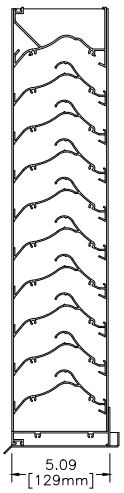
SCH501X

AMCA 540* Listed Hurricane Louver
Florida Product Approved
Extruded Aluminum | Storm Class

*AMCA 540 when selected as an option
Florida Product Approval No.: FL7708, FL35290
UL Classified: R26078

Standard Construction

Mounting	Continuous aluminum angles along the head, sill, and jambs
Frame	Heavy gauge extruded 6063-T5 aluminum, 5 in. (127 mm) x 0.081 in. (2 mm) nominal wall thickness
Blades	Horizontal rain resistant design, heavy gauge extruded 6063-T5 aluminum, 0.081 in. (2mm) nominal wall thickness, positioned on approximately 2 in. (51 mm) centers
Louver Depth	5 in. (127 mm)
Construction	Mechanically fastened
Finish	Mill
Minimum Size	12 in. W x 7 in. H (305 mm W x 178 mm H)
Maximum Single Section Size	84 in. W x 144 in. H or 120 in. W x 84 in. H (2134 mm W x 3658 mm H) or (3084 mm W x 2134 mm H)
Wind Load	Up to +/- 200 PSF (9.6 kPa)



Performance Ratings

Airolite certifies that the SCH501X louvers shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to *Water Penetration, Air Performance, and *Wind-Driven Rain ratings. Louvers were tested in accordance with AMCA Standard 500-L. *Ratings include the effect of a sill pan.

Louvers were tested in accordance with AMCA Standard 500-L.

Airolite certifies that the SCH501Xlouver shown herein is approved to bear the AMCA Listing Label. The ratings shown are based on tests and procedures performed in accordance with AMCA Publications and comply with the requirements of the AMCA Listing Label Program. The AMCA Listing Label applies to Wind Borne Debris Impact Resistant louvers rated for Enhanced Protection with a minimum blade span of less than 12 in. (305 mm) and a maximum unsupported blade span of 46 in. (1168 mm).

Performance of 48 in. x 48 in. (1219 mm x 1219 mm) Louver

Free Area	
Area	6.80 sq. ft. (0.632 sq. m)
Percent	42.5%
Performance at Beginning Point of Water Penetration	
Free Area Velocity	above 1250 fpm (6.350 m/s)
Max Intake Volume	8500 cfm (4.012 m^3/s)
Performance at 6,000 CFM (2.832 m^3/s) Intake	
Pressure Drop	0.112 in. wg (0.028 kPa)

Options and Accessories

- Bird Screen
- Blank Off Panels
- Filter Rack/Filter
- Flange Frame
- Impact Qualified
- Insect Screen
- Mounting Angles
- Security Bars
- Variety of Architectural Finishes
- Welded Construction

Product Details

SCH501X Standard Details

SCH501X (#475585 IOM)

Structural reinforcing members August be required to adequately support and install multiple louver sections within a large opening. Structural reinforcing members along with any associated installation hardware is not provided by Airolite unless indicated otherwise by Airolite. Options and accessories including, but not limited to, screens, filter racks, louver doors, and blank off panels are not subject to structural analysis unless indicated otherwise by Airolite.

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The look that works.™

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Free Area Chart

Free Area Chart shows free area in square feet and square meters.

Louver Height Inches (Meters)	Louver Width in Inches (Meters)																		
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
	0.30	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52	1.68	1.83	1.98	2.13	2.29	2.44	2.59	2.74	2.90	3.05
7	**0.06**	**0.11**	**0.15**	**0.19**	**0.23**	**0.27**	**0.31**	**0.34**	**0.38**	**0.42**	**0.46**	**0.50**	**0.54**	**0.58**	**0.62**	**0.65**	**0.69**	**0.73**	**0.77**
0.18	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.06	0.07	0.07
12	**0.20**	**0.33**	**0.45**	**0.58**	**0.71**	**0.83**	**0.96**	**1.05**	**1.18**	**1.30**	**1.43**	**1.56**	**1.68**	**1.81**	**1.93**	**2.03**	**2.16**	**2.28**	**2.41**
0.30	0.02	0.03	0.04	0.05	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	0.21	0.22
18	**0.41**	**0.66**	**0.91**	**1.17**	**1.42**	**1.68**	**1.93**	**2.12**	**2.38**	**2.63**	**2.89**	**3.14**	**3.39**	**3.65**	**3.90**	**4.09**	**4.35**	**4.60**	**4.86**
0.46	0.04	0.06	0.08	0.11	0.13	0.16	0.18	0.20	0.22	0.24	0.27	0.29	0.31	0.34	0.36	0.38	0.40	0.43	0.45
24	**0.61**	**0.99**	**1.38**	**1.76**	**2.14**	**2.52**	**2.91**	**3.19**	**3.58**	**3.96**	**4.34**	**4.72**	**5.11**	**5.49**	**5.87**	**6.16**	**6.54**	**6.92**	**7.31**
0.61	0.06	0.09	0.13	0.16	0.20	0.23	0.27	0.30	0.33	0.37	0.40	0.44	0.47	0.51	0.55	0.57	0.61	0.64	0.68
30	**0.81**	**1.33**	**1.84**	**2.35**	**2.86**	**3.37**	**3.88**	**4.26**	**4.77**	**5.29**	**5.80**	**6.31**	**6.82**	**7.33**	**7.84**	**8.22**	**8.73**	**9.25**	**9.76**
0.76	0.08	0.12	0.17	0.22	0.27	0.31	0.36	0.40	0.44	0.49	0.54	0.59	0.63	0.68	0.73	0.76	0.81	0.86	0.91
36	**1.02**	**1.66**	**2.30**	**2.94**	**3.58**	**4.22**	**4.85**	**5.33**	**5.97**	**6.61**	**7.25**	**7.89**	**8.53**	**9.17**	**9.81**	**10.29**	**10.93**	**11.57**	**12.21**
0.91	0.09	0.15	0.21	0.27	0.33	0.39	0.45	0.50	0.55	0.61	0.67	0.73	0.79	0.85	0.91	0.96	1.02	1.07	1.13
42	**1.22**	**1.99**	**2.76**	**3.53**	**4.29**	**5.06**	**5.83**	**6.40**	**7.17**	**7.94**	**8.71**	**9.47**	**10.24**	**11.01**	**11.78**	**12.35**	**13.12**	**13.89**	**14.66**
1.07	0.11	0.18	0.26	0.33	0.40	0.47	0.54	0.59	0.67	0.74	0.81	0.88	0.95	1.02	1.09	1.15	1.22	1.29	1.36
48	**1.43**	**2.32**	**3.22**	**4.12**	**5.01**	**5.91**	**6.80**	**7.47**	**8.37**	**9.27**	**10.16**	**11.06**	**11.95**	**12.85**	**13.75**	**14.42**	**15.31**	**16.21**	**17.10**
1.22	0.13	0.22	0.30	0.38	0.47	0.55	0.63	0.69	0.78	0.86	0.94	1.03	1.11	1.19	1.28	1.34	1.42	1.51	1.59
54	**1.63**	**2.66**	**3.68**	**4.70**	**5.73**	**6.75**	**7.78**	**8.54**	**9.57**	**10.59**	**11.62**	**12.64**	**13.67**	**14.69**	**15.71**	**16.48**	**17.51**	**18.53**	**19.55**
1.37	0.15	0.25	0.34	0.44	0.53	0.63	0.72	0.79	0.89	0.98	1.08	1.17	1.27	1.36	1.46	1.53	1.63	1.72	1.82
60	**1.84**	**2.99**	**4.14**	**5.29**	**6.45**	**7.60**	**8.75**	**9.62**	**10.77**	**11.92**	**13.07**	**14.22**	**15.38**	**16.53**	**17.68**	**18.55**	**19.70**	**20.85**	**22.00**
1.52	0.17	0.28	0.38	0.49	0.60	0.71	0.81	0.89	1.00	1.11	1.21	1.32	1.43	1.54	1.64	1.72	1.83	1.94	2.04
66	**2.04**	**3.32**	**4.60**	**5.88**	**7.16**	**8.44**	**9.73**	**10.69**	**11.97**	**13.25**	**14.53**	**15.81**	**17.09**	**18.37**	**19.65**	**20.61**	**21.89**	**23.17**	**24.45**
1.68	0.19	0.31	0.43	0.55	0.67	0.78	0.90	0.99	1.11	1.23	1.35	1.47	1.59	1.71	1.83	1.91	2.03	2.15	2.27
72	**2.25**	**3.65**	**5.06**	**6.47**	**7.88**	**9.29**	**10.70**	**11.76**	**13.17**	**14.57**	**15.98**	**17.39**	**18.80**	**20.21**	**21.62**	**22.68**	**24.08**	**25.49**	**26.90**
1.83	0.21	0.34	0.47	0.60	0.73	0.86	0.99	1.09	1.22	1.35	1.48	1.62	1.75	1.88	2.01	2.11	2.24	2.37	2.50
78	**2.45**	**3.99**	**5.52**	**7.06**	**8.60**	**10.14**	**11.67**	**12.83**	**14.36**	**15.90**	**17.44**	**18.98**	**20.51**	**22.05**	**23.59**	**24.74**	**26.28**	**27.81**	**29.35**
1.98	0.23	0.37	0.51	0.66	0.80	0.94	1.08	1.19	1.33	1.48	1.62	1.76	1.91	2.05	2.19	2.30	2.44	2.58	2.73
84	**2.65**	**4.32**	**5.99**	**7.65**	**9.32**	**10.98**	**12.65**	**13.90**	**15.56**	**17.23**	**18.89**	**20.56**	**22.22**	**23.89**	**25.56**	**26.80**	**28.47**	**30.14**	**31.80**
2.13	0.25	0.40	0.56	0.71	0.87	1.02	1.18	1.29	1.45	1.60	1.75	1.91	2.06	2.22	2.37	2.49	2.64	2.80	2.95
90	**2.86**	**4.65**	**6.45**	**8.24**	**10.03**	**11.83**	**13.62**	**14.97**	**16.76**	**18.55**	**20.35**	**22.14**	**23.94**						
2.29	0.27	0.43	0.60	0.77	0.93	1.10	1.27	1.39	1.56	1.72	1.89	2.06	2.22						
96	**3.06**	**4.99**	**6.91**	**8.83**	**10.75**	**12.67**	**14.60**	**16.04**	**17.96**	**19.88**	**21.80**	**23.73**	**25.65**						
2.44	0.28	0.46	0.64	0.82	1.00	1.18	1.36	1.49	1.67	1.85	2.03	2.20	2.38						
102	**3.27**	**5.32**	**7.37**	**9.42**	**11.47**	**13.52**	**15.57**	**17.11**	**19.16**	**21.21**	**23.26**	**25.31**	**27.36**						
2.59	0.30	0.49	0.68	0.88	1.07	1.26	1.45	1.59	1.78	1.97	2.16	2.35	2.54						
108	**3.47**	**5.65**	**7.83**	**10.01**	**12.19**	**14.37**	**16.54**	**18.18**	**20.36**	**22.54**	**24.71**	**26.89**	**29.07**						
2.74	0.32	0.52	0.73	0.93	1.13	1.34	1.54	1.69	1.89	2.09	2.30	2.50	2.70						
114	**3.68**	**5.98**	**8.29**	**10.60**	**12.90**	**15.21**	**17.52**	**19.25**	**21.56**	**23.86**	**26.17**	**28.48**	**30.78**						
2.90	0.34	0.56	0.77	0.98	1.20	1.41	1.63	1.79	2.00	2.22	2.43	2.65	2.86						
120	**3.88**	**6.32**	**8.75**	**11.19**	**13.62**	**16.06**	**18.49**	**20.32**	**22.75**	**25.19**	**27.63**	**30.06**	**32.50**						
3.05	0.36	0.59	0.81	1.04	1.27	1.49	1.72	1.89	2.11	2.34	2.57	2.79	3.02						
126	**4.09**	**6.65**	**9.21**	**11.78**	**14.34**	**16.90**	**19.47**	**21.39**	**23.95**	**26.52**	**29.08**	**31.64**	**34.21**						
3.05	0.36	0.59	0.81	1.04	1.27	1.49	1.72	1.89	2.11	2.34	2.57	2.79	3.02						
132	**4.29**	**6.98**	**9.67**	**12.37**	**15.06**	**17.75**	**20.44**	**22.46**	**25.15**	**27.84**	**30.54**	**33.23**	**35.92**						
3.35	0.40	0.65	0.90	1.15	1.40	1.65	1.90	2.09	2.34	2.59	2.84	3.09	3.34						
138	**4.49**	**7.31**	**10.13**	**12.95**	**15.78**	**18.60**	**21.42**	**23.53**	**26.35**	**29.17**	**31.99**	**34.81**	**37.63**						
3.51	0.42	0.68	0.94	1.20	1.47	1.73	1.99	2.19	2.45	2.71	2.97	3.23	3.50						
144	**4.70**	**7.65**	**10.60**	**13.54**	**16.49**	**19.44**	**22.39**	**24.60**	**27.55**	**30.50**	**33.45**	**36.39**	**39.34**						
3.66	0.44	0.71	0.98	1.26	1.53	1.81	2.08	2.29	2.56	2.83	3.11	3.38	3.65						

Document Links

- SCH501X Specification
- Architectural Louvers Catalog
- Finishes & Colors
- Qwik Ship Guide
- Airolite Warranty Statement

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The look that works.™

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Core Area Chart

Core Area Chart shows core area in square feet and square meters.

Louver Height Inches (Meters)	Louver Width in Inches (Meters)																		
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
	0.30	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52	1.68	1.83	1.98	2.13	2.29	2.44	2.59	2.74	2.90	3.05
7	**0.18**	**0.30**	**0.41**	**0.53**	**0.64**	**0.76**	**0.87**	**0.99**	**1.10**	**1.22**	**1.33**	**1.44**	**1.56**	**1.67**	**1.79**	**1.90**	**2.02**	**2.13**	**2.25**
0.18	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	0.21
12	**0.52**	**0.84**	**1.16**	**1.49**	**1.81**	**2.13**	**2.46**	**2.78**	**3.10**	**3.42**	**3.75**	**4.07**	**4.39**	**4.72**	**5.04**	**5.36**	**5.68**	**6.01**	**6.33**
0.30	0.05	0.08	0.11	0.14	0.17	0.20	0.23	0.26	0.29	0.32	0.35	0.38	0.41	0.44	0.47	0.50	0.53	0.56	0.59
18	**0.92**	**1.49**	**2.06**	**2.64**	**3.21**	**3.78**	**4.36**	**4.93**	**5.50**	**6.08**	**6.65**	**7.22**	**7.79**	**8.37**	**8.94**	**9.51**	**10.09**	**10.66**	**11.23**
0.46	0.09	0.14	0.19	0.25	0.30	0.35	0.41	0.46	0.51	0.56	0.62	0.67	0.72	0.78	0.83	0.88	0.94	0.99	1.04
24	**1.32**	**2.14**	**2.97**	**3.79**	**4.61**	**5.43**	**6.26**	**7.08**	**7.90**	**8.73**	**9.55**	**10.37**	**11.20**	**12.02**	**12.84**	**13.66**	**14.49**	**15.31**	**16.13**
0.61	0.12	0.20	0.28	0.35	0.43	0.50	0.58	0.66	0.73	0.81	0.89	0.96	1.04	1.12	1.19	1.27	1.35	1.42	1.50
30	**1.72**	**2.79**	**3.87**	**4.94**	**6.01**	**7.09**	**8.16**	**9.23**	**10.30**	**11.38**	**12.45**	**13.52**	**14.60**	**15.67**	**16.74**	**17.81**	**18.89**	**19.96**	**21.03**
0.76	0.16	0.26	0.36	0.46	0.56	0.66	0.76	0.86	0.96	1.06	1.16	1.26	1.36	1.46	1.56	1.65	1.75	1.85	1.95
36	**2.12**	**3.45**	**4.77**	**6.09**	**7.41**	**8.74**	**10.06**	**11.38**	**12.71**	**14.03**	**15.35**	**16.67**	**18.00**	**19.32**	**20.64**	**21.97**	**23.29**	**24.61**	**25.93**
0.91	0.20	0.32	0.44	0.57	0.69	0.81	0.93	1.06	1.18	1.30	1.43	1.55	1.67	1.79	1.92	2.04	2.16	2.29	2.41
42	**2.52**	**4.10**	**5.67**	**7.24**	**8.81**	**10.39**	**11.96**	**13.53**	**15.11**	**16.68**	**18.25**	**19.83**	**21.40**	**22.97**	**24.54**	**26.12**	**27.69**	**29.26**	**30.84**
1.07	0.23	0.38	0.53	0.67	0.82	0.97	1.11	1.26	1.40	1.55	1.70	1.84	1.99	2.13	2.28	2.43	2.57	2.72	2.87
48	**2.92**	**4.75**	**6.57**	**8.39**	**10.22**	**12.04**	**13.86**	**15.68**	**17.51**	**19.33**	**21.15**	**22.98**	**24.80**	**26.62**	**28.45**	**30.27**	**32.09**	**33.91**	**35.74**
1.22	0.27	0.44	0.61	0.78	0.95	1.12	1.29	1.46	1.63	1.80	1.96	2.13	2.30	2.47	2.64	2.81	2.98	3.15	3.32
54	**3.33**	**5.40**	**7.47**	**9.54**	**11.62**	**13.69**	**15.76**	**17.84**	**19.91**	**21.98**	**24.05**	**26.13**	**28.20**	**30.27**	**32.35**	**34.42**	**36.49**	**38.56**	**40.64**
1.37	0.31	0.50	0.69	0.89	1.08	1.27	1.46	1.66	1.85	2.04	2.23	2.43	2.62	2.81	3.01	3.20	3.39	3.58	3.78
60	**3.73**	**6.05**	**8.37**	**10.70**	**13.02**	**15.34**	**17.66**	**19.99**	**22.31**	**24.63**	**26.96**	**29.28**	**31.60**	**33.92**	**36.25**	**38.57**	**40.89**	**43.22**	**45.54**
1.52	0.35	0.56	0.78	0.99	1.21	1.43	1.64	1.86	2.07	2.29	2.50	2.72	2.94	3.15	3.37	3.58	3.80	4.02	4.23
66	**4.13**	**6.70**	**9.27**	**11.85**	**14.42**	**16.99**	**19.56**	**22.14**	**24.71**	**27.28**	**29.86**	**32.43**	**35.00**	**37.58**	**40.15**	**42.72**	**45.29**	**47.87**	**50.44**
1.68	0.38	0.62	0.86	1.10	1.34	1.58	1.82	2.06	2.30	2.53	2.77	3.01	3.25	3.49	3.73	3.97	4.21	4.45	4.69
72	**4.53**	**7.35**	**10.17**	**13.00**	**15.82**	**18.64**	**21.47**	**24.29**	**27.11**	**29.93**	**32.76**	**35.58**	**38.40**	**41.23**	**44.05**	**46.87**	**49.70**	**52.52**	**55.34**
1.83	0.42	0.68	0.94	1.21	1.47	1.73	1.99	2.26	2.52	2.78	3.04	3.31	3.57	3.83	4.09	4.35	4.62	4.88	5.14
78	**4.93**	**8.00**	**11.08**	**14.15**	**17.22**	**20.29**	**23.37**	**26.44**	**29.51**	**32.59**	**35.66**	**38.73**	**41.80**	**44.88**	**47.95**	**51.02**	**54.10**	**57.17**	**60.24**
1.98	0.46	0.74	1.03	1.31	1.60	1.89	2.17	2.46	2.74	3.03	3.31	3.60	3.88	4.17	4.45	4.74	5.03	5.31	5.60
84	**5.33**	**8.65**	**11.98**	**15.30**	**18.62**	**21.95**	**25.27**	**28.59**	**31.91**	**35.24**	**38.56**	**41.88**	**45.21**	**48.53**	**51.85**	**55.17**	**58.50**	**61.82**	**65.14**
2.13	0.50	0.80	1.11	1.42	1.73	2.04	2.35	2.66	2.96	3.27	3.58	3.89	4.20	4.51	4.82	5.13	5.43	5.74	6.05
90	**5.73**	**9.30**	**12.88**	**16.45**	**20.02**	**23.60**	**27.17**	**30.74**	**34.31**	**37.89**	**41.46**	**45.03**	**48.61**						
2.29	0.53	0.86	1.20	1.53	1.86	2.19	2.52	2.86	3.19	3.52	3.85	4.18	4.52						
96	**6.13**	**9.96**	**13.78**	**17.60**	**21.42**	**25.25**	**29.07**	**32.89**	**36.72**	**40.54**	**44.36**	**48.18**	**52.01**						
2.44	0.57	0.93	1.28	1.64	1.99	2.35	2.70	3.06	3.41	3.77	4.12	4.48	4.83						
102	**6.53**	**10.61**	**14.68**	**18.75**	**22.83**	**26.90**	**30.97**	**35.04**	**39.12**	**43.19**	**47.26**	**51.34**	**55.41**						
2.59	0.61	0.99	1.36	1.74	2.12	2.50	2.88	3.26	3.63	4.01	4.39	4.77	5.15						
108	**6.93**	**11.26**	**15.58**	**19.90**	**24.23**	**28.55**	**32.87**	**37.20**	**41.52**	**45.84**	**50.16**	**54.49**	**58.81**						
2.74	0.64	1.05	1.45	1.85	2.25	2.65	3.05	3.46	3.86	4.26	4.66	5.06	5.46						
114	**7.34**	**11.91**	**16.48**	**21.05**	**25.63**	**30.20**	**34.77**	**39.35**	**43.92**	**48.49**	**53.06**	**57.64**	**62.21**						
2.90	0.68	1.11	1.53	1.96	2.38	2.81	3.23	3.66	4.08	4.50	4.93	5.35	5.78						
120	**7.74**	**12.56**	**17.38**	**22.21**	**27.03**	**31.85**	**36.67**	**41.50**	**46.32**	**51.14**	**55.97**	**60.79**	**65.61**						
3.05	0.72	1.17	1.61	2.06	2.51	2.96	3.41	3.86	4.30	4.75	5.20	5.65	6.10						
126	**8.14**	**13.21**	**18.28**	**23.36**	**28.43**	**33.50**	**38.58**	**43.65**	**48.72**	**53.79**	**58.87**	**63.94**	**69.01**						
3.05	0.72	1.17	1.61	2.06	2.51	2.96	3.41	3.86	4.30	4.75	5.20	5.65	6.10						
132	**8.54**	**13.86**	**19.18**	**24.51**	**29.83**	**35.15**	**40.48**	**45.80**	**51.12**	**56.45**	**61.77**	**67.09**	**72.41**						
3.35	0.79	1.29	1.78	2.28	2.77	3.27	3.76	4.25	4.75	5.24	5.74	6.23	6.73						
138	**8.94**	**14.51**	**20.09**	**25.66**	**31.23**	**36.80**	**42.38**	**47.95**	**53.52**	**59.10**	**64.67**	**70.24**	**75.81**						
3.51	0.83	1.35	1.87	2.38	2.90	3.42	3.94	4.45	4.97	5.49	6.01	6.53	7.04						
144	**9.34**	**15.16**	**20.99**	**26.81**	**32.63**	**38.46**	**44.28**	**50.10**	**55.92**	**61.75**	**67.57**	**73.39**	**79.22**						
3.66	0.87	1.41	1.95	2.49	3.03	3.57	4.11	4.65	5.20	5.74	6.28	6.82	7.36						

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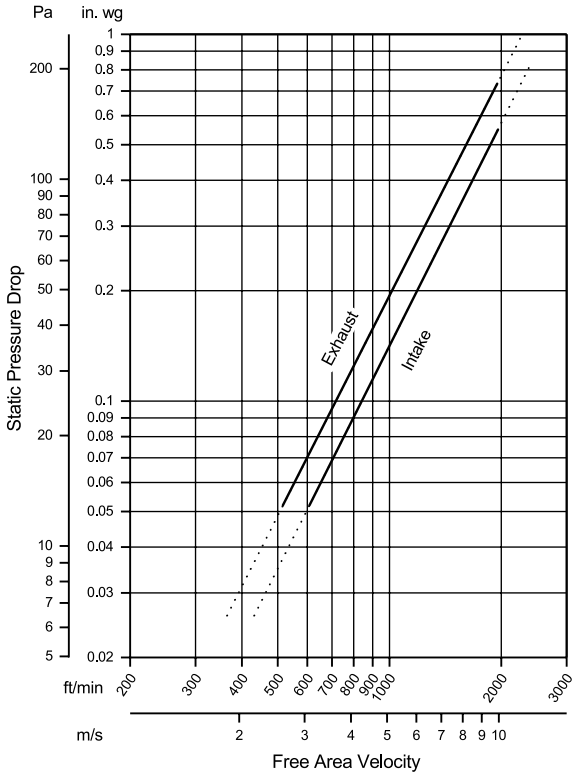
SCH501X

AMCA 540* Listed Hurricane Louver
Florida Product Approved
Extruded Aluminum | Storm Class
*AMCA 540 when selected as an option

Airflow Resistance

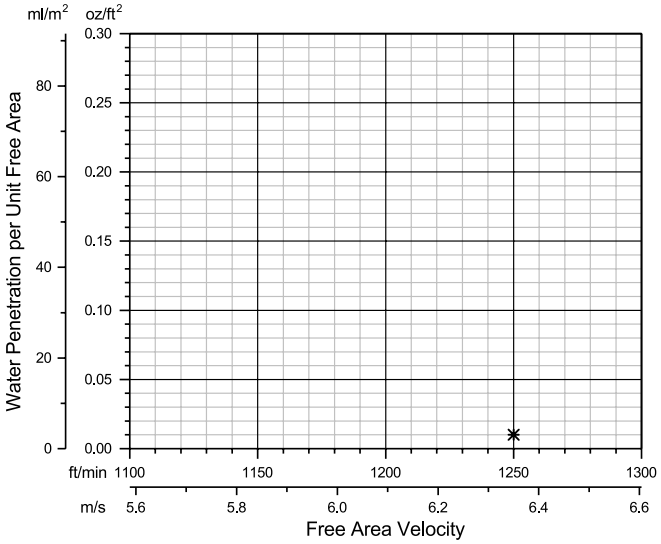
Standard Air - 0.075 lb/ft³ (1.2 kg/m³)
Test size 48 in. x 48 in. (1219 mm x 1219 mm)



Model SCH501X resistance to airflow (pressure drop) varies depending on louver application (air intake or air exhaust). Free area velocities (shown) are higher than average velocity through the overall louver size. See louver selection information. (Test Figure 5.5-6.5)

Water Penetration

Standard Air - 0.075 lb/ft³ (1.2 kg/m³)
Test size 48 in. x 48 in. (1219 mm x 1219 mm)
Test duration of 15 min.



The AMCA Water Penetration Test provides a method for comparing various louver models and designs as to their efficiency in resisting the penetration of rainfall under specific laboratory test conditions. The beginning point of water penetration is defined as that velocity where the water penetration curve projects through 0.01 oz. (3 g) of water (penetration) per sq. ft. (m^2) of louver free area. ***The beginning point of water penetration for Model SCH501X is above 1250 fpm (6.350 m/s) free area velocity.** These performance ratings do not guarantee a louver to be weatherproof or stormproof and should be used in combination with other factors including good engineering judgement in selecting louvers.

Wind-Driven Rain Performance

3 in./hr. (75 mm/hr.) Rainfall Rate & 29 mph (13 m/s) Wind Velocity				8 in./hr. (203 mm/hr.) Rainfall Rate & 50 mph (22.4 m/s) Wind Velocity			
Ventilation Air Core Velocity fpm (m/s)	Ventilation Air Free Area Velocity fpm (m/s)	Water Penetration Effectiveness %	Water Penetration Classification	Ventilation Air Core Velocity fpm (m/s)	Ventilation Air Free Area Velocity fpm (m/s)	Water Penetration Effectiveness %	Water Penetration Classification
0 (0.0)	0 (0.0)		A	0 (0.0)	0 (0.0)		A
98 (0.5)	193 (1.0)		A	98 (0.5)	193 (1.0)		A
197 (1.0)	387 (2.0)		A	197 (1.0)	387 (2.0)		A
295 (1.5)	580 (2.9)		A	295 (1.5)	580 (2.9)		A
394 (2.0)	774 (3.9)		A	394 (2.0)	774 (3.9)		A
492 (2.5)	967 (4.9)		A	498 (2.5)	979 (5.0)	99.1	A
591 (3.0)	1162 (5.9)	99.7	A	569 (2.9)	1118 (5.7)	99.2	A
689 (3.5)	1354 (6.9)	99.4	A	683 (3.5)	1343 (6.8)	99.2	A
776 (3.9)	1525 (7.7)	99.1	A	782 (4.0)	1537 (7.8)	98.9	B
858 (4.4)	1687 (8.6)	98.7	B	867 (4.4)	1704 (8.7)	98.1	B
974 (4.9)	1915 (9.7)	97.9	B	965 (4.9)	1897 (9.6)	94.4	C

Louvers shall be classified by their ability to reject simulated rain. The table shows different classifications based on the maximum simulated rain penetration of the louver. Water penetration rating at a given core or free area velocity is determined by the water penetration while the louver is subjected to a selected simulated rainfall rate and wind velocity.

Wind-Driven Rain Penetration Classes	
Class	Effectiveness
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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