

RS-5225

Material

- Material: aluminium alloy 6063-T6
- Nominal thickness: blades - 1.27 mm for back louvre, 1.52 mm for front louvre; head, cill and jamb frames, and mullions - 2.03 mm for back louvre, 1.52 mm for front louvre
- Optional extras: bird/vermin guards, insect mesh, blanking plates, insulated blanking panels, cill pans and integrated glazing frames

Test Summary

Tested with mill finish and no accessories.

For a 1220 mm x 1220 mm (4' x 4') unit.

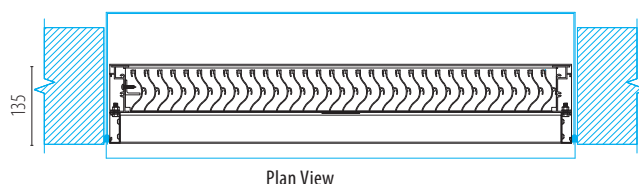
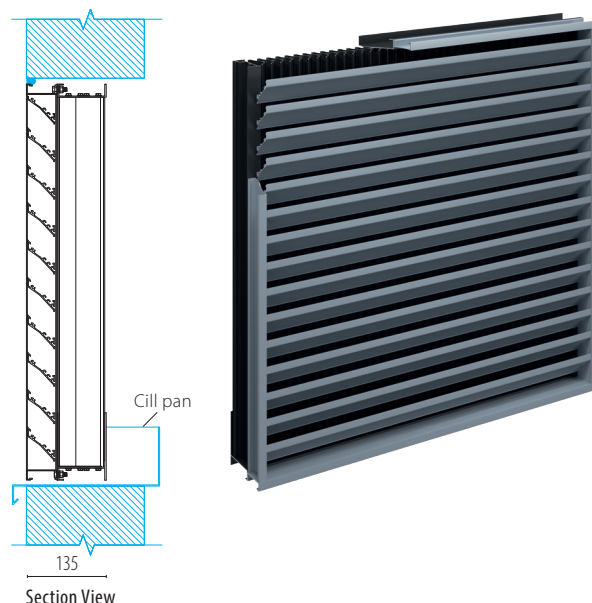
- Free area = 0.75 m² (8.03 ft²)
- Percent free area = 50%
- Intake pressure drop at 5.08 m/s (1,000 FPM) free area velocity = 77.0 Pa (0.31 in. H₂O)

For a unit with 1m² core area.

- To maintain a CLASS A (99%) effectiveness rating* with:
 - a 13 m/s (29.1 mph) wind speed and rainfall rate of 75 mm/hr (3 in/hr)
 - Max. intake core velocity 5.03 m/s (991 FPM)
 - Max. intake free area velocity 9.59 m/s (1888 FPM)
- To maintain a CLASS A (99%) effectiveness rating* with:
 - a 22.3 m/s (50 mph) wind speed and rainfall rate of 203 mm/hr (8 in/hr)
 - Max. intake core velocity 5.03 m/s (991 FPM)
 - Max. intake free area velocity 9.59 m/s (1888 FPM)

Construction Specialties UK Ltd certifies that the louvre model RS-5225 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.



Discharge Coefficient (C_d)

Intake = 0.24 (Class 3), Exhaust = 0.26 (Class 3)
AMCA certifies the coefficient class only

Application and Design

RS-5225 is tested in accordance with AMCA 500-L for Air Performance and Wind-Driven Rain. RS-5225 is tested in accordance with AMCA 550 Test Method for High-Velocity Wind-Driven Rain Resistant Louvers.

Construction Specialties certifies that the louvre model RS-5225 shown herein is licensed to bear the AMCA Listing Label. The ratings shown are based on tests and procedures performed in accordance with AMCA Publications and comply with the requirements of the AMCA Listing Label Program. The AMCA Listing Label applies to High-Velocity Wind-Driven Rain Resistant Louvers in the fully open position that permits airflow through the louvre.

RS-5225

Wind-Driven Rain Performance

Tested with 1m² core area, mill finish and no accessories *

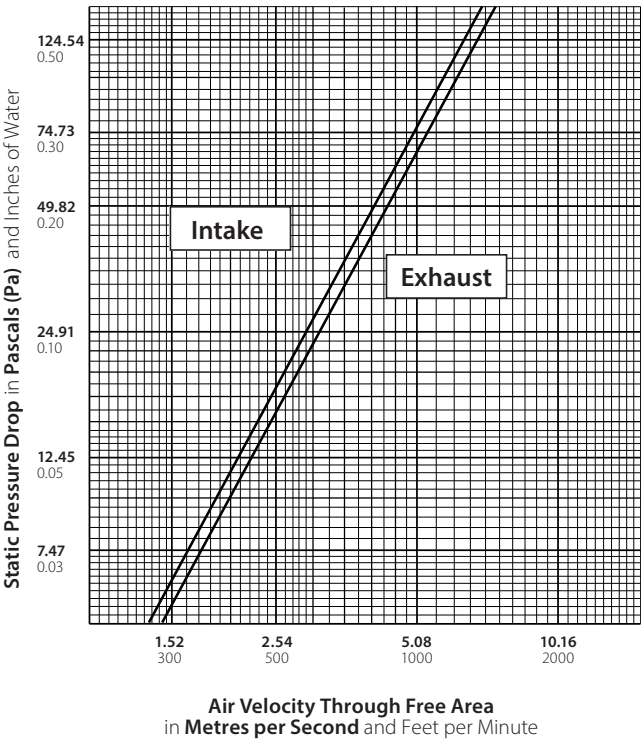
13 m/s (29.1 mph) & 75 mm (3") rain per hour

Core Velocity Through Calibration Plate (m/s):	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
Free Area Velocity (m/s):	0	0.95	1.91	2.85	3.80	4.76	5.71	6.66	7.61	8.56	9.59
Rating Effectiveness:	A	A	A	A	A	A	A	A	A	A	A
Effectiveness Ratio (%):											100

22.3 m/s (50 mph) & 203 mm (8") rain per hour

Core Velocity Through Calibration Plate (m/s):	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
Free Area Velocity (m/s):	0	0.93	1.91	2.79	3.83	4.66	5.69	6.69	7.75	8.63	9.59
Rating Effectiveness:	A	A	A	A	A	A	A	A	A	A	A
Effectiveness Ratio (%):									99.8	99.8	99.5

Effectiveness Rating:	A = 1 to 0.99	B = 0.989 to 0.95	C = 0.949 to 0.80	D = Below 0.80
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Data corrected to standard air density.
1220 mm x 1220 mm (48" x 48") louvre tested to figure 5.5.

Free Area Table (Free area in sq. feet and sq. metres)

For additional sizes, please visit:

<https://www.c-sgroup.com/architectural-louvers/louvers-airflow-tool>

		Width in Inches and Metres									
		18	24	30	36	42	48	54	60	66	72
Height in Inches and Metres		0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52	1.68	1.83
	18	0.81	1.11	1.40	1.69	1.99	2.28	2.48	2.77	3.06	3.36
	0	0.08	0.10	0.13	0.16	0.18	0.21	0.23	0.26	0.28	0.31
	24	1.20	1.63	2.06	2.49	2.92	3.35	3.64	4.07	4.51	4.94
	0.61	0.11	0.15	0.19	0.23	0.27	0.31	0.34	0.38	0.42	0.46
	30	1.61	2.19	2.77	3.35	3.93	4.52	4.90	5.48	6.06	6.65
	0.76	0.15	0.20	0.26	0.31	0.37	0.42	0.46	0.51	0.56	0.62
	36	2.07	2.81	3.56	4.31	5.05	5.80	6.29	7.04	7.79	8.53
	0.91	0.19	0.26	0.33	0.40	0.47	0.54	0.58	0.65	0.72	0.79
	42	2.41	3.27	4.14	5.01	5.88	6.75	7.33	8.20	9.07	9.93
	1.07	0.22	0.30	0.38	0.47	0.55	0.63	0.68	0.76	0.84	0.92
	48	2.86	3.90	4.93	5.96	7.00	8.03	8.72	9.75	10.79	11.82
	1.22	0.27	0.36	0.46	0.55	0.65	0.75	0.81	0.91	1.00	1.10
	54	3.25	4.42	5.59	6.76	7.93	9.10	9.89	11.06	12.23	13.40
	1.37	0.30	0.41	0.52	0.63	0.74	0.85	0.92	1.03	1.14	1.24
	60	3.66	4.98	6.30	7.62	8.94	10.27	11.15	12.47	13.79	15.11
	1.52	0.34	0.46	0.59	0.71	0.83	0.95	1.04	1.16	1.28	1.40
	66	4.12	5.60	7.09	8.58	10.06	11.55	12.54	14.02	15.51	17.00
	1.68	0.38	0.52	0.66	0.80	0.93	1.07	1.16	1.30	1.44	1.58
	72	4.46	6.07	7.67	9.28	10.89	12.50	13.57	15.18	16.79	18.40
	1.83	0.41	0.56	0.71	0.86	1.01	1.16	1.26	1.41	1.56	1.71
	78	4.91	6.69	8.46	10.23	12.01	13.78	14.96	16.74	18.51	20.28
	1.98	0.46	0.62	0.79	0.95	1.12	1.28	1.39	1.55	1.72	1.88
	84	5.30	7.21	9.12	11.03	12.94	14.85	16.13	18.04	19.95	21.86
	2.13	0.49	0.67	0.85	1.02	1.20	1.38	1.50	1.68	1.85	2.03
	90	5.71	7.77	9.83	11.89	13.95	16.02	17.39	19.45	21.51	23.57
	2.29	0.53	0.72	0.91	1.10	1.30	1.49	1.62	1.81	2.00	2.19
	96	6.17	8.39	10.62	12.85	15.07	17.30	18.78	21.01	23.23	25.46
	2.44	0.57	0.78	0.99	1.19	1.40	1.61	1.74	1.95	2.16	2.37
	102	6.51	8.86	11.20	13.55	15.90	18.25	19.82	22.16	24.51	26.86
	2.59	0.60	0.82	1.04	1.26	1.48	1.70	1.84	2.06	2.28	2.50
	108	6.96	9.48	11.99	14.50	17.02	19.53	21.21	23.72	26.23	28.75
	2.74	0.65	0.88	1.11	1.35	1.58	1.81	1.97	2.20	2.44	2.67
	114	7.35	10.00	12.65	15.30	17.95	20.61	22.37	25.02	27.68	30.33
	2.90	0.68	0.93	1.18	1.42	1.67	1.91	2.08	2.32	2.57	2.82
	120	7.76	10.56	13.36	16.16	18.96	21.77	23.63	26.43	29.24	32.04
	3.05	0.72	0.98	1.24	1.50	1.76	2.02	2.20	2.46	2.72	2.98

Upper Numerals Imperial Units / Lower Numerals Metric Units