

BL-4089

Material

- Material: aluminium alloy 6063-T6
- Nominal thickness: 1.73 mm for blades, 2.05 mm for head, cill and jamb frames, and for mullions
- Optional extras: bird/vermin guards, insect mesh, blanking plates, insulated blanking panels, cill pans and integrated glazing frames

Test Summary

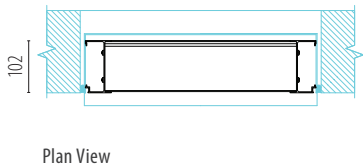
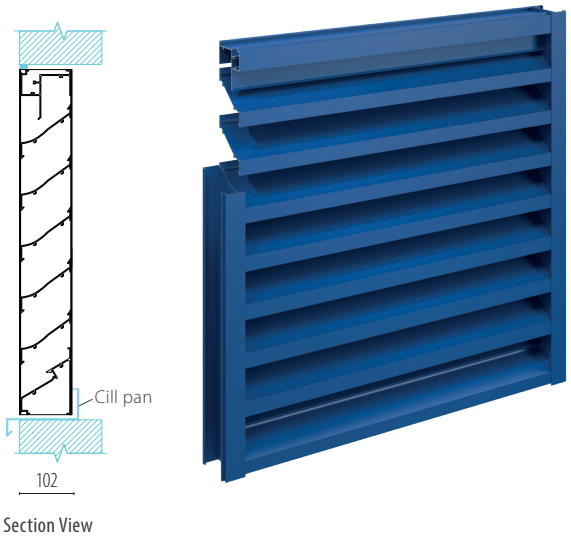
Tested with mill finish and no accessories.

For a 1220 mm x 1220 mm (4' x 4') unit.

- Free area = 0.804 m² (8.65 ft²)
- Percent free area = 54%
- Free area velocity at the point of beginning water penetration (at 3.05 g/m² (0.01 oz. / ft²) of free area, based on a 15-minute interval test) = 4.41 m/s (868 FPM)
- Intake pressure drop at 3.05 g/m² (0.01 oz. / ft²) free area velocity = 40.3 Pa (0.162 in. H₂O)

Construction Specialties UK Ltd certifies that the louvre model BL-4089 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 water penetration and air performance ratings.



Discharge Coefficient (C_d)

Intake = 0.34 (Class 2), Exhaust = 0.39 (Class 2)
AMCA certifies the coefficient class only

Blast Data:

Model BL-4089 is designed to withstand up to 86.87 kPa (12.6 psi) blast pressure at an impulse of 536.41 kPa-msec (77.8 psi-msec).

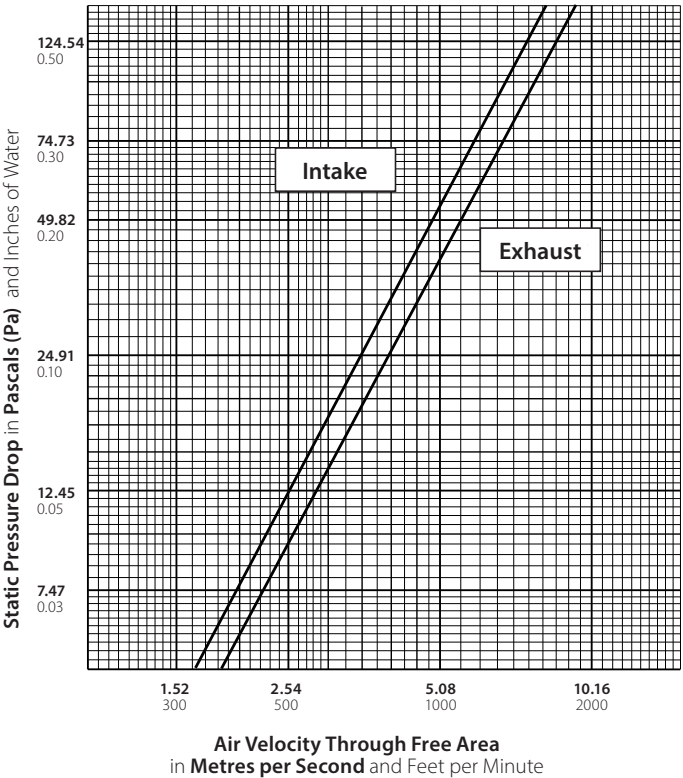
Typical Blast Requirements:

Pressure (kPa)	27.57	41.36	55.15	86.87
Pressure (psi)	4.0	6.0	8.0	12.6
Impulse (kPa-msec)	193.05	289.58	406.79	536.41
Impulse (psi-msec)	28.0	42.0	59.0	77.8

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Water Penetration Statement

AMCA defines the point of beginning water penetration as the free area velocity at which the AMCA water test has yielded 3.05 grams or less of water per square metre (0.01 oz./ft²) of louver free area during a 15-minute test period.



Data corrected to standard air density.
1220 mm x 1220 mm (48" x 48") louver tested to figure 5.5.

Free Area Table (Free area in sq. feet and sq. metres)

For additional sizes, please visit:

<https://www.csgroup.com/architectural-louvers/louvers-airflow-tool>

Width in Inches and Metres

	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	0.87	1.24	1.62	1.99	2.36	2.73	3.11	3.48
0.46	0.08	0.12	0.15	0.18	0.22	0.25	0.29	0.32
24	1.2	1.74	2.27	2.81	3.35	3.89	4.43	4.96
0.61	0.11	0.16	0.21	0.26	0.31	0.36	0.41	0.46
30	1.47	2.13	2.79	3.45	4.1	4.76	5.42	6.08
0.76	0.14	0.20	0.26	0.32	0.38	0.44	0.50	0.56
36	1.93	2.8	3.67	4.54	5.4	6.27	7.14	8
0.91	0.18	0.26	0.34	0.42	0.50	0.58	0.66	0.74
42	2.2	3.19	4.18	5.17	6.16	7.14	8.13	9.12
1.07	0.20	0.30	0.39	0.48	0.57	0.66	0.76	0.85
48	2.67	3.86	5.06	6.26	7.45	8.65	9.85	11.05
1.22	0.25	0.36	0.47	0.58	0.69	0.80	0.91	1.13
54	2.94	4.26	5.57	6.89	8.21	9.53	10.84	12.16
1.37	0.27	0.40	0.52	0.64	0.76	0.88	1.01	1.13
60	3.4	4.93	6.45	7.98	9.51	11.03	12.56	14.09
1.52	0.32	0.46	0.60	0.74	0.88	1.03	1.17	1.31
66	3.67	5.32	6.97	8.61	10.26	11.91	13.55	15.2
1.68	0.34	0.49	0.65	0.80	0.95	1.11	1.26	1.41
72	4.14	5.99	7.85	9.7	11.56	13.41	15.27	17.13
1.83	0.38	0.56	0.73	0.90	1.07	1.25	1.42	1.59
78	4.41	6.38	8.36	10.34	12.31	14.29	16.27	18.24
1.98	0.41	0.59	0.78	0.96	1.14	1.33	1.51	1.69
84	4.87	7.06	9.24	11.43	13.61	15.8	17.98	20.17
2.13	0.45	0.66	0.86	1.06	1.26	1.47	1.67	1.87
90	5.14	7.45	9.75	12.06	14.36	16.67	18.98	21.28
2.29	0.48	0.69	0.91	1.12	1.33	1.55	1.76	1.98
96	5.61	8.12	10.63	13.15	15.66	18.18	20.69	23.21
2.44	0.52	0.75	0.99	1.22	1.46	1.69	1.92	2.16
102	5.87	8.51	11.15	13.78	16.42	19.05	21.69	24.32
2.59	0.55	0.79	1.04	1.28	1.53	1.77	2.01	2.26
108	6.34	9.18	12.03	14.87	17.72	20.56	23.4	26.25
2.74	0.59	0.85	1.12	1.38	1.65	1.91	2.17	2.44
114	6.61	9.57	12.54	15.5	18.47	21.43	24.4	27.36
2.90	0.61	0.89	1.16	1.44	1.72	1.99	2.27	2.54
120	7.07	10.25	13.42	16.59	19.77	22.94	26.11	29.29
3.05	0.66	0.95	1.25	1.54	1.84	2.13	2.43	2.72
126	7.34	10.64	13.93	17.23	20.52	23.82	27.11	30.4
3.20	0.68	0.99	1.29	1.60	1.91	2.21	2.52	2.82
132	7.81	11.31	14.81	18.32	21.82	25.32	28.83	32.33
3.35	0.73	1.05	1.38	1.70	2.03	2.35	2.68	3.00
138	8.08	11.7	15.33	18.95	22.57	26.2	29.82	33.45
3.51	0.75	1.09	1.42	1.76	2.10	2.43	2.77	3.11
144	8.54	12.38	16.21	20.04	23.87	27.7	31.54	35.37
3.66	0.79	1.15	1.51	1.86	2.22	2.57	2.93	3.29

Height in Inches and Metres

Upper Numerals Imperial Units / Lower Numerals Metric Units