AIROLITE®
The look that works.™

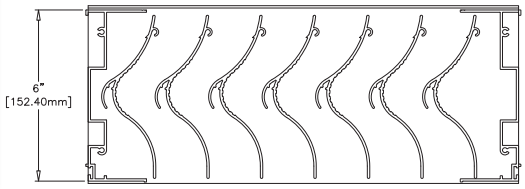
LOUVER TYPE
SCV602

STORM CLASS™ LOUVER

Visible Mullion Louver Type	SCV602
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	5.88 sq. ft. (0.55 m^2)
Percent Free Area	36.8%
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	7,350 cfm (3.47 m^3/s)
Pressure Drop at Beginning Point of Water Penetration	0.12 in. H_2O (0.030 kPa)

Wind-Driven Rain Water Penetration Data

Exterior Wind Velocity	29 mph (13 m/s)
Rainfall Rate	3 in. (75 mm)/hour
Effectiveness	99.4%
Core Ventilation Rate	693 fpm (3.5 m/s)
Exterior Wind Velocity	50 mph (22 m/s)
Rainfall Rate	8 in. (200 mm)/hour
Effectiveness	99.1%
Core Ventilation Rate	681 fpm (3.5 m/s)



RECOMMENDED SPECIFICATION

GENERAL
Furnish and install where indicated on plans or described in schedules Storm Class™ Louver Type SCV602 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 vertical blade Storm Class™ Louver Type SCV602. 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 vertical, rain-resistant -type with a center hook and spaced 1-7/8-inches (47.6 mm) on center.

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 60-inches wide x 96-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

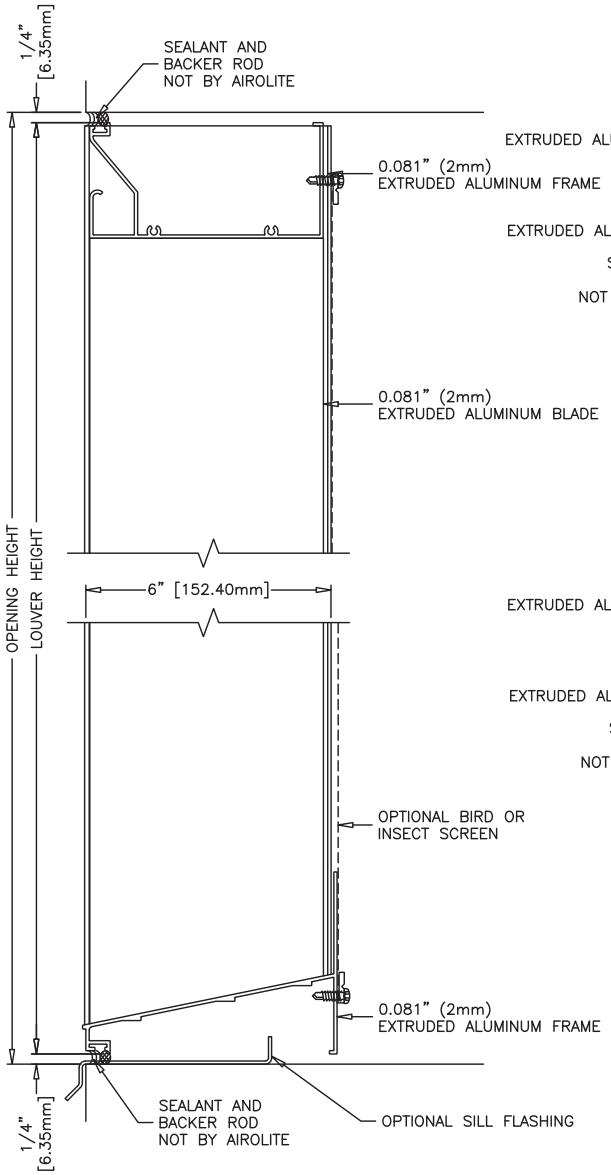
FREE AREA:	5.88 Square Feet (0.55 m^2)
MINIMUM FREE AREA VELOCITY at Beginning Point of Water Penetration:	1,250 fpm (6.35 m/s)
MINIMUM AIR VOLUME FLOW RATE at Beginning Point of Water Penetration:	7,350 cfm (3.47 m^3/s)
MAXIMUM STATIC PRESSURE at Beginning Point of Water Penetration:	0.12 in. H_2O (0.030 kPa)

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

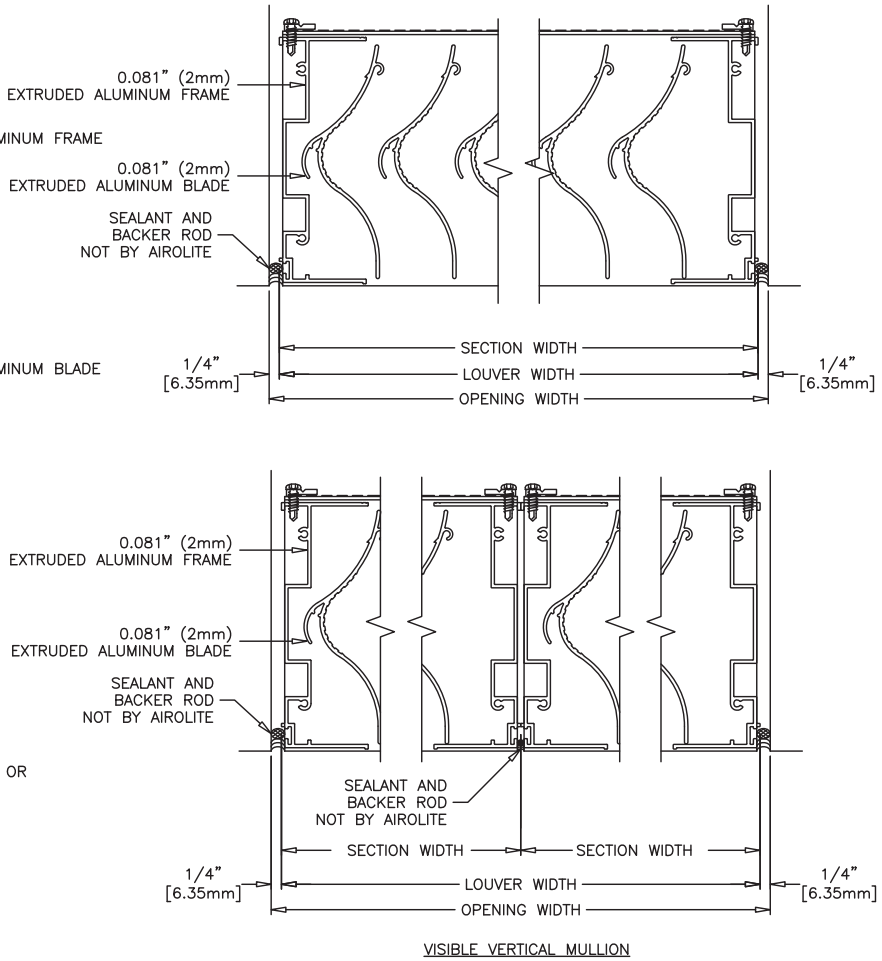
LOUVER TYPE SCV602 PRODUCT DESCRIPTION & DETAILS

Airolite Storm Class™ louvers are designed and rated to provide high volume intake and exhaust ventilation and inhibit water penetration under the most severe wind-driven rain conditions. Airolite Storm Class™ Louver Type SCV602 is a 6-inch (152.4 mm) deep vertical blade louver rated to be 99.1% effective against water penetration when tested at a wind velocity of 50 mph (22 m/s) and 8-inches (200 mm) per hour rainfall rate at a core ventilation rate of 681 fpm (3.5 m/s). Airolite Storm Class™ Louver Type SCV602 is a highly effective louver with AMCA Licensed air performance and water penetration 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



VISIBLE VERTICAL MULLION

Minimum Section Size:

12 in. (31 cm) W x 16 in. (41 cm) H

Maximum Section Size:

60 in. (152 cm) W x 96 in. (244 cm) H

LOUVER TYPE SCV602 PERFORMANCE RATINGS

FREE AREA CHART - in square feet

Louver Height Inches	Louver Width in Inches								
	12	18	24	30	36	42	48	54	60
16	0.23	0.39	0.61	0.77	0.91	1.07	1.23	1.45	1.61
18	0.29	0.48	0.76	0.95	1.13	1.33	1.52	1.80	1.99
24	0.45	0.76	1.19	1.50	1.78	2.09	2.39	2.83	3.13
30	0.61	1.03	1.62	2.04	2.43	2.85	3.26	3.86	4.27
36	0.78	1.31	2.06	2.59	3.08	3.61	4.14	4.89	5.41
42	0.94	1.58	2.49	3.13	3.72	4.37	5.01	5.92	6.55
48	1.11	1.86	2.93	3.68	4.37	5.13	5.88	6.95	7.69
54	1.27	2.14	3.36	4.22	5.02	5.89	6.75	7.98	8.84
60	1.43	2.41	3.79	4.76	5.67	6.65	7.62	9.01	9.98
66	1.60	2.69	4.23	5.31	6.32	7.41	8.50	10.04	11.12
72	1.76	2.96	4.66	5.85	6.97	8.17	9.37	11.07	12.26
78	1.93	3.24	5.10	6.40	7.61	8.93	10.24	12.10	13.40
84	2.09	3.52	5.53	6.94	8.26	9.69	11.11	13.13	14.54
90	2.26	3.79	5.96	7.49	8.91	10.45	11.98	14.16	15.68
96	2.42	4.07	6.40	8.03	9.56	11.21	12.86	15.19	16.82

The Airolite Company, LLC certifies that Louver Type SCV602 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 weather-proof 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 SCV602 is above 1,250 fpm (6.35 m/s) free area velocity.**

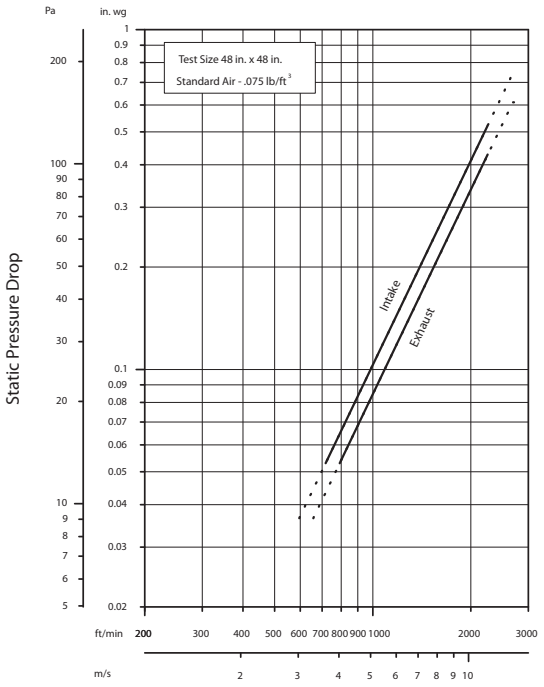
WIND-DRIVEN RAIN PERFORMANCE

	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	
Ventilation Air Core Velocity m/s (fpm)	Water Penetration Effectiveness %	Water Penetration Classification	Ventilation Air Core Velocity m/s (fpm)	Water Penetration Effectiveness %	Water Penetration Classification
0.0 (0)		A	0.0 (0)		A
0.5 (98)		A	0.5 (98)		A
1.0 (197)		A	1.0 (197)		A
1.5 (295)		A	1.5 (295)		A
2.0 (394)		A	2.0 (394)		A
2.5 (488)	99.7	A	2.5 (499)	99.4	A
3.0 (599)	99.6	A	2.9 (578)	99.3	A
3.5 (693)	99.4	A	3.5 (681)	99.1	A

Discharge Loss Coefficient Class (Intake) = 2

AIRFLOW RESISTANCE

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



Louver Type SCV602 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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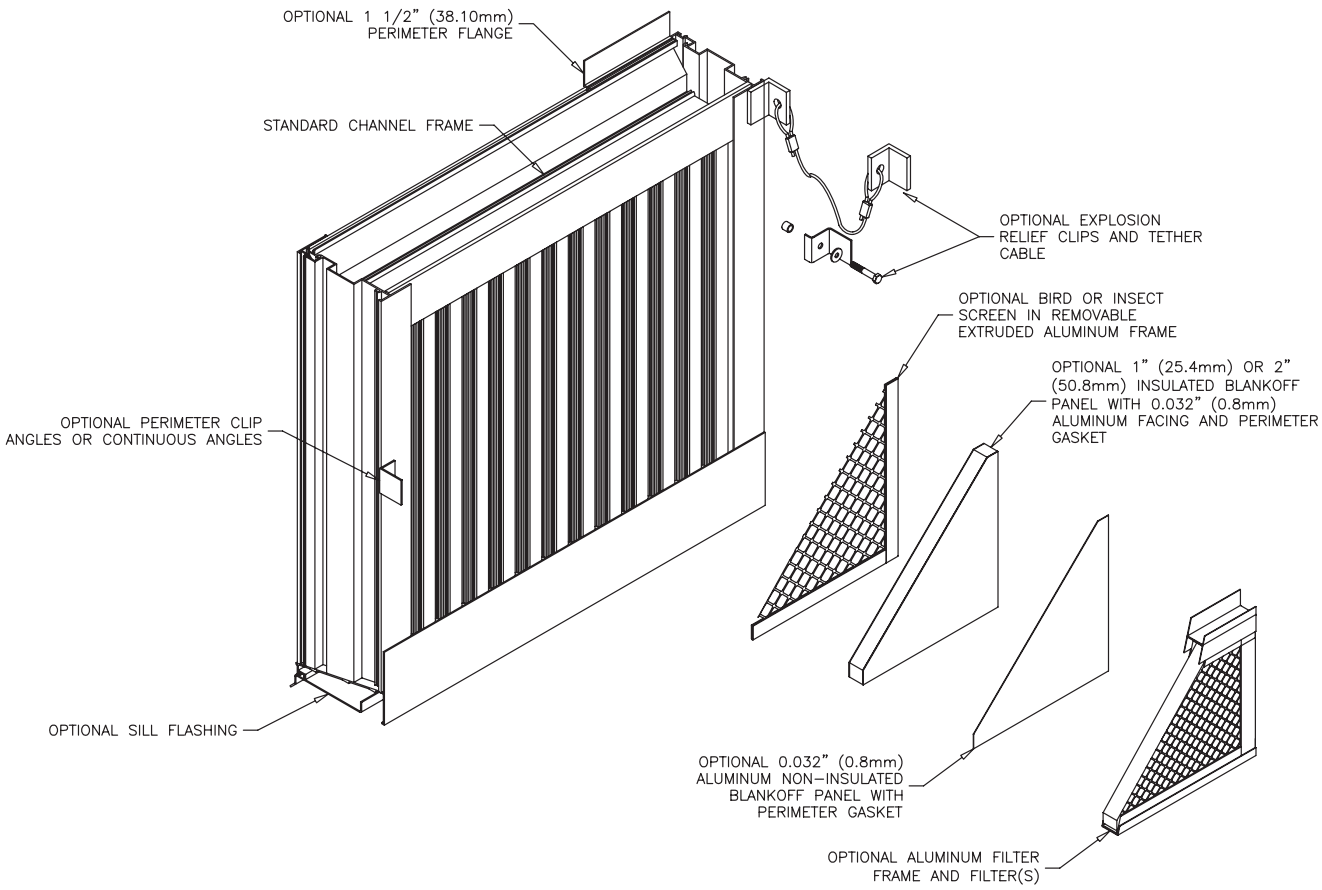
LOUVER TYPE SCV602
METHOD OF INSTALLATION & ACCESSORY OPTIONS



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.

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