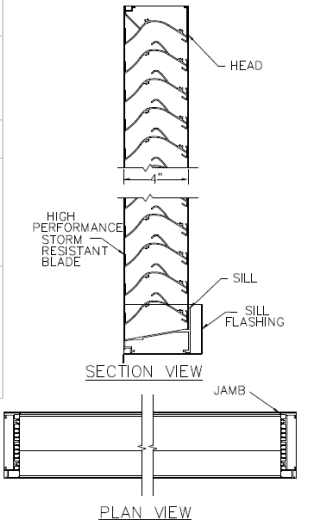
Model RS-4700

4" (101.6 mm) Storm Resistant Fixed Horizontal Louver

Material:

Material:	6063-T6 Alloy
Nominal Thickness:	Heads: 0.060" (1.52 mm) Sills: 0.070" (1.78 mm) Jambs & Mullions: 0.063"(1.60 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





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

Tested with mill finish and no screen

- Free area = 8.25 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) = 1,250 FPM (6.35 m/s)
- 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 3.0 m/s (600 FPM)
    - Max. intake free area velocity 5.3 m/s (1,049 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 1.5 m/s (290 FPM)
    - Max. intake free area velocity 2.6 m/s (507 FPM)

Construction Specialties Inc. certifies that the louver model RS-4700 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.

Discharge Coefficient
Intake Cd = 0.25 (Class 3)
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	132	197	287	377	469	600	684	773	880	985
Free Area Velocity (ft/min):	0	231	344	502	659	820	1049	1195	1351	1538	1721
Rating Effectiveness:	A	A	A	A	A	A	A	B	C	D	D
Effectiveness Ratio (%):					99.6	99.5	99.0	95.7	86.3	78.1	66.4

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	4.0	4.5	5.0
Core Velocity Through Louver (ft/min):	0	94	197	290	399	499	570	686	796	879	968
Free Area Velocity (ft/min):	0	164	344	507	697	872	996	1199	1391	1536	1692
Rating Effectiveness:	A	A	A	A	B	B	B	C	C	D	D
Effectiveness Ratio (%):		99.4	99.2	99.0	98.4	97.1	95.1	89.5	81.2	75.7	68.5

Effectiveness Rating:	A = 1 to 0.99	B = 0.989 to 0.95	C = 0.949 to 0.80	D = Below 0.80

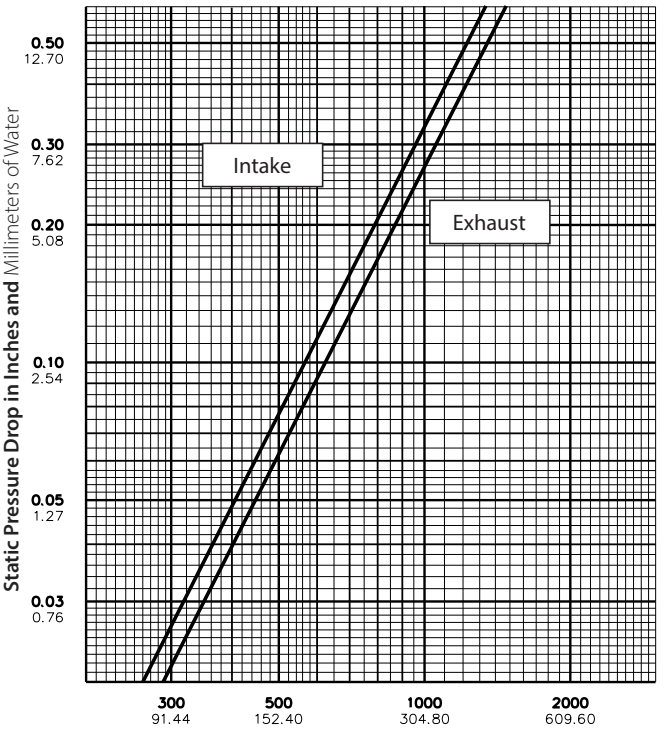
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Model RS-4700

4" (101.6 mm) Storm Resistant Fixed Horizontal 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	78	84	90
	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52	1.68	1.83	1.98	2.13	2.29
18	**0.91**	**1.25**	**1.59**	**1.92**	**2.26**	**2.60**	**2.94**	**3.28**	**3.62**	**3.96**	**4.30**	**4.64**	**4.98**
0.46	0.08	0.12	0.15	0.18	0.21	0.24	0.27	0.30	0.34	0.37	0.40	0.43	0.46
24	**1.27**	**1.74**	**2.21**	**2.69**	**3.16**	**3.63**	**4.10**	**4.58**	**5.05**	**5.52**	**6.00**	**6.47**	**6.94**
0.61	0.12	0.16	0.21	0.25	0.29	0.34	0.38	0.43	0.47	0.51	0.56	0.60	0.65
30	**1.69**	**2.32**	**2.95**	**3.58**	**4.21**	**4.84**	**5.47**	**6.10**	**6.73**	**7.36**	**7.99**	**8.62**	**9.25**
0.76	0.16	0.22	0.27	0.33	0.39	0.45	0.51	0.57	0.62	0.68	0.74	0.80	0.86
36	**2.07**	**2.85**	**3.62**	**4.39**	**5.17**	**5.94**	**6.72**	**7.49**	**8.26**	**9.04**	**9.81**	**10.59**	**11.36**
0.91	0.19	0.26	0.34	0.41	0.48	0.55	0.62	0.70	0.77	0.84	0.91	0.98	1.06
42	**2.42**	**3.32**	**4.22**	**5.13**	**6.03**	**6.93**	**7.84**	**8.74**	**9.64**	**10.54**	**11.45**	**12.35**	**13.25**
1.07	0.22	0.31	0.39	0.48	0.56	0.64	0.73	0.81	0.90	0.98	1.06	1.15	1.23
48	**2.88**	**3.95**	**5.03**	**6.10**	**7.18**	**8.25**	**9.33**	**10.40**	**11.48**	**12.55**	**13.63**	**14.70**	**15.78**
1.22	0.27	0.37	0.47	0.57	0.67	0.77	0.87	0.97	1.07	1.17	1.27	1.37	1.47
54	**3.22**	**4.43**	**5.63**	**6.83**	**8.04**	**9.24**	**10.45**	**11.65**	**12.86**	**14.06**	**15.26**	**16.47**	**17.67**
1.37	0.30	0.41	0.52	0.63	0.75	0.86	0.97	1.08	1.19	1.31	1.42	1.53	1.64
60	**3.67**	**5.04**	**6.41**	**7.78**	**9.15**	**10.53**	**11.90**	**13.27**	**14.64**	**16.01**	**17.38**	**18.75**	**20.12**
1.52	0.34	0.47	0.60	0.72	0.85	0.98	1.11	1.23	1.36	1.49	1.61	1.74	1.87
66	**4.03**	**5.53**	**7.04**	**8.54**	**10.05**	**11.55**	**13.06**	**14.56**	**16.07**	**17.57**	**19.08**	**20.59**	**22.09**
1.68	0.37	0.51	0.65	0.79	0.93	1.07	1.21	1.35	1.49	1.63	1.77	1.91	2.05
72	**4.45**	**6.11**	**7.77**	**9.43**	**11.10**	**12.76**	**14.42**	**16.08**	**17.75**	**19.41**	**21.07**	**22.73**	**24.39**
1.83	0.41	0.57	0.72	0.88	1.03	1.19	1.34	1.49	1.65	1.80	1.96	2.11	2.27
78	**4.83**	**6.64**	**8.45**	**10.25**	**12.06**	**13.87**	**15.67**	**17.48**	**19.28**	**21.09**	**22.90**	**24.70**	**26.51**
1.98	0.45	0.62	0.78	0.95	1.12	1.29	1.46	1.62	1.79	1.96	2.13	2.29	2.46
84	**5.18**	**7.11**	**9.05**	**10.98**	**12.92**	**14.86**	**16.79**	**18.73**	**20.66**	**22.60**	**24.53**	**26.47**	**28.40**
2.13	0.48	0.66	0.84	1.02	1.20	1.38	1.56	1.74	1.92	2.10	2.28	2.46	2.64
90	**5.64**	**7.75**	**9.85**	**11.96**	**14.07**	**16.18**	**18.28**	**20.39**	**22.50**	**24.60**	**26.71**	**28.82**	**30.93**
2.29	0.52	0.72	0.92	1.11	1.31	1.50	1.70	1.89	2.09	2.29	2.48	2.68	2.87
96	**5.98**	**8.22**	**10.46**	**12.69**	**14.93**	**17.17**	**19.40**	**21.64**	**23.87**	**26.11**	**28.35**	**30.58**	**32.82**
2.44	0.56	0.76	0.97	1.18	1.39	1.59	1.80	2.01	2.22	2.43	2.63	2.84	3.05
102	**6.43**	**8.84**	**11.24**	**13.64**	**16.05**	**18.45**	**20.85**	**23.25**	**25.66**	**28.06**	**30.46**	**32.87**	**35.27**
2.59	0.60	0.82	1.04	1.27	1.49	1.71	1.94	2.16	2.38	2.61	2.83	3.05	3.28
108	**6.79**	**9.33**	**11.87**	**14.40**	**16.94**	**19.48**	**22.01**	**24.55**	**27.09**	**29.63**	**32.16**	**34.70**	**37.24**
2.74	0.63	0.87	1.10	1.34	1.57	1.81	2.05	2.28	2.52	2.75	2.99	3.22	3.46
114	**7.21**	**9.90**	**12.60**	**15.29**	**17.99**	**20.68**	**23.38**	**26.07**	**28.76**	**31.46**	**34.15**	**36.85**	**39.54**
2.90	0.67	0.92	1.17	1.42	1.67	1.92	2.17	2.42	2.67	2.92	3.17	3.42	3.67
120	**7.60**	**10.43**	**13.27**	**16.11**	**18.95**	**21.79**	**24.63**	**27.46**	**30.30**	**33.14**	**35.98**	**38.82**	**41.66**
3.05	0.71	0.97	1.23	1.50	1.76	2.02	2.29	2.55	2.82	3.08	3.34	3.61	3.87
126	**7.94**	**10.91**	**13.88**	**16.84**	**19.81**	**22.78**	**25.75**	**28.71**	**31.68**	**34.65**	**37.61**	**40.58**	**43.55**
3.20	0.74	1.01	1.29	1.56	1.84	2.12	2.39	2.67	2.94	3.22	3.49	3.77	4.05
132	**8.40**	**11.54**	**14.68**	**17.82**	**20.96**	**24.10**	**27.24**	**30.38**	**33.52**	**36.66**	**39.80**	**42.93**	**46.07**
3.35	0.78	1.07	1.36	1.66	1.95	2.24	2.53	2.82	3.11	3.41	3.70	3.99	4.28
138	**8.75**	**12.02**	**15.28**	**18.55**	**21.82**	**25.09**	**28.36**	**31.63**	**34.89**	**38.16**	**41.43**	**44.70**	**47.97**
3.51	0.81	1.12	1.42	1.72	2.03	2.33	2.63	2.94	3.24	3.55	3.85	4.15	4.46
144	**9.19**	**12.63**	**16.06**	**19.50**	**22.94**	**26.37**	**29.81**	**33.24**	**36.68**	**40.11**	**43.55**	**46.98**	**50.42**
3.66	0.85	1.17	1.49	1.81	2.13	2.45	2.77	3.09	3.41	3.73	4.05	4.36	4.68
150	**9.55**	**13.12**	**16.69**	**20.26**	**23.83**	**27.40**	**30.97**	**34.54**	**38.11**	**41.68**	**45.25**	**48.82**	**52.39**
3.81	0.89	1.22	1.55	1.88	2.21	2.55	2.88	3.21	3.54	3.87	4.20	4.54	4.87
156	**9.97**	**13.70**	**17.43**	**21.15**	**24.88**	**28.60**	**32.33**	**36.06**	**39.78**	**43.51**	**47.24**	**50.96**	**54.69**
3.96	0.93	1.27	1.62	1.97	2.31	2.66	3.00	3.35	3.70	4.04	4.39	4.73	5.08
162	**10.36**	**14.23**	**18.10**	**21.97**	**25.84**	**29.71**	**33.58**	**37.45**	**41.32**	**45.19**	**49.06**	**52.93**	**56.80**
4.11	0.96	1.32	1.68	2.04	2.40	2.76	3.12	3.48	3.84	4.20	4.56	4.92	5.28
168	**10.70**	**14.70**	**18.70**	**22.70**	**26.70**	**30.70**	**34.70**	**38.70**	**42.70**	**46.70**	**50.70**	**54.70**	**58.70**
4.27	0.99	1.37	1.74	2.11	2.48	2.85	3.22	3.60	3.97	4.34	4.71	5.08	5.45
174	**11.16**	**15.34**	**19.51**	**23.68**	**27.85**	**32.02**	**36.19**	**40.36**	**44.54**	**48.71**	**52.88**	**57.05**	**61.22**
4.42	1.04	1.42	1.81	2.20	2.59	2.97	3.36	3.75	4.14	4.53	4.91	5.30	5.69
180	**11.51**	**15.81**	**20.11**	**24.41**	**28.71**	**33.01**	**37.31**	**41.61**	**45.91**	**50.21**	**54.51**	**58.81**	**63.11**
4.57	1.07	1.47	1.87	2.27	2.67	3.07	3.47	3.87	4.27	4.66	5.06	5.46	5.86
186	**11.96**	**16.42**	**20.89**	**25.36**	**29.83**	**34.29**	**38.76**	**43.23**	**47.70**	**52.16**	**56.63**	**61.10**	**65.57**
4.72	1.11	1.53	1.94	2.36	2.77	3.19	3.60	4.02	4.43	4.85	5.26	5.68	6.09
192	**12.32**	**16.92**	**21.52**	**26.12**	**30.72**	**35.32**	**39.92**	**44.53**	**49.13**	**53.73**	**58.33**	**62.93**	**67.53**
4.88	1.14	1.57	2.00	2.43	2.85	3.28	3.71	4.14	4.56	4.99	5.42	5.85	6.27
198	**12.74**	**17.49**	**22.25**	**27.01**	**31.77**	**36.53**	**41.29**	**46.04**	**50.80**	**55.56**	**60.32**	**65.08**	**69.84**
5.03	1.18	1.63	2.07	2.51	2.95	3.39	3.84	4.28	4.72	5.16	5.60	6.05	6.49

Upper Numerals English Units/Lower Numerals Metric Units

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