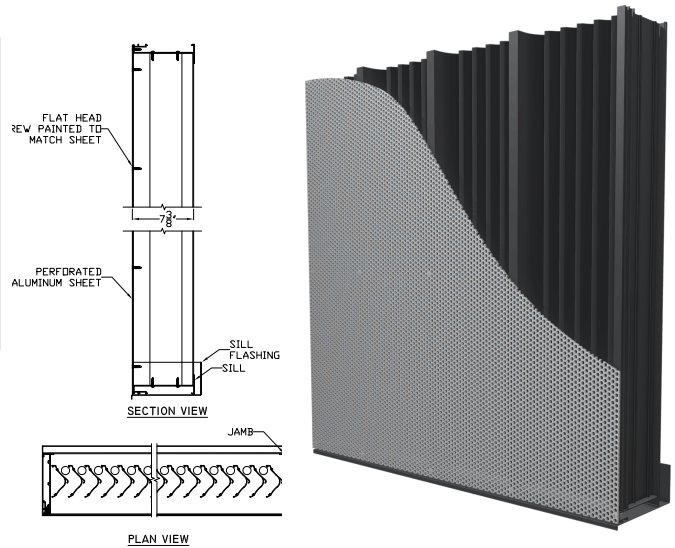


Model PL-4605 - 3/8" (9.53 mm) Hole Pattern 7.5" (190.5 mm) Perforated Vertical Storm Resistant Louver

Material:

Material:	Louver 6063-T6 Alloy Perforated Sheet 3003 H14 aluminum
Nominal Thickness (heads, sills, jambs, & mullions):	0.10" (2.54 mm)
Nominal Blade Thickness:	0.060" (1.52 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 = 7.49 ft² (0.70 m²)
- Percent free area = 46.8%
- Intake pressure drop at 1,000 FPM free area velocity = 0.29 in. H₂O (73.3 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 (930 FPM)
 - Max. intake free area velocity 9.27 m/s (1824 FPM)
 - a 50 mph wind speed and rainfall rate of 8 in/hr
 - Max. intake core velocity 5.0 m/s (1004 FPM)
 - Max. intake free area velocity 9.99 m/s (1968 FPM)

Discharge Coefficient
Intake Cd = 0.336 (Class 2)

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	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	482	591	679	744	837	930
Free Area Velocity (ft/min):	0	259	386	563	745	945	1159	1331	1459	1641	1824
Rating Effectiveness:	A	A	A	A	A	A	A	A	A	A	A
Effectiveness Ratio (%):									99.9	99.9	99.0

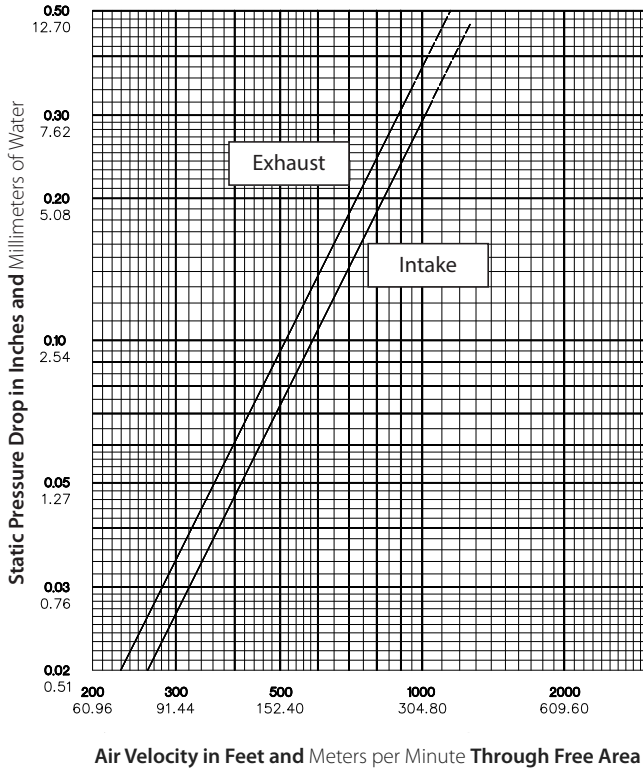
50 mph (22.3 m/s) & 8" (203 mm) rain per hour

Core Velocity Through Cal. Plate (m/s):	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.1	4.5	5.0
Core Velocity Through Louver (ft/min):	0	96	194	284	401	495	567	674	803	904	1004
Free Area Velocity (ft/min):	0	188	380	557	786	971	1112	1321	1574	1772	1968
Rating Effectiveness:	A	A	A	A	A	A	A	A	A	A	A
Effectiveness Ratio (%):									99.5	99.4	99.2
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-4605 - 3/8" (9.53 mm) Hole Pattern 7.5" (190.5 mm) Perforated 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.



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	0.91	1.24	1.57	1.90	2.23	2.56	2.89	3.22
24 0.61	0.08	0.12	0.15	0.18	0.21	0.24	0.27	0.30
30 0.76	1.26	1.72	2.18	2.63	3.09	3.55	4.01	4.46
36 0.91	0.12	0.16	0.20	0.24	0.29	0.33	0.37	0.41
42 1.07	1.61	2.20	2.78	3.37	3.95	4.53	5.12	5.70
48 1.22	0.15	0.20	0.26	0.31	0.37	0.42	0.48	0.53
54 1.37	1.96	2.67	3.39	4.10	4.81	5.52	6.23	6.94
60 1.52	0.18	0.25	0.31	0.38	0.45	0.51	0.58	0.64
66 1.68	2.31	3.15	3.99	4.83	5.67	6.50	7.34	8.18
72 1.83	0.21	0.29	0.37	0.45	0.53	0.60	0.68	0.76
78 1.98	2.66	3.63	4.59	5.56	6.52	7.49	8.46	9.42
84 2.13	1.22	0.25	0.34	0.43	0.52	0.61	0.70	0.79
90 2.29	3.01	4.11	5.20	6.29	7.38	8.48	9.57	10.66
96 2.44	0.28	0.38	0.48	0.58	0.69	0.79	0.89	0.99
102 2.59	3.37	4.58	5.80	7.02	8.24	9.46	10.68	11.90
108 2.74	0.31	0.43	0.54	0.65	0.77	0.88	0.99	1.11
114 2.90	3.72	5.06	6.41	7.75	9.10	10.45	11.79	13.14
120 3.05	0.35	0.47	0.60	0.72	0.85	0.97	1.10	1.22
126 3.20	4.07	5.54	7.01	8.49	9.96	11.43	12.91	14.38
132 3.35	0.38	0.51	0.65	0.79	0.93	1.06	1.20	1.34
138 3.50	4.42	6.02	7.62	9.22	10.82	12.42	14.02	15.62
144 3.65	0.41	0.56	0.71	0.86	1.00	1.15	1.30	1.45
150 3.80	4.77	6.49	8.22	9.95	11.68	13.40	15.13	16.86
156 3.95	0.44	0.60	0.76	0.92	1.08	1.25	1.41	1.57
162 4.10	5.12	6.97	8.83	10.68	12.53	14.39	16.24	18.10
168 4.25	0.48	0.65	0.82	0.99	1.16	1.34	1.51	1.68
174 4.40	5.47	7.45	9.43	11.41	13.39	15.37	17.36	19.34
180 4.55	0.51	0.69	0.88	1.06	1.24	1.43	1.61	1.80
186 4.70	5.82	7.93	10.04	12.14	14.25	16.36	18.47	20.58
192 4.85	0.54	0.74	0.93	1.13	1.32	1.52	1.72	1.91
198 5.00	6.17	8.40	10.64	12.87	15.11	17.35	19.58	21.82
204 5.15	0.57	0.78	0.99	1.20	1.40	1.61	1.82	2.03
210 5.30	6.52	8.88	11.24	13.61	15.97	18.33	20.69	23.06
216 5.45	0.61	0.83	1.04	1.26	1.48	1.70	1.92	2.14
222 5.60	6.87	9.36	11.85	14.34	16.83	19.32	21.81	24.29
228 5.75	0.64	0.87	1.10	1.33	1.56	1.79	2.03	2.26

Upper Numerals English Units/Lower Numerals Metric Units