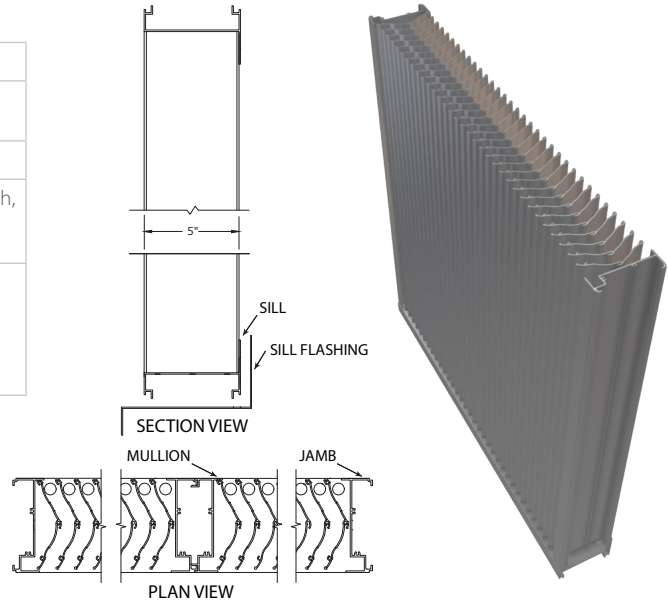


Model BL-5609
5" (127.0 mm) Blast Resistant Vertical Storm Resistant Louver

Material:

Material:	6063-T6 Alloy
Nominal Thickness:	Heads & Sills: 0.080" (2.03 mm) Jambes & Mullions: 0.125" (3.18 mm)
Nominal Blade Thickness:	0.060" (1.52 mm)
Furnished With:	Birdscreen: ½" intercrimp aluminum mesh, 0.063" 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 = 9.46 ft² (0.88 m²)
- Percent free area = 59.2%
- Intake Pressure Drop at 1,000 FPM free area velocity = 0.10 in H₂O (24.8Pa)
- 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 (984 FPM)
 - Max. intake free area velocity 7.62 m/s (1,500 FPM)

Discharge Coefficient

Intake Cd = 0.53 (Class 1)

AMCA certifies the coefficient class only



Construction Specialties Inc. certifies that the louver model BL-5609 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 only.

Blast Data:

Model BL-5609 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

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

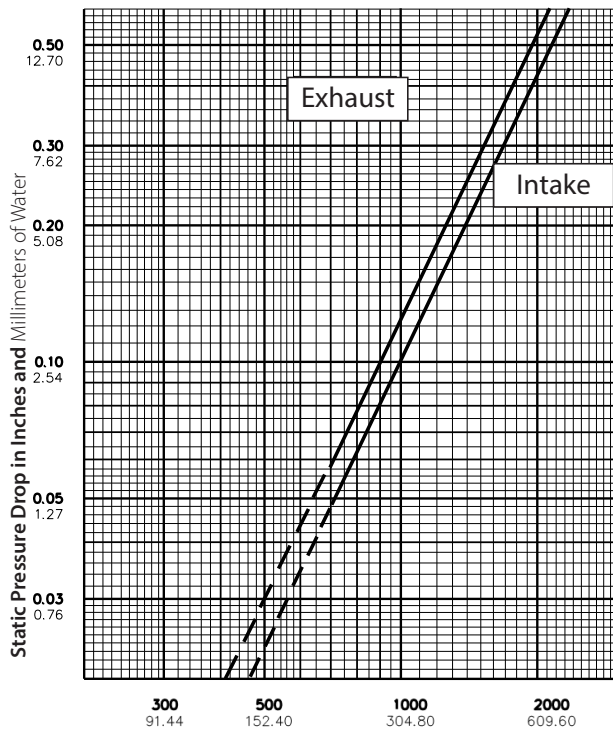
50 mph (22.3 m/s) & 8" (203 mm) rain per hour

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	98	197	295	394	492	591	689	787	886	984
Free Area Velocity (ft/min):	0	149	300	450	601	750	901	1051	1200	1351	1500
Rating Effectiveness:	A	A	A	A	A	A	A	A	A	A	A
Effectiveness Ratio (%):									100.0	99.9	99.9
Effectiveness Rating:	A = 1 to 0.99			B = 0.989 to 0.95			C = 0.949 to 0.80			D = Below 0.80	

Model BL-5609
5" (127.0 mm) Blast Resistant Vertical Storm Resistant 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
	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52
18	0.93	1.33	1.72	2.12	2.52	2.92	3.31	3.71
	0.46	0.09	0.12	0.16	0.20	0.23	0.27	0.31
24	1.34	1.92	2.50	3.07	3.65	4.22	4.80	5.38
	0.61	0.12	0.18	0.23	0.29	0.34	0.39	0.45
30	1.76	2.51	3.27	4.02	4.78	5.53	6.29	7.04
	0.76	0.16	0.23	0.30	0.37	0.44	0.51	0.58
36	2.18	3.11	4.04	4.97	5.91	6.84	7.77	8.71
	0.91	0.20	0.29	0.38	0.46	0.55	0.64	0.72
42	2.59	3.70	4.81	5.93	7.04	8.15	9.26	10.37
	1.07	0.24	0.34	0.45	0.55	0.65	0.76	0.86
48	3.01	4.30	5.59	6.88	8.17	9.46	10.75	12.04
	1.22	0.28	0.40	0.52	0.64	0.76	0.88	1.00
54	3.42	4.89	6.36	7.83	9.30	10.76	12.23	13.70
	1.37	0.32	0.45	0.59	0.73	0.86	1.00	1.14
60	3.84	5.49	7.13	8.78	10.43	12.07	13.72	15.36
	1.52	0.36	0.51	0.66	0.82	0.97	1.12	1.27
66	4.26	6.08	7.91	9.73	11.56	13.38	15.21	17.03
	1.68	0.40	0.57	0.73	0.90	1.07	1.24	1.41
72	4.67	6.68	8.68	10.68	12.69	14.69	16.69	18.69
	1.83	0.43	0.62	0.81	0.99	1.18	1.36	1.55
78	5.09	7.27	9.45	11.63	13.82	16.00	18.18	20.36
	1.98	0.47	0.68	0.88	1.08	1.28	1.49	1.69
84	5.51	7.87	10.23	12.59	14.94	17.30	19.66	22.02
	2.13	0.51	0.73	0.95	1.17	1.39	1.61	1.83
90	5.71	8.16	10.61	13.06	15.51	17.96	20.41	22.86
	2.29	0.53	0.76	0.99	1.21	1.44	1.67	1.90
96	6.13	8.76	11.38	14.01	16.64	19.27	21.89	24.52
	2.44	0.57	0.81	1.06	1.30	1.55	1.79	2.03
102	6.55	9.35	12.16	14.96	17.77	20.57	23.38	26.19
	2.59	0.61	0.87	1.13	1.39	1.65	1.91	2.17
108	6.96	9.95	12.93	15.91	18.90	21.88	24.87	27.85
	2.74	0.65	0.92	1.20	1.48	1.76	2.03	2.31
114	7.38	10.54	13.70	16.87	20.03	23.19	26.35	29.52
	2.90	0.69	0.98	1.27	1.57	1.86	2.15	2.45
120	7.79	11.14	14.48	17.82	21.16	24.50	27.84	31.18
	3.05	0.72	1.03	1.34	1.66	1.97	2.28	2.59
126	8.21	11.73	15.25	18.77	22.29	25.81	29.33	32.85
	3.20	0.76	1.09	1.42	1.74	2.07	2.40	2.72
132	8.63	12.32	16.02	19.72	23.42	27.12	30.81	34.51
	3.35	0.80	1.15	1.49	1.83	2.18	2.52	2.86
138	9.04	12.92	16.80	20.67	24.55	28.42	32.30	36.17
	3.51	0.84	1.20	1.56	1.92	2.28	2.64	3.00
144	9.46	13.51	17.57	21.62	25.68	29.73	33.79	37.84
	3.66	0.88	1.26	1.63	2.01	2.39	2.76	3.14
150	9.88	14.11	18.34	22.57	26.81	31.04	35.27	39.50
	3.81	0.92	1.31	1.70	2.10	2.49	2.88	3.28
156	10.29	14.70	19.11	23.53	27.94	32.35	36.76	41.17
	3.96	0.96	1.37	1.78	2.19	2.60	3.01	3.41
162	10.71	15.30	19.89	24.48	29.07	33.66	38.24	42.83
	4.11	0.99	1.42	1.85	2.27	2.70	3.13	3.55
168	11.12	15.89	20.66	25.43	30.20	34.96	39.73	44.50
	4.27	1.03	1.48	1.92	2.36	2.81	3.25	3.69
174	11.33	16.19	21.05	25.90	30.76	35.62	40.47	45.33
	4.42	1.05	1.50	1.96	2.41	2.86	3.31	3.76
180	11.75	16.78	21.82	26.85	31.89	36.93	41.96	47.00
	4.57	1.09	1.56	2.03	2.49	2.96	3.43	3.90
186	12.16	17.38	22.59	27.81	33.02	38.23	43.45	48.66
	4.72	1.13	1.61	2.10	2.58	3.07	3.55	4.04
192	12.58	17.97	23.37	28.76	34.15	39.54	44.93	50.33
	4.88	1.17	1.67	2.17	2.67	3.17	3.67	4.17
198	13.00	18.57	24.14	29.71	35.28	40.85	46.42	51.99
	5.03	1.21	1.72	2.24	2.76	3.28	3.80	4.31

Upper Numerals English Units/Lower Numerals Metric Units