

RS-5215

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 (at additional cost): 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.

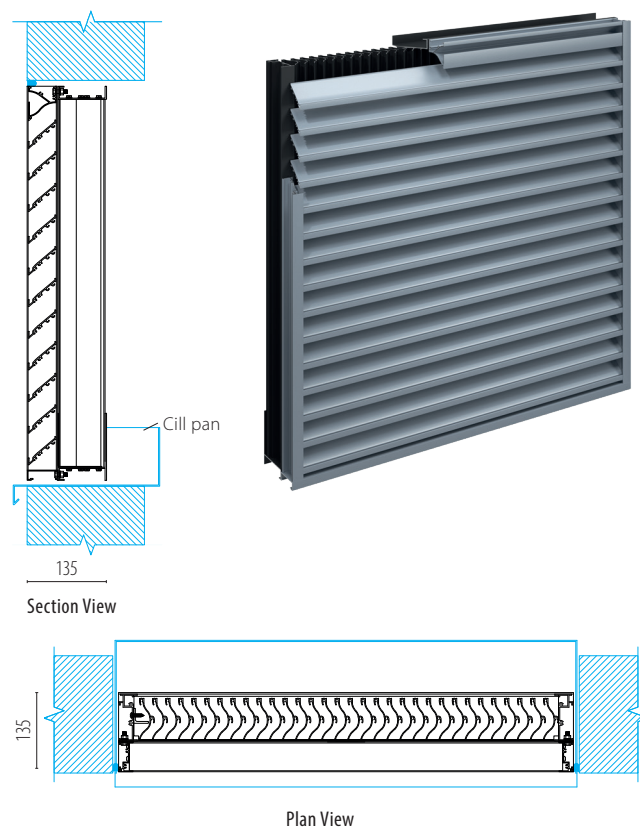
- Free area = 0.77 m² (8.26 ft²)
- Percent free area = 51.6%
- Free area velocity at the point of beginning water penetration (at 3.05 g/m² (0.01 oz. / ft²) of free area, based on a 15-minute interval test) = 6.35 m/s (1250 FPM)
- Intake pressure drop at 3.05 g/m² (0.01 oz. / ft²) free area velocity = 104.3 Pa (0.42 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 5.05 m/s (995 FPM)
 - Max. intake free area velocity 9.04 m/s (1779 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 5.05 m/s (994 FPM)
 - Max. intake free area velocity 9.03 m/s (1777 FPM)

Construction Specialties UK Ltd certifies that the louvre model RS-5215 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, Water Penetration and Air Performance ratings.



Discharge Coefficient (C_d)

Intake = 0.27 (Class 3), Exhaust = 0.3 (Class 2)

AMCA certifies the coefficient class only

Application and Design

RS-5215 is tested in accordance with AMCA 500-L for Air Performance, Water Penetration and Wind-Driven Rain. RS-5215 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-5215 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-5215

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	0.89	1.79	2.68	3.57	4.47	5.37	6.26	7.15	8.09	9.04
Rating Effectiveness:	A	A	A	A	A	A	A	A	A	A	A
Effectiveness Ratio (%):										100	99.7

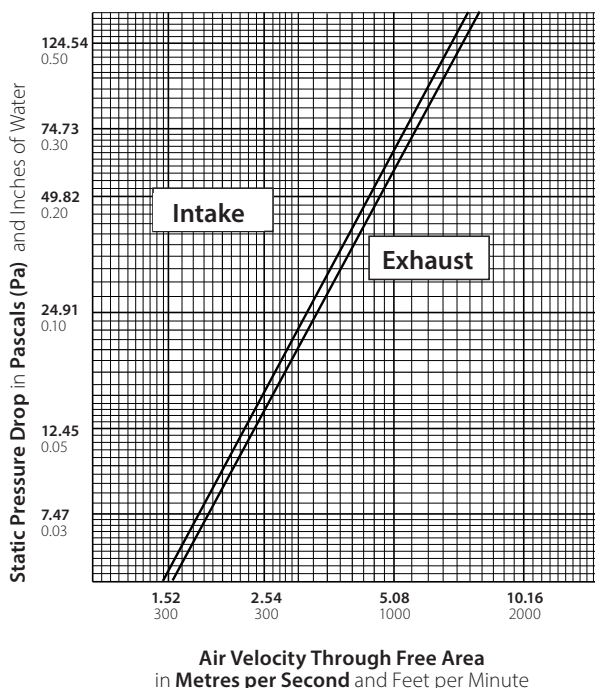
22.3 m/s (50 mph) & 203 mm (8") rain per hour

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	0.87	1.79	2.62	3.60	4.38	5.34	6.28	7.28	8.14	9.03
Rating Effectiveness:	A	A	A	A	A	A	A	A	A	A	A
Effectiveness Ratio (%):									99.9	99.7	99.2

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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Water Penetration Statement

AMCA defines the point of beginning water penetration as the free area velocity at which the AMCA water test has yielded 3.05 grams or less of water per square metre (0.01 oz./ft²) of louvre free area during a 15-minute test period.



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
		0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52	1.68	1.83
18	0.68	1.13	1.47	1.81	2.10	2.45	2.79	3.03	3.47	3.82	
0	0.06	0.10	0.14	0.17	0.20	0.23	0.26	0.28	0.32	0.35	
24	1.01	1.66	2.17	2.67	3.10	3.61	4.11	4.47	5.12	5.63	
0.61	0.09	0.15	0.20	0.25	0.29	0.34	0.38	0.42	0.48	0.52	
30	1.34	2.19	2.86	3.53	4.10	4.77	5.44	5.92	6.77	7.44	
0.76	0.12	0.20	0.27	0.33	0.38	0.44	0.51	0.55	0.63	0.69	
36	1.66	2.73	3.56	4.39	5.10	5.93	6.76	7.36	8.43	9.26	
0.91	0.15	0.25	0.33	0.41	0.47	0.55	0.63	0.68	0.78	0.86	
42	1.99	3.26	4.26	5.25	6.10	7.10	8.09	8.80	10.08	11.07	
1.07	0.18	0.30	0.40	0.49	0.57	0.66	0.75	0.82	0.94	1.03	
48	2.31	3.80	4.96	6.11	7.10	8.26	9.41	10.24	11.73	12.88	
1.22	0.21	0.35	0.46	0.57	0.66	0.77	0.87	0.95	1.09	1.20	
54	2.64	4.33	5.65	6.97	8.10	9.42	10.74	11.68	13.38	14.70	
1.37	0.25	0.40	0.53	0.65	0.75	0.88	1.00	1.09	1.24	1.37	
60	2.96	4.87	6.35	7.83	9.10	10.58	12.07	13.12	15.03	16.51	
1.52	0.28	0.45	0.59	0.73	0.85	0.98	1.12	1.22	1.40	1.53	
66	3.29	5.40	7.05	8.69	10.10	11.75	13.39	14.57	16.68	18.32	
1.68	0.31	0.50	0.65	0.81	0.94	1.09	1.24	1.35	1.55	1.70	
72	3.61	5.94	7.75	9.55	11.10	12.91	14.72	16.01	18.33	20.14	
1.83	0.34	0.55	0.72	0.89	1.03	1.20	1.37	1.49	1.70	1.87	
78	3.94	6.47	8.44	10.41	12.10	14.07	16.04	17.45	19.86	21.95	
1.98	0.37	0.60	0.78	0.97	1.12	1.31	1.49	1.62	1.86	2.04	
84	4.27	7.01	9.14	11.27	13.10	15.23	17.37	18.89	21.63	23.76	
2.13	0.40	0.65	0.85	1.05	1.22	1.42	1.61	1.75	2.01	2.21	
90	4.59	7.54	9.84	12.13	14.10	16.40	18.69	20.33	23.28	25.58	
2.29	0.43	0.70	0.91	1.13	1.31	1.52	1.74	1.89	2.16	2.38	
96	4.92	8.08	10.54	12.99	15.10	17.56	20.02	21.77	24.93	27.39	
2.44	0.46	0.75	0.98	1.21	1.40	1.63	1.86	2.02	2.32	2.54	
102	4.90	8.04	10.49	12.94	15.04	17.49	19.93	21.68	24.83	27.28	
2.59	0.45	0.75	0.97	1.20	1.40	1.62	1.85	2.01	2.31	2.53	
108	5.22	8.58	11.19	13.80	16.04	18.65	21.26	23.12	26.48	29.09	
2.74	0.49	0.80	1.04	1.28	1.49	1.73	1.98	2.15	2.46	2.70	
114	5.55	9.11	11.89	14.66	17.04	19.81	22.58	24.57	28.13	30.91	
2.90	0.52	0.85	1.10	1.36	1.58	1.84	2.10	2.28	2.61	2.87	
120	5.87	9.65	12.58	15.52	18.04	20.97	23.91	26.01	29.78	32.72	
3.05	0.55	0.90	1.17	1.44	1.68	1.95	2.22	2.42	2.77	3.04	

Upper Numerals Imperial Units / Lower Numerals Metric Units