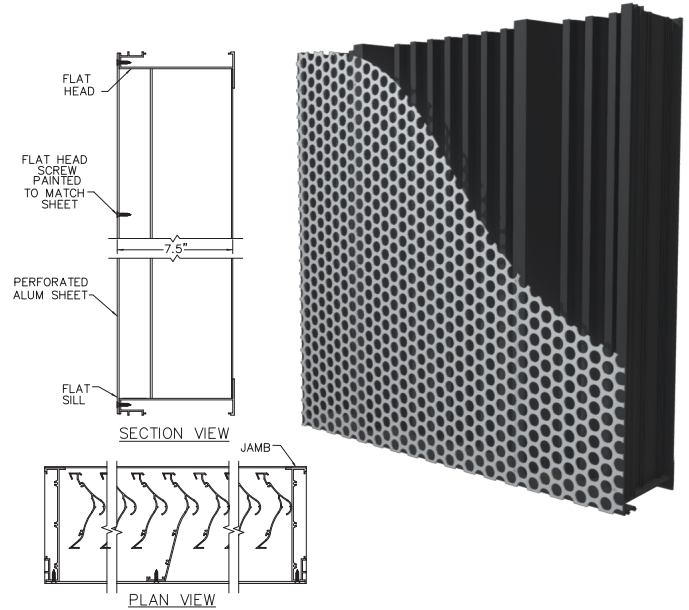


Model PL-5700 - 1" (25.4mm) Hole Pattern 7.5" (190.5 mm) Perforated Vertical Storm Resistant Louver

Material:

Material:	Louver 6063-T6 Alloy Perforated Sheet 3003 H14 aluminum
Nominal Thickness (heads, sills, jamb, & mullions):	0.10" (2.54 mm)
Nominal Blade Thickness:	0.060" (1.52 mm) & 0.075" (1.91 mm)
Additional Options (at additional cost):	Rear bird or Insect 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 rear bird or insect screen

- Free area = 7.12 ft² (0.66 m²)
- Percent free area = 44.5%
- Intake Pressure Drop at 1,000 FPM free area velocity 0.17 in H₂O (41.5 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 (991 FPM)
 - Max. intake free area velocity 10.43 m/s (2,055 FPM)
 - a 50 mph wind speed and rainfall rate of 8 in/hr
 - Max. intake core velocity 4.0 m/s (800 FPM)
 - Max. intake free area velocity 8.42 m/s (1659 FPM)

Discharge Coefficient
Intake Cd = 0.29 (Class 3)

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

The louver test was based on a 39.370" (1.0 m) x 39.370" (1.0 m) core area unit tested at a rainfall rate of 3" per hour (75 mm/hr) and with a wind directed to the face of the louver at a velocity of 29.1 mph (13 m/s) as well as a rainfall rate of 8" per hour (203 mm) and a wind velocity of 50 mph (23.3 m/s). The test data shall show the water penetration effectiveness rating at each corresponding ventilation rate.

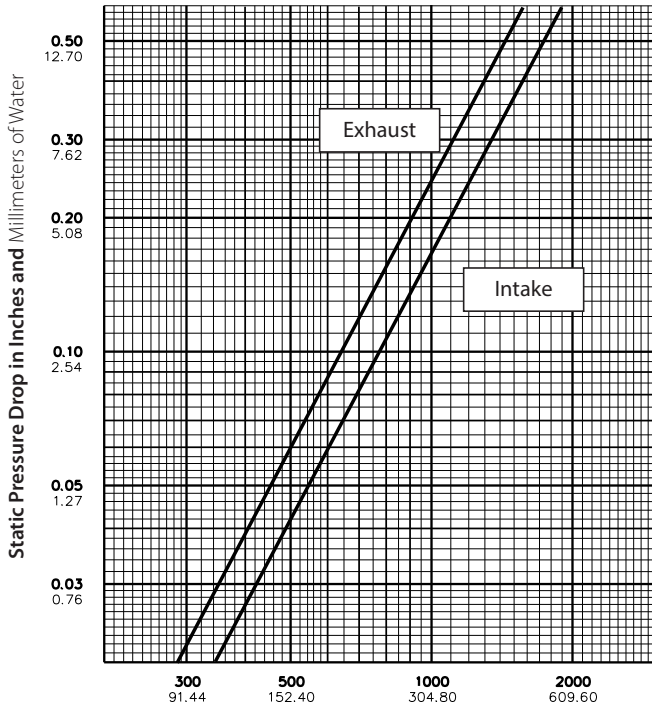
29.1 mph (13 m/s) & 3" (75 mm) rain per hour

Core Velocity Through Cal. Plate (m/s):	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	196	294	393	492	590	688	786	892	991
Free Area Velocity (ft/min):	0	203	406	610	815	1020	1224	1427	1630	1850	2055
Rating Effectiveness:	A	A	A	A	A	A	A	A	A	A	A
Effectiveness Ratio (%):										100	99.5

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

Core Velocity Through Cal. Plate (m/s):	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	96	196	288	396	481	573	697	800	895	1008
Free Area Velocity (ft/min):	0	199	406	597	821	998	1188	1446	1659	1856	2091
Rating Effectiveness:	A	A	A	A	A	A	A	A	A	B	B
Effectiveness Ratio (%):							100	99.8	99.3	98	95.4
Effectiveness Rating:	A = 1 to 0.99			B = 0.989 to 0.95			C = 0.949 to 0.80		D = Below 0.80		

Model PL-5700 - 1" (25.4mm) Hole Pattern 7.5" (190.5 mm) Perforated Vertical Storm Resistant Louver



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>

Width in Inches and Meters

Height in Inches and Meters	Width in Inches and Meters							
	18 0.46	24 0.61	30 0.76	36 0.91	42 1.07	48 1.22	54 1.37	60 1.52
18 0.46	0.74	1.06	1.38	1.69	2.01	2.33	2.65	2.96
24 0.61	0.07	0.10	0.13	0.16	0.19	0.22	0.25	0.28
30 0.76	1.05	1.49	1.94	2.39	2.84	3.29	3.74	4.18
36 0.91	0.10	0.14	0.18	0.22	0.26	0.31	0.35	0.39
42 1.07	1.35	1.93	2.51	3.09	3.67	4.25	4.82	5.40
48 1.22	0.13	0.18	0.23	0.29	0.34	0.39	0.45	0.50
54 1.37	1.66	2.37	3.07	3.78	4.49	5.20	5.91	6.62
60 1.52	0.15	0.22	0.29	0.35	0.42	0.48	0.55	0.62
66 1.68	1.96	2.80	3.64	4.48	5.32	6.16	7.00	7.84
72 1.83	0.18	0.26	0.34	0.42	0.49	0.57	0.65	0.73
78 1.98	2.27	3.24	4.21	5.18	6.15	7.12	8.09	9.06
84 2.13	0.21	0.30	0.39	0.48	0.57	0.66	0.75	0.84
90 2.29	2.57	3.67	4.77	5.87	6.98	8.08	9.18	10.28
96 2.44	0.24	0.34	0.44	0.55	0.65	0.75	0.85	0.96
102 2.59	2.87	4.11	5.34	6.57	7.80	9.04	10.27	11.50
108 2.74	0.27	0.38	0.50	0.61	0.72	0.84	0.95	1.07
114 2.90	3.18	4.54	5.91	7.27	8.63	9.99	11.36	12.72
120 3.05	0.30	0.42	0.55	0.68	0.80	0.93	1.06	1.18
126 3.21	3.48	4.98	6.47	7.96	9.46	10.95	12.44	13.94
132 3.37	0.32	0.46	0.60	0.74	0.88	1.02	1.16	1.29
138 3.53	3.79	5.41	7.04	8.66	10.29	11.91	13.53	15.16
144 3.69	0.35	0.50	0.65	0.80	0.96	1.11	1.26	1.41
150 3.85	4.09	5.85	7.60	9.36	11.11	12.87	14.62	16.38
156 3.99	0.38	0.54	0.71	0.87	1.03	1.20	1.36	1.52
162 4.15	4.40	6.28	8.17	10.05	11.94	13.83	15.71	17.60
168 4.29	0.41	0.58	0.76	0.93	1.11	1.28	1.46	1.63
174 4.43	4.70	6.72	8.74	10.75	12.77	14.78	16.80	18.82
180 4.57	0.44	0.62	0.81	1.00	1.19	1.37	1.56	1.75
186 4.71	5.01	7.16	9.30	11.45	13.59	15.74	17.89	20.03
192 4.85	0.47	0.66	0.86	1.06	1.26	1.46	1.66	1.86
198 5.00	5.31	7.59	9.87	12.14	14.42	16.70	18.98	21.25
204 5.14	0.49	0.71	0.92	1.13	1.34	1.55	1.76	1.97
210 5.28	5.62	8.03	10.43	12.84	15.25	17.66	20.07	22.47
216 5.42	0.52	0.75	0.97	1.19	1.42	1.64	1.86	2.09
222 5.56	5.92	8.46	11.00	13.54	16.08	18.62	21.15	23.69
228 5.70	0.55	0.79	1.02	1.26	1.49	1.73	1.97	2.20

Upper Numerals English Units/Lower Numerals Metric Units