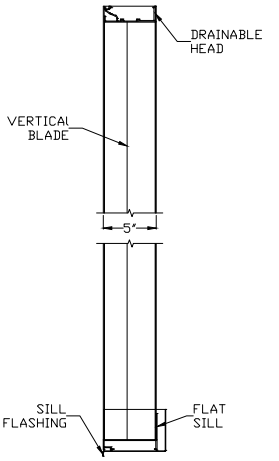
Model RS-5900

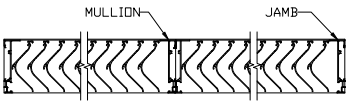
5" (127.0 mm) Storm Resistant Fixed Vertical Louver

Material:

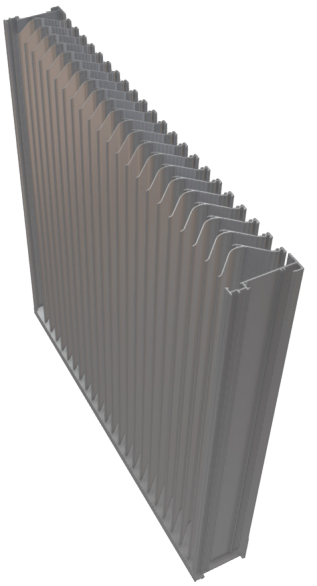
Material:	6063-T6 Alloy
Nominal Thickness: (heads, sills, jambs, & mullions):	0.080" (2.03 mm)
Nominal Blade Thickness:	0.060" (1.52 mm)
Furnished With:	Birdscreen: ½" (12.7mm) intercrimp aluminum mesh, 0.063" (1.60 mm) diameter wire removeable aluminum bird screen in an aluminum frame
Additional Options (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



SECTION VIEW



PLAN VIEW



Test Summary:
For a 4 Foot by 4 Foot Unit.
Tested with mill finish and no screen

- Free area = 8.67 ft² (0.80 m²)
- Percent free area = 54.4%
- 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 = 0.31 in. H20 (76.7 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 (984 FPM)
    - Max. intake free area velocity 8.5 m/s (1681 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 4.5 m/s (885 FPM)
    - Max. intake free area velocity 7.7 m/s (1512 FPM)

Construction Specialties Inc. certifies that the louver model RS-5900 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
Intake Cd = 0.33 (Class 2)
AMCA certifies the coefficient class only

Wind Driven Rain Performance: *Tested with 1m² core area, mill finish and no screen**

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	886	984
Free Area Velocity (ft/min):	0	167	337	504	671	841	1010	1177	1345	1514	1681
Rating Effectiveness:	A	A	A	A	A	A	A	A	A	A	A
Effectiveness Ratio (%):										100	99.8

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	692	792	885	985
Free Area Velocity (ft/min):	0	164	337	492	677	824	1005	1182	1353	1512	1683
Rating Effectiveness:	A	A	A	A	A	A	A	A	A	A	B
Effectiveness Ratio (%):								99.4	99.3	99.0	98.5

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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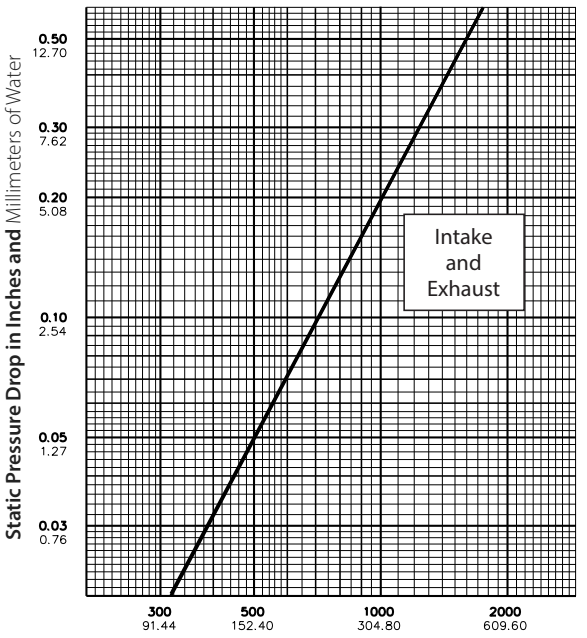
Model RS-5900

5" (127.0 mm) Storm Resistant Fixed Vertical Louver

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

	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	**0.81**	**1.17**	**1.54**	**1.90**	**2.26**	**2.62**	**2.98**	**3.34**	**3.71**	**4.07**
0.46	0.08	0.11	0.14	0.18	0.21	0.24	0.28	0.31	0.34	0.38
24	**1.19**	**1.72**	**2.25**	**2.77**	**3.30**	**3.83**	**4.36**	**4.89**	**5.42**	**5.94**
0.61	0.11	0.16	0.21	0.26	0.31	0.36	0.40	0.45	0.50	0.55
30	**1.56**	**2.26**	**2.95**	**3.65**	**4.34**	**5.04**	**5.73**	**6.43**	**7.13**	**7.82**
0.76	0.15	0.21	0.27	0.34	0.40	0.47	0.53	0.60	0.66	0.73
36	**1.94**	**2.80**	**3.66**	**4.53**	**5.39**	**6.25**	**7.11**	**7.97**	**8.84**	**9.70**
0.91	0.18	0.26	0.34	0.42	0.50	0.58	0.66	0.74	0.82	0.90
42	**2.31**	**3.34**	**4.37**	**5.40**	**6.43**	**7.46**	**8.49**	**9.52**	**10.55**	**11.57**
1.07	0.22	0.31	0.41	0.50	0.60	0.69	0.79	0.88	0.98	1.08
48	**2.69**	**3.89**	**5.08**	**6.28**	**7.47**	**8.67**	**9.86**	**11.06**	**12.26**	**13.45**
1.22	0.25	0.36	0.47	0.58	0.69	0.81	0.92	1.03	1.14	1.25
54	**3.07**	**4.43**	**5.79**	**7.15**	**8.52**	**9.88**	**11.24**	**12.60**	**13.97**	**15.33**
1.37	0.28	0.41	0.54	0.66	0.79	0.92	1.04	1.17	1.30	1.42
60	**3.44**	**4.97**	**6.50**	**8.03**	**9.56**	**11.09**	**12.62**	**14.15**	**15.68**	**17.20**
1.52	0.32	0.46	0.60	0.75	0.89	1.03	1.17	1.31	1.46	1.60
66	**3.82**	**5.51**	**7.21**	**8.90**	**10.60**	**12.30**	**13.99**	**15.69**	**17.39**	**19.08**
1.68	0.35	0.51	0.67	0.83	0.98	1.14	1.30	1.46	1.62	1.77
72	**4.19**	**6.05**	**7.92**	**9.78**	**11.64**	**13.51**	**15.37**	**17.23**	**19.10**	**20.96**
1.83	0.39	0.56	0.74	0.91	1.08	1.25	1.43	1.60	1.77	1.95
78	**4.57**	**6.60**	**8.63**	**10.66**	**12.69**	**14.72**	**16.75**	**18.78**	**20.81**	**22.84**
1.98	0.42	0.61	0.80	0.99	1.18	1.37	1.56	1.74	1.93	2.12
84	**4.94**	**7.14**	**9.34**	**11.53**	**13.73**	**15.93**	**18.12**	**20.32**	**22.52**	**24.71**
2.13	0.46	0.66	0.87	1.07	1.28	1.48	1.68	1.89	2.09	2.30
90	**5.32**	**7.68**	**10.04**	**12.41**	**14.77**	**17.14**	**19.50**	**21.86**	**24.23**	**26.59**
2.29	0.49	0.71	0.93	1.15	1.37	1.59	1.81	2.03	2.25	2.47
96	**5.69**	**8.22**	**10.75**	**13.28**	**15.81**	**18.34**	**20.88**	**23.41**	**25.94**	**28.47**
2.44	0.53	0.76	1.00	1.23	1.47	1.70	1.94	2.17	2.41	2.64
102	**6.07**	**8.77**	**11.46**	**14.16**	**16.86**	**19.55**	**22.25**	**24.95**	**27.65**	**30.34**
2.59	0.56	0.81	1.06	1.32	1.57	1.82	2.07	2.32	2.57	2.82
108	**6.44**	**9.31**	**12.17**	**15.04**	**17.90**	**20.76**	**23.63**	**26.49**	**29.36**	**32.22**
2.74	0.60	0.86	1.13	1.40	1.66	1.93	2.20	2.46	2.73	2.99
114	**6.82**	**9.85**	**12.88**	**15.91**	**18.94**	**21.97**	**25.00**	**28.03**	**31.07**	**34.10**
2.90	0.63	0.92	1.20	1.48	1.76	2.04	2.32	2.60	2.89	3.17
120	**7.19**	**10.39**	**13.59**	**16.79**	**19.99**	**23.18**	**26.38**	**29.58**	**32.78**	**35.97**
3.05	0.67	0.97	1.26	1.56	1.86	2.15	2.45	2.75	3.04	3.34

Upper Numerals English Units/Lower Numerals Metric Units

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