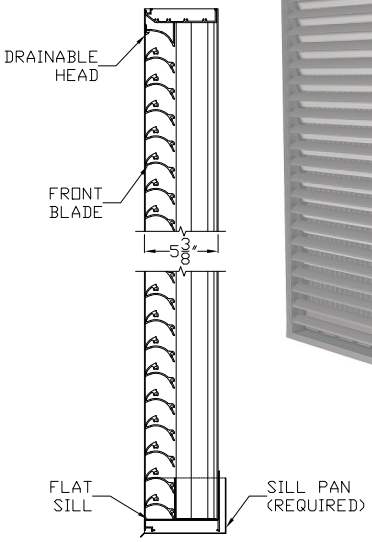
Model RS-5815

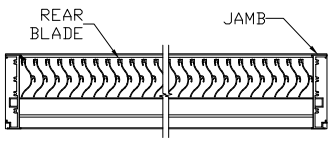
5 3/8" (136.5 mm) Storm Resistant Fixed Horizontal Louver

Material:

Material:	6063-T6 Alloy
Nominal Thickness:	Sills & Heads: 0.080" (2.03 mm) Jambs & Mullions: 0.1875" (4.76 mm)
Nominal Blade Thickness:	Front: 0.080" (2.03 mm) Rear: 0.050" (1.27 mm)
Furnished With:	Birdscreen: ½" (12.7mm) intercrimp aluminum mesh, 0.063" (1.60 mm) diameter wire removeable aluminum bird screen in an aluminum frame
Additional Options (at additional cost):	Insect screen (in lieu of bird screen), Continuous clip angles for attachment Sheet blank off, Insulated blank off Sill pans, Flange frames, Integrated glazing frames



SECTION VIEW



PLAN VIEW

Test Summary:
For a 4 Foot by 4 Foot Unit.

*Tested with mill finish and no screen *and 1m² core area*

- Free area = 8.42 ft² (0.78 m²)
- Percent free area = 52.7%
- Free area velocity at the point of beginning water penetration (@ 0.01oz. / ft² of free area based on a 15 minute interval test) = 1145 FPM (5.81 m/s)
- Intake pressure drop at 0.01 oz. / ft² free area velocity = 0.505 in. H20 (125.7 Pa)
- To maintain a CLASS A (99%) effectiveness rating* with:
  - a 29.1 mph wind speed and rainfall rate of 3 in/hr
    - Max. intake core velocity 5.0 m/s (982 FPM)
    - Max. intake free area velocity 8.93 m/s (1759 FPM)
- To maintain a CLASS A (99%) effectiveness rating* with:
  - a 50 mph wind speed and rainfall rate of 8 in/hr
    - Max. intake core velocity 5.0 m/s (987 FPM)
    - Max. intake free area velocity 8.98 m/s (1768 FPM)

Discharge Coefficient

Intake Cd = 0.22 (Class 3)

AMCA certifies the coefficient class only

Construction Specialties Inc. certifies that the louver model RS-5815 shown herein is licensed to bear the AMCA Certified Ratings Program 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 ratings, Water Penetration Ratings and Air Performance ratings.

amca CERTIFIED RATINGS — WATER PENETRATION — AIR PERFORMANCE — WIND DRIVEN RAIN — AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC. — www.amca.org

amca INTERNATIONAL LISTED — 550 HIGH VELOCITY RAIN RESISTANT WITH BLADES FULLY OPEN — See www.AMCA.org for all certified or listed products — This label does not signify AMCA certified performance certification.

Application and Design

RS-5815 is tested in accordance with AMCA 500-L Air Performance, Water Penetration and Wind Driven Rain. RS-5815 is tested in accordance with AMCA 550 Test Method for High Velocity Wind Driven Rain Resistant Louvers. Minimum louver section size to be 12"x12".

Construction Specialties Inc. certifies that the louver model RS-5815 shown herein is approved 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 louver.

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Model RS-5815

5 3/8" (136.5 mm) Storm Resistant Fixed Horizontal Louver

Wind Driven Rain Performance:

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

Core Velocity Through Cal. 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
Core Velocity Through Louver (ft/min):	0	98	196	294	393	492	590	688	786	885	982
Free Area Velocity (ft/min):	0	176	351	527	704	881	1057	1232	1408	1585	1759
Rating Effectiveness:	A	A	A	A	A	A	A	A	A	A	A
Effectiveness Ratio (%):										100.0	99.4

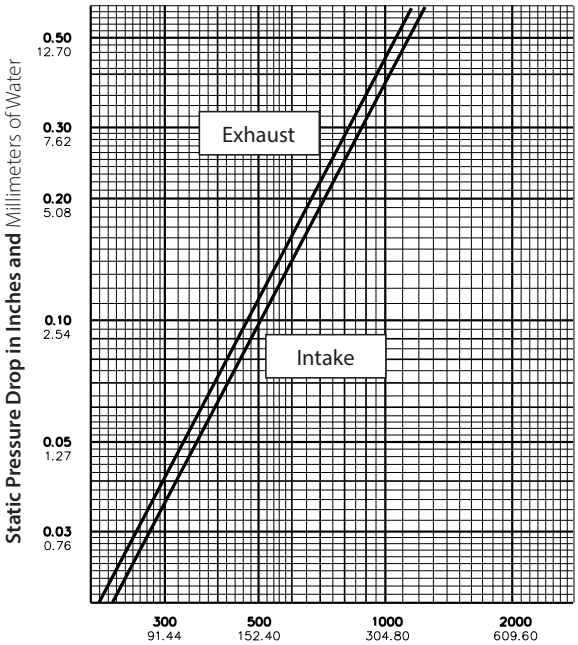
50 mph (22.3 m/s) & 8" (203 mm) rain per hour

Core Velocity Through Cal. Plate (m/s):	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	3.9	4.5	5.0
Core Velocity Through Louver (ft/min):	0	100	200	294	394	495	589	691	786	882	987
Free Area Velocity (ft/min):	0	179	358	527	706	887	1055	1238	1408	1580	1768
Rating Effectiveness:	A	A	A	A	A	A	A	A	A	A	A
Effectiveness Ratio (%):									99.7	99.4	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

Water Penetration Statement

AMCA defines the point of beginning water penetration as the free area velocity at which the AMCA water test has yielded 0.01 or less ounces of water per square foot of louver free area during a 15-minute test period.



Data corrected to standard air density.
48" x 48" (121.92cm x 121.92cm) louver tested to figure 5.5.

Free Area Table (Free area in **sq. feet** and sq. meters)

For additional sizes, please visit:
https://www.c-sgroup.com/louvers-airflow-tool

Width in Inches and Meters

Height in Inches and Meters	**12**	**18**	**24**	**30**	**36**	**42**	**48**	**54**	**60**	**66**	**72**	**78**	**84**
	0.30	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52	1.68	1.83	1.98	2.13
12	**0.19**	**0.30**	**0.42**	**0.53**	**0.65**	**0.76**	**0.88**	**1.00**	**1.05**	**1.17**	**1.28**	**1.40**	**1.51**
0.30	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14
18	**0.51**	**0.82**	**1.14**	**1.45**	**1.77**	**2.08**	**2.39**	**2.71**	**2.87**	**3.18**	**3.49**	**3.81**	**4.12**
0.46	0.05	0.08	0.11	0.13	0.16	0.19	0.22	0.25	0.27	0.30	0.32	0.35	0.38
24	**0.77**	**1.24**	**1.71**	**2.18**	**2.65**	**3.12**	**3.59**	**4.06**	**4.30**	**4.77**	**5.24**	**5.71**	**6.18**
0.61	0.07	0.11	0.16	0.20	0.25	0.29	0.33	0.38	0.40	0.44	0.49	0.53	0.57
30	**1.00**	**1.62**	**2.24**	**2.86**	**3.47**	**4.09**	**4.71**	**5.33**	**5.64**	**6.25**	**6.87**	**7.49**	**8.11**
0.76	0.09	0.15	0.21	0.27	0.32	0.38	0.44	0.50	0.52	0.58	0.64	0.70	0.75
36	**1.28**	**2.07**	**2.87**	**3.66**	**4.45**	**5.24**	**6.03**	**6.82**	**7.21**	**8.00**	**8.79**	**9.58**	**10.37**
0.91	0.12	0.19	0.27	0.34	0.41	0.49	0.56	0.63	0.67	0.74	0.82	0.89	0.96
42	**1.53**	**2.47**	**3.42**	**4.36**	**5.30**	**6.24**	**7.18**	**8.13**	**8.60**	**9.54**	**10.48**	**11.42**	**12.37**
1.07	0.14	0.23	0.32	0.40	0.49	0.58	0.67	0.76	0.80	0.89	0.97	1.06	1.15
48	**1.79**	**2.90**	**4.00**	**5.11**	**6.21**	**7.32**	**8.42**	**9.53**	**10.08**	**11.18**	**12.29**	**13.39**	**14.50**
1.22	0.17	0.27	0.37	0.47	0.58	0.68	0.78	0.89	0.94	1.04	1.14	1.24	1.35
54	**2.03**	**3.28**	**4.54**	**5.79**	**7.04**	**8.29**	**9.54**	**10.79**	**11.42**	**12.67**	**13.92**	**15.17**	**16.42**
1.37	0.19	0.31	0.42	0.54	0.65	0.77	0.89	1.00	1.06	1.18	1.29	1.41	1.53
60	**2.39**	**3.86**	**5.33**	**6.80**	**8.27**	**9.75**	**11.22**	**12.69**	**13.42**	**14.89**	**16.36**	**17.84**	**19.31**
1.52	0.22	0.36	0.50	0.63	0.77	0.91	1.04	1.18	1.25	1.38	1.52	1.66	1.79
66	**2.62**	**4.23**	**5.84**	**7.46**	**9.07**	**10.68**	**12.29**	**13.91**	**14.71**	**16.33**	**17.94**	**19.55**	**21.16**
1.68	0.24	0.39	0.54	0.69	0.84	0.99	1.14	1.29	1.37	1.52	1.67	1.82	1.97
72	**2.94**	**4.75**	**6.57**	**8.38**	**10.19**	**12.00**	**13.81**	**15.62**	**16.53**	**18.34**	**20.15**	**21.96**	**23.77**
1.83	0.27	0.44	0.61	0.78	0.95	1.11	1.28	1.45	1.54	1.70	1.87	2.04	2.21
78	**3.17**	**5.13**	**7.08**	**9.03**	**10.98**	**12.94**	**14.89**	**16.84**	**17.82**	**19.77**	**21.72**	**23.67**	**25.63**
1.98	0.29	0.48	0.66	0.84	1.02	1.20	1.38	1.56	1.66	1.84	2.02	2.20	2.38
84	**3.41**	**5.51**	**7.61**	**9.71**	**11.81**	**13.91**	**16.01**	**18.10**	**19.15**	**21.25**	**23.35**	**25.45**	**27.55**
2.13	0.32	0.51	0.71	0.90	1.10	1.29	1.49	1.68	1.78	1.97	2.17	2.36	2.56
90	**3.65**	**5.90**	**8.14**	**10.39**	**12.63**	**14.88**	**17.12**	**19.37**	**20.49**	**22.74**	**24.98**	**27.23**	**29.48**
2.29	0.34	0.55	0.76	0.96	1.17	1.38	1.59	1.80	1.90	2.11	2.32	2.53	2.74
96	**3.90**	**6.31**	**8.71**	**11.11**	**13.52**	**15.92**	**18.32**	**20.73**	**21.93**	**24.33**	**26.73**	**29.14**	**31.54**
2.44	0.36	0.59	0.81	1.03	1.26	1.48	1.70	1.93	2.04	2.26	2.48	2.71	2.93
102	**4.26**	**6.88**	**9.51**	**12.13**	**14.75**	**17.37**	**20.00**	**22.62**	**23.93**	**26.55**	**29.18**	**31.80**	**34.42**
2.59	0.40	0.64	0.88	1.13	1.37	1.61	1.86	2.10	2.22	2.47	2.71	2.95	3.20
108	**4.49**	**7.26**	**10.02**	**12.78**	**15.55**	**18.31**	**21.08**	**23.84**	**25.22**	**27.99**	**30.75**	**33.51**	**36.28**
2.74	0.42	0.67	0.93	1.19	1.44	1.70	1.96	2.21	2.34	2.60	2.86	3.11	3.37
114	**4.77**	**7.71**	**10.65**	**13.58**	**16.52**	**19.46**	**22.39**	**25.33**	**26.80**	**29.73**	**32.67**	**35.61**	**38.54**
2.90	0.44	0.72	0.99	1.26	1.53	1.81	2.08	2.35	2.49	2.76	3.04	3.31	3.58
120	5.02	8.11	11.20	14.28	17.37	20.46	23.55	26.64	28.18	31.27	34.36	37.45	40.54
3.05	0.47	0.75	1.04	1.33	1.61	1.90	2.19	2.47	2.62	2.91	3.19	3.48	3.77
126	5.28	8.53	11.78	15.03	18.29	21.54	24.79	28.04	29.66	32.91	36.16	39.42	42.67
3.20	0.49	0.79	1.09	1.40	1.70	2.00	2.30	2.60	2.76	3.06	3.36	3.66	3.96
132	5.55	8.96	12.37	15.79	19.20	22.61	26.03	29.44	31.15	34.56	37.97	41.39	44.80
3.35	0.52	0.83	1.15	1.47	1.78	2.10	2.42	2.74	2.89	3.21	3.53	3.84	4.16
138	5.87	9.48	13.09	16.71	20.32	23.93	27.54	31.15	32.96	36.57	40.18	43.80	47.41
3.51	0.55	0.88	1.22	1.55	1.89	2.22	2.56	2.89	3.06	3.40	3.73	4.07	4.40
144	6.12	9.89	13.66	17.43	21.20	24.97	28.74	32.51	34.39	38.16	41.93	45.70	49.47
3.66	0.57	0.92	1.27	1.62	1.97	2.32	2.67	3.02	3.20	3.55	3.90	4.25	4.60

Upper Numerals English Units/Lower Numerals Metric Units

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