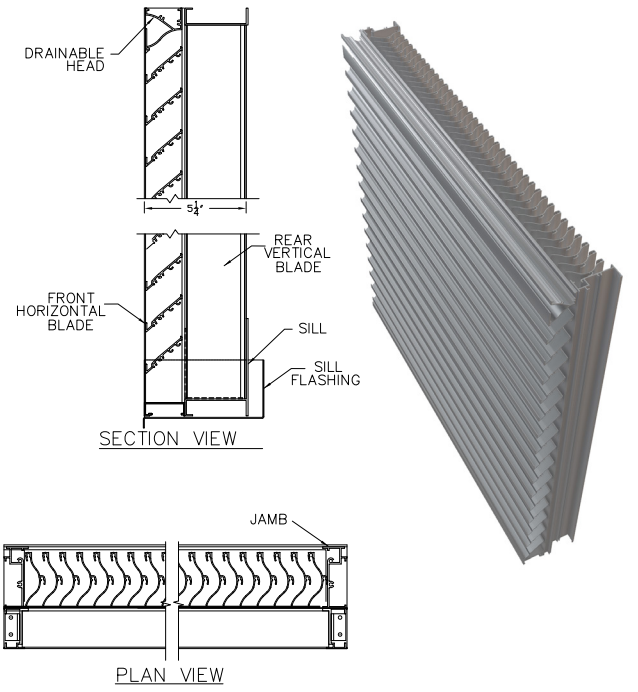
Model RS-5216

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

Material:

Material:	6063-T6 Alloy
Nominal Thickness:	Interior Frame Components: 0.080" (2.03 mm) Exterior Head & Sill: 0.060" (1.52 mm) Exterior Jamb & Mullions: 0.125" (3.175 mm)
Nominal Blade Thickness:	Interior Louver: 0.050" (1.27 mm) Exterior Louver: 0.060" (1.52 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



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

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

- Free area = 8.26 ft² (0.77 m²)
- Percent free area = 51.6%
- Free area velocity at the point of beginning water penetration (@ 0.01oz. / ft² of free area based on a 15 minute interval test) = 1250 FPM (6.35 m/s)
- Intake pressure drop at 0.01 oz. / ft² free area velocity = 0.42 in. H20 (104.3 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 (995 FPM)
    - Max. intake free area velocity 9.0 m/s (1779 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 (994 FPM)
    - Max. intake free area velocity 9.0 m/s (1777 FPM)

Discharge Coefficient
Intake Cd = 0.27 (Class 3)
AMCA certifies the coefficient class only

Construction Specialties Inc. certifies that the louver model RS-5216 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 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 AND 540 IMPACT RESISTANT LOUVER *Basic Protection Level D* — See www.AMCA.org for all certified or listed products — This label does not signify AMCA performance certification.

amca INTERNATIONAL LISTED — CYCLE TESTED PER AMCA 540 — See www.AMCA.org for all certified or listed products — This label does not signify AMCA performance certification.

Application and Design

RS-5216 is tested in accordance with AMCA 500-L Air Performance, Water Penetration, and Wind Driven Rain. RS-5216 is tested in accordance with AMCA 550 Test Method for High Velocity Wind Driven Rain Resistant Louvers. RS-5216 is tested in accordance with AMCA 540 Test Method for Louvers Impacted by Wind Borne Debris (Basic Protection, Missile Level D).

Construction Specialties Inc. certifies that the louver model RS-5216 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 International Listing Label Program. The AMCA International Listing Label applies to High Velocity Wind Driven Rain (HVWDR) Resistant Louvers tested in the fully open position that permits airflow and to pressure cycle tested Wind Borne Debris Impact Resistant Louvers rated for Basic Protection and +/- 100 PSF with a minimum blade span of less than 12 in. and a maximum unsupported blade span of 21 1/8" in. or a maximum unsupported blade span of 26 5/8" in. at +/- 50 PSF.

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Model RS-5216

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	197	295	393	492	591	689	787	891	995
Free Area Velocity (ft/min):	0	175	352	527	703	880	1057	1232	1407	1593	1779
Rating Effectiveness:	A	A	A	A	A	A	A	A	A	A	A
Effectiveness Ratio (%):										100	99.7

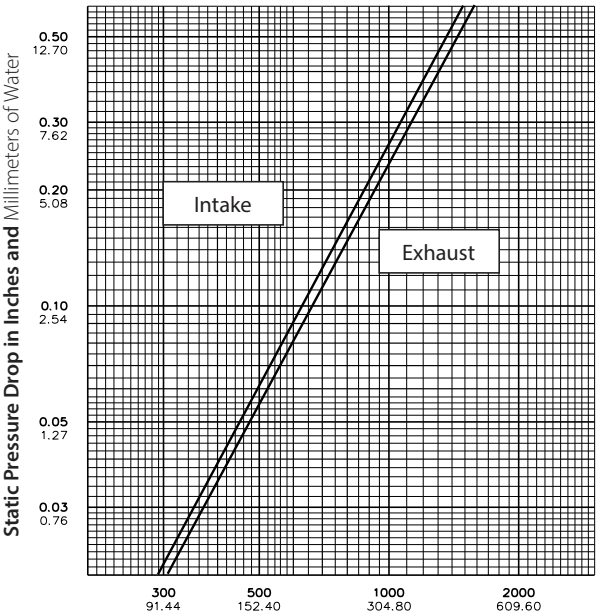
50 mph (22.3 m/s) & 8" (203 mm) rain per hour

Core Velocity Through Cal. Plate (m/s):	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
Core Velocity Through Louver (ft/min):	0	96	197	288	396	482	588	691	802	896	994
Free Area Velocity (ft/min):	0	172	352	515	708	862	1051	1236	1434	1602	1777
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

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.



Air Velocity in Feet and Meters per Minute **Through Free Area**

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**
	0.30	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52	1.68	1.83
12	**0.23**	**0.36**	**0.59**	**0.77**	**0.95**	**1.10**	**1.28**	**1.46**	**1.59**	**1.82**	**2.00**
0.30	0.02	0.03	0.05	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.19
18	**0.44**	**0.68**	**1.13**	**1.47**	**1.81**	**2.10**	**2.45**	**2.79**	**3.03**	**3.47**	**3.82**
0.46	0.04	0.06	0.10	0.14	0.17	0.20	0.23	0.26	0.28	0.32	0.35
24	**0.65**	**1.01**	**1.66**	**2.17**	**2.67**	**3.10**	**3.61**	**4.11**	**4.47**	**5.12**	**5.63**
0.61	0.06	0.09	0.15	0.20	0.25	0.29	0.34	0.38	0.42	0.48	0.52
30	**0.86**	**1.34**	**2.19**	**2.86**	**3.53**	**4.10**	**4.77**	**5.44**	**5.92**	**6.77**	**7.44**
0.76	0.08	0.12	0.20	0.27	0.33	0.38	0.44	0.51	0.55	0.63	0.69
36	**1.07**	**1.66**	**2.73**	**3.56**	**4.39**	**5.10**	**5.93**	**6.76**	**7.36**	**8.43**	**9.26**
0.91	0.10	0.15	0.25	0.33	0.41	0.47	0.55	0.63	0.68	0.78	0.86
42	**1.28**	**1.99**	**3.26**	**4.26**	**5.25**	**6.10**	**7.10**	**8.09**	**8.80**	**10.08**	**11.07**
1.07	0.12	0.18	0.30	0.40	0.49	0.57	0.66	0.75	0.82	0.94	1.03
48	**1.49**	**2.31**	**3.80**	**4.96**	**6.11**	**7.10**	**8.26**	**9.41**	**10.24**	**11.73**	**12.88**
1.22	0.14	0.21	0.35	0.46	0.57	0.66	0.77	0.87	0.95	1.09	1.20
54	**1.70**	**2.64**	**4.33**	**5.65**	**6.97**	**8.10**	**9.42**	**10.74**	**11.68**	**13.38**	**14.70**
1.37	0.16	0.25	0.40	0.53	0.65	0.75	0.88	1.00	1.09	1.24	1.37
60	**1.91**	**2.96**	**4.87**	**6.35**	**7.83**	**9.10**	**10.58**	**12.07**	**13.12**	**15.03**	**16.51**
1.52	0.18	0.28	0.45	0.59	0.73	0.85	0.98	1.12	1.22	1.40	1.53
66	**2.11**	**3.29**	**5.40**	**7.05**	**8.69**	**10.10**	**11.75**	**13.39**	**14.57**	**16.68**	**18.32**
1.68	0.20	0.31	0.50	0.65	0.81	0.94	1.09	1.24	1.35	1.55	1.70
72	**2.32**	**3.61**	**5.94**	**7.75**	**9.55**	**11.10**	**12.91**	**14.72**	**16.01**	**18.33**	**20.14**
1.83	0.22	0.34	0.55	0.72	0.89	1.03	1.20	1.37	1.49	1.70	1.87
78	**2.53**	**3.94**	**6.47**	**8.44**	**10.41**	**12.10**	**14.07**	**16.04**	**17.45**	**19.98**	**21.95**
1.98	0.24	0.37	0.60	0.78	0.97	1.12	1.31	1.49	1.62	1.86	2.04
84	**2.74**	**4.27**	**7.01**	**9.14**	**11.27**	**13.10**	**15.23**	**17.37**	**18.89**	**21.63**	**23.76**
2.13	0.25	0.40	0.65	0.85	1.05	1.22	1.42	1.61	1.75	2.01	2.21
90	**2.95**	**4.59**	**7.54**	**9.84**	**12.13**	**14.10**	**16.40**	**18.69**	**20.33**	**23.28**	**25.58**
2.29	0.27	0.43	0.70	0.91	1.13	1.31	1.52	1.74	1.89	2.16	2.38
96	**3.16**	**4.92**	**8.08**	**10.54**	**12.99**	**15.10**	**17.56**	**20.02**	**21.77**	**24.93**	**27.39**
2.44	0.29	0.46	0.75	0.98	1.21	1.40	1.63	1.86	2.02	2.32	2.54
102	**3.15**	**4.90**	**8.04**	**10.49**	**12.94**	**15.04**	**17.49**	**19.93**	**21.68**	**24.83**	**27.28**
2.59	0.29	0.45	0.75	0.97	1.20	1.40	1.62	1.85	2.01	2.31	2.53
108	**3.36**	**5.22**	**8.58**	**11.19**	**13.80**	**16.04**	**18.65**	**21.26**	**23.12**	**26.48**	**29.09**
2.74	0.31	0.49	0.80	1.04	1.28	1.49	1.73	1.98	2.15	2.46	2.70
114	**3.57**	**5.55**	**9.11**	**11.89**	**14.66**	**17.04**	**19.81**	**22.58**	**24.57**	**28.13**	**30.91**
2.90	0.33	0.52	0.85	1.10	1.36	1.58	1.84	2.10	2.28	2.61	2.87
120	3.78	5.87	9.65	12.58	15.52	18.04	20.97	23.91	26.01	29.78	32.72
3.05	0.35	0.55	0.90	1.17	1.44	1.68	1.95	2.22	2.42	2.77	3.04

Upper Numerals English Units/Lower Numerals Metric Units

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