

Model—RSR-4V



102mm DEEP VERTICAL BLADE STORM RESISTANT LOUVER

M.W. McGill & Associates Ltd. certifies that the Storm Resistant Model “RSR 4V” 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 Air performance and Wind Driven Rain ratings only.



WIND DRIVEN RAIN PERFORMANCE

Maintains **Class A (99%)** rating with 29mph wind velocity @ 3in/hr rainfall rate

- Max. intake core velocity – 480 FPM (2.5 m/s)
- Intake pressure drop – 146.9 pa

AIRFLOW PERFORMANCE

- Free Area based on 48 in. by 48 in. test louver size: 51%
- Discharge loss coefficient Classification—Class 3

Rainfall rate (in. per hour) : 3								
Wind velocity (mph) : 29								
Core Velocity m/s	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5
Effectiveness (%)	100	100	100	100	100	100	98.1	86.7
Penetration Class	A	A	A	A	A	A	B	C
Classification	A = 99.9% - 99%		B = 98.9% - 95%		C = 94.9% - 80%		D = below 80%	

System Description:

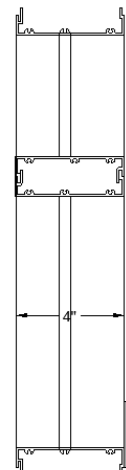
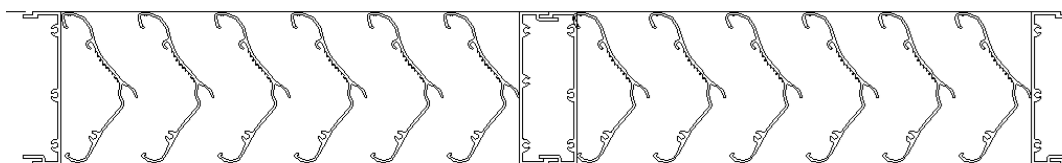
McGill Rain Storm Resistant series; extruded aluminum construction; frame with channel profile; corner joints mitered and mechanically fastened, with continuous recessed caulking channel each side; intermediate mullions matching frame; gutters to drain rain water to jamb and mullion downspouts; rated for an air performance and water penetration maintained effectiveness rate of 0.99 when tested in accordance with AMCA 500-L.

Material & Finishes:

1. RSR-4V comprises :
 - a. Blades: VERTICAL Storm-resistant Profile
 - b. Frame depth: 4 inches (102 mm) deep..
2. Metal Thickness: Frame 0.081 inch (2.06 mm); blades 0.06 inch (1.52 mm).
3. Finish: PE-SDF / PVDF / Anodize after fabrication
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

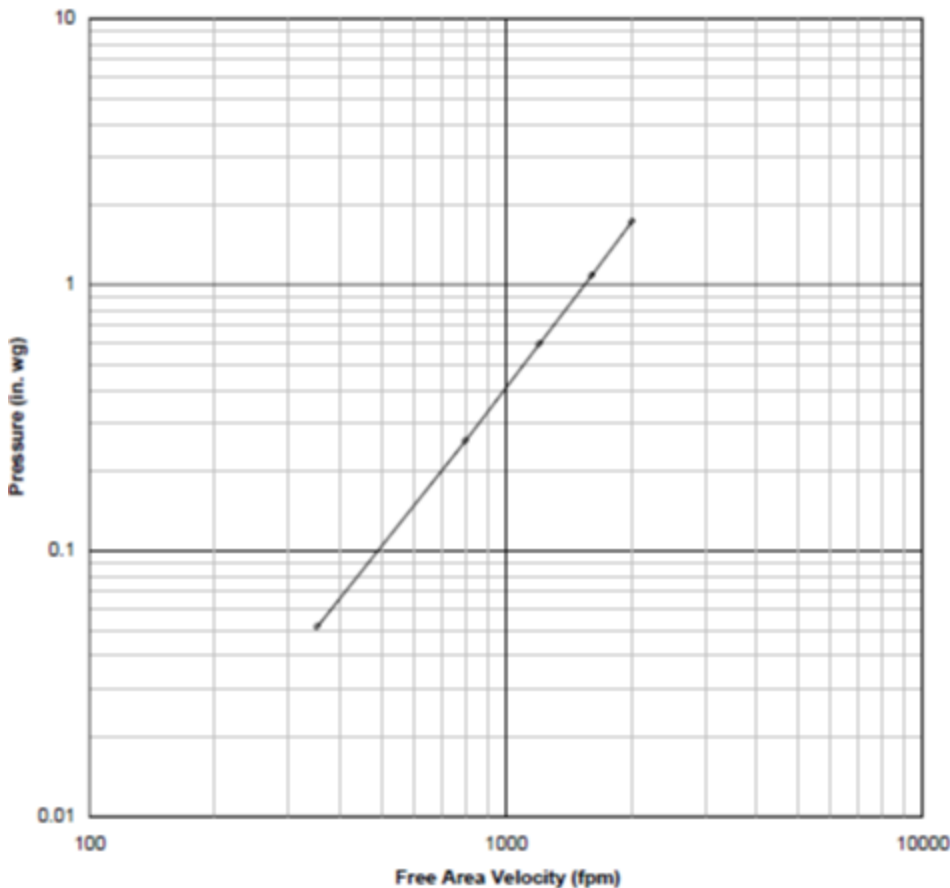
Louver Construction:

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.



FREE AREA TABLE (in m²)

		Width (meter)												
		0.3	0.41	0.51	0.61	0.71	0.81	0.91	1.02	1.12	1.22	1.32	1.42	1.52
Height (meter)	0.3	0.04	0.05	0.07	0.08	0.09	0.11	0.12	0.14	0.15	0.17	0.18	0.19	0.21
	0.46	0.06	0.08	0.10	0.13	0.15	0.17	0.20	0.22	0.24	0.26	0.29	0.31	0.33
	0.61	0.08	0.11	0.15	0.17	0.21	0.24	0.27	0.30	0.33	0.36	0.39	0.43	0.46
	0.76	0.10	0.14	0.18	0.22	0.26	0.30	0.34	0.38	0.42	0.46	0.50	0.54	0.58
	0.91	0.12	0.17	0.22	0.27	0.32	0.37	0.42	0.46	0.51	0.56	0.61	0.66	0.71
	1.07	0.14	0.20	0.26	0.32	0.37	0.43	0.49	0.55	0.60	0.66	0.72	0.78	0.83
	1.22	0.17	0.23	0.30	0.36	0.43	0.50	0.56	0.63	0.69	0.76	0.83	0.89	0.96
	1.37	0.19	0.26	0.34	0.41	0.48	0.56	0.63	0.71	0.78	0.86	0.93	1.01	1.08
	1.52	0.21	0.29	0.37	0.46	0.54	0.62	0.71	0.79	0.87	0.96	1.04	1.12	1.21
	1.68	0.23	0.32	0.41	0.51	0.60	0.69	0.78	0.87	0.97	1.06	1.15	1.24	1.33
	1.83	0.25	0.35	0.45	0.55	0.65	0.75	0.85	0.96	1.06	1.16	1.26	1.36	1.46
	1.98	0.27	0.38	0.49	0.60	0.71	0.82	0.93	1.04	1.15	1.26	1.36	1.47	1.58
	2.13	0.29	0.41	0.53	0.65	0.77	0.88	1.00	1.12	1.24	1.35	1.47	1.59	1.71
	2.29	0.32	0.44	0.57	0.69	0.82	0.95	1.07	1.20	1.33	1.45	1.58	1.71	1.83
	2.44	0.34	0.47	0.61	0.74	0.88	1.01	1.15	1.28	1.42	1.55	1.69	1.82	1.96
	2.59	0.36	0.50	0.65	0.79	0.93	1.08	1.22	1.36	1.51	1.65	1.79	1.94	2.08
2.74	0.38	0.53	0.68	0.84	0.99	1.14	1.29	1.45	1.60	1.75	1.90	2.05	2.21	
2.9	0.40	0.56	0.72	0.88	1.05	1.21	1.37	1.53	1.69	1.85	2.01	2.17	2.33	
3.05	0.42	0.59	0.76	0.93	1.10	1.27	1.44	1.61	1.78	1.95	2.12	2.29	2.46	



Test Data

Tested in accordance with ANSI/AMCA 500-L, Figure 5.5; Test sample size is 1220 mm x 1220 mm (48 in. x 48 in.); Air performance data are based on intake performance

Data corrected to Standard Air Density