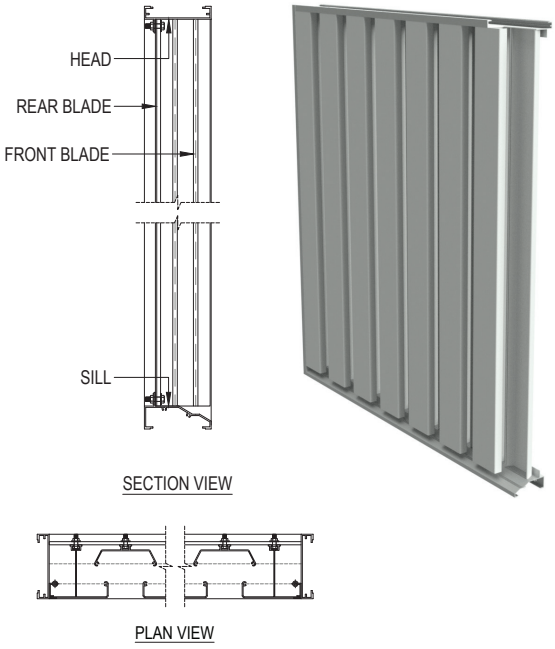
Model S-4775
4" (101.6 mm) Sand Trap Louver

Material:

Material:	6063 Aluminum Alloy mechanically fastened with stainless steel or aluminum fasteners.
Nominal Thickness (heads, sills, jambs, & mullions):	0.079" (2.00 mm)
Nominal Blade Thickness:	0.059" (1.50mm)
Furnished With:	5/8" (15.87 mm) flattened expended mesh, aluminum bird screen with a 0.055" (1.4 mm) thick extruded aluminum frame
Additional Options (at additional cost):	Insect screen (in lieu of bird screen), Continuous clip angles for attachment Sheet blank off, Insulated blank off Sill pans, Flange frames Integrated glazing frames



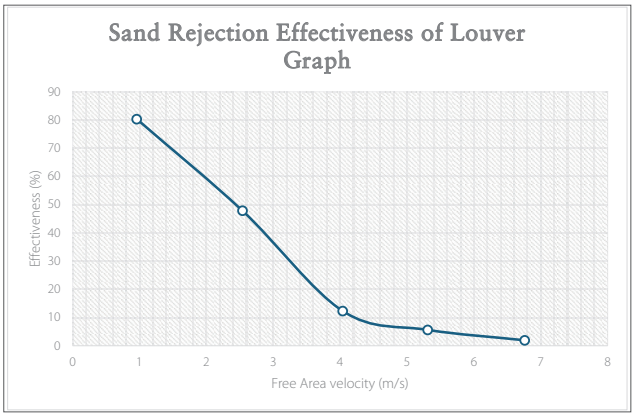
Test Summary:
For a 4 Foot by 4 Foot (1.22m x 1.22m) Unit.
Tested with mill finish and no screen

- Free area = 4.68 ft² (0.44 m²)
- Percent free area = 30%
- Recommended air intake velocity = 728 FPM (3.7 m/s)
- Intake pressure drop at 728 FPM free area velocity = 0.16in. H_2O (39.86 Pa)
- Exhaust pressure drop at 728 FPM free area velocity =0.191in. H_2O (47.61Pa)

SAND REJECTION PERFORMANCE: *The sand rejection performance is based on a 48" x 48" (1.22 m x 1.22 m) louver area tested per AMCA 500-L, Ventilation for buildings – Terminals – Performance testing of louvers subject to simulation sand at an airflow speed of 20-25 m/s. The sand used throughout the wind driven sand test procedure shall be dry and conform to a mixture of the nine size gradings specified in AMCA 511, Section 10, Table 4.*

Construction Specialties Middle East LLC certifies that the louver model S-4775 shown herein is licensed to bear the AMCA Certified Ratings Program 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 Wind Driven Sand and Air Performance ratings.

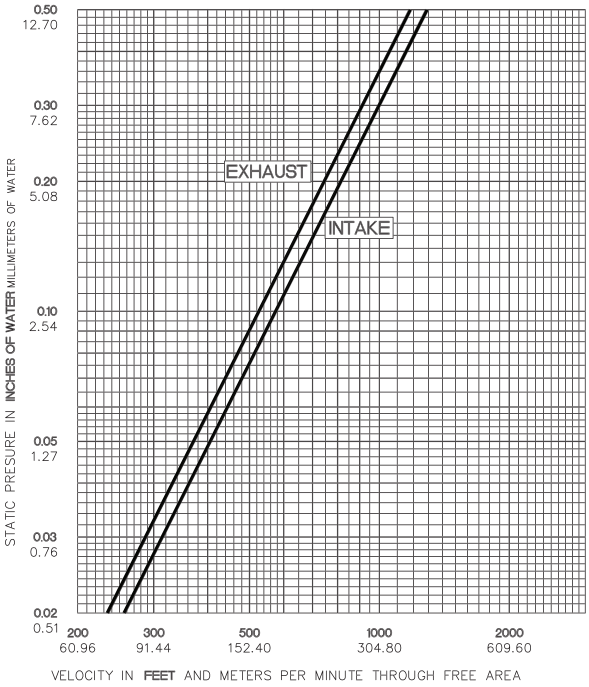
Sand Rejection Effectiveness of Louver					
Free Area Velocity, m/s	Weight of Sand, kg	Discharge Duration, s	Sand Feed-rate, kg/s	Rejection Effectiveness	Effectiveness Class
1	1	200	0.005	80	B
2.5	1	75	0.013	49	D
4	2	100	0.020	13	D
5.5	2	70	0.029	5	D
7	2	60	0.033	1	D



Model S-4775
4" (101.6 mm) Sand Trap Louver

Air Performance

Unit test size (48″ x 48″)
Airflow rate at standard air density and the AMCA figure 5.5



Air Velocity through Free Area (FPM)
Data corrected to standard air density.

Free Area Table (Free area in **sq. feet** and sq. meters)

Width in Inches and Meters

Height in Inches and Meters

	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
	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**	**2.59**	**2.74**	**2.9**	**3.05**
18	0.46	0.65	0.87	1.09	1.31	1.53	1.74	1.96	2.18	2.40	2.62	2.84	3.05	3.27	3.49	3.71	3.93	4.14
0.46	**0.04**	**0.06**	**0.08**	**0.10**	**0.12**	**0.14**	**0.16**	**0.18**	**0.20**	**0.22**	**0.24**	**0.26**	**0.28**	**0.30**	**0.32**	**0.34**	**0.36**	**0.38**
24	0.65	0.92	1.23	1.54	1.84	2.15	2.46	2.76	3.07	3.38	3.69	3.99	4.30	4.61	4.91	5.22	5.53	5.84
0.61	**0.06**	**0.09**	**0.11**	**0.14**	**0.17**	**0.20**	**0.23**	**0.26**	**0.29**	**0.31**	**0.34**	**0.37**	**0.40**	**0.43**	**0.46**	**0.49**	**0.51**	**0.54**
30	0.84	1.19	1.58	1.98	2.38	2.77	3.17	3.57	3.96	4.36	4.75	5.15	5.55	5.94	6.34	6.74	7.13	7.53
0.76	**0.08**	**0.11**	**0.15**	**0.18**	**0.22**	**0.26**	**0.29**	**0.33**	**0.37**	**0.40**	**0.44**	**0.48**	**0.52**	**0.55**	**0.59**	**0.63**	**0.66**	**0.70**
36	1.03	1.46	1.94	2.43	2.91	3.40	3.88	4.37	4.85	5.34	5.82	6.31	6.79	7.28	7.76	8.25	8.73	9.22
0.91	**0.10**	**0.14**	**0.18**	**0.23**	**0.27**	**0.32**	**0.36**	**0.41**	**0.45**	**0.50**	**0.54**	**0.59**	**0.63**	**0.68**	**0.72**	**0.77**	**0.81**	**0.86**
42	1.23	1.74	2.32	2.90	3.48	4.06	4.64	5.22	5.80	6.38	6.96	7.54	8.12	8.70	9.28	9.86	10.44	11.02
1.07	**0.11**	**0.16**	**0.22**	**0.27**	**0.32**	**0.38**	**0.43**	**0.49**	**0.54**	**0.59**	**0.65**	**0.70**	**0.75**	**0.81**	**0.86**	**0.92**	**0.97**	**1.02**
48	1.42	2.01	2.68	3.35	4.02	4.68	5.35	6.02	6.69	7.36	8.03	8.70	9.37	10.04	10.71	11.38	12.05	12.72
1.22	**0.13**	**0.19**	**0.25**	**0.31**	**0.37**	**0.44**	**0.50**	**0.56**	**0.62**	**0.68**	**0.75**	**0.81**	**0.87**	**0.93**	**0.99**	**1.06**	**1.12**	**1.18**
54	1.61	2.28	3.03	3.79	4.55	5.31	6.07	6.82	7.58	8.34	9.10	9.86	10.62	11.37	12.13	12.89	13.65	14.41
1.37	**0.15**	**0.21**	**0.28**	**0.35**	**0.42**	**0.49**	**0.56**	**0.63**	**0.70**	**0.77**	**0.85**	**0.92**	**0.99**	**1.06**	**1.13**	**1.20**	**1.27**	**1.34**
60	1.74	2.46	3.27	4.09	4.91	5.72	6.54	7.36	8.18	8.99	9.81	10.63	11.45	12.26	13.08	13.90	14.72	15.54
1.52	**0.16**	**0.23**	**0.30**	**0.38**	**0.46**	**0.53**	**0.61**	**0.68**	**0.76**	**0.84**	**0.91**	**0.99**	**1.06**	**1.14**	**1.22**	**1.29**	**1.37**	**1.44**
66	1.94	2.74	3.65	4.56	5.48	6.39	7.30	8.21	9.13	10.04	10.95	11.86	12.78	13.69	14.60	15.51	16.43	17.34
1.68	**0.18**	**0.25**	**0.34**	**0.42**	**0.51**	**0.59**	**0.68**	**0.76**	**0.85**	**0.93**	**1.02**	**1.10**	**1.19**	**1.27**	**1.36**	**1.44**	**1.53**	**1.61**
72	2.13	3.01	4.01	5.01	6.01	7.01	8.01	9.02	10.02	11.02	12.02	13.02	14.02	15.03	16.03	17.03	18.03	19.03
1.83	**0.20**	**0.28**	**0.37**	**0.47**	**0.56**	**0.65**	**0.74**	**0.84**	**0.93**	**1.02**	**1.12**	**1.21**	**1.30**	**1.40**	**1.49**	**1.58**	**1.68**	**1.77**
78	2.32	3.28	4.36	5.45	6.54	7.64	8.73	9.82	10.91	12.00	13.09	14.18	15.27	16.36	17.45	18.54	19.63	20.72
1.98	**0.22**	**0.30**	**0.41**	**0.51**	**0.61**	**0.71**	**0.81**	**0.91**	**1.01**	**1.11**	**1.22**	**1.32**	**1.42**	**1.52**	**1.62**	**1.72**	**1.82**	**1.93**
84	2.51	3.54	4.72	5.90	7.08	8.26	9.44	10.62	11.80	12.98	14.16	15.34	16.52	17.70	18.88	20.06	21.24	22.42
2.13	**0.23**	**0.33**	**0.44**	**0.55**	**0.66**	**0.77**	**0.88**	**0.99**	**1.10**	**1.21**	**1.32**	**1.42**	**1.53**	**1.64**	**1.75**	**1.86**	**1.97**	**2.08**
90	2.71	3.83	5.10	6.37	7.65	8.92	10.20	11.47	12.75	14.02	15.30	16.57	17.85	19.12	20.40	21.67	22.95	24.22
2.29	**0.25**	**0.36**	**0.47**	**0.59**	**0.71**	**0.83**	**0.95**	**1.07**	**1.18**	**1.30**	**1.42**	**1.54**	**1.66**	**1.78**	**1.89**	**2.01**	**2.13**	**2.25**
96	2.90	4.10	5.46	6.82	8.18	9.55	10.91	12.27	13.64	15.00	16.37	17.73	19.09	20.46	21.82	23.18	24.55	25.91
2.44	**0.27**	**0.38**	**0.51**	**0.63**	**0.76**	**0.89**	**1.01**	**1.14**	**1.27**	**1.39**	**1.52**	**1.65**	**1.77**	**1.90**	**2.03**	**2.15**	**2.28**	**2.41**
102	3.09	4.36	5.81	7.26	8.72	10.17	11.62	13.08	14.53	15.98	17.43	18.89	20.34	21.79	23.25	24.70	26.15	27.60
2.59	**0.29**	**0.41**	**0.54**	**0.67**	**0.81**	**0.94**	**1.08**	**1.21**	**1.35**	**1.48**	**1.62**	**1.75**	**1.89**	**2.02**	**2.16**	**2.29**	**2.43**	**2.56**
108	3.28	4.63	6.17	7.71	9.25	10.79	12.34	13.88	15.42	16.96	18.50	20.04	21.59	23.13	24.67	26.21	27.75	29.30
2.74	**0.30**	**0.43**	**0.57**	**0.72**	**0.86**	**1.00**	**1.15**	**1.29**	**1.43**	**1.58**	**1.72**	**1.86**	**2.01**	**2.15**	**2.29**	**2.44**	**2.58**	**2.72**
114	3.48	4.92	6.55	8.18	9.82	11.46	13.09	14.73	16.37	18.01	19.64	21.28	22.92	24.55	26.19	27.83	29.46	31.10
2.9	**0.32**	**0.46**	**0.61**	**0.76**	**0.91**	**1.06**	**1.22**	**1.37**	**1.52**	**1.67**	**1.82**	**1.98**	**2.13**	**2.28**	**2.43**	**2.59**	**2.74**	**2.89**
120	3.67	5.18	6.90	8.63	10.36	12.08	13.81	15.53	17.26	18.99	20.71	22.44	24.16	25.89	27.61	29.34	31.07	32.79
3.05	**0.34**	**0.48**	**0.64**	**0.80**	**0.96**	**1.12**	**1.28**	**1.44**	**1.60**	**1.76**	**1.92**	**2.08**	**2.24**	**2.41**	**2.57**	**2.73**	**2.89**	**3.05**
126	3.80	5.36	7.14	8.93	10.71	12.50	14.28	16.07	17.85	19.64	21.42	23.21	24.99	26.78	28.56	30.35	32.14	33.92
3.2	**0.35**	**0.50**	**0.66**	**0.83**	**1.00**	**1.16**	**1.33**	**1.49**	**1.66**	**1.82**	**1.99**	**2.16**	**2.32**	**2.49**	**2.65**	**2.82**	**2.99**	**3.15**
132	3.99	5.63	7.50	9.37	11.25	13.12	14.99	16.87	18.74	20.62	22.49	24.37	26.24	28.11	29.99	31.86	33.74	35.61
3.35	**0.37**	**0.52**	**0.70**	**0.87**	**1.04**	**1.22**	**1.39**	**1.57**	**1.74**	**1.92**	**2.09**	**2.26**	**2.44**	**2.61**	**2.79**	**2.96**	**3.13**	**3.31**
138	4.19	5.91	7.88	9.85	11.82	13.79	15.75	17.72	19.69	21.66	23.63	25.60	27.57	29.54	31.51	33.48	35.45	37.42
3.51	**0.389**	**0.549**	**0.732**	**0.915**	**1.098**	**1.281**	**1.464**	**1.647**	**1.83**	**2.013**	**2.195**	**2.378**	**2.561**	**2.744**	**2.927**	**3.11**	**3.293**	**3.476**

Upper Numerals English Units/Lower Numerals Metric Units

