

A-6177

Material

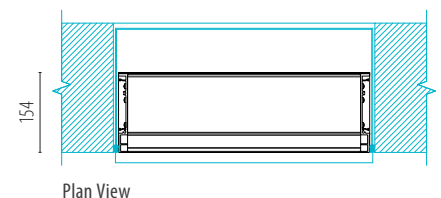
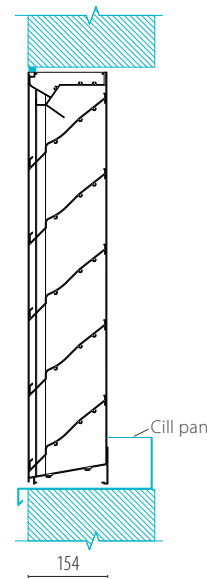
- Material: aluminium alloy 6063-T6
- Nominal thickness: 2.06 for blades; 1.52 mm for head frames; 2.03 mm for cill frames; 3.18 mm for jamb frames and mullions
- Optional extras (at additional cost): bird/vermin guards, insect mesh, blanking plates, insulated blanking panels and cill pans

Test Summary

Tested with mill finish and no accessories.

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

- Free area = 0.85 m² (9.22 ft²)
- Percent free area = 57.6%
- Free area velocity at the point of beginning water penetration (t 3.05 g/m² (0.01 oz. / ft²) of free area, based on a 15-minute interval test) = 5.31 m/s (1046 FPM)
- Intake pressure drop at 3.05 g/m² (0.01 oz. / ft²) free area velocity = 46.9 Pa (0.19 in. H₂O)



Discharge Coefficient (C_d)

Intake = 0.38 (Class 2), Exhaust = 0.43 (Class 1)
AMCA certifies the coefficient class only



Construction Specialties UK Ltd certifies that the louvre model A-6177 shown herein is licensed to bear the AMCA Seal.

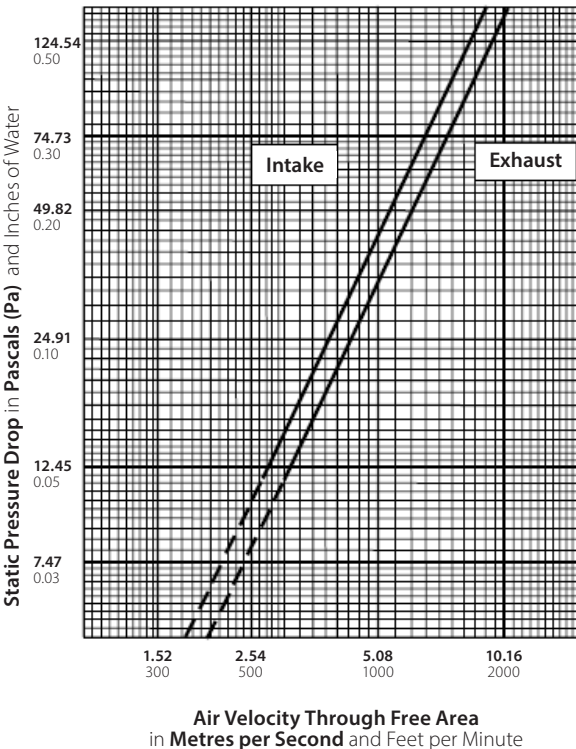
The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance and water penetration ratings.



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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.c-sgroup.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	1.00	1.36	1.72	2.08	2.44	2.81	3.17
		0.46	0.09	0.13	0.16	0.19	0.23	0.26	0.29
		24	1.45	1.98	2.51	3.03	3.56	4.09	4.62
		0.61	0.13	0.18	0.23	0.28	0.33	0.38	0.43
		30	1.91	2.60	3.29	3.98	4.68	5.37	6.06
		0.76	0.18	0.24	0.31	0.37	0.43	0.50	0.56
		36	2.36	3.22	4.08	4.94	5.79	6.65	7.51
		0.91	0.22	0.30	0.38	0.46	0.54	0.62	0.70
		42	2.82	3.84	4.86	5.89	6.91	7.93	8.96
		1.07	0.26	0.36	0.45	0.55	0.64	0.74	0.83
		48	3.27	4.46	5.65	6.84	8.03	9.22	10.41
		1.22	0.30	0.41	0.52	0.64	0.75	0.86	0.97
		54	3.73	5.08	6.43	7.79	9.14	10.50	11.85
		1.37	0.35	0.47	0.60	0.72	0.85	0.98	1.10
		60	4.18	5.70	7.22	8.74	10.26	11.78	13.30
		1.52	0.39	0.53	0.67	0.81	0.95	1.09	1.24
		66	4.68	6.38	8.08	9.78	11.48	13.18	14.88
		1.68	0.43	0.59	0.75	0.91	1.07	1.22	1.38
		72	5.16	7.04	8.92	10.79	12.67	14.55	16.42
		1.83	0.48	0.65	0.83	1.00	1.18	1.35	1.53
		78	5.64	7.70	9.75	11.80	13.86	15.91	17.96
		1.98	0.52	0.72	0.91	1.10	1.29	1.48	1.67
		84	6.13	8.36	10.59	12.81	15.04	17.27	19.50
		2.13	0.57	0.78	0.98	1.19	1.40	1.60	1.81
		90	6.61	9.01	11.41	13.82	16.22	18.62	21.02
		2.29	0.61	0.84	1.06	1.28	1.51	1.73	1.95
		96	7.08	9.66	12.23	14.81	17.39	19.96	22.54
		2.44	0.66	0.90	1.14	1.38	1.62	1.85	2.09
		102	7.56	10.31	13.06	15.81	18.55	21.30	24.05
		2.59	0.70	0.96	1.21	1.47	1.72	1.98	2.23
		108	8.04	10.96	13.88	16.80	19.73	22.65	25.57
		2.74	0.75	1.02	1.29	1.56	1.83	2.10	2.38
		114	8.52	11.61	14.71	17.81	20.90	24.00	27.10
		2.90	0.79	1.08	1.37	1.65	1.94	2.23	2.52
		120	8.96	12.22	15.48	18.74	22.00	25.26	28.52
		3.05	0.83	1.14	1.44	1.74	2.04	2.35	2.65
		126	9.42	12.84	16.27	19.69	23.12	26.54	29.97
		3.20	0.87	1.19	1.51	1.83	2.15	2.47	2.78
		132	9.87	13.46	17.05	20.64	24.23	27.82	31.41
		3.35	0.92	1.25	1.58	1.92	2.25	2.58	2.92
		138	10.33	14.08	17.84	21.59	25.35	29.10	32.86
		3.51	0.96	1.31	1.66	2.01	2.36	2.70	3.05
		144	10.78	14.70	18.62	22.54	26.47	30.39	34.31
		3.66	1.00	1.37	1.73	2.09	2.46	2.82	3.19
		150	11.24	15.32	19.41	23.50	27.58	31.67	35.75
		3.81	1.04	1.42	1.80	2.18	2.56	2.94	3.32
		156	11.91	16.25	20.58	24.91	29.24	33.57	37.91
		3.96	1.11	1.51	1.91	2.31	2.72	3.12	3.52
		162	12.37	16.87	21.36	25.86	30.36	34.86	39.35
		4.11	1.15	1.57	1.98	2.40	2.82	3.24	3.66
		168	12.82	17.49	22.15	26.81	31.47	36.14	40.80
		4.27	1.19	1.62	2.06	2.49	2.92	3.36	3.79
		174	13.28	18.11	22.93	27.76	32.59	37.42	42.25
		4.42	1.23	1.68	2.13	2.58	3.03	3.48	3.92
		180	13.73	18.73	23.72	28.71	33.71	38.70	43.70
		4.57	1.28	1.74	2.20	2.67	3.13	3.60	4.06
		186	14.19	19.35	24.51	29.67	34.82	39.98	45.14
		4.72	1.32	1.80	2.28	2.76	3.24	3.71	4.19
		192	14.64	19.97	25.29	30.62	35.94	41.27	46.59
		4.88	1.36	1.86	2.35	2.84	3.34	3.83	4.33
		198	15.10	20.59	26.08	31.57	37.06	42.55	48.04
		5.03	1.40	1.91	2.42	2.93	3.44	3.95	4.46
									4.97

Upper Numerals Imperial Units / Lower Numerals Metric Units