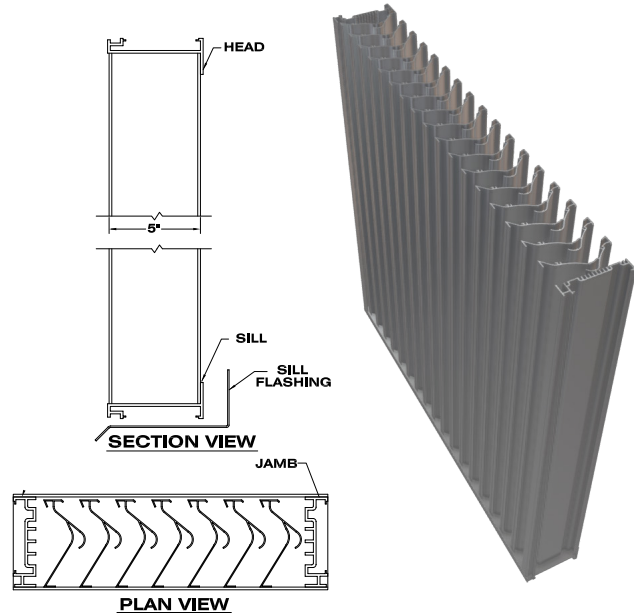


Model BLV-5709

5" (127.0 mm) Blast Resistant Vertical Storm Resistant 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



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

Tested with mill finish and no screen

- Free area = 7.32 ft² (0.68 m²)
- Percent free area = 45.9%
- Intake pressure drop at 1000 FPM free area velocity = 0.16 in H₂O (38.7 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 (986 FPM)
 - Max. intake free area velocity 9.9 m/s (1,956FPM)
- 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 (980 FPM)
 - Max. intake free area velocity 10.49 m/s (2,064 FPM)

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

Discharge Coefficient
 Intake Cd = 0.33 (Class 2)
 AMCA certifies the coefficient class only

Construction Specialties Inc. certifies that the louver model BLV-5709 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.

Blast Data:

Model BLV-5709 is designed to withstand up to an 12.6 psi blast pressure at an impulse of 77.8 psi-msec.

Typical Blast Requirements:

Pressure	4.0 psi	6.0 psi	8.0 psi	12.6 psi
Impulse	28.0 psi-msec	42.0 psi-msec	59.0 psi-msec	77.8 psi-msec



Model BLV-5709

5" (127.0 mm) Blast Resistant Vertical Storm Resistant Louver

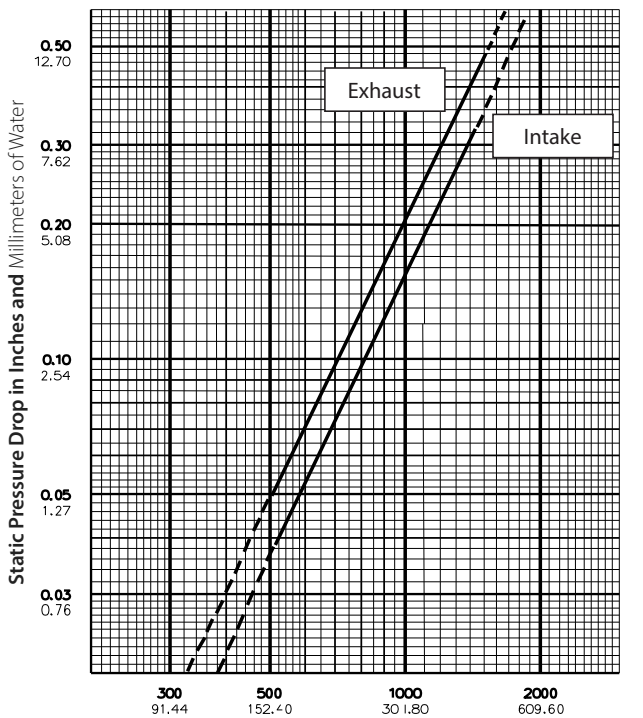
Wind Driven Rain Performance: Tested with 1m² core area, mill finish and no screen

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	380	472	587	680	780	874	986
Free Area Velocity (ft/min):	0	278	415	605	800	994	1236	1432	1643	1734	1956
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	132	197	287	380	472	587	680	789	888	980
Free Area Velocity (ft/min):	0	278	415	605	800	994	1236	1432	1662	1871	2064
Rating Effectiveness:	A	A	A	A	A	A	A	A	A	A	A
Effectiveness Ratio (%):									99.8	99.7	99.6
Effectiveness Rating:	A = 1 to 0.99			B = 0.989 to 0.95			C = 0.949 to 0.80			D = Below 0.80	



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>

Height in Inches and Meters	Width 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	1.15	1.50	1.84	2.19	2.53	2.88	3.23	3.57	3.92
0.46	0.07	0.11	0.14	0.17	0.20	0.24	0.27	0.30	0.33	0.36
24	1.11	1.59	2.06	2.54	3.02	3.49	3.97	4.45	4.92	5.40
0.61	0.10	0.15	0.19	0.24	0.28	0.32	0.37	0.41	0.46	0.50
30	1.42	2.02	2.63	3.24	3.84	4.45	5.06	5.66	6.27	6.88
0.76	0.13	0.19	0.24	0.30	0.36	0.41	0.47	0.53	0.58	0.64
36	1.72	2.46	3.20	3.93	4.67	5.41	6.15	6.88	7.62	8.36
0.91	0.16	0.23	0.30	0.37	0.43	0.50	0.57	0.64	0.71	0.78
42	2.03	2.89	3.76	4.63	5.50	6.37	7.23	8.10	8.97	9.84
1.07	0.19	0.27	0.35	0.43	0.51	0.59	0.67	0.75	0.83	0.91
48	2.33	3.33	4.33	5.33	6.33	7.32	8.32	9.32	10.32	11.32
1.22	0.22	0.31	0.40	0.49	0.59	0.68	0.77	0.87	0.96	1.05
54	2.64	3.76	4.89	6.02	7.15	8.28	9.41	10.54	11.67	12.80
1.37	0.24	0.35	0.45	0.56	0.66	0.77	0.87	0.98	1.08	1.19
60	2.94	4.20	5.46	6.72	7.98	9.24	10.50	11.76	13.02	14.28
1.52	0.27	0.39	0.51	0.62	0.74	0.86	0.98	1.09	1.21	1.33
66	3.25	4.64	6.03	7.42	8.81	10.20	11.59	12.98	14.37	15.76
1.68	0.30	0.43	0.56	0.69	0.82	0.95	1.08	1.21	1.34	1.46
72	3.55	5.07	6.59	8.11	9.64	11.16	12.68	14.20	15.72	17.24
1.83	0.33	0.47	0.61	0.75	0.90	1.04	1.18	1.32	1.46	1.60
78	3.85	5.51	7.16	8.81	10.46	12.11	13.77	15.42	17.07	18.72
1.98	0.36	0.51	0.67	0.82	0.97	1.13	1.28	1.43	1.59	1.74
84	4.16	5.94	7.72	9.51	11.29	13.07	14.86	16.64	18.42	20.20
2.13	0.39	0.55	0.72	0.88	1.05	1.21	1.38	1.55	1.71	1.88
90	4.46	6.38	8.29	10.20	12.12	14.03	15.94	17.86	19.77	21.68
2.29	0.41	0.59	0.77	0.95	1.13	1.30	1.48	1.66	1.84	2.01
96	4.77	6.81	8.86	10.90	12.94	14.99	17.03	19.08	21.12	23.16
2.44	0.44	0.63	0.82	1.01	1.20	1.39	1.58	1.77	1.96	2.15
102	5.07	7.25	9.42	11.60	13.77	15.95	18.12	20.30	22.47	24.65
2.59	0.47	0.67	0.88	1.08	1.28	1.48	1.68	1.89	2.09	2.29
108	5.38	7.68	9.99	12.29	14.60	16.90	19.21	21.52	23.82	26.13
2.74	0.50	0.71	0.93	1.14	1.36	1.57	1.78	2.00	2.21	2.43
114	5.68	8.12	10.56	12.99	15.43	17.86	20.30	22.73	25.17	27.61
2.90	0.53	0.75	0.98	1.21	1.43	1.66	1.89	2.11	2.34	2.56
120	5.99	8.55	11.12	13.69	16.25	18.82	21.39	23.95	26.52	29.09
3.05	0.56	0.79	1.03	1.27	1.51	1.75	1.99	2.23	2.46	2.70
126	6.19	8.85	11.50	14.16	16.81	19.47	22.12	24.77	27.43	30.08
3.20	0.58	0.82	1.07	1.32	1.56	1.81	2.05	2.30	2.55	2.79
132	6.50	9.28	12.07	14.85	17.64	20.42	23.21	25.99	28.78	31.56
3.35	0.60	0.86	1.12	1.38	1.64	1.90	2.16	2.41	2.67	2.93
138	6.80	9.72	12.63	15.55	18.47	21.38	24.30	27.21	30.13	33.04
3.51	0.63	0.90	1.17	1.44	1.72	1.99	2.26	2.53	2.80	3.07
144	7.11	10.15	13.20	16.25	19.29	22.34	25.39	28.43	31.48	34.52
3.66	0.66	0.94	1.23	1.51	1.79	2.08	2.36	2.64	2.92	3.21

Upper Numerals English Units/Lower Numerals Metric Units