

**Model RS-5300**  
**5" (127.0 mm) Storm Resistant Fixed Horizontal Louver**

**Material:**

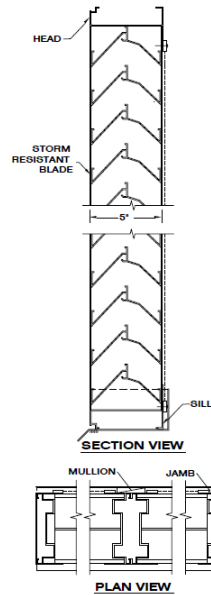
<b>Material:</b>	6063-T6 Alloy
<b>Nominal Thickness (heads, sills, jambs, &amp; mullions):</b>	0.080" (2.03 mm)
<b>Nominal Blade Thickness:</b>	0.060" (1.52 mm)
<b>Furnished With:</b>	Birdscreen: ½" intercrimp aluminum mesh, 0.063" diameter wire removeable aluminum bird screen in an aluminum frame
<b>Additional Options (at additional cost):</b>	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 = 7.56 ft² (0.70 m²)
- Percent free area = 47.3%
- Intake Pressure Drop at 1,000 FPM free area velocity = 0.39 in H<sub>2</sub>O (49.7 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 1.5 m/s (294 FPM)
    - Max. intake free area velocity 2.75 m/s (542 FPM)
- To maintain a CLASS B (95%) effectiveness rating\* with:
  - a 29.1 mph wind speed and rainfall rate of 3 in/hr
    - Max. intake core velocity 2.5 m/s (470 FPM)
    - Max. intake free area velocity 4.4 m/s (867 FPM)



**Discharge Coefficient**

Intake Cd = 0.22 (Class 3)

AMCA certifies the coefficient class only



Construction Specialties Inc. certifies that the louver model RS-5300 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 and air performance ratings.

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

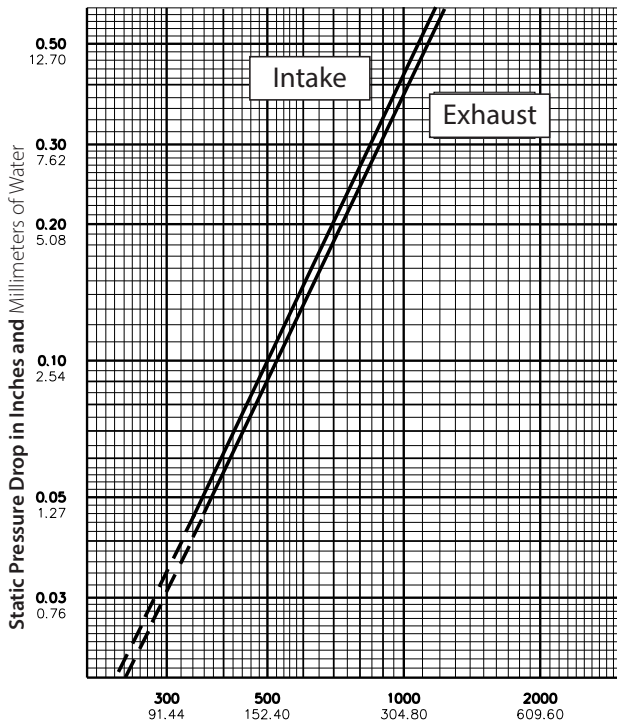
29.1 mph (13 m/s) & 3" (75 mm) rain per hour

<b>Core Velocity Through Cal. Plate (m/s):</b>	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5
<b>Core Velocity Through Louver (ft/min):</b>	0	101	195	294	394	470	581	680
<b>Free Area Velocity (ft/min):</b>	0	186	360	542	727	867	1072	1254
<b>Rating Effectiveness:</b>	A	A	A	A	B	B	C	D
<b>Effectiveness Ratio (%):</b>		99.7	99.5	99.0	98.3	96.6	92.6	78.7
<b>Effectiveness Rating:</b>	A = 1 to 0.99		B = 0.989 to 0.95		C = 0.949 to 0.80		D = Below 0.80	

**Model RS-5300**  
**5" (127.0 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" 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/architectural-louvers/louvers-airflow-tool>

**Width in Inches and Meters**

	18	24	30	36	42	48	54	60	66
	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52	1.68
18	0.67	0.95	1.23	1.51	1.79	2.07	2.35	2.63	2.73
0.46	0.06	0.09	0.11	0.14	0.17	0.19	0.22	0.24	0.25
24	1.04	1.48	1.92	2.35	2.79	3.23	3.67	4.11	4.27
0.61	0.10	0.14	0.18	0.22	0.26	0.30	0.34	0.38	0.40
30	1.41	2.01	2.61	3.20	3.80	4.39	4.99	5.58	5.81
0.76	0.13	0.19	0.24	0.30	0.35	0.41	0.46	0.52	0.54
36	1.78	2.52	3.27	4.02	4.77	5.52	6.26	7.01	7.29
0.91	0.17	0.23	0.30	0.37	0.44	0.51	0.58	0.65	0.68
42	2.11	3.00	3.89	4.78	5.67	6.56	7.44	8.33	8.67
1.07	0.20	0.28	0.36	0.44	0.53	0.61	0.69	0.77	0.81
48	2.44	3.46	4.49	5.51	6.54	7.56	8.59	9.62	10.00
1.22	0.23	0.32	0.42	0.51	0.61	0.70	0.80	0.89	0.93
54	2.80	3.98	5.16	6.34	7.52	8.70	9.88	11.06	11.50
1.37	0.26	0.37	0.48	0.59	0.70	0.81	0.92	1.03	1.07
60	3.18	4.51	5.85	7.19	8.52	9.86	11.20	12.54	13.04
1.52	0.30	0.42	0.54	0.67	0.79	0.92	1.04	1.16	1.21
66	3.55	5.04	6.54	8.03	9.53	11.02	12.52	14.01	14.57
1.68	0.33	0.47	0.61	0.75	0.89	1.02	1.16	1.30	1.35
72	3.90	5.54	7.18	8.82	10.46	12.10	13.74	15.38	16.00
1.83	0.36	0.51	0.67	0.82	0.97	1.12	1.28	1.43	1.49
78	4.22	6.00	7.78	9.56	11.33	13.11	14.89	16.67	17.33
1.98	0.39	0.56	0.72	0.89	1.05	1.22	1.38	1.55	1.61
84	4.56	6.48	8.41	10.33	12.25	14.17	16.09	18.01	18.73
2.13	0.42	0.60	0.78	0.96	1.14	1.32	1.49	1.67	1.74
90	4.94	7.02	9.10	11.17	13.25	15.33	17.41	19.49	20.27
2.29	0.46	0.65	0.84	1.04	1.23	1.42	1.62	1.81	1.88
96	5.31	7.55	9.78	12.02	14.26	16.49	18.73	20.97	21.81
2.44	0.49	0.70	0.91	1.12	1.32	1.53	1.74	1.95	2.03
102	5.67	8.06	10.45	12.84	15.23	17.62	20.01	22.40	23.29
2.59	0.53	0.75	0.97	1.19	1.41	1.64	1.86	2.08	2.16
108	6.01	8.54	11.07	13.60	16.13	18.66	21.19	23.72	24.67
2.74	0.56	0.79	1.03	1.26	1.50	1.73	1.97	2.20	2.29
114	6.33	9.00	11.67	14.33	17.00	19.67	22.33	25.00	26.00
2.90	0.59	0.84	1.08	1.33	1.58	1.83	2.07	2.32	2.42
120	6.70	9.52	12.34	15.16	17.98	20.80	23.62	26.44	27.50
3.05	0.62	0.88	1.15	1.41	1.67	1.93	2.19	2.46	2.55
126	7.07	10.05	13.03	16.01	18.99	21.96	24.94	27.92	29.04
3.20	0.66	0.93	1.21	1.49	1.76	2.04	2.32	2.59	2.70
132	7.45	10.58	13.72	16.85	19.99	23.13	26.26	29.40	30.57
3.35	0.69	0.98	1.27	1.57	1.86	2.15	2.44	2.73	2.84
138	7.79	11.08	14.36	17.64	20.92	24.20	27.49	30.77	32.00
3.51	0.72	1.03	1.33	1.64	1.94	2.25	2.55	2.86	2.97
144	8.12	11.54	14.96	18.38	21.79	25.21	28.63	32.05	33.33
3.66	0.75	1.07	1.39	1.71	2.02	2.34	2.66	2.98	3.10
150	8.46	12.02	15.59	19.15	22.71	26.27	29.83	33.40	34.73
3.81	0.79	1.12	1.45	1.78	2.11	2.44	2.77	3.10	3.23
156	8.83	12.55	16.27	19.99	23.71	27.43	31.15	34.87	36.27
3.96	0.82	1.17	1.51	1.86	2.20	2.55	2.89	3.24	3.37
162	9.21	13.09	16.96	20.84	24.72	28.60	32.47	36.35	37.81
4.11	0.86	1.22	1.58	1.94	2.30	2.66	3.02	3.38	3.51
168	9.57	13.60	17.63	21.66	25.69	29.72	33.75	37.78	39.29
4.27	0.89	1.26	1.64	2.01	2.39	2.76	3.14	3.51	3.65
174	9.91	14.08	18.25	22.42	26.59	30.76	34.93	39.10	40.67
4.42	0.92	1.31	1.70	2.08	2.47	2.86	3.25	3.63	3.78
180	10.23	14.54	18.85	23.15	27.46	31.77	36.08	40.38	42.00

**Height in Inches and Meters**

Upper Numerals English Units/Lower Numerals Metric Units