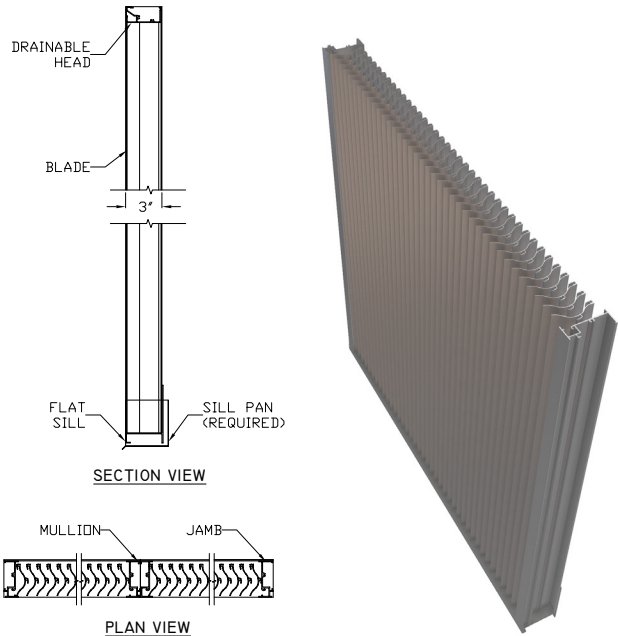


**Model RS-3900**  
**3" (76.2 mm) Storm Resistant Fixed Vertical Louver**

**Material:**

<b>Material:</b>	6063-T6 Alloy
<b>Nominal Thickness:</b>	Sills, Jambes & Mullions: 0.080" (2.03 mm) Heads: 0.060" (1.52 mm)
<b>Nominal Blade Thickness:</b>	0.050" (1.27 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 \*and 1m<sup>2</sup> core area*

- Free area = 8.2 ft<sup>2</sup> (0.76 m<sup>2</sup>)
- Percent free area = 51.3%
- Free area velocity at the point of beginning water penetration (@ 0.01oz. / ft<sup>2</sup> of free area based on a 15 minute interval test) = 1250 FPM (6.35 m/s)
- Intake pressure drop at 0.01 oz. / ft<sup>2</sup> free area velocity = 0.28 in. H<sub>2</sub>O (69.7 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 (949 FPM)
    - Max. intake free area velocity 8.64 m/s (1702 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 (960 FPM)
    - Max. intake free area velocity 8.74 m/s (1722 FPM)



**Construction Specialties Inc. certifies that the louver model RS-3900 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.

**Discharge Coefficient**

Intake Cd = 0.33 (Class 2)

AMCA certifies the coefficient class only

**Wind Driven Rain Performance:**

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	4.0	4.5	5.0
<b>Core Velocity Through Louver (ft/min):</b>	0	98	196	294	393	492	590	688	786	885	949
<b>Free Area Velocity (ft/min):</b>	0	176	352	527	705	883	1058	1234	1410	1588	1702
<b>Rating Effectiveness:</b>	A	A	A	A	A	A	A	A	A	A	A
<b>Effectiveness Ratio (%):</b>											100

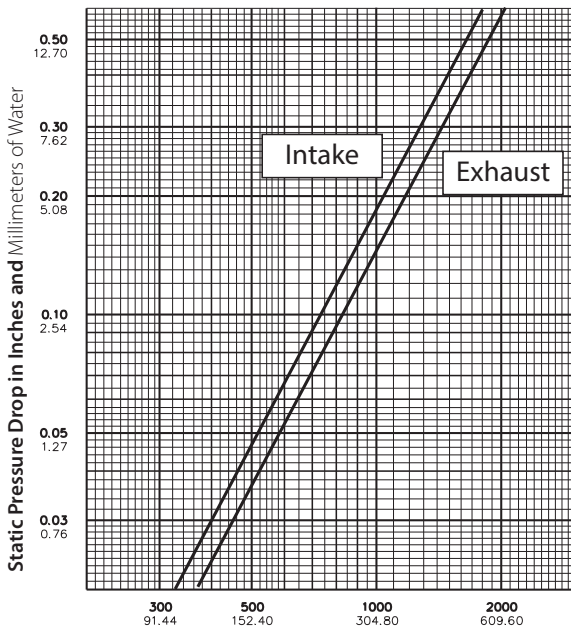
50 mph (22.3 m/s) & 8" (203 mm) rain per hour

<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	4.0	4.5	5.0	
<b>Core Velocity Through Louver (ft/min):</b>	0	95	191	291	381	473	575	662	763	860	960	
<b>Free Area Velocity (ft/min):</b>	0	170	343	522	684	849	1032	1188	1369	1543	1722	
<b>Rating Effectiveness:</b>	A	A	A	A	A	A	A	A	A	A	A	
<b>Effectiveness Ratio (%):</b>											100	
<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-3900**  
**3" (76.2 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" 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>

Height in Inches and Meters	Width in Inches and Meters										
	12	18	24	30	36	42	48	54	60	66	72
12	0.21	0.36	0.51	0.64	0.79	0.94	1.09	1.24	1.39	1.53	1.66
0.30	0.02	0.03	0.05	0.06	0.07	0.09	0.10	0.11	0.13	0.14	0.15
18	0.45	0.76	1.07	1.34	1.65	1.96	2.27	2.58	2.90	3.21	3.48
0.46	0.04	0.07	0.10	0.12	0.15	0.18	0.21	0.24	0.27	0.30	0.32
24	0.68	1.15	1.63	2.03	2.51	2.98	3.46	3.93	4.41	4.88	5.29
0.61	0.06	0.11	0.15	0.19	0.23	0.28	0.32	0.37	0.41	0.45	0.49
30	0.91	1.55	2.19	2.73	3.37	4.01	4.64	5.28	5.92	6.56	7.10
0.76	0.08	0.14	0.20	0.25	0.31	0.37	0.43	0.49	0.55	0.61	0.66
36	1.14	1.94	2.74	3.43	4.23	5.03	5.83	6.63	7.43	8.23	8.92
0.91	0.11	0.18	0.25	0.32	0.39	0.47	0.54	0.62	0.69	0.76	0.83
42	1.38	2.34	3.30	4.13	5.09	6.05	7.02	7.98	8.94	9.90	10.73
1.07	0.13	0.22	0.31	0.38	0.47	0.56	0.65	0.74	0.83	0.92	1.00
48	1.61	2.73	3.86	4.82	5.95	7.08	8.20	9.33	10.45	11.58	12.54
1.22	0.15	0.25	0.36	0.45	0.55	0.66	0.76	0.87	0.97	1.08	1.17
54	1.84	3.13	4.42	5.52	6.81	8.10	9.39	10.68	11.96	13.25	14.36
1.37	0.17	0.29	0.41	0.51	0.63	0.75	0.87	0.99	1.11	1.23	1.33
60	2.07	3.52	4.98	6.22	7.67	9.12	10.57	12.02	13.48	14.93	16.17
1.52	0.19	0.33	0.46	0.58	0.71	0.85	0.98	1.12	1.25	1.39	1.50
66	2.31	3.92	5.53	6.92	8.53	10.14	11.76	13.37	14.99	16.60	17.98
1.68	0.21	0.36	0.51	0.64	0.79	0.94	1.09	1.24	1.39	1.54	1.67
72	2.54	4.31	6.09	7.61	9.39	11.17	12.94	14.72	16.50	18.27	19.80
1.83	0.24	0.40	0.57	0.71	0.87	1.04	1.20	1.37	1.53	1.70	1.84
78	2.77	4.71	6.65	8.31	10.25	12.19	14.13	16.07	18.01	19.95	21.61
1.98	0.26	0.44	0.62	0.77	0.95	1.13	1.31	1.49	1.67	1.85	2.01
84	3.00	5.11	7.21	9.01	11.11	13.21	15.32	17.42	19.52	21.62	23.42
2.13	0.28	0.47	0.67	0.84	1.03	1.23	1.42	1.62	1.81	2.01	2.18
90	3.24	5.50	7.77	9.71	11.97	14.24	16.50	18.77	21.03	23.30	25.24
2.29	0.30	0.51	0.72	0.90	1.11	1.32	1.53	1.74	1.95	2.16	2.34
96	3.47	5.90	8.32	10.40	12.83	15.26	17.69	20.12	22.54	24.97	27.05
2.44	0.32	0.55	0.77	0.97	1.19	1.42	1.64	1.87	2.09	2.32	2.51
102	3.70	6.29	8.88	11.10	13.69	16.28	18.87	21.46	24.05	26.64	28.86
2.59	0.34	0.58	0.83	1.03	1.27	1.51	1.75	1.99	2.23	2.48	2.68
108	3.93	6.69	9.44	11.80	14.55	17.31	20.06	22.81	25.57	28.32	30.68
2.74	0.37	0.62	0.88	1.10	1.35	1.61	1.86	2.12	2.38	2.63	2.85
114	4.17	7.08	10.00	12.50	15.41	18.33	21.24	24.16	27.08	29.99	32.49
2.90	0.39	0.66	0.93	1.16	1.43	1.70	1.97	2.24	2.52	2.79	3.02
120	4.40	7.48	10.56	13.19	16.27	19.35	22.43	25.51	28.59	31.67	34.31
3.05	0.41	0.69	0.98	1.23	1.51	1.80	2.08	2.37	2.66	2.94	3.19

Upper Numerals English Units/Lower Numerals Metric Units