

Construction Specialties Inc. 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 (977 FPM)
- Maximum intake free area velocity 9.9 m/s (1,939 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 (1,699 FPM)

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



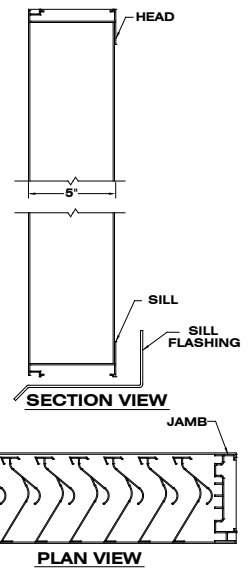
SUGGESTED SPECIFICATIONS:

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, Inc., Cranford, NJ or Mississauga, Ontario. 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 2605-5** "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

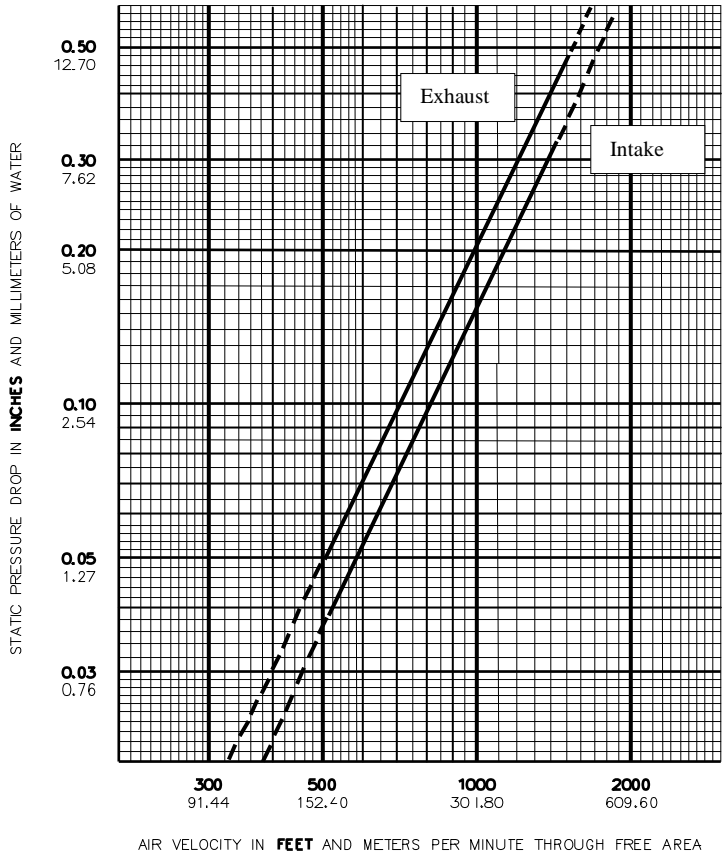
Core Velocity (m/s):	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
Core Velocity (ft/min):	0	98	197	295	394	492	591	689	787	886	984
Free Area Velocity (ft/min):	0	195	391	586	781	977	1172	1342	1552	1699	1939
Rating Effectiveness @ 29 & 3	A	A	A	A	A	A	A	A	A	A	A
Effectiveness Ratio @ 29 & 3 (%)										100	99.8
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				

PERFORMANCE DATA MODEL RSV-5700

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



AIR VELOCITY IN FEET AND METERS PER MINUTE THROUGH FREE AREA

For a 48" X 48" sized louver

Construction Specialties, Inc.
Manufacturing & Sales Location
www.c-sgroup.com

Cranford, New Jersey
 49 Meeker Avenue 07016
 Telephone: (800) 631-7379
 Fax: (908) 272-2920

Mississauga, Ontario
 895 Lakefront Promenade L5E 2C2
 Telephone: (888) 895-8955
 Fax: (905) 274-6241

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Upper Numerals English Units/Lower Numerals Metric Units

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