

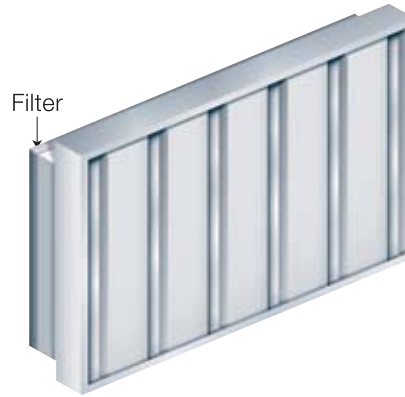
ALUMINIUM SAND TRAP LOUVER L5361: CONSTRUCTION

GENERAL

RUSKIN sand trap louvers are specially designed to separate the sand and dust from the air. It is effective and necessary to apply for ventilations and inlet ducts of air handling units. As the assembly comes with complete aluminium extruded profiles unit, it is corrosion resistant and suitable for different weather conditions. Sand trap louvers can be supplied with filters and dampers as optional.



L5361



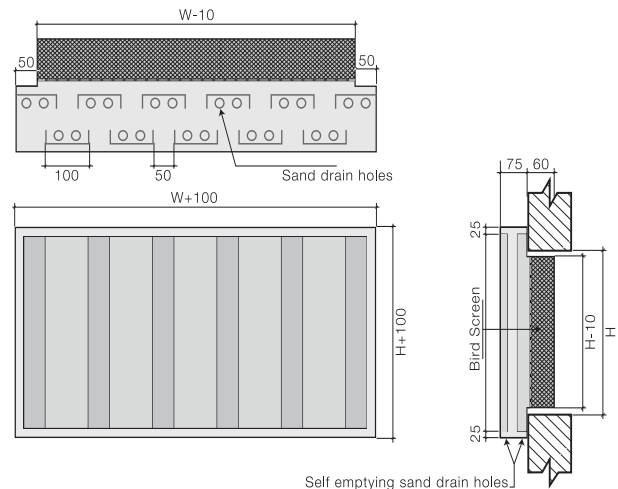
L5361/F

CONSTRUCTION

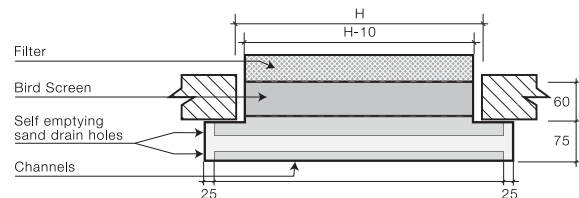
- Extruded aluminium profile frame with 25mm flange width and 150mm height.
- Extruded aluminium profile channels with 100mm face width and 30mm height.
- 12 x 12 x 1 mm dia G.I. wire mesh with PVC coating or powder coating as optional.
- Two set of 20mm drain holes per channel area at the bottom of the louver.
- Aluminium channels folder and riveted as filter frame - L5361/F.
- Expanded aluminium filter media - L5361/F.

DESCRIPTION

- Frame and vertically placed channels assembly as single unit, manufactured from high quality extruded aluminium profiles with the advantages of corrosion resistance and rigidity.
- U shape channels arranged in two rows inverted position with enough pitch to pass the air indirectly.
- Drain holes of 20mm at a distance of 44mm per one channel area at the bottom side of the louver to drain filtered sand and dust.
- Louver is fixed with a removable and washable extruded aluminium fitter with aluminium expanded mesh as the fitter media.
- Louver is fixed with a opposed blade volume control damper which can be operated manually.
- Total structure is weather proofed and the louver portion with complete aluminium body will be exposed to outside.
- Removable and washable filters can be provided in different thickness as per the requirements. These filters are made of aluminium frames and media.
- 30% Free Area for size, 1220 x 1220mm size.



L5361



L5361/F

STANDARD FINISHES

- Natural anodized aluminium finish.
- Power coated color finish, other colors as option.
- Flexibility of finish is available as option.

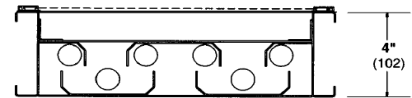
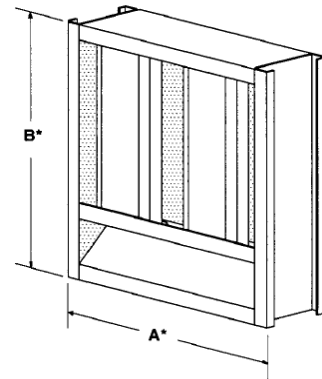
GALVANIZED STEEL SAND TRAP LOUVER L5361S: CONSTRUCTION

CONSTRUCTION

- Frame made of 102mm deep, 1.2mm thick formed galvanized steel channel.
- 12 x 12 x 1 mm dia G.I. wire mesh with PVC coating or powder coating as optional.
- Two set of 25.4mm drain holes per channel area and sand chute as optional at the bottom of the louver.
- Steel formed channels folder and riveted as filter frame.
- Expanded aluminium filter media.

DESCRIPTION

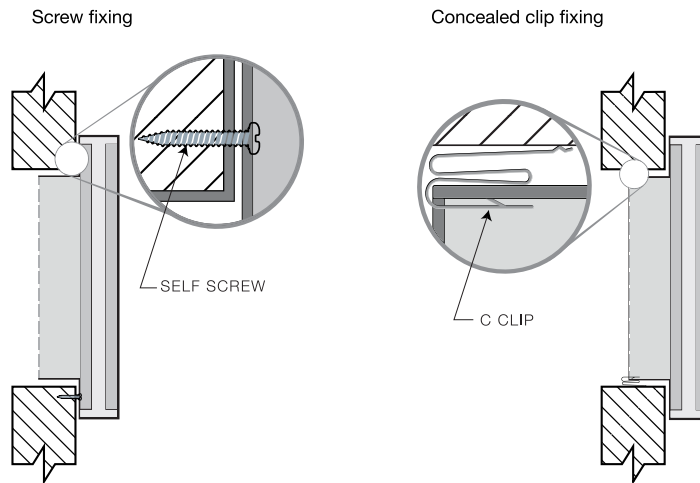
- Frame and vertically placed channels assembly as single unit, manufactured from high quality steel formed profiles.
- U shape channels arranged in two rows inverted position with enough pitch to pass the air indirectly.
- Louver is fixed with a removable and washable extruded aluminium filter with aluminium expanded mesh as the filter media.
- 25% Free Area, 1220 x 1220mm size.



STANDARD FINISHES

- Power coated color finish, other colors as option.
- Flexibility of finish is available as option.

INSTALLATION DETAILS



HOW TO ORDER

Model	Size	Quantity	Finish
L5361	Specify size width x height in mm	Specify in numbers	A = Mill finish, B = RAL 9016 & C = Other RAL color
L5361S			

ORDERING EXAMPLE

To select sand trap louver for a size of 900 mm x 800 mm, Quantity 45 numbers, Finish: Mill Finish

Order as: L5361 - 900 x 800 - 45 - A

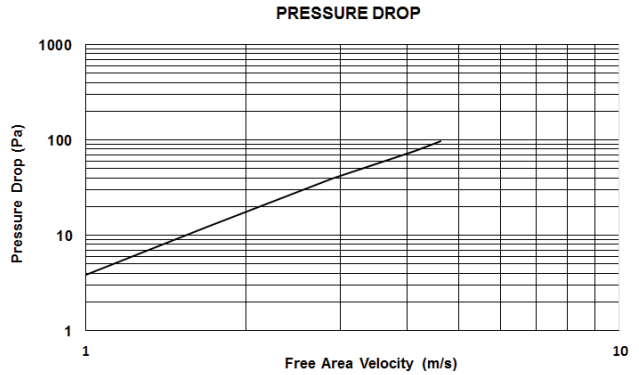
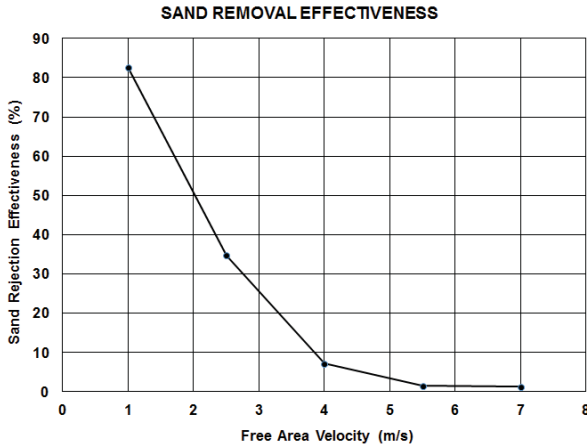
L5361 AMCA LICENSED PERFORMANCE DATA



Ruskin Titus Gulf LLC certifies that the Sand trap louver model L5361 shown herein 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 and wind driven sand ratings only.

PERFORMANCE DATA

Tested for wind driven sand performance in accordance with ANSI/AMCA Standard 500-L, Figure 5.12. Test sample size is 1220 mm x 1220 mm. Air performance data are based on intake performance and tested in accordance with ANSI/AMCA 500-L, Figure 5.5. Data corrected to standard air density.



PENETRATION CLASS

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.

Free area velocity (m/s)	1.0	2.5	4.0	5.5	7.0
Effectiveness (%)	83	35	7	2	1
Penetration class	B	D	D	D	D

FREE AREA GUIDE

Free area guide shows free area in m² for various sizes of L5361

		Height in mm														
		200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000
Width in mm	400	0.011	0.031	0.051	0.071	0.091	0.111	0.131	0.151	0.171	0.191	0.211	0.231	0.251	0.271	0.291
	600	0.022	0.061	0.101	0.141	0.180	0.220	0.259	0.299	0.339	0.378	0.418	0.457	0.497	0.537	0.576
	800	0.022	0.062	0.102	0.142	0.182	0.222	0.262	0.302	0.342	0.382	0.422	0.462	0.502	0.542	0.582
	1000	0.033	0.093	0.153	0.213	0.273	0.333	0.393	0.453	0.513	0.573	0.633	0.693	0.753	0.813	0.873
	1200	0.044	0.124	0.203	0.283	0.363	0.443	0.523	0.602	0.682	0.762	0.842	0.922	1.001	1.081	1.161
	1400	0.044	0.123	0.202	0.281	0.360	0.440	0.519	0.598	0.677	0.756	0.836	0.915	0.994	1.073	1.152
	1600	0.055	0.155	0.255	0.355	0.455	0.555	0.655	0.755	0.855	0.955	1.055	1.155	1.255	1.355	1.455
	1800	0.065	0.184	0.303	0.422	0.541	0.659	0.778	0.897	1.016	1.135	1.253	1.372	1.491	1.610	1.729
	2000	0.077	0.216	0.355	0.494	0.633	0.773	0.912	1.051	1.190	1.329	1.469	1.608	1.747	1.886	2.025
	2200	0.077	0.217	0.357	0.497	0.637	0.777	0.917	1.057	1.197	1.337	1.477	1.617	1.757	1.897	2.037
	2400	0.087	0.246	0.405	0.564	0.723	0.882	1.041	1.200	1.359	1.518	1.677	1.836	1.995	2.154	2.313
2600	0.088	0.248	0.407	0.567	0.727	0.887	1.047	1.206	1.366	1.526	1.686	1.846	2.005	2.165	2.325	
2800	0.099	0.279	0.459	0.639	0.819	0.999	1.179	1.359	1.539	1.719	1.899	2.079	2.259	2.439	2.619	
3000	0.099	0.279	0.459	0.639	0.819	0.999	1.179	1.359	1.539	1.719	1.899	2.079	2.259	2.439	2.619	

Free area for size 1220 mm x 1220 mm is 0.45878 m²

STANDARD SIZES

	Width	Height
Minimum	400 mm	200 mm
Maximum	3000 mm	3000 mm

NOTE: Any non standard sizes can be supplied upon request.

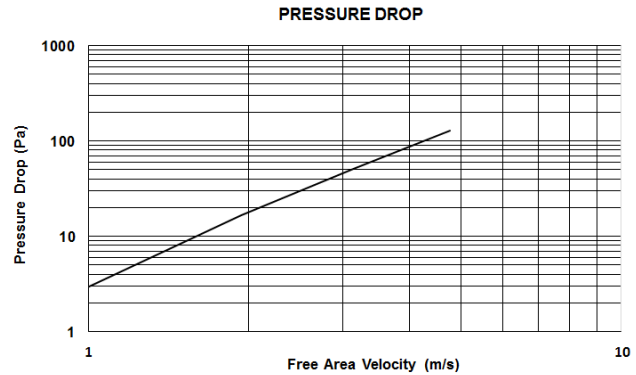
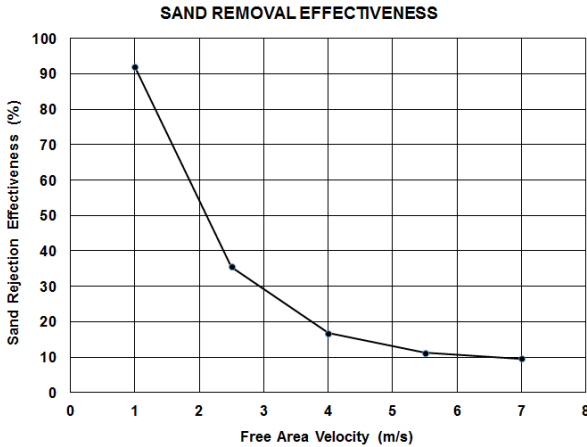
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PERFORMANCE DATA

Tested for wind driven sand performance in accordance with ANSI/AMCA Standard 500-L, Figure 5.12. Test sample size is 1220 mm x 1220 mm. Air performance data are based on intake performance and tested in accordance with ANSI/AMCA 500-L, Figure 5.5. Data corrected to standard air density.



PENETRATION CLASS

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.

Free area velocity (m/s)	1.0	2.5	4.0	5.5	7.0
Effectiveness (%)	92	36	17	11	10
Penetration class	B	D	D	D	D

FREE AREA GUIDE

Free area guide shows free area in m² for various sizes of L5361S

		Height in mm																		
		610	700	800	900	1000	1100	1200	1300	1400	1500	1524	1600	1700	1800	1900	2000	2100	2200	2286
Width in mm	610	0.071	0.084	0.100	0.115	0.131	0.146	0.161	0.177	0.192	0.207	0.211	0.223	0.238	0.253	0.269	0.284	0.300	0.315	0.328
	700	0.083	0.099	0.117	0.135	0.153	0.171	0.189	0.207	0.225	0.243	0.247	0.261	0.279	0.297	0.315	0.333	0.351	0.369	0.384
	800	0.111	0.133	0.157	0.182	0.206	0.230	0.254	0.278	0.303	0.327	0.333	0.351	0.375	0.399	0.424	0.448	0.472	0.496	0.517
	900	0.111	0.132	0.156	0.180	0.204	0.228	0.252	0.276	0.301	0.325	0.330	0.349	0.373	0.397	0.421	0.445	0.469	0.493	0.513
	1000	0.124	0.149	0.176	0.203	0.230	0.257	0.284	0.311	0.338	0.365	0.371	0.392	0.419	0.446	0.473	0.500	0.527	0.554	0.577
	1100	0.156	0.186	0.220	0.254	0.288	0.322	0.356	0.390	0.424	0.457	0.466	0.491	0.525	0.559	0.593	0.627	0.661	0.695	0.724
	1200	0.155	0.185	0.219	0.253	0.287	0.320	0.354	0.388	0.422	0.455	0.463	0.489	0.523	0.556	0.590	0.624	0.658	0.691	0.720
	1300	0.169	0.202	0.239	0.276	0.313	0.350	0.386	0.423	0.460	0.497	0.506	0.534	0.570	0.607	0.644	0.681	0.718	0.754	0.786
	1400	0.186	0.223	0.263	0.304	0.344	0.385	0.425	0.466	0.506	0.547	0.556	0.587	0.628	0.668	0.709	0.749	0.790	0.830	0.865
	1500	0.207	0.248	0.293	0.338	0.383	0.428	0.473	0.518	0.563	0.608	0.618	0.653	0.698	0.743	0.788	0.833	0.878	0.923	0.961
	1524	0.207	0.248	0.293	0.338	0.383	0.428	0.473	0.518	0.563	0.608	0.618	0.653	0.698	0.743	0.788	0.833	0.878	0.923	0.961
	1600	0.212	0.253	0.299	0.345	0.391	0.437	0.483	0.529	0.575	0.621	0.632	NA	NA	NA	NA	NA	NA	NA	NA
	1700	0.228	0.272	0.322	0.371	0.421	0.470	0.520	0.569	0.619	0.668	0.680	NA	NA	NA	NA	NA	NA	NA	NA
	1800	0.248	0.297	0.351	0.405	0.459	0.513	0.567	0.621	0.675	0.729	0.742	NA	NA	NA	NA	NA	NA	NA	NA
	1900	0.248	0.297	0.351	0.405	0.459	0.513	0.567	0.621	0.675	0.729	0.742	NA	NA	NA	NA	NA	NA	NA	NA
	2000	0.269	0.322	0.380	0.439	0.497	0.556	0.614	0.673	0.731	0.790	0.804	NA	NA	NA	NA	NA	NA	NA	NA
2100	0.289	0.345	0.408	0.471	0.533	0.596	0.659	0.722	0.785	0.847	0.862	NA	NA	NA	NA	NA	NA	NA	NA	
2200	0.290	0.347	0.410	0.473	0.536	0.599	0.662	0.725	0.788	0.851	0.866	NA	NA	NA	NA	NA	NA	NA	NA	
2286	0.328	0.392	0.463	0.534	0.605	0.676	0.748	0.819	0.890	0.961	0.978	NA	NA	NA	NA	NA	NA	NA	NA	

Free area for size 1220 mm x 1220 mm is 0.37878 m²

STANDARD SIZES

	Width	Height
Minimum	610 mm	610 mm
Maximum	2286 mm	2286 mm

NOTE: Any non standard sizes can be supplied upon request.