louver. Screen adds approximately 0.5" (12.7) to the depth of louver.

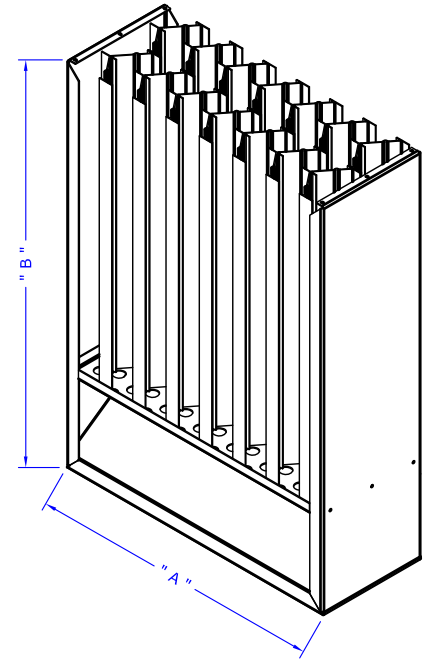
FINISH: Mill as standard.

Min.size: 18" (457) W X 18" (457) H

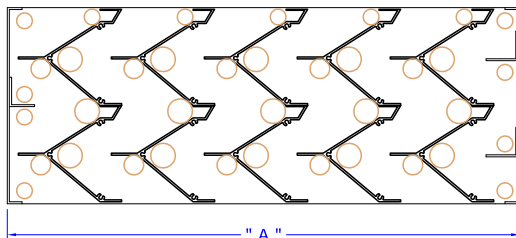
Max. size: 96" (2438) W X 96" (2438) H

Installation: The louver will be recessed in the wall opening since it is being furnished with sloped sill, for which sand will get ejected to outside.

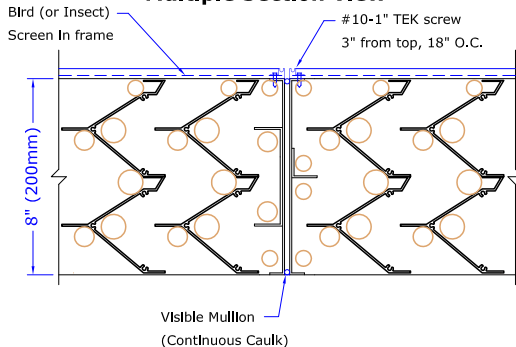
Note: Louver fabricated 0.25" (6.4 mm) under opening size unless otherwise noted.



Section View



Multiple Section View



OPTIONAL CONSTRUCTION

- > Flange Frame 1.50" (38) mm
- > 0.625" (16) mm Aluminum filter in frame as standard.
- > Sub-Frames
- > Hinged sub-frames
- > Sill extension
- > Securit bars

Front

Back

- > Optional bird or insect screen
- > Blank off panel

Aluminum, Non insulated

Aluminum, Insulated

- > Optional Fishing: Refer the chart.

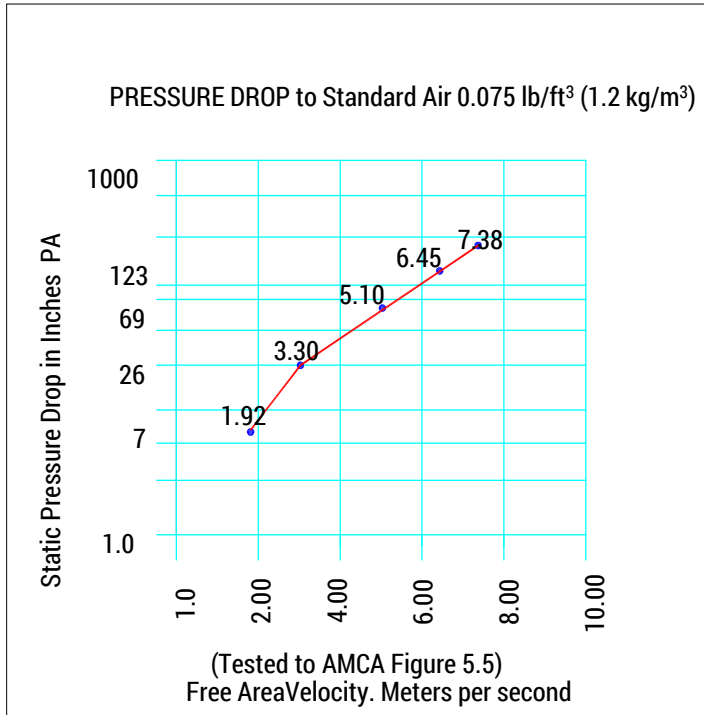


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AIR PERFORMANCE



Airflow Performance

PRESSURE DROP	Airflow m ³ /s	Free Area Velocity m/s
7	0.86	1.92
26	1.48	3.30
69	2.28	5.10
123	2.89	6.45
167	3.31	7.38

Notes:

- Pressure Drop Data applies to test unit size 48" x 48" (1219 x 1219)mm only.
- Reported Pressure Drop is for Intake mode only.
- Performance data does not include the effects of bird screen or filter.
- All Performance shown is at standard air density of 0.075 lb/ft³ (1.2kg/m³).

Penetration Class for Wind Driven Sand Test

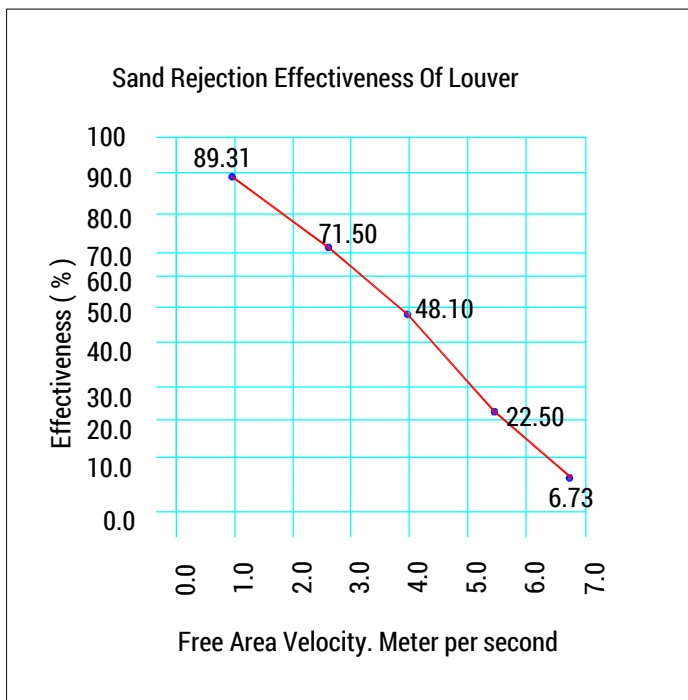
Class	Effectiveness
A	100% to 90%
B	89.9% to 80%
C	79.9% to 70%
D	Below 70%

Requirements for Standard Test Sand

Grade (µm)	Mass (%)
>699	0.5
423-699	3.0
353-422	12.0
251-352	30.0
211-250	20.0
152-210	27.0
104-151	6.0
76-103	1.0
<76	0.5

Note: These classifications apply at various free area velocities

SAND REJECTION



Sand Rejection Effectiveness

Airflow Rate m ³ /s	Free Area Velocity m/s	Louver Effectiveness %
0.44	0.99	89.31
1.16	2.58	71.5
1.78	3.97	48.1
2.44	5.45	22.5
3.02	6.73	6.73

STL-A08 (V1) MARCH-2020



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FREE AREA CHART

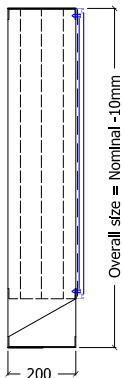
FREE AREA FOR STL-A08
(in ft² and m²)

		Width in Inches (Meters)													
		18	24	30	36	42	48	54	60	66	72	78	84	90	96
		0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52	1.68	1.83	1.98	2.13	2.29	2.44
Height in Inches (Meters)	18	0.60	0.81	1.02	1.24	1.45	1.66	1.87	2.09	2.30	2.51	2.73	2.94	3.15	3.36
	0.46	0.055	0.075	0.095	0.115	0.135	0.154	0.174	0.194	0.214	0.233	0.253	0.273	0.293	0.313
	24	0.77	1.04	1.32	1.59	1.87	2.14	2.42	2.69	2.97	3.24	3.52	3.79	4.06	4.34
	0.61	0.072	0.097	0.123	0.148	0.174	0.199	0.225	0.250	0.276	0.301	0.327	0.352	0.378	0.403
	30	1.02	1.38	1.74	2.11	2.47	2.83	3.19	3.56	3.92	4.28	4.65	5.01	5.37	5.74
	0.76	0.095	0.128	0.162	0.196	0.229	0.263	0.297	0.331	0.364	0.398	0.432	0.465	0.499	0.533
	36	1.29	1.74	2.20	2.66	3.12	3.58	4.04	4.50	4.96	5.41	5.87	6.33	6.79	7.25
	0.91	0.119	0.162	0.205	0.247	0.290	0.333	0.375	0.418	0.460	0.503	0.546	0.588	0.631	0.674
	42	1.44	1.95	2.46	2.98	3.49	4.00	4.52	5.03	5.54	6.05	6.57	7.08	7.59	8.11
	1.07	0.134	0.181	0.229	0.277	0.324	0.372	0.419	0.467	0.515	0.562	0.610	0.658	0.705	0.753
	48	1.72	2.33	2.94	3.56	4.17	4.78	5.40	6.01	6.62	7.23	7.85	8.46	9.07	9.69
	1.22	0.160	0.217	0.274	0.330	0.387	0.444	0.501	0.558	0.615	0.672	0.729	0.786	0.843	0.900
	54	1.90	2.58	3.26	3.93	4.61	5.29	5.97	6.65	7.32	8.00	8.68	9.36	10.04	10.71
	1.37	0.177	0.240	0.303	0.365	0.428	0.491	0.554	0.617	0.680	0.743	0.806	0.869	0.932	0.995
	60	2.14	2.90	3.66	4.43	5.19	5.95	6.72	7.48	8.24	9.00	9.77	10.53	11.29	12.06
	1.52	0.199	0.270	0.340	0.411	0.482	0.553	0.624	0.695	0.766	0.837	0.907	0.978	1.049	1.120
	66	2.41	3.27	4.13	4.99	5.85	6.70	7.56	8.42	9.28	10.14	11.00	11.86	12.72	13.58
	1.68	0.224	0.304	0.383	0.463	0.543	0.623	0.703	0.782	0.862	0.942	1.022	1.102	1.182	1.261
	72	2.56	3.47	4.39	5.30	6.21	7.12	8.04	8.95	9.86	10.78	11.69	12.60	13.51	14.43
	1.83	0.238	0.323	0.407	0.492	0.577	0.662	0.747	0.831	0.916	1.001	1.086	1.171	1.256	1.340
	78	2.85	3.86	4.88	5.89	6.91	7.92	8.94	9.95	10.97	11.99	13.00	14.02	15.03	16.05
	1.98	0.264	0.359	0.453	0.547	0.642	0.736	0.830	0.925	1.019	1.113	1.208	1.302	1.396	1.491
	84	3.03	4.11	5.19	6.27	7.35	8.43	9.51	10.59	11.67	12.75	13.83	14.91	15.99	17.07
	2.13	0.281	0.382	0.482	0.582	0.683	0.783	0.883	0.984	1.084	1.184	1.285	1.385	1.485	1.586
	90	3.26	4.42	5.59	6.75	7.91	9.07	10.24	11.40	12.56	13.73	14.89	16.05	17.22	18.38
	2.29	0.303	0.411	0.519	0.627	0.735	0.843	0.951	1.059	1.167	1.275	1.383	1.491	1.599	1.707
	96	3.54	4.80	6.07	7.33	8.59	9.85	11.12	12.38	13.64	14.91	16.17	17.43	18.70	19.96
	2.44	0.329	0.446	0.564	0.681	0.798	0.916	1.033	1.150	1.268	1.385	1.502	1.620	1.737	1.854

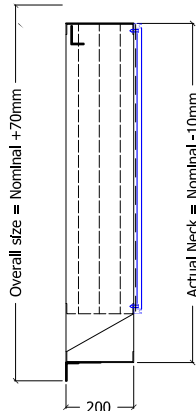
STL-A08 (V1 MAR 2020)

DIMENSIONAL DRAWINGS

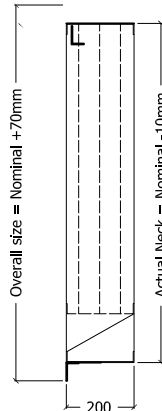
STL-A08-S (Screen)



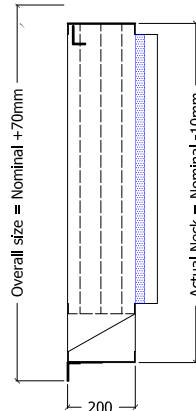
STL-A08-FS (Flanged/Screen)



STL-A08-F (Flanged)



STL-A08-FF (Flanged & Filter)



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