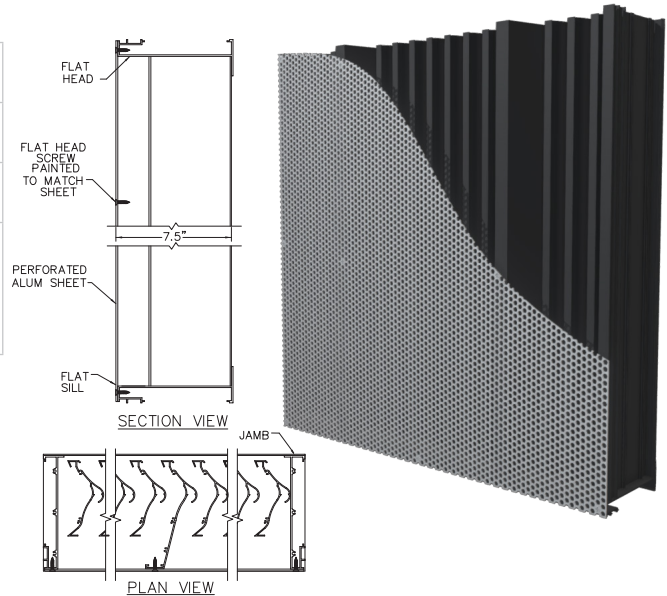


Model PL-5700 - 3/8" (9.53 mm) Hole Pattern 7.5" (190.5 mm) Perforated Vertical Storm Resistant Louvre

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:	0.060" (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 (1219mm x 1219mm).

Tested with mill finish and no rear bird or insect screen

- Free (throat) area = 7.12 ft² (0.66 m²)
- Percent free (throat) area = 44.5%
- Intake pressure drop at 1,000 FPM free (throat) area velocity = 0.19 in. H₂O (47.2 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 4.5 m/s (896 FPM)
 - Max. intake free (throat) area velocity 9.86 m/s (1941 FPM)
 - a 50 mph wind speed and rainfall rate of 8 in/hr
 - Max. intake core velocity 4.0 m/s (805 FPM)
 - Max. intake free (throat) area velocity 8.85 m/s (1743 FPM)

Discharge Coefficient

Intake Cd = 0.27 (Class 3)

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) 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 Louvre (ft/min):	0	98	196	294	393	492	590	688	793	896	991
Free (throat) area Velocity (ft/min):	0	212	424	637	851	1066	1278	1490	1717	1941	2146
Rating Effectiveness:	A	A	A	A	A	A	A	A	A	A	B
Effectiveness Ratio (%):									100.0	99.9	97.3

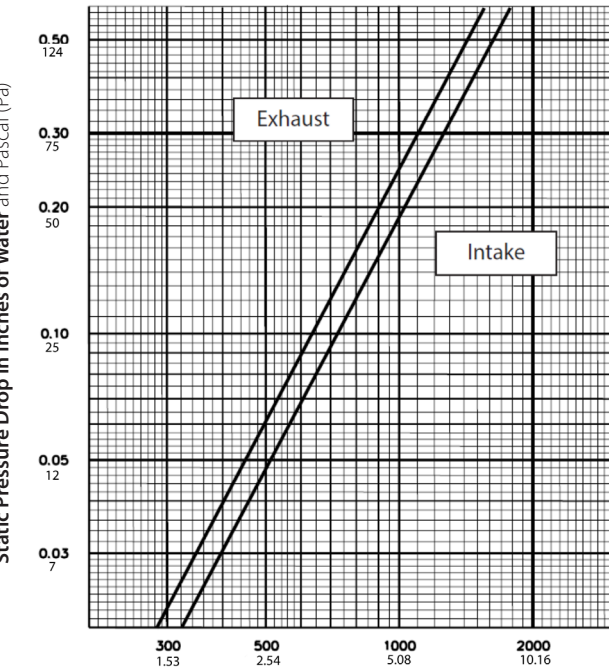
50 mph (22.3 m/s) & 8" (203 mm) rain per hour

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	96	196	287	396	481	602	714	805	898	994
Free (throat) area Velocity (ft/min):	0	208	424	622	858	1042	1304	1546	1743	1945	2153
Rating Effectiveness:	A	A	A	A	A	A	A	A	A	B	B
Effectiveness Ratio (%):							99.8	99.8	99.4	98.4	95.3
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 - 3/8" (9.53 mm) Hole Pattern
7.5" (190.5 mm) Perforated Vertical Storm Resistant Louvre

Water Penetration Statement

AMCA defines the point of beginning water penetration as the free (throat) area velocity at which the AMCA water test has yielded 0.01 or less ounces of water per square foot of louvre free (throat) area during a 15-minute test period.



Free Air Velocity in Feet per minute and Metre per Second (m/s)

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

Upper Numerals English Units/Lower Numerals Metric Units