

Construction Specialties Middle East LLC certifies that Model RSV-5700 shown herein 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 wind driven rain and air performance ratings only.

DESIGN DATA:

To maintain a **CLASS A (99%) effectiveness rating** with a 29.1 mph wind speed an rainfall rate of 3 in/hr

- Maximum intake core velocity 5.0 m/s (986 FPM)
- Maximum intake free area velocity 10.0 m/s (1,956 FPM)

To maintain a **CLASS A (99%) effectiveness rating** with a 50 mph wind speed an rainfall rate of 8 in/hr

- Maximum intake core velocity 4.5 m/s (856 FPM)
- Maximum intake free area velocity 8.6 m/s (1,698 FPM)

*louver tested with 1m² core area, mill finish and no screen



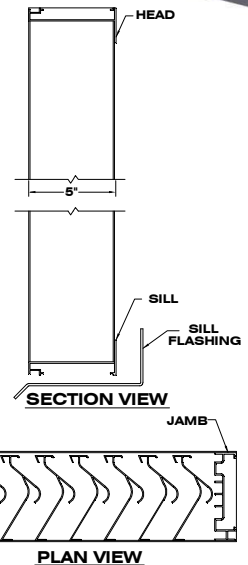
SUGGESTED SPECIFICATIONS:

GENERAL: Furnish and install where indicated on the drawings C/S 5” (127.0 mm) STORM RESISTANT FIXED VERTICAL LOUVER **MODEL RSV-5700** as manufactured by Construction Specialties Middle East LLC, Dubai UAE. Complete details shall be submitted to the architect for approval prior to fabrication.

MATERIAL: Frames and blades to be fabricated from 6063-T6 aluminum alloy. Blades to be minimum 0.060” (1.52mm) thick and frames to be minimum 0.075” (1.91 mm) thick. Louver to be mechanically fastened using stainless steel or aluminum fasteners. Louvers to be supplied with 4” (101.6 mm) high by full depth sill flashing formed from minimum 0.050” (1.27 mm) thick aluminum. Sill flashing to have welded side panels. Louvers and sill flashing to be installed in accordance with the manufacturer’s recommended procedures to ensure complete water integrity performance of louver system. All louvers to be furnished with 5/8” (15.87 mm) flattened expanded mesh, aluminum bird screen with a .055” (1.4 mm) thick extruded aluminum frame.

STRUCTURAL DESIGN: Structural supports shall be designed and furnished by the louver manufacturer to carry a wind load of not less than _____psf. (kPa). (Note: If this paragraph is omitted or if the design wind load is not specified, the louvers will be manufactured in self supporting units up to a maximum of 5’ (1524 mm) wide by 8’ (2438 mm) high. Any additional structural supports required to adequately secure these units within the opening shall be the responsibility of others.)

FINISH: All louvers shall be finished with C/S Powder Coat, a coating to be 1.5 to 3 mil. thick full strength **100% resin Fluoropolymer coating. Finish to allow zero VOCs** to be emitted into facility of application. Finish to adhere to a 4H Hardness rating. All finishing procedures shall be one continuous operation in the plant of the manufacturer. **The coating shall meet or exceed all requirements of AAMA specification 2605** “Voluntary Specification for High Performance Organic Coatings on Architectural extrusions and Panels.” The louver manufacturer shall supply an industry standard **20-year limited warranty against failure or excessive fading** of the Fluoropolymer Powder Coat finish. This limited warranty shall begin on the date of material shipment.



WIND DRIVEN RAIN PERFORMANCE:

The louver test was based on a 39.370” (1.00 m) x 39.370” (1.00 m) core area unit tested at a rainfall rate of 3” per hour (75 mm/hr) and with a wind directed to the face of the louver at a velocity of 29.1-mph (13 m/s) as well as a rainfall rate of 8” per hour (203mm) and wind directed at the face of the louver at a velocity of 50.0 mph (22.3 m/s). The test data shall show the water penetration effectiveness rating at each corresponding ventilation rate.

Discharge Coefficient

Intake Cd = 0.33 (Class 2)

AMCA certifies the coefficient class only

Core Ventilation Rate (m/s):	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
Core Ventilation Rate (ft/min) 29 & 3:	0	132	197	287	380	472	587	680	780	874	986
Free Area Velocity (ft/min) 29 & 3:	0	261	391	569	754	937	1165	1349	1548	1734	1956
Rating Effectiveness @ 29 & 3	A	A	A	A	A	A	A	A	A	A	A
Effectiveness Ratio @ 29 & 3 (%)										100	99.8
Core Ventilation Rate (ft/min) 50 & 8:	0	96	194	284	400	496	571	676	782	856	977
Free Area Velocity (ft/min) 50 & 8:	0	190	385	563	794	984	1133	1341	1552	1698	1939
Rating Effectiveness @ 50 & 8	A	A	A	A	A	A	A	A	A	A	B
Effectiveness Ratio @ 50 & 8 (%)								99.7	99.5	99.1	98.2
Effectiveness Rating:	A = 1 to 0.99		B = 0.989 to 0.95		C = 0.949 to 0.80		D = 0.799 to 0				

To download details and specifications visit www.c-sgroup.me. For technical and design assistance call +971 4 331 2167

PERFORMANCE DATA MODEL RSV-5700

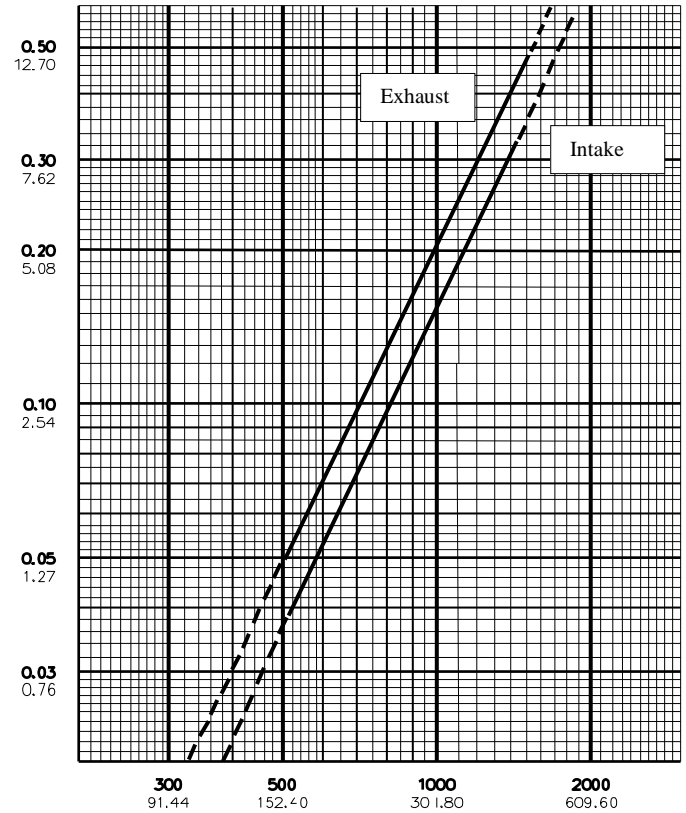
FREE AREAS IN SQ. FEET AND SQ. METERS

Width in Inches and Meters

	18	24	30	36	42	48	54	60	66	72	78	84	90
	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
18	0.81	1.11	1.42	1.72	2.03	2.33	2.64	2.94	3.25	3.55	3.85	4.16	4.36
0.46	0.07	0.10	0.13	0.16	0.19	0.22	0.24	0.27	0.30	0.33	0.36	0.39	0.41
24	1.15	1.59	2.02	2.46	2.89	3.33	3.76	4.20	4.64	5.07	5.51	5.94	6.24
0.61	0.11	0.15	0.19	0.23	0.27	0.31	0.35	0.39	0.43	0.47	0.51	0.55	0.58
30	1.50	2.06	2.63	3.20	3.76	4.33	4.89	5.46	6.03	6.59	7.16	7.72	8.11
0.76	0.14	0.19	0.24	0.30	0.35	0.40	0.45	0.51	0.56	0.61	0.67	0.72	0.75
36	1.84	2.54	3.24	3.93	4.63	5.33	6.02	6.72	7.42	8.11	8.81	9.51	9.98
0.91	0.17	0.24	0.30	0.37	0.43	0.49	0.56	0.62	0.69	0.75	0.82	0.88	0.93
42	2.19	3.02	3.84	4.67	5.50	6.33	7.15	7.98	8.81	9.64	10.46	11.29	11.85
1.07	0.20	0.28	0.36	0.43	0.51	0.59	0.66	0.74	0.82	0.90	0.97	1.05	1.10
48	2.53	3.49	4.45	5.41	6.37	7.32	8.28	9.24	10.20	11.16	12.11	13.07	13.72
1.22	0.24	0.32	0.41	0.50	0.59	0.68	0.77	0.86	0.95	1.04	1.13	1.21	1.27
54	2.88	3.97	5.06	6.15	7.23	8.32	9.41	10.50	11.59	12.68	13.77	14.86	15.59
1.37	0.27	0.37	0.47	0.57	0.67	0.77	0.87	0.98	1.08	1.18	1.28	1.38	1.45
60	3.23	4.45	5.66	6.88	8.10	9.32	10.54	11.76	12.98	14.20	15.42	16.64	17.46
1.52	0.30	0.41	0.53	0.64	0.75	0.87	0.98	1.09	1.21	1.32	1.43	1.55	1.62
66	3.57	4.92	6.27	7.62	8.97	10.32	11.67	13.02	14.37	15.72	17.07	18.42	19.33
1.68	0.33	0.46	0.58	0.71	0.83	0.96	1.08	1.21	1.34	1.46	1.59	1.71	1.80
72	3.92	5.40	6.88	8.36	9.84	11.32	12.80	14.28	15.76	17.24	18.72	20.20	21.20
1.83	0.36	0.50	0.64	0.78	0.91	1.05	1.19	1.33	1.46	1.60	1.74	1.88	1.97
78	4.26	5.87	7.49	9.10	10.71	12.32	13.93	15.54	17.15	18.76	20.37	21.99	23.07
1.98	0.40	0.55	0.70	0.85	0.99	1.14	1.29	1.44	1.59	1.74	1.89	2.04	2.14
84	4.61	6.35	8.09	9.83	11.58	13.32	15.06	16.80	18.54	20.29	22.03	23.77	24.94
2.13	0.43	0.59	0.75	0.91	1.08	1.24	1.40	1.56	1.72	1.88	2.05	2.21	2.32
90	4.95	6.83	8.70	10.57	12.44	14.32	16.19	18.06	19.93	21.81	23.68	25.55	26.81
2.29	0.46	0.63	0.81	0.98	1.16	1.33	1.50	1.68	1.85	2.03	2.20	2.37	2.49
96	5.30	7.30	9.31	11.31	13.31	15.32	17.32	19.32	21.32	23.33	25.33	27.33	28.68
2.44	0.49	0.68	0.86	1.05	1.24	1.42	1.61	1.80	1.98	2.17	2.35	2.54	2.66
102	5.65	7.78	9.91	12.05	14.18	16.31	18.45	20.58	22.72	24.85	26.98	29.12	30.55
2.59	0.52	0.72	0.92	1.12	1.32	1.52	1.71	1.91	2.11	2.31	2.51	2.71	2.84
108	5.99	8.26	10.52	12.78	15.05	17.31	19.58	21.84	24.11	26.37	28.64	30.90	32.42
2.74	0.56	0.77	0.98	1.19	1.40	1.61	1.82	2.03	2.24	2.45	2.66	2.87	3.01
114	6.34	8.73	11.13	13.52	15.92	18.31	20.71	23.10	25.50	27.89	30.29	32.68	34.29
2.90	0.59	0.81	1.03	1.26	1.48	1.70	1.92	2.15	2.37	2.59	2.81	3.04	3.19
120	6.68	9.21	11.73	14.26	16.79	19.31	21.84	24.36	26.89	29.41	31.94	34.46	36.16
3.05	0.62	0.86	1.09	1.32	1.56	1.79	2.03	2.26	2.50	2.73	2.97	3.20	3.36
126	7.03	9.68	12.34	15.00	17.65	20.31	22.97	25.62	28.28	30.93	33.59	36.25	38.03
3.20	0.65	0.90	1.15	1.39	1.64	1.89	2.13	2.38	2.63	2.87	3.12	3.37	3.53
132	7.37	10.16	12.95	15.73	18.52	21.31	24.10	26.88	29.67	32.46	35.24	38.03	39.91
3.35	0.69	0.94	1.20	1.46	1.72	1.98	2.24	2.50	2.76	3.02	3.27	3.53	3.71
138	7.72	10.64	13.55	16.47	19.39	22.31	25.22	28.14	31.06	33.98	36.90	39.81	41.78
3.51	0.72	0.99	1.26	1.53	1.80	2.07	2.34	2.61	2.89	3.16	3.43	3.70	3.88
144	8.07	11.11	14.16	17.21	20.26	23.31	26.35	29.40	32.45	35.50	38.55	41.60	43.65
3.66	0.75	1.03	1.32	1.60	1.88	2.17	2.45	2.73	3.01	3.30	3.58	3.86	4.05
150	8.41	11.59	14.77	17.95	21.13	24.30	27.48	30.66	33.84	37.02	40.20	43.38	45.52
3.81	0.78	1.08	1.37	1.67	1.96	2.26	2.55	2.85	3.14	3.44	3.73	4.03	4.23
156	8.76	12.07	15.38	18.68	21.99	25.30	28.61	31.92	35.23	38.54	41.85	45.16	47.39
3.96	0.81	1.12	1.43	1.74	2.04	2.35	2.66	2.97	3.27	3.58	3.89	4.20	4.40
162	9.10	12.54	15.98	19.42	22.86	26.30	29.74	33.18	36.62	40.06	43.50	46.94	49.26
4.11	0.85	1.17	1.48	1.80	2.12	2.44	2.76	3.08	3.40	3.72	4.04	4.36	4.58
168	9.45	13.02	16.59	20.16	23.73	27.30	30.87	34.44	38.01	41.58	45.16	48.73	51.13
4.27	0.88	1.21	1.54	1.87	2.20	2.54	2.87	3.20	3.53	3.86	4.20	4.53	4.75
174	9.79	13.49	17.20	20.90	24.60	28.30	32.00	35.70	39.40	43.11	46.81	50.51	53.00
4.42	0.91	1.25	1.60	1.94	2.29	2.63	2.97	3.32	3.66	4.00	4.35	4.69	4.92
180	10.14	13.97	17.80	21.64	25.47	29.30	33.13	36.96	40.80	44.63	48.46	52.29	54.87
4.57	0.94	1.30	1.65	2.01	2.37	2.72	3.08	3.43	3.79	4.15	4.50	4.86	5.10
186	10.48	14.45	18.41	22.37	26.34	30.30	34.26	38.22	42.19	46.15	50.11	54.07	56.74
4.72	0.97	1.34	1.71	2.08	2.45	2.81	3.18	3.55	3.92	4.29	4.66	5.02	5.27
192	10.83	14.92	19.02	23.11	27.20	31.30	35.39	39.48	43.58	47.67	51.76	55.86	58.61
4.88	1.01	1.39	1.77	2.15	2.53	2.91	3.29	3.67	4.05	4.43	4.81	5.19	5.45
198	11.18	15.40	19.62	23.85	28.07	32.30	36.52	40.74	44.97	49.19	53.42	57.64	60.48
5.03	1.04	1.43	1.82	2.22	2.61	3.00	3.39	3.79	4.18	4.57	4.96	5.35	5.62

Height in Inches and Meters

STATIC PRESSURE DROP IN INCHES AND MILLIMETERS OF WATER



AIR VELOCITY IN FEET AND METERS PER MINUTE THROUGH FREE AREA

For a 48" X 48" sized louver
For a 48" X 48" sized louver tested to figure 5.5.
Data corrected to standard air density.

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Upper Numerals English Units/Lower Numerals Metric Units