

## SAND TRAP LOUVER

### *8" Deep Frame*

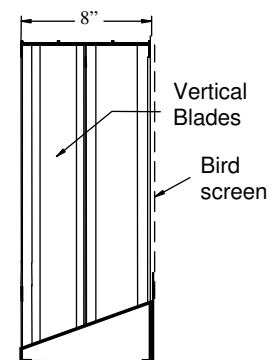
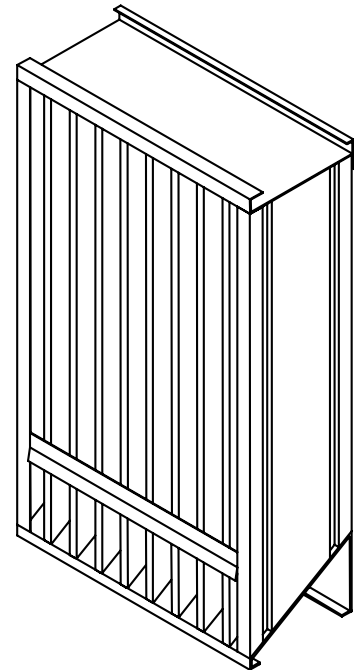
### DESCRIPTION

STL-8 heavy duty sand louvers are designed for removal of wind driven sand particles. The STL-8 is designed to capture sand and dust particles and remove them without the need for bleed fans to eliminate the collected sand. The STL-8 is 99% efficient at free area velocities 3 to 4 times higher than other sand elimination products.

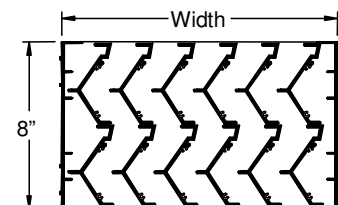
The double vertical sight proof blades provide 53% free area, maximum elimination, minimum pressure drop and architecturally pleasing appearance.

### STANDARD CONSTRUCTION

- Frame:** 0.81" (2.0 mm) thick extruded aluminum  
8" (203 mm) deep
- Blades:** 0.81" (2.0 mm) thick extruded aluminum  
Double vertical, sight proof
- Screen:** Removable expanded aluminium bird screen.  
Located on interior
- Construction:** Welded Construction
- Finish:** Mill with touch up on welds
- Dimensions:** Minimum size: 12" (305 mm) x 12" (305 mm)  
Maximum size: 96" (2438 mm) x 120" (3048 mm)  
Multiple section sizes available  
"W" (width) and "H" (height) are opening sizes.  
Louvers are made 6 mm undersized.



**Vertical Section**



**Horizontal Section**

### OPTIONS

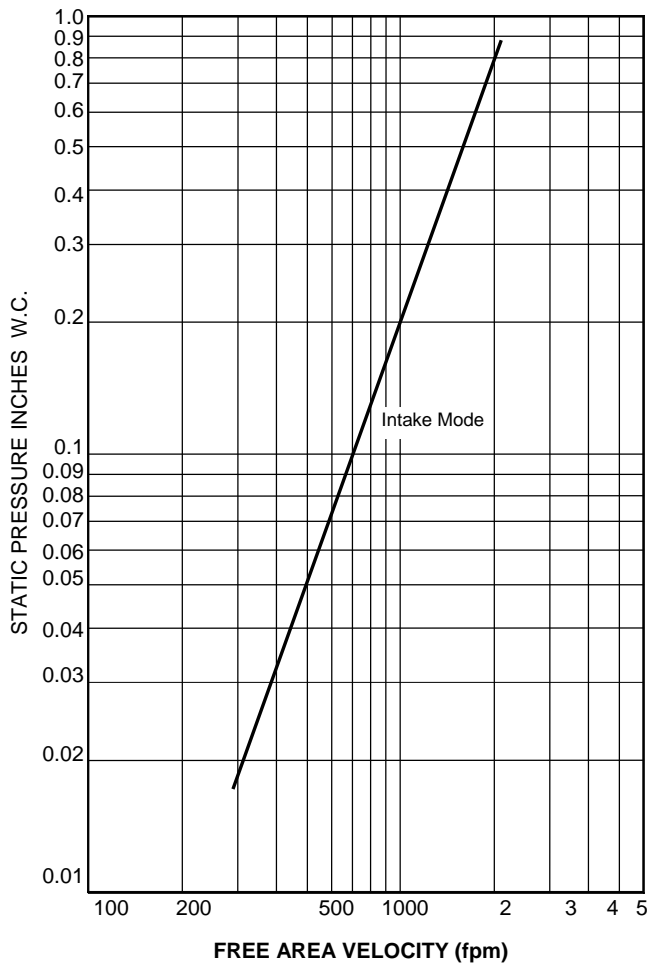
- Bird or Insect Screen
- Flanged Frame
- Filter Rack
- Washable Filters
- Hinged Frame
- Clip Angles
- Selection of Finishes: Super Durable Powder coatings, Kynar/PVF and anodized.

# STL-8 Performance Data

Below STL-8 performance charts are based on tests performed at Cert-Aire Laboratory at Arlington Heights, Illinois based on AMCA Publication 511 for Air Performance and Water Penetration and ASHRAE Standard 52-76 for sand removal.

FREE AREA CALCULATIONS IN SQ. FT.																			
Inches	WIDTH																		
	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

**AIR PERFORMANCE**



**SAND REMOVAL EFFICIENCY**

Pressure Drop	.10" wg.	.20" wg.	.30" wg.
Free Area Velocity	700 fpm	1000 fpm	1400 fpm
Sand Particle Size	Removal Efficiency	Removal Efficiency	Removal Efficiency
1-100 MICRON	96 %	86 %	75%
1100 – 1500 MICRON	99.90%	99.80%	99.3%
24" x 24" Test Sample			

# STL-8 Sand Storm Louver Features and Specifications

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- 53% Free Area, 1200 x 1200 mm Test Size
- Low pressure drop, tested in accordance with AMCA Publication 511
- Tested for Sand Removal Efficiencies at up to 1400 fpm Velocity.
- Sand efficiency removal of approximately 99% measured during tests described in ASHRAE Standard 52-76 test method.
- Sight proof design.
- Withstand a basic wind speed of 145 KPH (equivalent of a wind load of 0.96 kPa)

Published performance charts are based on tests performed at Cert-Aire Laboratory at Arlington Heights, Illinois based on AMCA Publication 511 for Air Performance and Water Penetration and ASHRAE Standard 52-76 for sand removal.

TAG	QUANTITY	DIMENSIONS		OPTIONS
		WIDTH	HEIGHT	
<b>PROJECT</b>				
<b>LOCATION</b>				
<b>CONTRACTOR</b>		<b>DATE</b>		

