



Management System  
ISO 9001:2008

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# SAND TRAP LOUVERS



## Our Product Ranges

### Dampers

- 1 Fire Dampers
- 2 Fire / Smoke Dampers
- 3 Volume Control Dampers
- 4 Motorized Control Dampers
- 5 Pressure Relief Dampers /Non Return Dampers

### Variable Air Volumes

- 6 Pressure Independent VAV
- 7 Constant Air Volume VAV
- 8 By Pass VAV

### Louvers

- 9 Sand Trap Louvers
- 10 Acoustic Louvers
- 11 Stationery Louvers / Architectural Louvers
- 12 Storm Louvers
- 13 Weather Louvers

### Sound Attenuators

- 14 Rectangular Sound Attenuators
- 15 Circular Sound Attenuators
- 16 Crosstalk Attenuators

### Electric Duct Heaters

- 17 Flange & Slip 'n' Type
- 18 Modulating & On/Off Type

### Air Outlets

- 19 Registers & Grilles
- 20 Diffusers (Linear Diffusers, Sq. & Rect. Ceiling Diffusers, Round Diffusers, Jetflow Diffusers)
- 21 Swirl Diffusers & Disc Valves
- 22 Drum Louvers



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## Model : AHS SSL 300

**Airwellcare** 8" Deep SSL 300 Model is designed for Heavy duty applications for removal of wind driven sand and dust particles, high wind velocity storm with 99% efficiency at free area velocities, which is comparatively superfluous sand elimination capability and provides a low-pressure drop and architecturally styled aesthetic design for an elegant appearance. The double vertical sight proof blades provide a minimum free area of 53%.

### Frame

8" (203 mm) deep. 0.81" (2.0 mm) thick extruded aluminum, alloy 6063-T5.

### Blade

0.81" (2.0 mm) thick extruded aluminum, alloy 6063-T5, Double vertical, sight proof.

### Filter / Media / Screen

Aluminium or Galvanized Louver Screens are fabricated fastened to ensure the highest product quality and durability.

Standard Screen size 12 x 12 x 1.0 mm

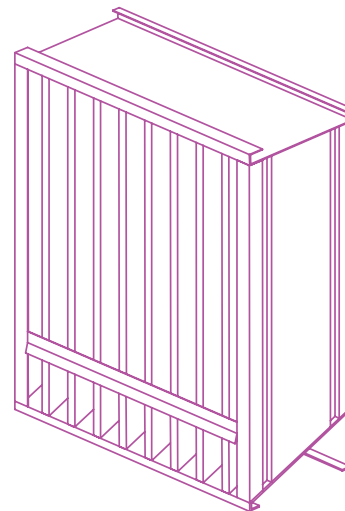
### Sand Drain Holes

Self draining slots at the bottom of the Louver.

### Finish & Colour

Standard Powder Coating finish as per RAL Colour Codes. The following custom based optional coatings / finish are also available on request.

- Super-Durable Polyester Powder Coating (SDF)
- Hyper-Durable Fluorocarbon Polymer Coating (HDF)
- Polyvinylidene fluoride coating/KYNAR Coating (PVDF/KYNAR)



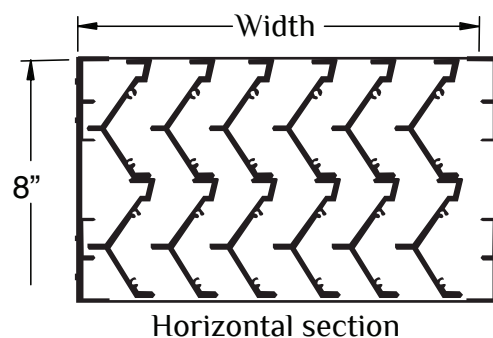
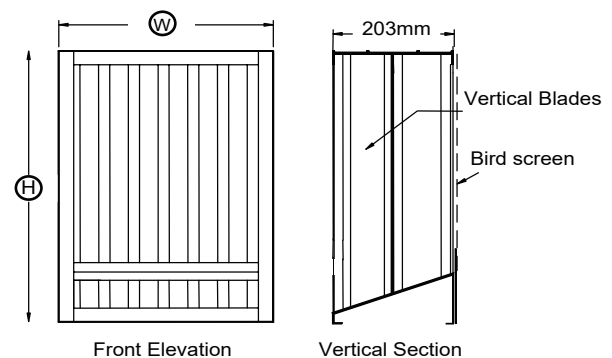
AHS SSL 300

The finishes complies to AAMA 2603 / 2604 / 2605 requirements with 20-year limited warranty against failure or excessive fading.

### Minimum & Maximum Single Section

Min. 12" (305 mm) x 12" (305 mm)

Max. 120"W x 72"H / 72"W x 120"H (3048 x 1829mm)



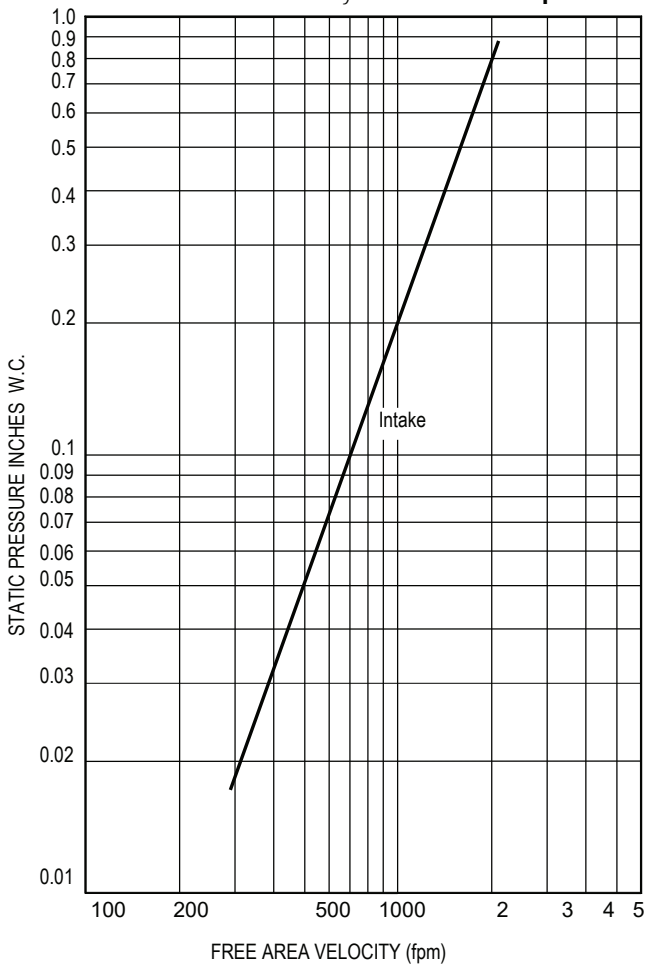


# Sand Trap Louvers

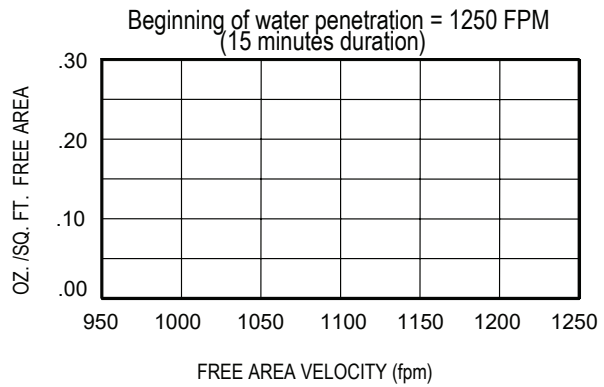
Free Area (Sq. Ft.)  
Width

Height	Inch.	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.21	0.34	0.47	0.60	0.73	0.85	0.98	1.11	1.24	1.37	1.49	1.62	1.75	1.88	2.01	2.13	2.26	2.39	2.52	
18	0.48	0.77	1.06	1.35	1.64	1.93	2.22	2.51	2.80	3.09	3.38	3.67	3.96	4.25	4.54	4.83	5.12	5.41	5.70	
24	0.75	1.20	1.66	2.11	2.56	3.01	3.46	3.91	4.36	4.82	5.27	5.72	6.17	6.62	7.07	7.52	7.98	8.43	8.88	
30	1.02	1.64	2.25	2.86	3.47	4.09	4.70	5.31	5.93	6.54	7.15	7.77	8.38	8.99	9.61	10.22	10.83	11.45	12.06	
36	1.29	2.07	2.84	3.62	4.39	5.17	5.94	6.72	7.49	8.27	9.04	9.82	10.59	11.37	12.14	12.92	13.69	14.46	15.24	
42	1.56	2.50	3.43	4.37	5.31	6.24	7.18	8.12	9.05	9.99	10.93	11.86	12.80	13.74	14.67	15.61	16.55	17.48	18.42	
48	1.83	2.93	4.03	5.13	6.22	7.32	8.42	9.52	10.62	11.72	12.81	13.91	15.01	16.11	17.21	18.31	19.40	20.50	21.60	
54	2.10	3.36	4.62	5.88	7.14	8.40	9.66	10.92	12.18	13.44	14.70	15.96	17.22	18.48	19.74	21.00	22.26	23.52	24.78	
60	2.37	3.79	5.21	6.63	8.06	9.48	10.90	12.32	13.74	15.17	16.59	18.01	19.43	20.85	22.27	23.70	25.12	26.54	27.96	
66	2.64	4.22	5.81	7.39	8.97	10.56	12.14	13.72	15.31	16.89	18.47	20.06	21.64	23.22	24.81	26.39	27.98	29.56	31.14	
72	2.91	4.65	6.40	8.14	9.89	11.63	13.38	15.13	16.87	18.62	20.36	22.11	23.85	25.60	27.34	29.09	30.83	32.58	34.32	
78	3.18	5.09	6.99	8.90	10.81	12.71	14.62	16.53	18.43	20.34	22.25	24.15	26.06	27.97	29.88	31.78	33.69	35.60	37.50	
84	3.45	5.52	7.59	9.65	11.72	13.79	15.86	17.93	20.00	22.07	24.13	26.20	28.27	30.34	32.41	34.48	36.55	38.61	40.68	
90	3.72	5.95	8.18	10.41	12.64	14.87	17.10	19.33	21.56	23.79	26.02	28.25	30.48	32.71	34.94	37.17	39.40	41.63	43.86	
96	3.99	6.38	8.77	11.16	13.56	15.95	18.34	20.73	23.12	25.52	27.91	30.30	32.69	35.08	37.48	39.87	42.26	44.65	47.04	
102	4.26	6.81	9.36	11.92	14.47	17.03	19.58	22.13	24.69	27.24	29.79	32.35	34.90	37.46	40.01	42.56	45.12	47.67	50.22	
108	4.53	7.24	9.96	12.67	15.39	18.10	20.82	23.53	26.25	28.97	31.68	34.40	37.11	39.83	42.54	45.26	47.97	50.69	53.41	
114	4.80	7.67	10.55	13.43	16.30	19.18	22.06	24.94	27.81	30.69	33.57	36.45	39.32	42.20	45.08	47.95	50.83	53.71	56.59	
120	5.06	8.10	11.14	14.18	17.22	20.26	23.30	26.34	29.38	32.42	35.45	38.49	41.53	44.57	47.61	50.65	53.69	56.73	59.77	

Free Area Velocity & Pressure Drop



Water Penetration



## Key features

- Low Pressure drop
- 53% free area based on 48"x48"
- Sand rejection efficiency of approx. 99% in accordance with ASHRAE standard 52-776
- Sight proof aesthetic design
- Technical & after sales support.
- Architecturally aesthetic appearance.
- All sizes are custom fabricated to meet project requirements.

Sand Removal Efficiency

Pressure Drop	.10" wg	.20" wg	.30" wg
Free Area Velocity (fpm)	700	1000	1400
Particle Size	1-100 Micron		
Efficiency	96%	86%	75%
Particle Size	1100 - 1500 Micron		
Efficiency	99.90%	99.80%	99.30%

### CALCULATING MAX. AIRFLOW BEFORE WATER PENETRATION

The "free area flow rate" at which water penetration commences (.01 oz. of water) is established at 1250 fpm for AHS SSL 300 and will vary depending upon actual weather conditions. To determine the free area (in sq.ft.) based upon a known volumetric flow rate in CFM;  $\frac{\text{CFM}}{\text{FPM}} = \text{Sq.Ft. free area.}$



P.O Box 42707

Factory at LV-16 A, Logistic Village, Phase 2, Hamriyah Free Zone  
Sharjah, United Arab Emirates

Tel. +971 (6) 526 4061 / Fax. + 971 (6) 526 4062

Email : [sales@airwellcare.com](mailto:sales@airwellcare.com)

Web : [www.airwellcare.com](http://www.airwellcare.com)