

Model—SA-440VE

101.6mm DEEP SAND TRAP LOUVER



OSA Products certifies that the Sand Trap Louver Model “SA-440VE” 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 ratings Only.



AIRFLOW PERFORMANCE:

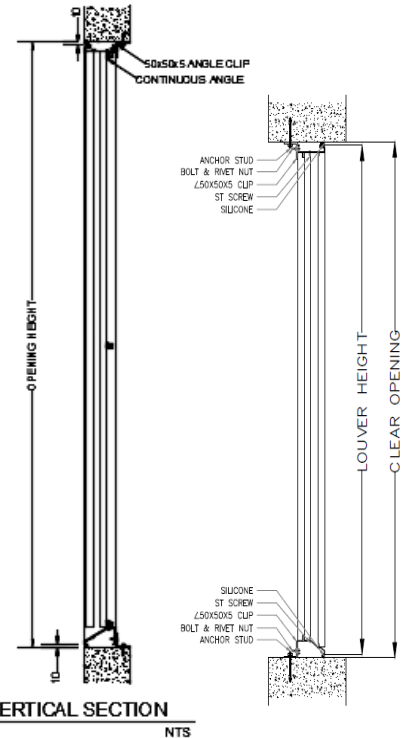
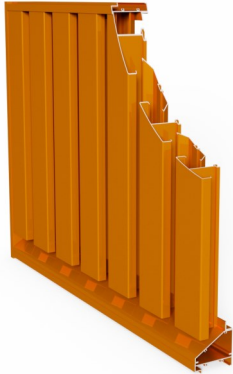
- Free Area: 28.6%
- Airflow Classification—Class 3 - Static Pressure Loss: Not more than (16 Pa) @ 215 fpm (1.1m/s) Core Velocity

SA-440VE is tested as per EN13181:2001 and AMCA 500-L99 for pressure drop.

SAND REJECTION PERFORMANCE:

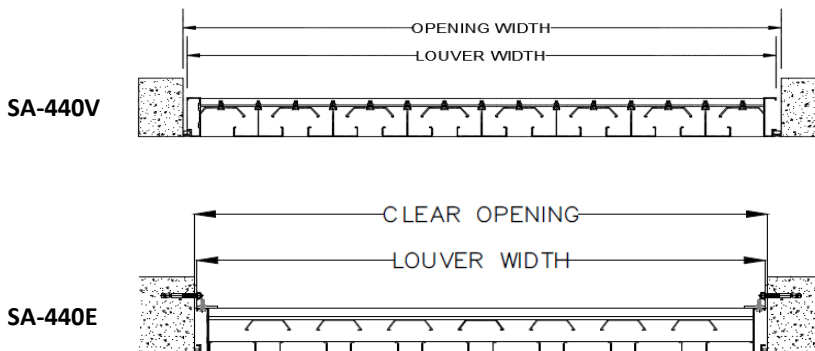
SAND GRADE	SAND REJECTION EFFICIENCY % @ Core Velocity (m/s)			
	0.5 m/s	1.0 m/s	1.3 m/s	2.0 m/s
1 - 699 microns (Standard)	88.10%	63.00%	36.60%	5.40%
355 - 425 microns (Coarse)	96.30%	89.50%	78.70%	20.10%

- SA-440VE sand trap louver is tested as per BS EN13181:2001 for sand rejection efficiency subjected to wind driven sand at an airflow speed of 20-25 m/s.
- Self Generated Noise Data Available Upon Request



SA-440V

SA-440E



System Description:

101.6mm deep extruded aluminum construction; frame with channel profile; corner joints mitered and mechanically fastened, with continuous recessed caulking channel each side; capable of long vertical spans, tested for sand rejection in accordance with BS EN 13181:2001 standards & for air performance as per AMCA 500-L99 standards.

Material & Finishes:

- SA-440VE comprises 2-rows of 100mm wide vertical sand trap blades in 101.6mm deep extruded aluminum frames. A galvanized steel option is also available. SA-440V recommended for large openings exceeding 2m in height subject to high wind pressure. SA-440E recommended for openings less than 2m in height.
 - Blades: Vertical—Sand trap
 - Frame depth: 101.6mm deep
- Metal Thickness: Frame 2mm; blades (1.6mm—2mm) options are available.
- Finish: PE-SDF / PVDF / Anodize after fabrication
- Color: As scheduled.
- Mullions: Exposed
- Screens: Bird mesh / Insect mesh
- Screen location: Interior
- Screening Material: Aluminum / Stainless Steel

Louver Construction:

- Wind Load Resistance: Design to resist +ve and –ve wind load of ___ psf (___ kPa) without damage or permanent deformation.
- Blades: One piece extrusions with reinforcing bosses, supported and lined up with heavy-gage extruded aluminum blade braces, positively interlocked to each blade and mechanically secured to structure by aluminum and stainless steel fastenings.
- Exposed edges and ends of metal dressed smooth, free from sharp edges.
- Exposed connections and joints constructed to exclude water.

Warranty:

OSA louvers warranted for 2 years against defective material and workmanship, and 20 Years for Finishes.

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FREE AREA CALCULATIONS IN FT² And M²

Louver Height in Inches and 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
Louver Width in Inches and Meters	18	0.45	0.67	0.89	1.12	1.34	1.57	1.79	2.01	2.23	2.35	2.56	2.79	3.01	3.24
	0.46	0.04	0.06	0.08	0.10	0.12	0.15	0.17	0.19	0.21	0.22	0.24	0.26	0.28	0.30
	24	0.67	1.01	1.34	1.45	1.90	2.23	2.56	2.68	3.12	3.46	3.80	4.02	4.35	4.69
	0.61	0.06	0.09	0.12	0.13	0.18	0.21	0.24	0.25	0.29	0.32	0.35	0.37	0.40	0.44
	30	0.89	1.22	1.57	1.90	2.35	2.79	3.12	3.57	3.90	4.35	4.69	5.14	5.47	5.92
	0.76	0.08	0.11	0.15	0.18	0.22	0.26	0.29	0.33	0.36	0.40	0.44	0.48	0.51	0.55
	36	1.12	1.56	2.01	2.45	2.91	3.35	3.90	4.35	4.80	5.24	5.81	6.25	6.58	7.03
	0.91	0.10	0.15	0.19	0.23	0.27	0.31	0.36	0.40	0.45	0.49	0.54	0.58	0.61	0.65
	42	1.22	1.79	2.35	2.91	3.35	4.02	4.58	5.14	5.69	6.25	6.81	7.26	7.82	8.37
	1.07	0.11	0.17	0.22	0.27	0.31	0.37	0.43	0.48	0.53	0.58	0.63	0.67	0.73	0.78
	48	1.45	2.12	2.68	3.35	4.02	4.58	5.24	5.92	6.58	7.14	7.82	8.37	9.04	9.71
	1.22	0.13	0.20	0.25	0.31	0.37	0.43	0.49	0.55	0.61	0.66	0.73	0.78	0.84	0.90
	54	1.67	2.23	3.01	3.80	4.46	5.24	6.03	6.70	7.37	8.03	8.82	9.60	10.27	11.04
	1.37	0.16	0.21	0.28	0.35	0.42	0.49	0.56	0.62	0.69	0.75	0.82	0.89	0.95	1.03
	60	1.90	2.68	3.35	4.25	5.02	5.92	6.70	7.37	8.26	9.04	9.93	10.71	11.39	12.28
	1.52	0.18	0.25	0.31	0.39	0.47	0.55	0.62	0.69	0.77	0.84	0.92	1.00	1.06	1.14
66	2.01	2.90	3.80	4.69	5.58	6.48	7.37	8.26	9.16	9.93	10.94	11.72	12.61	13.62	
1.68	0.19	0.27	0.35	0.44	0.52	0.60	0.69	0.77	0.85	0.92	1.02	1.09	1.17	1.27	
72	2.23	3.12	4.13	5.36	6.13	7.14	8.14	9.04	10.05	10.94	11.83	12.83	13.84	14.84	
1.83	0.21	0.29	0.38	0.50	0.57	0.66	0.76	0.84	0.93	1.02	1.10	1.19	1.29	1.38	
78	2.35	3.46	4.46	5.58	6.70	7.70	8.81	9.82	10.94	11.83	12.94	14.06	15.06	16.07	
1.98	0.22	0.32	0.42	0.52	0.62	0.72	0.82	0.91	1.02	1.10	1.20	1.31	1.40	1.49	
84	2.56	3.68	4.91	6.03	7.26	8.37	9.60	10.60	11.63	12.83	13.95	15.18	16.18	17.41	
2.13	0.24	0.34	0.46	0.56	0.67	0.78	0.89	0.99	1.08	1.19	1.30	1.41	1.51	1.62	
90	2.79	4.02	5.24	6.48	7.70	9.04	10.27	11.39	12.50	13.84	15.06	16.18	17.41	18.75	
2.29	0.26	0.37	0.49	0.60	0.72	0.84	0.95	1.06	1.16	1.29	1.40	1.51	1.62	1.74	
96	3.01	4.24	5.58	6.92	8.26	9.60	10.94	12.05	13.39	14.73	15.95	17.29	18.75	19.98	
2.44	0.28	0.39	0.52	0.64	0.77	0.89	1.02	1.12	1.25	1.37	1.48	1.61	1.74	1.86	

