

Model—SA-440-SL4

203.6mm DEEP SANDTRAP COMBINATION LOUVER



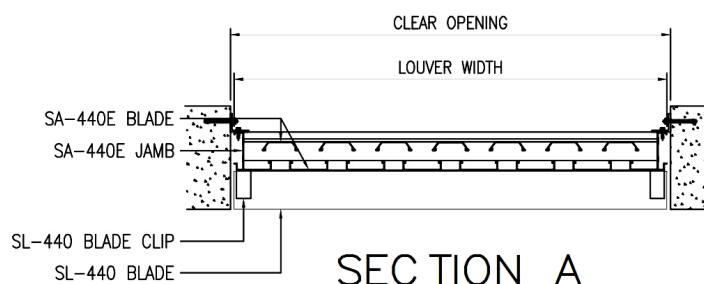
AIRFLOW PERFORMANCE:

- Free Area: 28.6%
- Beginning point of water penetration (@0.01oz / ft² of free area) - 876 fpm (4.5 m/s)
- Airflow Classification—Class 3
- Static Pressure Loss: Not more than 0.073 inch wg (18 Pa), @ 215 fpm (1.11 m/s) core velocity.

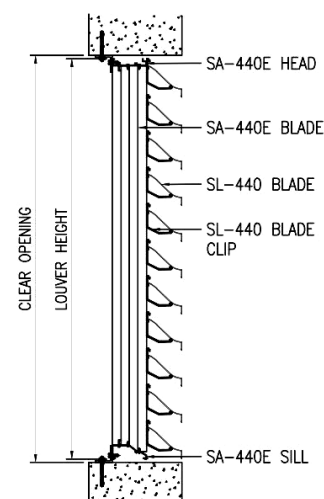
SAND REJECTION Performance:

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)	88.1%	63.0%	36.6%	5.4%
355 - 425 microns (Coarse)	96.3%	89.5%	78.7%	20.1%

SA-440VE sand louver is tested as per BS EN13181:2001, subjected to wind driven sand at an airflow speed of 20-25 m/s



SECTION A



SECTION B

System Description:

203.6mm deep extruded aluminum construction; frame with channel profile; corner joints mitered and mechanically fastened, with continuous recessed caulking channel each side; intermediate mullions matching frames; gutters rated for water penetration maintained effectiveness rate tested in accordance with AMCA 500-L. The sand trap louver blades are capable of long vertical spans, tested for sand rejection and air performance as per EN 13181:2001 standards.

Material & Finishes:

1. SA-440-SL4 comprises 101.6 mm sand trap louver core with 102 mm deep continuous horizontal fascia blades all in extruded aluminum frames. A galvanized steel option is also available.
 - a. Blades: Horizontal fixed blade in the front and vertical sand trap blade at the back
 - b. Total system depth: 203.6mm deep
2. Metal Thickness: Frame 2 mm; Horizontal Front blades 1.7mm; Vertical Rear Blades: 1.60 mm and 2 mm options are available.
3. Finish: PE-SDF / PVDF / Anodized
4. Color: As scheduled.
5. Mullions: Concealed or Exposed
6. Screens: Bird mesh / Insect mesh
7. Screen location: Interior
8. Screening Material: Aluminium / Stainless Steel

Louver Construction:

1. Wind Load Resistance: Design to resist +ve and -ve wind load of ___ psf (___ kPa) without damage or permanent deformation.
2. 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.
3. Exposed edges and ends of metal dressed smooth, free from sharp edges.
4. 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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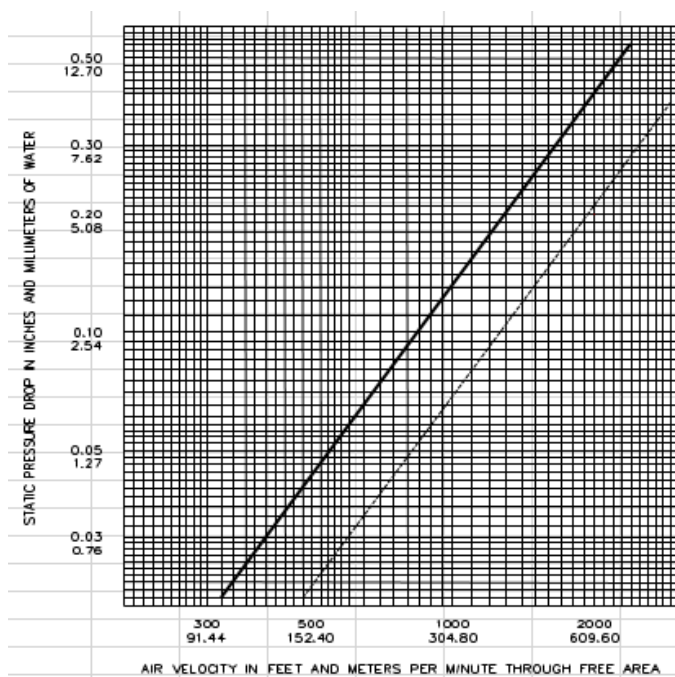
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FREE AREA CALCULATIONS IN FT² And M²

Louver Height in Inches and Meters

	Louver Height in Inches and Meters													
	18	24	30	36	42	48	54	60	66	72	78	84	90	96
Louver Width in Inches and Meters	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
	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
18	0.48	0.68	0.87	1.07	1.26	1.46	1.65	1.85	2.04	2.24	2.43	2.63	2.82	3.02
0.46	0.04	0.06	0.08	0.10	0.12	0.14	0.15	0.17	0.19	0.21	0.23	0.24	0.26	0.28
24	0.72	1.01	1.31	1.60	1.89	2.18	2.48	2.77	3.06	3.35	3.65	3.94	4.23	4.52
0.61	0.07	0.09	0.12	0.15	0.18	0.20	0.23	0.26	0.28	0.31	0.34	0.37	0.39	0.42
30	0.84	1.18	1.52	1.87	2.21	2.55	2.89	3.23	3.57	3.91	4.25	4.60	4.94	5.28
0.76	0.08	0.11	0.14	0.17	0.20	0.24	0.27	0.30	0.33	0.36	0.40	0.43	0.46	0.49
36	1.08	1.52	1.96	2.40	2.84	3.28	3.71	4.15	4.59	5.03	5.47	5.91	6.35	6.79
0.91	0.10	0.14	0.18	0.22	0.26	0.30	0.35	0.39	0.43	0.47	0.51	0.55	0.59	0.63
42	1.20	1.69	2.18	2.66	3.15	3.64	4.13	4.62	5.10	5.59	6.08	6.57	7.05	7.54
1.07	0.11	0.16	0.20	0.25	0.29	0.34	0.38	0.43	0.47	0.52	0.56	0.61	0.66	0.70
48	1.44	2.03	2.61	3.20	3.78	4.37	4.95	5.54	6.12	6.71	7.29	7.88	8.46	9.05
1.22	0.13	0.19	0.24	0.30	0.35	0.41	0.46	0.51	0.57	0.62	0.68	0.73	0.79	0.84
54	1.56	2.20	2.83	3.46	4.10	4.73	5.37	6.00	6.63	7.27	7.90	8.54	9.17	9.80
1.37	0.15	0.20	0.26	0.32	0.38	0.44	0.50	0.56	0.62	0.68	0.73	0.79	0.85	0.91
60	1.80	2.53	3.27	4.00	4.73	5.46	6.19	6.92	7.65	8.39	9.12	9.85	10.58	11.31
1.52	0.17	0.24	0.30	0.37	0.44	0.51	0.58	0.64	0.71	0.78	0.85	0.92	0.98	1.05
66	1.92	2.70	3.48	4.26	5.04	5.82	6.60	7.38	8.16	8.94	9.73	10.51	11.29	12.07
1.68	0.18	0.25	0.32	0.40	0.47	0.54	0.61	0.69	0.76	0.83	0.90	0.98	1.05	1.12
72	2.16	3.04	3.92	4.80	5.67	6.55	7.43	8.31	9.19	10.06	10.94	11.82	12.70	13.57
1.83	0.20	0.28	0.36	0.45	0.53	0.61	0.69	0.77	0.85	0.93	1.02	1.10	1.18	1.26
78	2.28	3.21	4.14	5.06	5.99	6.92	7.84	8.77	9.70	10.62	11.55	12.48	13.40	14.33
1.98	0.21	0.30	0.38	0.47	0.56	0.64	0.73	0.81	0.90	0.99	1.07	1.16	1.25	1.33
84	2.52	3.55	4.57	5.60	6.62	7.64	8.67	9.69	10.72	11.74	12.76	13.79	14.81	15.84
2.13	0.23	0.33	0.42	0.52	0.61	0.71	0.81	0.90	1.00	1.09	1.19	1.28	1.38	1.47
90	2.64	3.72	4.79	5.86	6.93	8.01	9.08	10.15	11.23	12.30	13.37	14.45	15.52	16.59
2.29	0.25	0.35	0.44	0.54	0.64	0.74	0.84	0.94	1.04	1.14	1.24	1.34	1.44	1.54
96	2.88	4.05	5.22	6.39	7.57	8.74	9.91	11.08	12.25	13.42	14.59	15.76	16.93	18.10
2.44	0.27	0.38	0.49	0.59	0.70	0.81	0.92	1.03	1.14	1.25	1.36	1.46	1.57	1.68



NOTE: GRAPHS BASED ON

— INTAKE PRESSURE DROP PER AMCA STANDARD 500L-99

..... INTAKE PRESSURE DROP PER AMCA STANDARD INLET DUCT