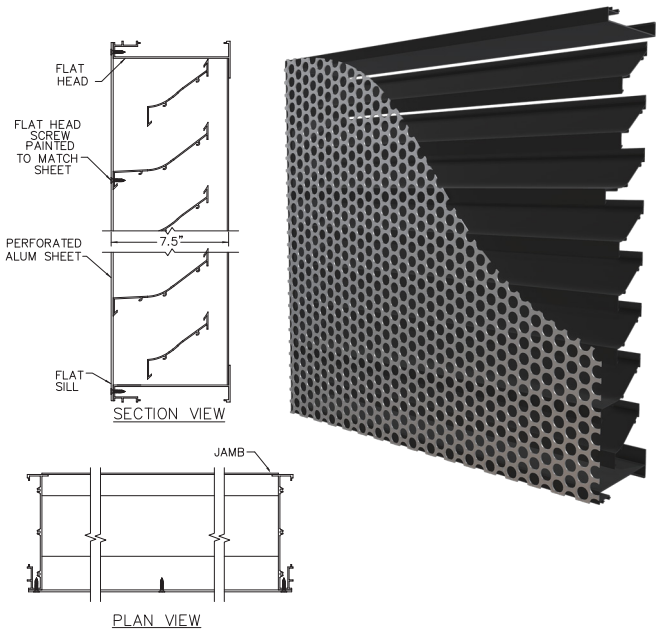


Model PL-4080 - 1" (25.4mm) Hole Pattern
7.5" (190.5 mm) Perforated High Performance Louvre

Material:

Material:	Louvre 6063-T6 Alloy Perforated Sheet 5005-H34 aluminium
Nominal Thickness (heads, sills, jambs, & 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 (1219mm x 1219mm).

Tested with mill finish and no rear bird or insect screen

- Free (throat) area = 8.19 ft² (0.77 m²)
- Percent free (throat) area = 51.2%
- Intake pressure drop at 1000 FPM free (throat) 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 (throat) 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 (throat) 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*

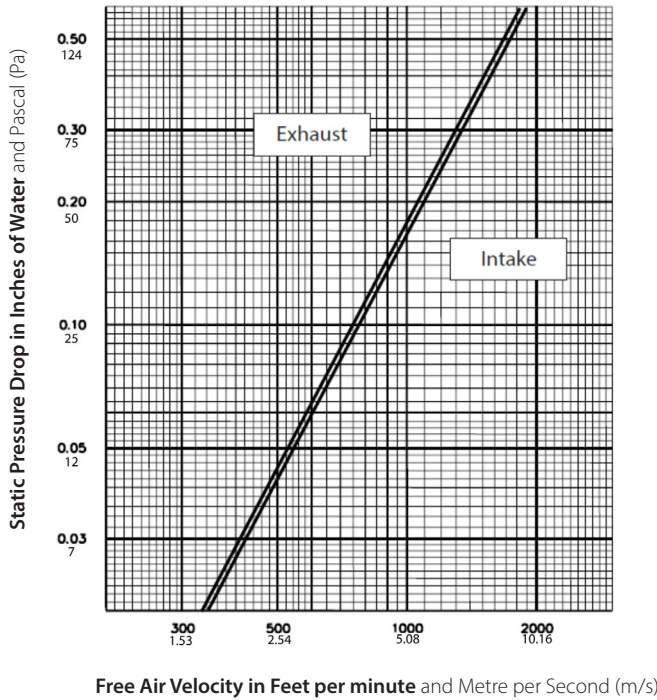
The louvre test was based on a 39.370" (1.0 m) x 39.370" (1.0 m) core area unit tested at a rainfall rate of 3" per hour (75 mm/hr) and with a wind directed to the face of the louvre at a velocity of 29.1 mph (13 m/s). The test data shall show the water penetration effectiveness rating at each corresponding 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 Louvre (ft/min):	0	97	196	295	394	492	590	690	788	887	986
Free (throat) 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 Louvre (ft/min):	0	98	196	293	389	488	585	683	780	878	975
Free (throat) 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	

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



Data corrected to standard air density.
48" x 48" (121.92cm x 121.92cm) louvre tested to figure 5.5.

Free (throat) area Table (Free (throat) area in **sq. feet** and **sq. metres**)

For additional sizes, please visit:

		Width in Inches and Metres							
		18	24	30	36	42	48	54	60
Height in Inches and Metres	18	0.86	1.26	1.67	2.08	2.49	2.90	3.31	3.59
	0.46	0.08	0.12	0.16	0.19	0.23	0.27	0.31	0.33
	24	1.12	1.66	2.20	2.74	3.27	3.81	4.35	4.72
	0.61	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.44
	30	1.50	2.22	2.94	3.65	4.37	5.09	5.81	6.30
	0.76	0.14	0.21	0.27	0.34	0.41	0.47	0.54	0.59
	36	1.77	2.62	3.46	4.31	5.16	6.00	6.85	7.43
	0.91	0.16	0.24	0.32	0.40	0.48	0.56	0.64	0.69
	42	2.15	3.17	4.20	5.23	6.25	7.28	8.31	9.01
	1.07	0.20	0.29	0.39	0.49	0.58	0.68	0.77	0.84
	48	2.42	3.57	4.73	5.88	7.04	8.19	9.35	10.14
	1.22	0.22	0.33	0.44	0.55	0.65	0.76	0.87	0.94
	54	2.79	4.13	5.46	6.80	8.13	9.47	10.80	11.72
	1.37	0.26	0.38	0.51	0.63	0.76	0.88	1.00	1.09
	60	3.06	4.53	5.99	7.45	8.92	10.38	11.85	12.85
	1.52	0.28	0.42	0.56	0.69	0.83	0.96	1.10	1.19
	66	3.44	5.08	6.73	8.37	10.02	11.66	13.30	14.43
	1.68	0.32	0.47	0.63	0.78	0.93	1.08	1.24	1.34
	72	3.71	5.48	7.25	9.03	10.80	12.57	14.34	15.56
	1.83	0.34	0.51	0.67	0.84	1.00	1.17	1.33	1.45
	78	4.09	6.04	7.99	9.94	11.90	13.85	15.80	17.14
	1.98	0.38	0.56	0.74	0.92	1.11	1.29	1.47	1.59
	84	4.36	6.44	8.52	10.60	12.68	14.76	16.84	18.27
	2.13	0.40	0.60	0.79	0.98	1.18	1.37	1.56	1.70
	90	4.73	6.99	9.26	11.52	13.78	16.04	18.30	19.85
	2.29	0.44	0.65	0.86	1.07	1.28	1.49	1.70	1.84
	96	5.00	7.39	9.78	12.17	14.56	16.95	19.34	20.98
	2.44	0.46	0.69	0.91	1.13	1.35	1.57	1.80	1.95
	102	5.38	7.95	10.52	13.09	15.66	18.23	20.80	22.56
	2.59	0.50	0.74	0.98	1.22	1.45	1.69	1.93	2.10
	108	5.65	8.35	11.05	13.74	16.44	19.14	21.84	23.69
	2.74	0.52	0.78	1.03	1.28	1.53	1.78	2.03	2.20
	114	6.03	8.90	11.78	14.66	17.54	20.42	23.30	25.28
	2.90	0.56	0.83	1.09	1.36	1.63	1.90	2.16	2.35
	120	6.30	9.30	12.31	15.32	18.32	21.33	24.34	26.40
	3.05	0.58	0.86	1.14	1.42	1.70	1.98	2.26	2.45

Upper Numerals English Units/Lower Numerals Metric Units