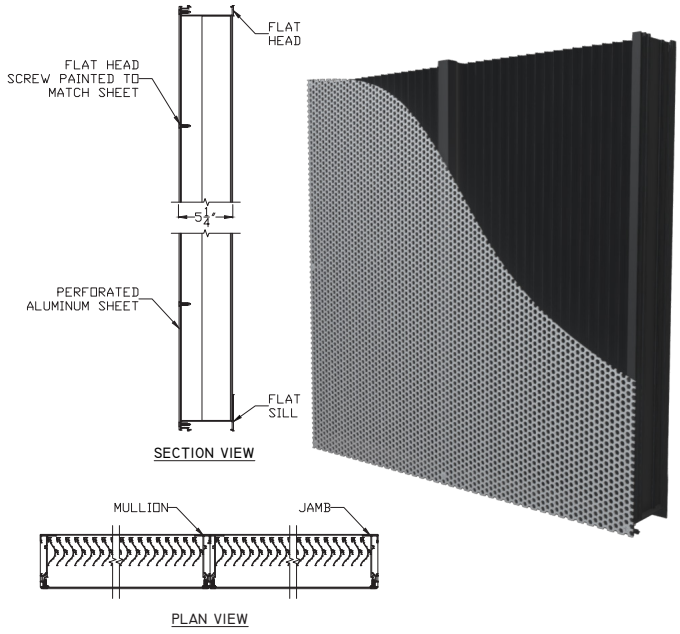
Model PL-3600 - 3/8" (9.53 mm) Hole Pattern 5.25" (133.4 mm) Perforated Vertical Storm Resistant Louver

Material:

Material:	Louver 6063-T6 Alloy Perforated Sheet 3003 H14 aluminum
Nominal Thickness (heads, sills, jambs, & mullions):	0.08" (2.03 mm)
Nominal Blade Thickness:	0.05" (1.27 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 = 7.58 ft² (0.704m²)
- Percent free area = 47.4%
- Intake pressure drop at 1000 FPM free area velocity = 0.173 in. H_2O (43.0 Pa)
- To maintain a CLASS A (99%) effectiveness rating* with:
  - a 29.1 mph wind speed an rainfall rate of 3 in/hr
    - Max. intake core velocity 5.0 m/s (984 FPM)
    - Max. intake free area velocity 9.9 m/s (1,945 FPM)
  - a 50 mph wind speed and rainfall rate of 8 in/hr
    - Max. intake core velocity 5.0 m/s (992 FPM)
    - Max. intake free area velocity 9.9 m/s (1,949 FPM)

Discharge Coefficient
Intake Cd = 0.31 (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	98	197	295	393	492	591	689	787	886	984
Free Area Velocity (ft/min):	0	192	387	579	772	966	1161	1353	1546	1738	1945
Rating Effectiveness:	A	A	A	A	A	A	A	A	A	A	A
Effectiveness Ratio (%):											100.0

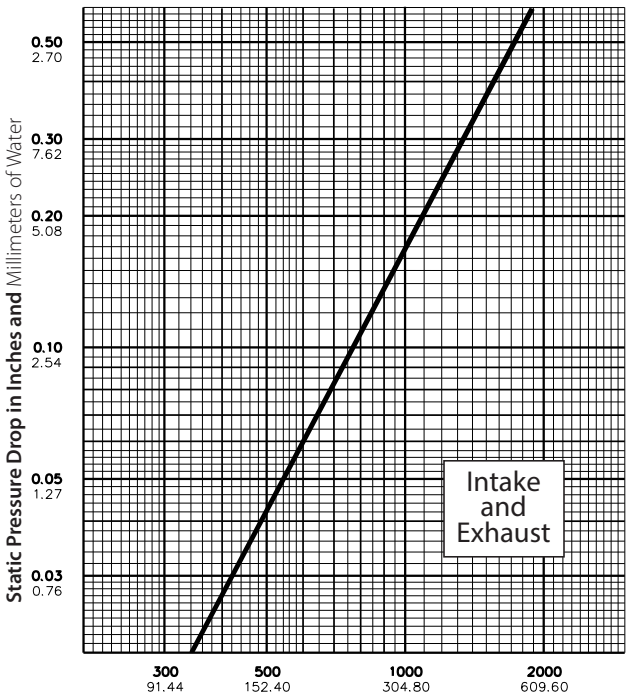
50 mph (22.3 m/s) & 8" (203 mm) rain per hour

Core Velocity Through Cal. Plate (m/s):	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
Core Velocity Through Louver (ft/min):	0	96	197	288	396	482	588	691	792	888	992
Free Area Velocity (ft/min):	0	189	387	566	778	947	1155	1357	1556	1744	1949
Rating Effectiveness:	A	A	A	A	A	A	A	A	A	A	A
Effectiveness Ratio (%):											100.0

Effectiveness Rating:	A = 1 to 0.99	B = 0.989 to 0.95	C = 0.949 to 0.80	D = Below 0.80

©2023 Construction Specialties, Inc.

Model PL-3600 - 3/8" (9.53 mm) Hole Pattern
5.25" (133.4 mm) Perforated Vertical Storm Resistant Louver



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	**0.83**	**1.16**	**1.49**	**1.82**	**2.15**	**2.48**	**2.77**	**3.10**
0.46	0.08	0.11	0.14	0.17	0.20	0.23	0.26	0.29
24	**1.17**	**1.63**	**2.10**	**2.57**	**3.03**	**3.50**	**3.91**	**4.38**
0.61	0.11	0.15	0.19	0.24	0.28	0.32	0.36	0.41
30	**1.51**	**2.11**	**2.71**	**3.31**	**3.92**	**4.52**	**5.05**	**5.65**
0.76	0.14	0.20	0.25	0.31	0.36	0.42	0.47	0.53
36	**1.85**	**2.58**	**3.32**	**4.06**	**4.80**	**5.54**	**6.19**	**6.93**
0.91	0.17	0.24	0.31	0.38	0.45	0.51	0.58	0.64
42	**2.19**	**3.06**	**3.94**	**4.81**	**5.68**	**6.56**	**7.33**	**8.21**
1.07	0.20	0.28	0.37	0.45	0.53	0.61	0.68	0.76
48	**2.53**	**3.54**	**4.55**	**5.56**	**6.57**	**7.58**	**8.47**	**9.48**
1.22	0.23	0.33	0.42	0.52	0.61	0.70	0.79	0.88
54	**2.93**	**4.10**	**5.27**	**6.44**	**7.61**	**8.78**	**9.81**	**10.98**
1.37	0.27	0.38	0.49	0.60	0.71	0.82	0.91	1.02
60	**3.16**	**4.42**	**5.68**	**6.95**	**8.21**	**9.47**	**10.59**	**11.85**
1.52	0.29	0.41	0.53	0.65	0.76	0.88	0.98	1.10
66	**3.50**	**4.90**	**6.30**	**7.70**	**9.09**	**10.49**	**11.73**	**13.13**
1.68	0.32	0.45	0.58	0.71	0.84	0.97	1.09	1.22
72	**3.84**	**5.37**	**6.91**	**8.44**	**9.98**	**11.51**	**12.87**	**14.40**
1.83	0.36	0.50	0.64	0.78	0.93	1.07	1.20	1.34
78	**4.18**	**5.85**	**7.52**	**9.19**	**10.86**	**12.53**	**14.01**	**15.68**
1.98	0.39	0.54	0.70	0.85	1.01	1.16	1.30	1.46
84	**4.52**	**6.33**	**8.13**	**9.94**	**11.75**	**13.55**	**15.15**	**16.96**
2.13	0.42	0.59	0.76	0.92	1.09	1.26	1.41	1.58
90	**4.86**	**6.80**	**8.74**	**10.69**	**12.63**	**14.57**	**16.29**	**18.23**
2.29	0.45	0.63	0.81	0.99	1.17	1.35	1.51	1.69
96	**5.26**	**7.36**	**9.47**	**11.57**	**13.67**	**15.78**	**17.63**	**19.74**
2.44	0.49	0.68	0.88	1.07	1.27	1.47	1.64	1.83
102	**5.49**	**7.69**	**9.88**	**12.08**	**14.27**	**16.47**	**18.41**	**20.60**
2.59	0.51	0.71	0.92	1.12	1.33	1.53	1.71	1.91
108	**5.83**	**8.16**	**10.49**	**12.83**	**15.16**	**17.49**	**19.55**	**21.88**
2.74	0.54	0.76	0.97	1.19	1.41	1.62	1.82	2.03
114	**6.17**	**8.64**	**11.11**	**13.57**	**16.04**	**18.51**	**20.69**	**23.16**
2.90	0.57	0.80	1.03	1.26	1.49	1.72	1.92	2.15
120	**6.51**	**9.11**	**11.72**	**14.32**	**16.93**	**19.53**	**21.83**	**24.43**
3.05	0.60	0.85	1.09	1.33	1.57	1.81	2.03	2.27

Upper Numerals English Units/Lower Numerals Metric Units

©2023 Construction Specialties, Inc.