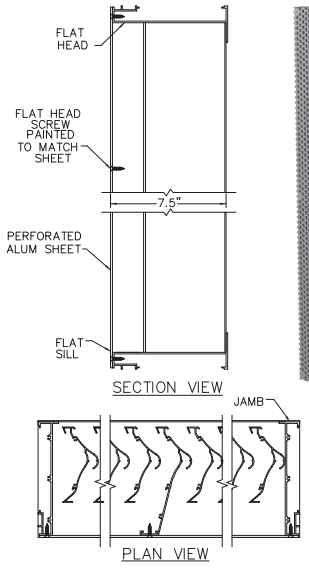
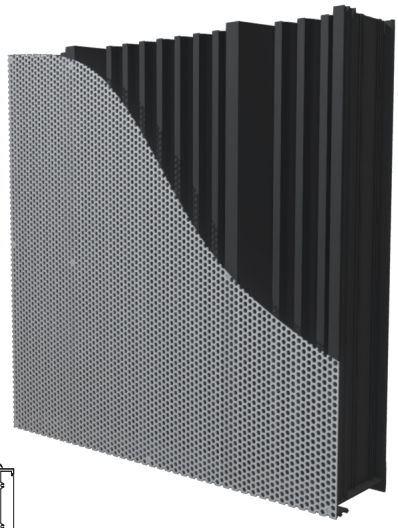
Model PL-5700 - 3/8" (9.53 mm) Hole Pattern 7.5" (190.5 mm) Vertical Storm Resistant Louver

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) & 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





Discharge Coefficient
Intake Cd = 0.27 (Class 3)

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 = 0.19 in. H_2O (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 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 area velocity 8.85 m/s (1743 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) 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	98	196	294	393	492	590	688	793	896	991
Free 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 Louver (ft/min):	0	96	196	287	396	481	602	714	805	898	994
Free 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

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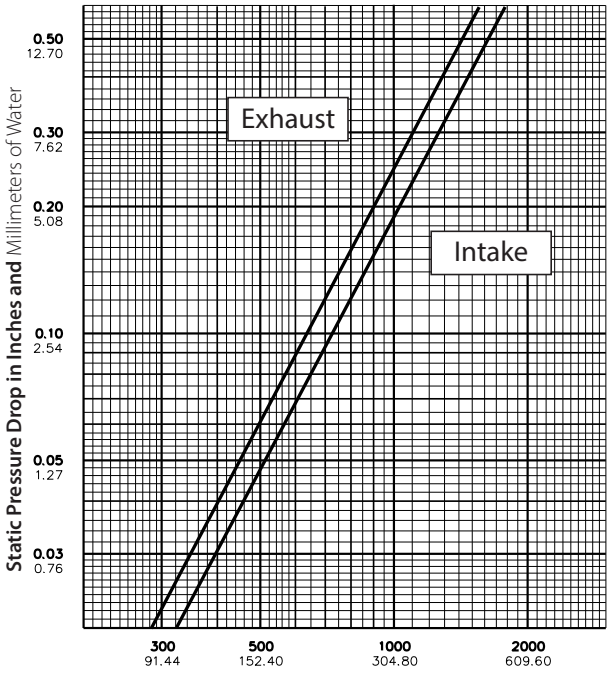
Water Penetration Statement

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.



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).

Free Area Table (Free area in **sq. feet** and sq. meters)

For additional sizes, please visit:
https://www.c-sgroup.com/architectural-louvers/louvers-airflow-tool

Width in Inches and Meters

Height in Inches and Meters

	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

