

# Model KSTL

## Extruded Aluminium Sand Louver

▲ 100mm (4" deep) ▲ Vertical Blades

## Product Data Sheet

### Introduction

Sand Louver designed to protect air intake from wind-driven sand. The sand trap louvre is used as pre-filter for the protection against ingress of sand and dust particles in fresh air intakes. Sand Trap Louvers manufactured by Jersey have a high degree of separation of sand and large dust particles, even in cases of high dust concentrations. The sand trap louver is designed to separate large particles of sand or dust at low air velocities, thus avoiding excessive dust loading on conventional plant filters.

Model KSTL, Sand Trap louvers feature 6063-T5 extruded aluminium blades.

The Louver sections combine vertical blades to separate sand from the air stream, and the sloped sill ensures the sand trap louver is self-cleaning by channelling out the sand or dust. Louvers are designed for both intake and exhaust air service for commercial & Industrial applications.

### Construction

Construction	Standard
Frame Material	Extruded aluminium, 6063-T5/T6 alloy.
Frame Thickness	2mm (0.081") thickness
Blade Material	Extruded aluminium, 6063-T5/T6 alloy.
Blade Thickness	1.5mm (0.060") thickness
Louver Depth	100mm (4")
Screens	12mm x 12mm (2/1" x 2/1") x 2mm thick wire mesh
Finish	Powder coated to RAL9010

### Louver Dimensions

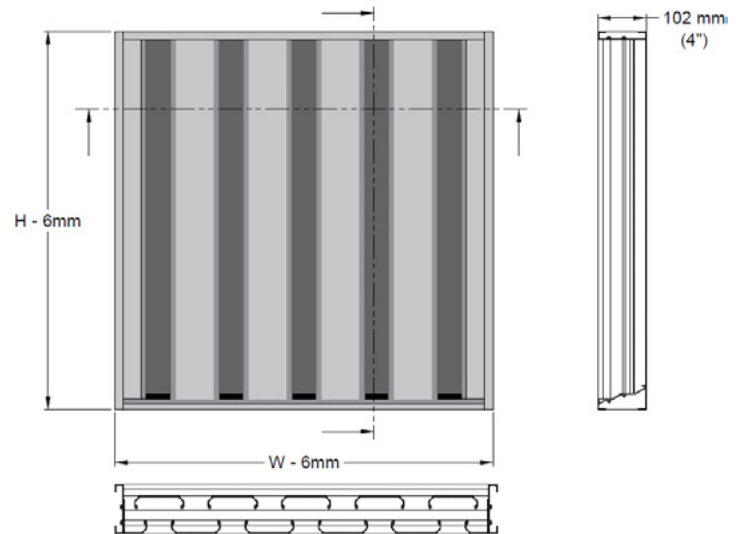
Model	Minimum Panel Size	Maximum Single Panel
KSTL	300mm x 300mm (12" x 12")	1800mm x 2400mm (72" x 96")
		2400mm x 1800mm (96" x 72")

### Features

- Extruded aluminium construction with attractive, durable finish.
- Model KSTL, Sand Trap louvers feature 6063-T5 extruded aluminium blades.
- Two rows of vertically arranged extruded Aluminium blades to form a labyrinth for the air path.

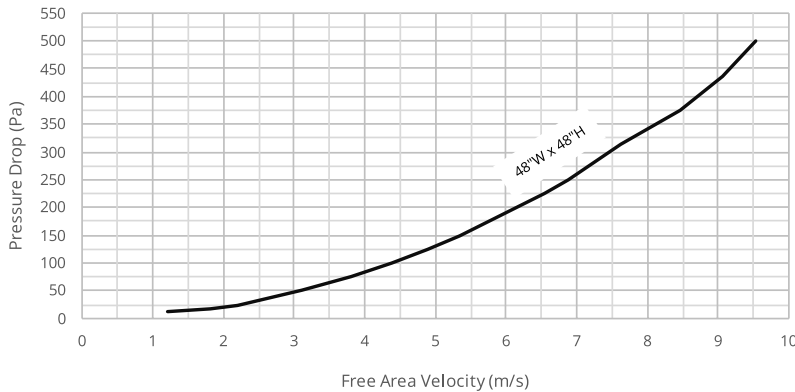
### Options

- Perimeter flanges, mounting angles Standard flanges are 38mm (1.5")
- Other flange sizes are available.
- Bird Screens in Aluminium, Galvanized Steel or Stainless Steel
- Aluminium pre-filters 25mm / 50mm thick
- Insect screens
- Blank Off plates.
- Visible Formed aluminium mullions
- PVDF coatings available.
- Any RAL colour



### Notes

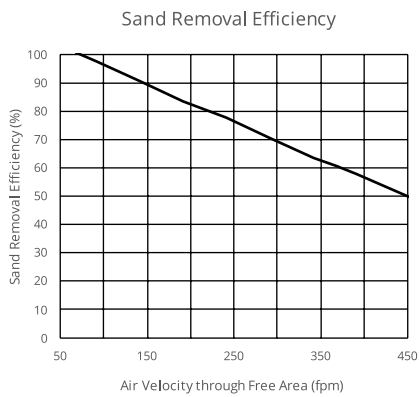
- Nominal deductions of 6mm will be made to the opening size given.
- Larger sizes will be supplied in sections to be assembled in the field.



## Pressure Drop

**Air Performance** - pressure drop testing was conducted in accordance with AMCA Standard 500-L "Laboratory Methods of Testing"

Ratings do not include the effect of bird screen



Sand removal efficiency approximately 90%, measured during tests described in ASHRAE Standard 52-76 test method.

Designs should provide a reasonable safety factor for louver performance by selecting at some point below pressure drop or sand removal requirements.

Particle Removal Efficiency		
Particle Size	Efficiency	
(microns)	1.0m/s	2.0m/s
0 - 70 microns	60	40
71 - 200 microns	80	70
201 - 700 microns	90	80

## Free Area (sq. mts)

		Width (mm)														
		300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400
Height (mm)	300	0.025	0.038	0.050	0.063	0.076	0.088	0.101	0.113	0.126	0.139	0.151	0.164	0.176	0.189	0.202
	450	0.038	0.057	0.076	0.095	0.113	0.132	0.151	0.170	0.189	0.208	0.227	0.246	0.265	0.284	0.302
	600	0.050	0.076	0.101	0.126	0.151	0.176	0.202	0.227	0.252	0.277	0.302	0.328	0.353	0.378	0.403
	750	0.063	0.095	0.126	0.158	0.189	0.221	0.252	0.284	0.315	0.347	0.378	0.410	0.441	0.473	0.504
	900	0.078	0.117	0.157	0.196	0.235	0.274	0.313	0.352	0.392	0.431	0.470	0.509	0.548	0.587	0.626
	1050	0.088	0.132	0.176	0.221	0.265	0.309	0.353	0.397	0.441	0.485	0.529	0.573	0.617	0.662	0.706
	1200	0.108	0.162	0.216	0.270	0.324	0.378	0.432	0.486	0.540	0.594	0.648	0.702	0.756	0.810	0.864
	1350	0.122	0.182	0.243	0.304	0.365	0.425	0.486	0.547	0.608	0.668	0.729	0.790	0.851	0.911	0.972
	1500	0.144	0.216	0.288	0.360	0.432	0.504	0.576	0.648	0.720	0.792	0.864	0.936	1.008	1.080	1.152
	1650	0.144	0.215	0.287	0.359	0.431	0.502	0.574	0.646	0.718	0.790	0.861	0.933	1.005	1.077	1.148
	1800	0.157	0.235	0.313	0.392	0.470	0.548	0.626	0.705	0.783	0.861	0.940	1.018	1.096	1.175	1.253
	1950	0.170	0.254	0.339	0.424	0.509	0.594	0.679	0.763	0.848	0.933	1.018	1.103	1.188	1.272	1.357
	2100	0.183	0.274	0.365	0.457	0.548	0.639	0.731	0.822	0.914	1.005	1.096	1.188	1.279	1.370	1.462
	2250	0.196	0.294	0.392	0.489	0.587	0.685	0.783	0.881	0.979	1.077	1.175	1.272	1.370	1.468	1.566
	2400	0.209	0.313	0.418	0.522	0.626	0.731	0.835	0.940	1.044	1.148	1.253	1.357	1.462	1.566	1.670