089119 Product Data

Louvers

Extruded Louvers
Adjustable
Brick Vents
Combination
Drainable
Miami-Dade Qualified & Florida Approved
Narrow Profile
Penthouses
Sightproof
Stationary
Storm Class
Fabricated Louvers
Acoustic
Adjustable
Stationary

Grilles
Louver Screens
Sun Controls
Special Applications
Accessories
Selection Wizard

What's New
Current news and press releases.

SpecWizard
Guides you through selecting and configuring a product.

Selection Wizard
Find the louver that meets your needs and specifications.

Arcat
BIM objects/families/systems.

SCH601

Airolite louver type SCH601 is a Storm Class louver designed and rated to provide high volume intake and exhaust ventilation and the greatest level of protection against water penetration. The design incorporates a drainable head member and horizontal blades to provide maximum resistance to wind-driven rain.

Other Storm Class Products

SCC725
SCC735
SCC875
SCC901
SCH201
SCH401
SCH501
SCH7
SCH701
SCH8
SCV201
SCV301
SCV401
SCV501
SCV6
SCV602
SCV801

Specifications

Material:	Extruded Aluminum, Alloy 6063-T5
Louver Depth:	6" (152.4 mm)
Blade:	0.081" (2.06 mm)
Frame:	0.081" (2.06 mm)
Test Standard:	AMCA Standard 500-L
Free Area – 4 ft x 4 ft unit:	7.58 ft^2 (0.70 m^2)
Percent Free Area:	47%
Beginning point of Water Penetration:	1,250 fpm (6.35 m/s)
Air Volume Flow Rate at Beginning Point of Water Penetration:	9,475 cfm (4.47 m^3/s)
Pressure Drop at Beginning Point of Water Penetration:	0.32 in H^2O (0.02 kPa)

Per 2.6.A

Per 1.2.E

Per 2.3.4.b

Wind-Driven Rain Water Penetration Test

Exterior Wind Velocity:	29 mph (13 m/s)
Rainfall Rate:	3 in (75 mm/hr)
Effectiveness	99.8%
Core Ventilation:	763 fpm (3.9 m/s)
Exterior Wind Velocity:	50 mph (22 m/s)
Rainfall Rate:	8" (200 mm)/hr
Effectiveness:	99.2%
Core Ventilation:	676 fpm (3.4 m/s)

Per 2.3.4.b

Per 2.3.4.b

Resources

Product Information

- SCH601 Drawing
- SCH601 Specs
- SCH601 Submittal
- Stationary Louver Instruction Manual

DWG

- SCH601 Drawing

General Information

- Airolite Data Center Market Application
- Corporate Brochure
- 95th Anniversary
- Architectural Louvers
- Finish & Color
- Qwik Ship
- LEED/Green
- Warranty Info

AIROLITE®
The look that works.™

LOUVER TYPE
SCH601

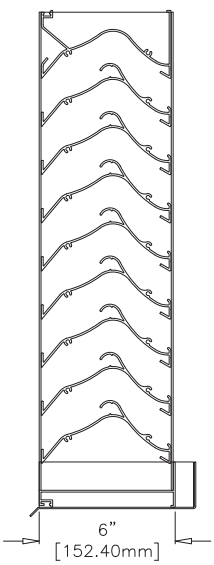
STORM CLASS™ LOUVER

Data matches spec

Visible Mullion Louver Type	SCH601
Material	Extruded Aluminum (Alloy 6063-T5)
Stationary Blade	0.081 in. (2.06 mm)
Frame	0.081 in. (2.06 mm)
Louver Depth	6 in. (152.4 mm)
Free Area – 4 ft. x 4 ft. Unit	7.58 sq. ft. (0.704 m^2)
Percent Free Area	47.4%
Free Area Velocity at Beginning Point of Water Penetration – 0.01 oz H_2O/sq. ft. Free Area	above 1,250 fpm (6.35 m/s)
Air Volume Flow Rate at Beginning Point of Water Penetration – 4 ft. x 4 ft. Unit	9,475 cfm (4.47 m^3/s)
Pressure Drop at Beginning Point of Water Penetration	0.32 in. H_2O (0.081 kPa)

Wind-Driven Rain Water Penetration Data

Exterior Wind Velocity	29 mph (13 m/s)
Rainfall Rate	3 in. (75 mm)/hour
Effectiveness	99.8%
Core Ventilation Rate	763 fpm (3.9 m/s)
Exterior Wind Velocity	50 mph (22 m/s)
Rainfall Rate	8 in. (200 mm)/hour
Effectiveness	99.2%
Core Ventilation Rate	676 fpm (3.4 m/s)



RECOMMENDED SPECIFICATION

GENERAL
Furnish and install where indicated on plans or described in schedules Storm Class™ Louver Type SCH601 as designed and manufactured by The Airolite Company LLC, Schofield, Wisconsin. Louvers shall be furnished with bird screen, insect screen, supports, installation hardware and finishes as specified and as required for a complete installation.

SUBMITTALS
Manufacturer shall submit shop drawings incorporating key plans, elevations, sections and details showing profiles, angles and spacing of louver blades and frames; unit dimensions related to wall openings and construction; and, anchorage details and locations. Provide samples of manufacturer's finish and color charts showing the full range of colors available. For each type of product specified, submit free area, air performance, water penetration and wind-driven rain ratings determined in accordance with AMCA Standard 500-L and licensed under the AMCA Certified Ratings Program.

PRODUCTS
Louvers shall be Storm Class™ type and rated to resist water penetration under wind-driven rain conditions. Louvers shall be 6-inches (152.4 mm) deep and assembled entirely from extruded aluminum components. Blades and frames shall be 0.081-inch (2 mm) thick aluminum, alloy 6063-T5. Blades shall be horizontal, inverted-V type with a center hook and spaced 2.125-inches (54 mm) on center.

OPTIONAL WELDED ASSEMBLY
Join stationary blade, head, sill and jamb frames with fillet welds concealed from view, unless the size of the louver makes screwed connections between louver sections necessary. Louver blades shall be joined to each jamb frame with fillet welds produced with the Pulsed Gas Metal Arc Welding (GMAW/Mig) process.

STRUCTURAL DESIGN CRITERIA
Manufacturer shall design and furnish all supports required to withstand a wind force of not less than 25 pounds per square foot. Louvers larger than 120-inches wide x 84-inches high or 84-inches wide x 120-inches high will be fabricated and installed in multiple sections. Louver blades, frames, mullions and anchorages shall be demonstrated to withstand the specified wind design load.

PERFORMANCE RATINGS

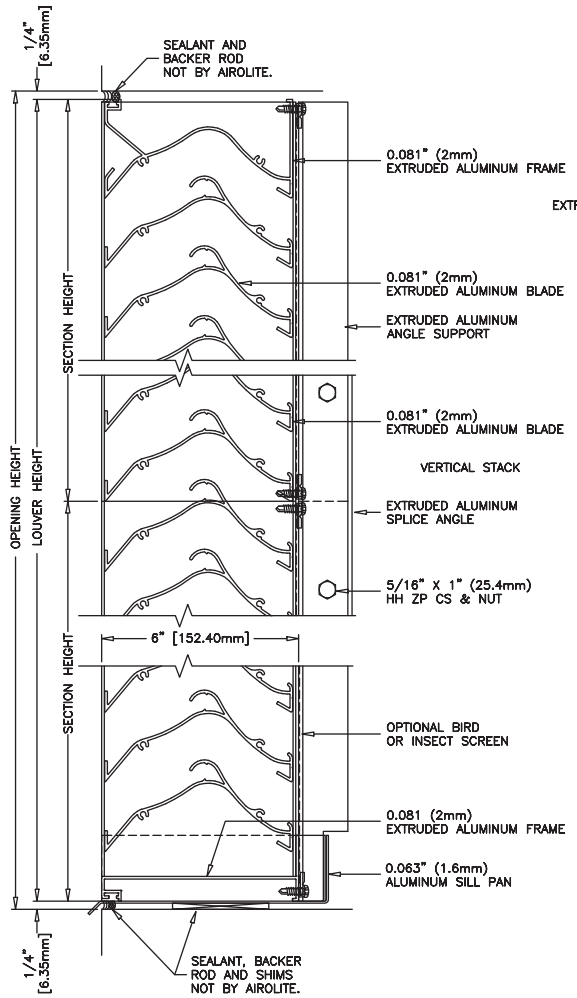
FREE AREA:	7.58 Square Feet (0.704 m^2)
MINIMUM FREE AREA VELOCITY at Beginning Point of Water Penetration:	1,250 fpm (6.35 m/s)
MINIMUM AIR VOLUME FLOW RATE at Beginning Point of Water Penetration:	9,475 cfm (4.47 m^3/s)
MAXIMUM STATIC PRESSURE at Beginning Point of Water Penetration:	0.32 in. H_2O (0.081 kPa)

See page 3 for complete Wind-driven Rain Performance
See page 4 for complete finish options

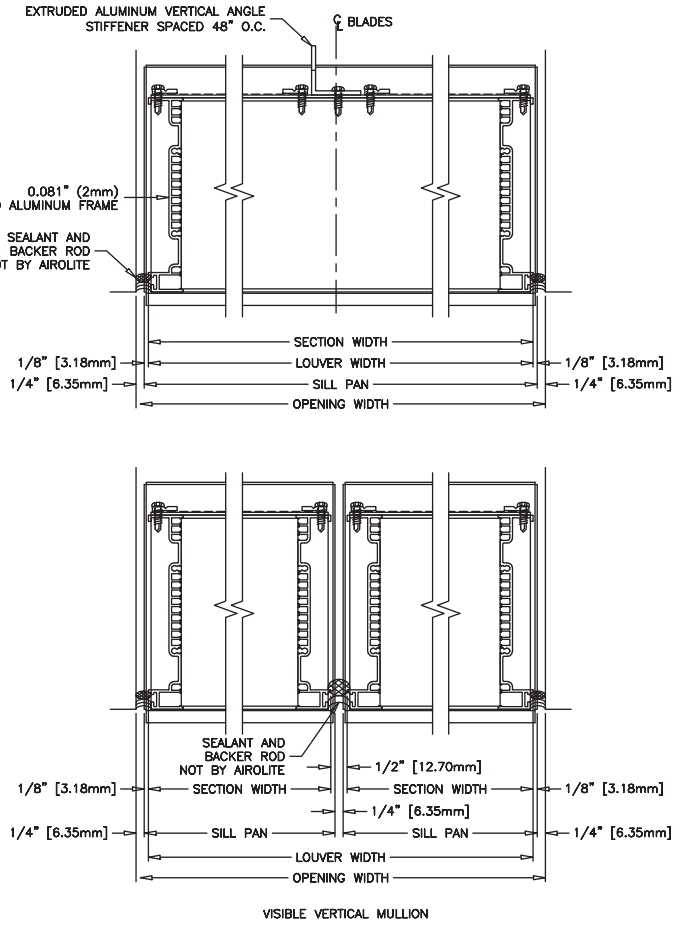
LOUVER TYPE SCH601 PRODUCT DESCRIPTION & DETAILS

Wind-driven rain is rainfall that is carried by the wind and driven onto the building façade. It is a complex phenomenon of falling raindrops in a turbulent flow of air around a structure. Wind-driven rain is one of the critical factors that ultimately determine the long-term use and effectiveness of building envelopes. In 1999, AMCA Standard 500 was modified to recognize the phenomenon of wind-driven rain with a rigorous new test procedure that measures the effectiveness of louver performance under wind-driven rain conditions. Airolite Storm Class™ louvers are designed and rated to provide high volume intake and exhaust ventilation and prevent water penetration under the most severe wind-driven rain conditions. Airolite Storm Class™ Louver Type SCH601 is a 6-inch (152.4 mm) deep horizontal blade louver rated to be 99.2% effective at a core area ventilation rate of 676 fpm (3.4 m/s) when tested at a wind velocity of 50 mph (22 m/s) and 8-inch (200 mm) per hour rainfall. Airolite Storm Class™ Louver Type SCH601 is a highly effective louver with AMCA Licensed Air Performance, Water Penetration and Wind-driven Rain performance ratings that enable designers to select and specify this product with confidence. Please contact your local Airolite representative or the factory for assistance with the layout and design of support systems when required.

VERTICAL SECTION DETAIL



PLAN SECTION DETAIL



Minimum Section Size:

12 in. (31 cm) W x 7 in. (18 cm) H

Maximum Section Size:

120 in. (305 cm) W x 120 in. (305 cm) H

*one dimension cannot exceed 84 in.

LOUVER TYPE SCH601 PERFORMANCE RATINGS

FREE AREA CHART - in square feet

Louver Height Inches	Louver Width in Inches																		
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
7	0.07	0.12	0.17	0.21	0.26	0.31	0.36	0.39	0.44	0.48	0.53	0.58	0.63	0.67	0.72	0.75	0.80	0.85	0.89
18	0.47	0.77	1.07	1.36	1.66	1.96	2.26	2.48	2.78	3.08	3.37	3.67	3.97	4.27	4.56	4.79	5.09	5.38	5.68
24	0.71	1.16	1.61	2.05	2.50	2.95	3.40	3.74	4.18	4.63	5.08	5.53	5.98	6.42	6.87	7.21	7.66	8.11	8.55
30	0.95	1.55	2.15	2.74	3.34	3.94	4.54	4.99	5.59	6.19	6.79	7.38	7.98	8.58	9.18	9.63	10.23	10.83	11.43
36	1.11	1.81	2.50	3.20	3.90	4.60	5.30	5.83	6.52	7.22	7.92	8.62	9.32	10.02	10.72	11.24	11.94	12.64	13.34
42	1.35	2.19	3.04	3.89	4.74	5.59	6.44	7.08	7.93	8.78	9.63	10.48	11.33	12.18	13.03	13.66	14.51	15.36	16.21
48	1.58	2.58	3.58	4.58	5.58	6.58	7.58	8.33	9.33	10.33	11.33	12.33	13.33	14.33	15.33	16.08	17.08	18.08	19.08
54	1.82	2.97	4.12	5.27	6.42	7.57	8.72	9.59	10.74	11.89	13.04	14.19	15.34	16.49	17.64	18.50	19.66	20.81	21.96
60	2.06	3.36	4.66	5.96	7.26	8.57	9.87	10.84	12.14	13.44	14.75	16.05	17.35	18.65	19.95	20.93	22.23	23.53	24.83
66	2.30	3.75	5.20	6.65	8.10	9.56	11.01	12.10	13.55	15.00	16.45	17.90	19.35	20.81	22.26	23.35	24.80	26.25	27.70
78	2.70	4.40	6.10	7.80	9.50	11.21	12.91	14.19	15.89	17.59	19.29	21.00	22.70	24.40	26.10	27.38	29.08	30.78	32.49
84	2.93	4.79	6.64	8.49	10.35	12.20	14.05	15.44	17.29	19.15	21.00	22.85	24.71	26.56	28.41	29.80	31.65	33.51	35.36
90	3.17	5.18	7.18	9.18	11.19	13.19	15.19	16.69	18.70	20.70	22.70	24.71	26.71	28.72	30.72	32.22	34.22	36.23	38.23
96	3.41	5.56	7.72	9.87	12.03	14.18	16.33	17.95	20.10	22.26	24.41	26.56	28.72	30.87	33.03	34.64	36.80	38.95	41.10
108	3.81	6.21	8.62	11.02	13.43	15.83	18.24	20.04	22.44	24.85	27.25	29.66	32.06	34.47	36.87	38.68	41.08	43.49	45.89
114	4.05	6.60	9.16	11.71	14.27	16.82	19.38	21.29	23.85	26.40	28.96	31.51	34.07	36.62	39.18	41.10	43.65	46.21	48.76
120	4.28	6.99	9.70	12.40	15.11	17.81	20.52	22.55	25.25	27.96	30.66	33.37	36.08	38.78	41.49	43.52	46.22	48.93	51.63

The Airolite Company, LLC certifies that Louver Type SCH601 shown herein is 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.

WATER PENETRATION

(Standard Air - .075 lb./ft.^{3}; Test Size - 48 in. x 48 in.; Test Duration - 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. of water (penetration) per sq. ft. of louver free area. 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. ***The beginning point of water penetration for Model SCH601 is above 1,250 fpm (6.35 m/s) free area velocity.**

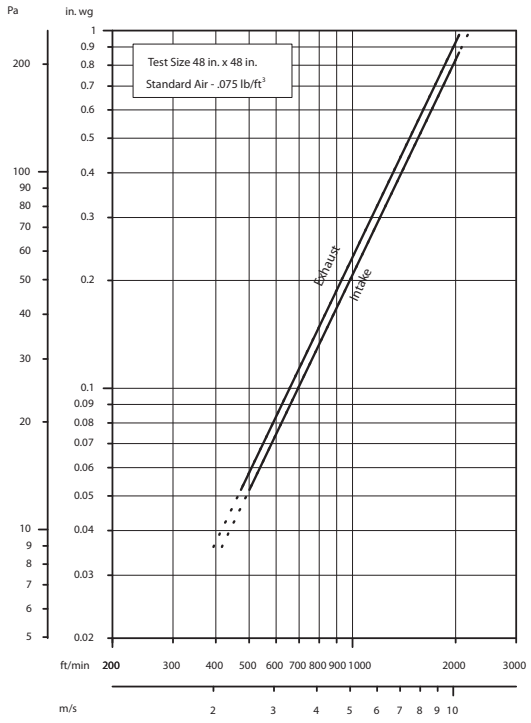
WIND-DRIVEN RAIN PERFORMANCE

75mm/h (3 in/hr) Rainfall & 13 m/s (29 mph) Wind Velocity				200mm/h (8 in/hr) Rainfall & 22 m/s (50 mph) Wind Velocity			
Free Area Ventilation Rate (fpm)	Ventilation Air Core Velocity m/s (fpm)	Water Penetration Effect. %	Water Penetration Classification	Free Area Ventilation Rate (fpm)	Ventilation Air Core Velocity m/s (fpm)	Water Penetration Effect. %	Water Penetration Classification
0	0 (0)			0	0 (0)		
179	98 (0.5)			179	98 (0.5)		
359	197 (1.0)			359	197 (1.0)		
538	295 (1.5)			538	295 (1.5)		
718	394 (2.0)			718	394 (2.0)		
897	492 (2.5)			864	474 (2.4)	99.5	A
1077	591 (3.0)			1033	567 (2.9)	99.6	A
1217	668 (3.4)	100.0	A	1232	676 (3.4)	99.2	A
1391	763 (3.9)	99.8	A	1394	765 (3.9)	98.5	B
1527	838 (4.3)	98.1	B	1567	860 (4.4)	95.6	B
1801	988 (5.0)	95.4	B	1744	957 (4.9)	88.7	C

Discharge Loss Coefficient Class (Intake) = 2

AIRFLOW RESISTANCE

(Standard Air - .075 lb./ft.^{3})



Louver Type SCH601 resistance to airflow varies depending on louver application (air intake or air exhaust). Free area velocities (shown) are higher than the average velocity through the overall louver size.

Weather louvers shall be classified by their ability to reject simulated rain. The table to the right shows different classifications based on the maximum simulated rain penetration per square meter (square feet) of louver. Water penetration rating at a given louver face velocity is determined by the water penetration while the louver is subjected to a selected simulated rainfall rate and wind velocity.

Discharge Loss Coefficient Classifications	
Class	Discharge Loss Coefficient
1	0.4 and Above
2	0.3 to 0.399
3	0.2 to 0.299
4	0.199 and Below

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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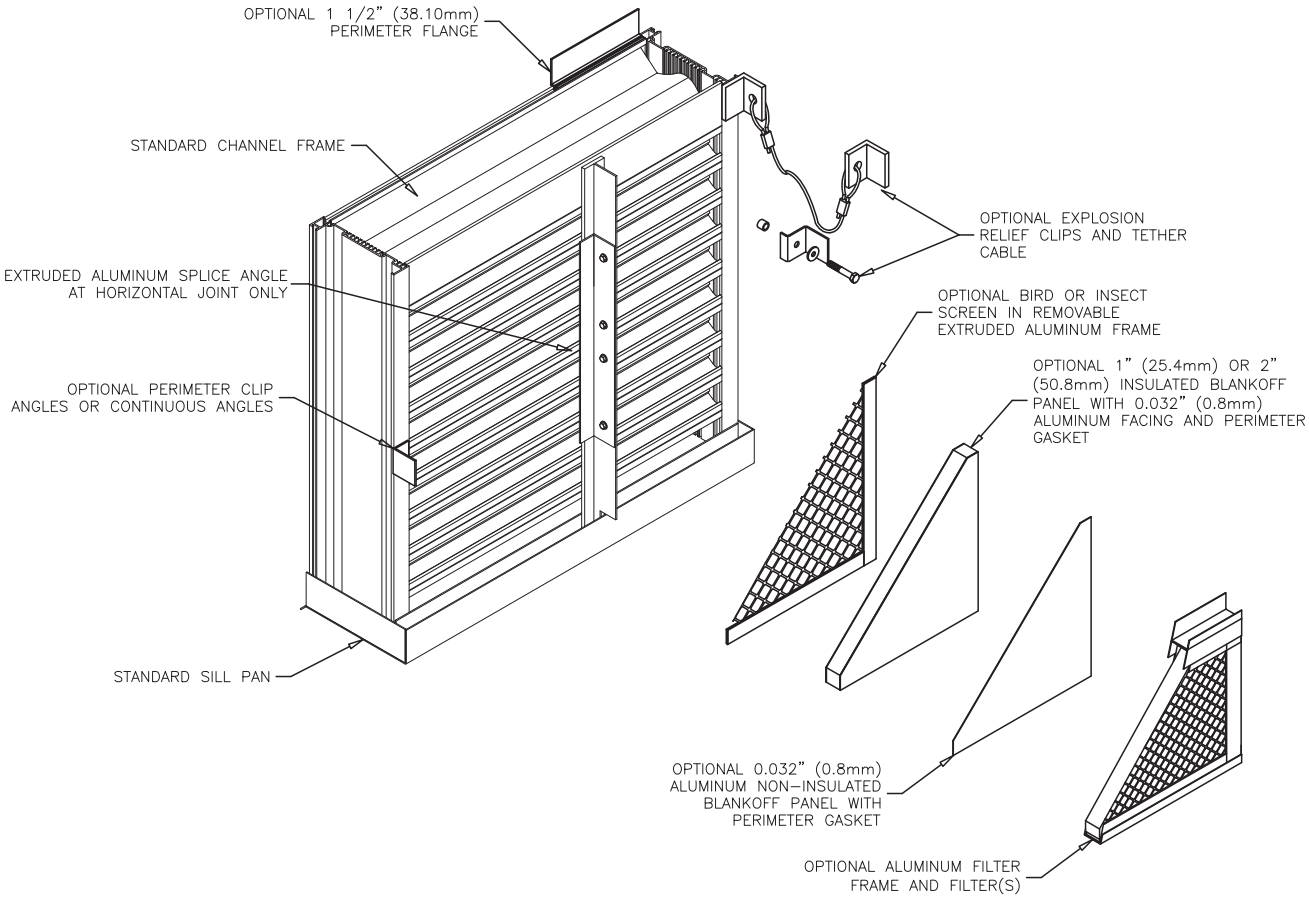
LOUVER TYPE SCH601
METHOD OF INSTALLATION & ACCESSORY OPTIONS



FINISHES (Select one of the following)

ACRYLIC ENAMEL: Louvers shall be cleaned, pretreated and Finished with an oven-cured thermosetting acrylic enamel finish that meets or exceeds the performance requirements of AAMA 2603, "Voluntary Specification Performance Requirements and Test Procedures for Pigmented Organic Coatings."

2-COAT FLUOROPOLYMER: Louvers shall be cleaned, pretreated and Finished with an inhibitive primer and oven-cured Kynar 500® / Hylar 5000® resin coating with minimum 1.2 mils dry-film coating thickness that meets or exceeds the performance requirements of AAMA 2605, "Voluntary Specification, Performance Requirements and Test Procedures for Superior Performance Organic Coatings on Aluminum Extrusions and Panels."

3-COAT FLUOROPOLYMER: Louvers shall be cleaned, pretreated and Finished with an inhibitive primer and oven-cured Kynar 500® / Hylar 5000® resin coating with minimum 2.0 mils dry-film coating thickness that meets or exceeds the performance requirements of AAMA 2605, "Voluntary Specification, Performance Requirements and Test Procedures for Superior Performance Organic Coatings on Aluminum Extrusions and Panels."

CLEAR ANODIZE: Louvers shall be Finished with a Class I clear anodized coating (AA-M10C22A41) that complies with the performance requirements of AAMA Specification 611-98, "Voluntary Specification for Anodized Architectural Aluminum."

COLOR ANODIZE: Louvers shall be Finished with a Class I electrolytically color anodized coating (AA-M10C22A42/44) that complies with the performance requirements of AAMA Specification 611-98, "Voluntary Specification for Anodized Architectural Aluminum." Color shall be (select one): Champagne, Light Bronze, Medium Bronze, Dark Bronze, Extra Dark Bronze or Black Anodize.

AIROLITE®
The look that works.™
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715.841.8757 • fax 715.841.8773 • www.airolite.com

Submittal SCH601 June 2010, Rev. 1

Louvers

The Right Solution for Data Centers

Are you designing or specifying exterior weather louvers for Data Center projects? When it comes to the selection of louver products there are seemingly endless styles and configurations you may consider. Design professionals must consider both protection from extreme weather elements along with aesthetics. Fortunately, Airolite manufacturers an industry leading line of high performance Wind Driven Rain louvers that will meet both the function and the form for your next Data Center project.

**For product specifications see reverse side.*

Meets AMCA requirements

Louver Selection

VERTICAL BLADE

SCV501
- 5 inch frame depth
- **54% free area**
- Class A Wind Driven Rain performance
- Extremely low airflow resistance
- AMCA 500-L Certified
  - Air Performance, Water Penetration and Wind Driven Rain

SCH601
- 6 inch frame depth
- 47% free area
- Class A Wind Driven Rain performance
- Extremely low airflow resistance
- AMCA 500-L Certified
  - Air Performance, Water Penetration and Wind Driven Rain

HORIZONTAL BLADE

MAXIMUM PROTECTION EXCELLENT

SCV660MD
- 6 inch frame depth
- 46% free area
- Class A Wind Driven Rain performance
- Extremely low airflow resistance
- AMCA 500-L Certified
  - Air Performance, Water Penetration and Wind Driven Rain
- AMCA 540 and 550 Listed
- **Miami-Dade Notice of Acceptance and Florida Building Code Approved**
  - 2 x 4 Impact Rated (TAS 201 & AMCA 540)
  - High Wind Load Rated (TAS 202 & TAS 203)
  - High Velocity Wind Driven Rain (TAS 100A & AMCA 550)

SCH601MD
- 6 inch frame depth
- 45% free area
- Class A Wind Driven Rain performance
- Extremely low airflow resistance
- AMCA 500-L Certified
  - Air Performance, Water Penetration and Wind Driven Rain
- AMCA 540 Listed
- **Miami-Dade Notice of Acceptance and Florida Building Code Approved**
  - 2 x 4 Impact Rated (TAS 201 & AMCA 540)
  - High Wind Load Rated (TAS 202 & TAS 203)
  - High Velocity Wind Driven Rain (TAS 100A)*
  - * With attached VCD-40 damper

Louver Models for Florida or the Hurricane Prone Region
as defined by the International Building Code

Suggested Specifications

SCV501 Suggested Specification

Louvers shall stationary vertical wind driven rain style. Frame shall be 5 in. deep with 0.081 in. nominal 6063-T5 extruded aluminum wall thickness. Blades shall be stationary vertical rain resistant style positioned on approximately 1.5 in. centers with 0.060 in. nominal 6063-T5 extruded aluminum wall thickness. Louver performance shall be certified in accordance with the AMCA 511 Certified Ratings Program for AMCA 500-L Air Performance, Water Penetration and Wind Driven Rain and shall be licensed to bear the AMCA Seal. Free area for a size 48 in. x 48 in. louver shall not be less than 8.71 Sq. Ft. (54.4%). Static pressure drop shall not be greater than 0.175 in. WG at 1000 FPM free area intake or exhaust velocity. Beginning point of water penetration shall not be less than 1250 FPM free area intake velocity. Louvers shall maintain Class A wind driven rain performance up to 956 FPM core velocity with an external wind speed of 50 MPH and an external rainfall rate of 8 in. per hour.

SCH601 Suggested Specification

Louvers shall be stationary horizontal wind driven rain style. Frame shall be 6 in. deep with 0.081 in. nominal 6063-T5 extruded aluminum wall thickness. Blades shall be stationary horizontal rain resistant style positioned on approximately 2 in. centers with 0.081 in. 6063-T5 extruded aluminum wall thickness. Louver performance shall be certified in accordance with the AMCA 511 Certified Ratings Program for AMCA 500-L Air Performance, Water Penetration and Wind Driven Rain and shall be licensed to bear the AMCA Seal. Free area for a size 48 in. x 48 in. louver shall not be less than 7.58 Sq. Ft. (47.4%). Static pressure drop shall not be greater than 0.210 in. WG at 1000 FPM free area intake velocity. Static pressure drop shall not be greater than 0.235 in. WG at 1000 FPM free area exhaust velocity. Beginning point of water penetration shall not be less than 1250 FPM free area intake velocity. Louvers shall maintain Class A wind driven rain performance up to 763 FPM core velocity with an external wind speed of 50 MPH and an external rainfall rate of 8 in. per hour.

SCV660MD Suggested Specification

Louvers shall be stationary vertical wind driven rain style with Miami-Dade Notice of Acceptance and Florida Product Approval. Frame shall be 6 in. nominal depth with 0.095 in. nominal 6063-T5 extruded aluminum wall thickness. Blades shall be vertical rain resistant style positioned on approximately 0.75 in. centers with 0.063 in. nominal 6063-T5 extruded aluminum wall thickness. Louvers performance shall be certified in accordance with the AMCA 511 Certified Ratings Program for AMCA 500-L Air Performance, Water Penetration and Wind Driven Rain and shall be licensed to bear the AMCA Seal. Louvers shall be AMCA 540 Listed for Enhanced Protection Impact Resistance and AMCA 550 Listed for High Velocity Rain Resistance. Free area for a size 48 in. x 48 in. louver shall not be less than 7.29 Sq. Ft. (45.6%). Static pressure drop shall not be greater than 0.185 in. WG at 1000 FPM free area intake velocity. Static pressure drop shall not be greater than 0.152 in. WG at 1000 FPM free area exhaust velocity. Beginning point of water penetration shall not be less than 1250 FPM free area intake velocity. Louvers shall maintain Class A wind driven rain performance up to 984 FPM core velocity with an external wind speed of 50 MPH and an external rainfall rate of 8 in. per hour. Louvers shall be tested and certified for compliance with Florida test protocols TAS 201, TAS 202, TAS 203 and TAS 100A. Louvers shall be capable of withstanding both positive and negative wind pressure loads up to 150 PSF when installed in accordance with the manufacturer's published installation instructions.

SCH601MD Suggested Specification

Louvers shall be stationary horizontal wind driven rain style with Miami-Dade Notice of Acceptance and Florida Product Approval. Frame shall be 6 in. deep with 0.081 in. 6063-T5 extruded aluminum wall thickness. Blades shall be stationary horizontal wind driven rain style positioned on approximately 2 in. centers with 0.081 in. nominal 6063-T5 extruded aluminum wall thickness. Louver performance shall be certified in accordance with the AMCA 511 Certified Ratings Program for AMCA 500-L Air Performance, Water Penetration and Wind Driven Rain and shall be licensed to bear the AMCA Seal. Louvers shall be AMCA 540 Listed for Enhanced Protection Impact Resistance. Free area for a size 48 in. x 48 in. louver shall not be less than 7.18 Sq. Ft. (44.9%). Static pressure drop shall not be greater than 0.210 in. WG at 1000 FPM free area intake velocity. Static pressure drop shall not be greater than 0.235 in. WG at 1000 FPM free area exhaust velocity. Beginning point of water penetration shall not be less than 1250 FPM free area intake velocity. Louvers shall maintain Class A wind driven rain performance up to 287 FPM core velocity with an external wind speed of 50 MPH and an external rainfall rate of 8 in. per hour. Louvers shall be tested and certified for compliance with Florida test protocols TAS 201, TAS 202 and TAS 203. Louvers shall be tested and certified for compliance with Florida test protocol TAS 100A when specified to include a factory attached control damper in the closed position. Louvers shall be capable of withstanding both positive and negative wind pressure loads up to 150 PSF when installed in accordance with the manufacturer's published installation instructions.

For more information regarding the Airolite Louvers for Data Centers, visit www.airolite.com or consult your local Airolite sales representative.

AIROLITE® The look that works.™

AIROLITE WE'RE AN AMERICAN BRAND Est. 1919

Workmanship. Partnership. Leadership.

The Airolite Company, LLC
PO Box 410
Schofield, WI 54476
phone 715.841.8757
fax 715.841.8773
www.airolite.com

AIROLITE®
The look that works.™

SCH601 - RECOMMENDED SPECFICATION

GENERAL
Furnish and install where indicated on plans or described in schedules Storm Class™ Louver Type SCH601 as designed and manufactured by The Airolite Company LLC, Schofield, Wisconsin. Louvers shall be furnished with bird screen, insect screen, supports, installation hardware and finishes as specified and as required for a complete installation.

SUBMITTALS
Manufacturer shall submit shop drawings incorporating key plans, elevations, sections and details showing profiles, angles and spacing of louver blades and frames; unit dimensions related to wall openings and construction; and, anchorage details and locations. Submit theoretical calculations prepared by a professional engineer specializing in the application of welding technology demonstrating that each fillet weld joining blade and frame members will withstand a minimum of 526 pounds of force in shear. Provide samples of manufacturer's finish and color charts showing the full range of colors available. For each type of product specified, submit free area, air performance, water penetration and wind-driven rain ratings determined in accordance with AMCA Standard 500-L 99 and licensed under the AMCA Certified Ratings Program.

PRODUCTS
Louvers shall be Storm ClassTM type and rated to resist water penetration under wind-driven rain conditions. Louvers shall be 6-inches (152.4 mm) deep and assembled entirely from extruded aluminum components. Blades and frames shall be 0.081-inch (2 mm) thick aluminum, alloy 6063-T5. Blades shall be horizontal, inverted-V type with a center hook and spaced 2.125-inches (54 mm) on center.

OPTIONAL WELDED ASSEMBLY
Join stationary blade, head and jamb frames with fillet welds concealed from view, unless the size of the louver makes bolted connections between louver sections necessary. Louver blades shall be joined to each jamb frame with a minimum of two fillet welds produced with the Pulsed Gas Metal Arc Welding (GMAW/Mig) process. Each weld shall be a minimum of 1-inch (25.4 mm) in length with a minimum 1/8-inch (3.175 mm) leg. Frames shall be joined at each corner with a full-length GMAW fillet weld with a minimum 1/8-inch (3.175 mm) leg.

STRUCTURAL DESIGN CRITERIA
Manufacturer shall design and furnish all supports required to withstand a wind force of not less than 25 pounds per square foot. Louvers larger than 84-inches (213 cm) wide x 120-inches (305 cm) high or 120-inches (305 cm) wide x 84-inches (213 cm) high will be fabricated and installed in multiple sections. Louver blades, frames, mullions and anchorages shall be demonstrated to withstand the specified wind design load.

PERFORMANCE RATINGS

FREE AREA:	7.58 Square Feet (0.70 m^2)
MINIMUM FREE AREA VELOCITY	
at Beginning Point of Water Penetration:	1,250 fpm (6.35 m/s)
MINIMUM AIR VOLUME FLOW RATE	
at Beginning Point of Water Penetration:	9,475 cfm (4.47 m^3/s)
MAXIMUM STATIC PRESSURE	
at Beginning Point of Water Penetration:	0.32 in. H_2O (0.081 kPa)

CANNONDESIGN

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

WEBSTER UNIVERSITY ISB
PROJECT NAME

8274 BIG BEND BLVD
ADDRESS

NUMBER

WEBSTER UNIVERSITY
OWNER

CANNON DESIGN
ARCHITECT / ENGINEER

Devin Gates
SUBMITTED BY

089119-001
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

089119
SPECIFICATION SECTION / PARAGRAPH

MANUFACTURER / SUPPLIER

ITEM / PRODUCT ID

REQUIRED DATE

PRIORITY

CRITICAL

ITEM BEING SUBMITTED (check only one)

- ○ Shop Drawings
- ○ Samples (_____ copies)
- ○ LEED Submittal
- ○ Certification / Qualifications
- ◉ Record Documents
- ○ Product Data
- ○ Coordination Drawing
- ○ Calculations
- ○ Schedules
- ○ O&M Manuals
- ○ Other _____

ITEM BEING SUBMITTED FOR (check only one)

◉ Action ○ Information Only ○ Record

REMARKS OR DEVIATIONS

CONTRACTOR / CM CERTIFICATION
(SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)

PARIC

PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

By:
Devin D. Gates

Devin Gates — REVIEWED BY
4/13/17 — DATE

To be completed by Reviewer

08 9119-001 REV002
CANNON DESIGN SUBMITTAL NUMBER

4/17/17
RECEIVED DATE

- ◉ A. No Exceptions Taken
  No further review of submittal is required.
- ○ B. Make Corrections Noted
  Incorporate corrections in work; resubmission is not required.
- ○ C. Revise and Resubmit
  Revise as noted, and resubmit for review.
- ○ D. Rejected
  Submittal is not in compliance with Contract Documents; provide new submittal.
- ○ E. For Record / Information Only
  Submittal was reviewed for Record / Information purposes only.
- ○ F. Not Required for Review
  Submittal is not required by Contract Documents and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

A/E COMMENTS ○ See attached sheet(s) for additional comments

Comments from WTA:
1. Louvers shall be furnished with aluminum wire birdscreen in removable extruded aluminum frames.
2. Provide insulated blank off panels behind unused portions of louvers as required, painted black.

Kathy Williams — REVIEWED BY
4/18/17 — DATE

PARIC
EXPERIENCE. EXCELLENCE.
77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0525

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 03/06/2017

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

Fax;
314-241-2203

RE: Fixed louvers-product data

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☐ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	**SENT VIA:**	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☑ Other: Product Data	☐ Separate Cover Via:	☑ Due Date: 10/31/2016

Item	*Package*	*Code*	*Rev.*	*Copies*	*Date*	*Description*	*Status*
Submittal		089119-001	1		03/06/2017	Fixed louvers-product data	Submitted

NOTES:

CC:

Signed: _____
Devin Gates