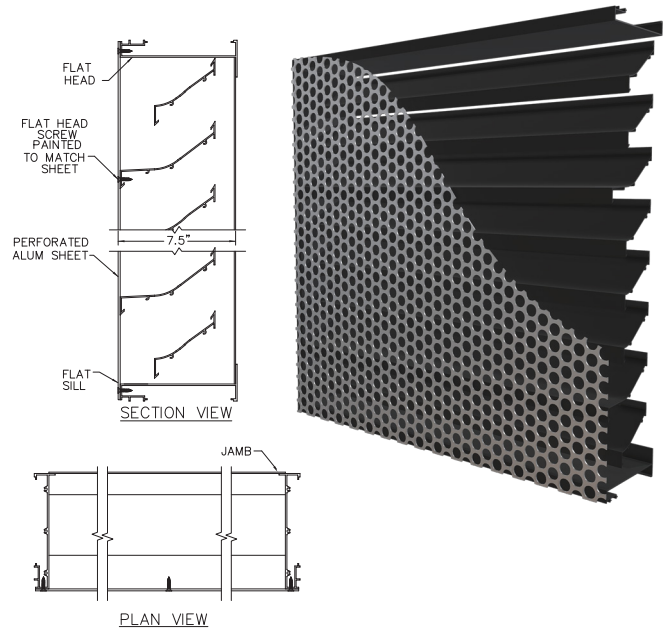


Model PL-4080 - 1" (25.4mm) Hole Pattern 7.5" (190.5 mm) Perforated High Performance Louver

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:	0.068" (1.73 mm) & 0.073" (1.85 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 = 8.19 ft² (0.77 m²)
- Percent free area = 51.2%
- Intake pressure drop at 1000 FPM free area velocity = 0.17 in. H₂O (41 Pa)
- To maintain a CLASS C (80%) effectiveness rating* with:
 - a 29.1 mph wind speed and rainfall rate of 3 in/hr
 - Max. intake core velocity 3.5 m/s (690 FPM)
 - Max. intake free area velocity 6.05 m/s (1,191 FPM)
 - a 50 mph wind speed and rainfall rate of 8 in/hr
 - Max. intake core velocity 1.0 m/s (196 FPM)
 - Max. intake free area velocity 1.71 m/s (338 FPM)

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). 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

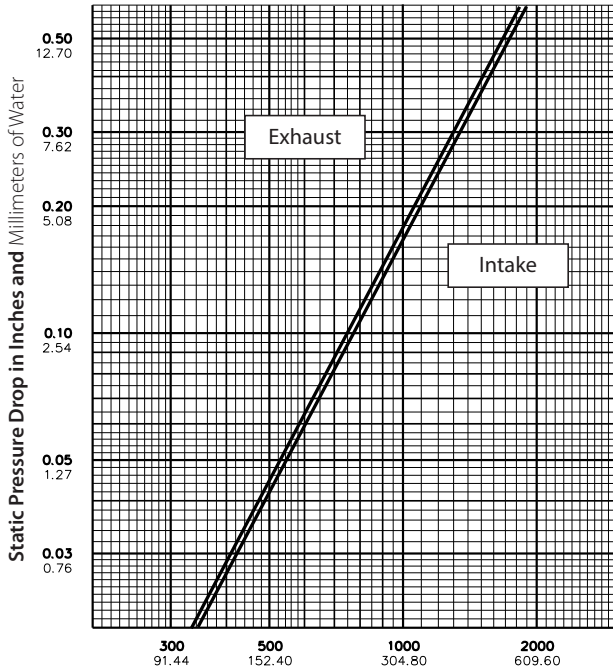
Core Velocity Through Cal. Plate (m/s):	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
Core Velocity Through Louver (ft/min):	0	97	196	295	394	492	590	690	788	887	986
Free Area Velocity (ft/min):	0	168	339	510	680	849	1018	1191	1361	1530	1701
Rating Effectiveness:	B	B	C	C	C	C	C	C	D	D	D
Effectiveness Ratio (%):	98.0	96.2	94.9	94.8	93.6	93.0	90.8	81.1	59.3	54.8	

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	196	293	389	488	585	683	780	878	975
Free Area Velocity (ft/min):	0	169	338	506	672	842	1009	1178	1346	1514	1682
Rating Effectiveness:	C	C	C	D	D	D	D	D	D	D	D
Effectiveness Ratio (%):	92.5	86.6	82.7	77.7							

Effectiveness Rating:	A = 1 to 0.99	B = 0.989 to 0.95	C = 0.949 to 0.80	D = Below 0.80
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Model PL-4080 - 1" (25.4mm) Hole Pattern 7.5" (190.5 mm) Perforated High Performance 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							
		18	24	30	36	42	48	54	60
Height in Inches and Meters	0.46	0.08	0.12	0.16	0.20	0.23	0.27	0.31	0.33
	18	0.86	1.26	1.67	2.08	2.49	2.90	3.31	3.59
	0.46	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.44
	24	1.12	1.66	2.20	2.74	3.27	3.81	4.35	4.72
	0.61	0.14	0.21	0.27	0.34	0.41	0.47	0.54	0.59
	30	1.50	2.22	2.94	3.65	4.37	5.09	5.81	6.30
	0.76	0.16	0.24	0.32	0.40	0.48	0.56	0.64	0.69
	36	1.77	2.62	3.46	4.31	5.16	6.00	6.85	7.43
	0.91	0.20	0.29	0.39	0.49	0.58	0.68	0.77	0.84
	42	2.15	3.17	4.20	5.23	6.25	7.28	8.31	9.01
	1.07	0.22	0.33	0.44	0.55	0.65	0.76	0.87	0.94
	48	2.42	3.57	4.73	5.88	7.04	8.19	9.35	10.14
	1.22	0.26	0.38	0.51	0.63	0.76	0.88	1.00	1.09
	54	2.79	4.13	5.46	6.80	8.13	9.47	10.80	11.72
	1.37	0.28	0.42	0.56	0.69	0.83	0.96	1.10	1.19
	60	3.06	4.53	5.99	7.45	8.92	10.38	11.85	12.85
	1.52	0.32	0.47	0.63	0.78	0.93	1.08	1.24	1.34
	66	3.44	5.08	6.73	8.37	10.02	11.66	13.30	14.43
	1.68	0.34	0.51	0.67	0.84	1.00	1.17	1.33	1.45
	72	3.71	5.48	7.25	9.03	10.80	12.57	14.34	15.56
1.83	0.38	0.56	0.74	0.92	1.11	1.29	1.47	1.59	
78	4.09	6.04	7.99	9.94	11.90	13.85	15.80	17.14	
1.98	0.40	0.60	0.79	0.98	1.18	1.37	1.56	1.70	
84	4.36	6.44	8.52	10.60	12.68	14.76	16.84	18.27	
2.13	0.44	0.65	0.86	1.07	1.28	1.49	1.70	1.84	
90	4.73	6.99	9.26	11.52	13.78	16.04	18.30	19.85	
2.29	0.46	0.69	0.91	1.13	1.35	1.57	1.80	1.95	
96	5.00	7.39	9.78	12.17	14.56	16.95	19.34	20.98	
2.44	0.50	0.74	0.98	1.22	1.45	1.69	1.93	2.10	
102	5.38	7.95	10.52	13.09	15.66	18.23	20.80	22.56	
2.59	0.52	0.78	1.03	1.28	1.53	1.78	2.03	2.20	
108	5.65	8.35	11.05	13.74	16.44	19.14	21.84	23.69	
2.74	0.56	0.83	1.09	1.36	1.63	1.90	2.16	2.35	
114	6.03	8.90	11.78	14.66	17.54	20.42	23.30	25.28	
2.90	0.58	0.86	1.14	1.42	1.70	1.98	2.26	2.45	
120	6.30	9.30	12.31	15.32	18.32	21.33	24.34	26.40	
3.05									

Upper Numerals English Units/Lower Numerals Metric Units