

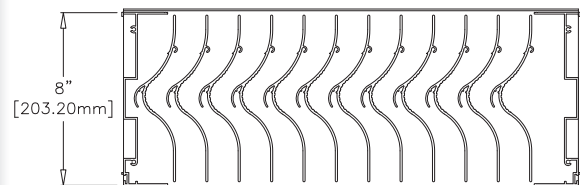
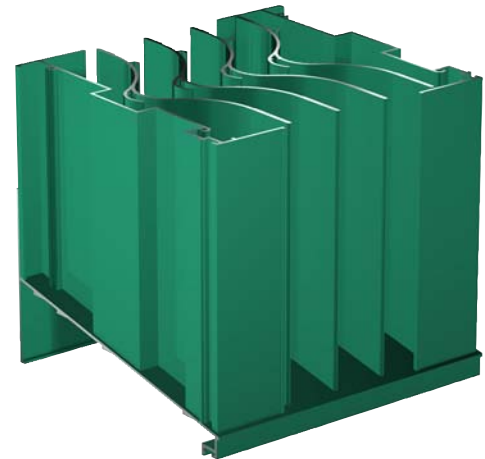


STORM CLASS[™] LOUVER

Visible Mullion Louver Type	SCV801
Material	Extruded Aluminum (Alloy 6063-T5)
Stationary Blade	0.081 in. (2.06 mm)
Frame	0.081 in. (2.06 mm)
Louver Depth	8 in. (203.2 mm)
Free Area – 4 ft. x 4 ft. Unit	5.05 sq. ft. (0.469 m ²)
Percent Free Area	31.6%
Free Area Velocity at Beginning Point of Water Penetration – 0.01 oz H₂O/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	6,312 cfm (2.98 m ³ /s)
Pressure Drop at Beginning Point of Water Penetration	0.10 in. H ₂ O (0.025 kPa)

Wind-Driven Rain Water Penetration Data

Exterior Wind Velocity	29 mph (13 m/s)
Rainfall Rate	3 in. (75 mm)/hour
Effectiveness	99.6%
Core Ventilation Rate	703 fpm (3.5 m/s)
Exterior Wind Velocity	50 mph (22 m/s)
Rainfall Rate	8 in. (200 mm)/hour
Effectiveness	99.7%
Core Ventilation Rate	692 fpm (3.5 m/s)



RECOMMENDED SPECIFICATION

GENERAL

Furnish and install where indicated on plans or described in schedules Storm Class[™] Louver Type SCV801 as designed and manufactured by The Airlite 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-99 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 8-inches (203.2 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, V-type with a center hook and spaced 1-1/2 inches (38.1 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:	5.05 Square Feet (0.469 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:	6,312 cfm (2.98 m ³ /s)
MAXIMUM STATIC PRESSURE at Beginning Point of Water Penetration:	0.10 in. H ₂ O (0.025 kPa)

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

LOUVER TYPE SCV801 PERFORMANCE RATINGS

FREE AREA CHART - in square feet

Louver Height Inches	Louver Width in Inches																
	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60
16	0.18	0.25	0.32	0.39	0.46	0.53	0.60	0.67	0.74	0.81	0.88	0.95	1.02	1.09	1.16	1.23	1.30
18	0.22	0.31	0.40	0.48	0.57	0.66	0.75	0.83	0.92	1.01	1.10	1.19	1.27	1.36	1.45	1.54	1.63
24	0.35	0.49	0.63	0.77	0.91	1.05	1.19	1.33	1.47	1.61	1.75	1.89	2.03	2.17	2.31	2.45	2.59
30	0.48	0.67	0.89	1.06	1.25	1.44	1.63	1.82	2.02	2.21	2.40	2.59	2.78	2.98	3.17	3.36	3.55
36	0.61	0.85	1.10	1.34	1.59	1.83	2.08	2.32	2.56	2.81	3.05	3.30	3.54	3.78	4.03	4.27	4.52
42	0.74	1.04	1.33	1.62	1.93	2.22	2.52	2.81	3.11	3.41	3.70	4.00	4.30	4.59	4.89	5.18	5.48
48	0.87	1.22	1.57	1.92	2.26	2.67	2.96	3.31	3.66	4.01	4.35	4.70	5.05	5.40	5.75	6.10	6.44
54	1.00	1.40	1.80	2.20	2.60	3.00	3.40	3.80	4.20	4.60	5.00	5.41	5.81	6.21	6.61	7.01	7.41
60	1.13	1.59	2.04	2.49	2.94	3.39	3.85	4.30	4.75	5.20	5.66	6.11	6.56	7.01	7.47	7.92	8.37
66	1.26	1.77	2.27	2.78	3.28	3.78	4.29	4.79	5.30	5.80	6.31	6.81	7.32	7.82	8.33	8.83	9.33
72	1.39	1.95	2.50	3.06	3.62	4.17	4.73	5.29	5.84	6.40	6.96	7.51	8.07	8.63	9.18	9.74	10.30
78	1.52	2.13	2.74	3.35	3.96	4.57	5.17	5.78	6.39	7.00	7.61	8.22	8.83	9.44	10.04	10.65	11.26
84	1.65	2.31	2.97	3.63	4.30	4.96	5.62	6.28	6.94	7.60	8.26	8.92	9.58	10.24	10.90	11.56	12.22
90	1.78	2.50	3.21	3.92	4.63	5.35	6.06	6.77	7.49	8.20	8.91	9.62	10.34	11.05	11.76	12.48	13.19
96	1.91	2.68	3.44	4.21	4.97	5.74	6.50	7.27	8.03	8.80	9.56	10.33	11.09	11.86	12.62	13.39	14.15



The Airlite Company, LLC certifies that Louver Type SCV801 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 SCV801 is above 1,250 fpm (6.35 m/s) free area velocity.**

WIND-DRIVEN RAIN PERFORMANCE

Ventilation Air Core Velocity m/s (fpm)	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	
	Water Penetration Effectiveness	Water Penetration Classification	Water Penetration Effectiveness	Water Penetration Classification
	%		%	
0.0 (0)		A		A
0.5 (98)		A		A
1.0 (197)		A		A
1.5 (295)		A		A
2.0 (394)		A		A
2.5 (489)	99.9	A	99.9	A
3.0 (592)	100.0	A	99.8	A
3.6 (703)	99.6	A	99.7	A

Discharge Loss Coefficient Class (Intake) = 2

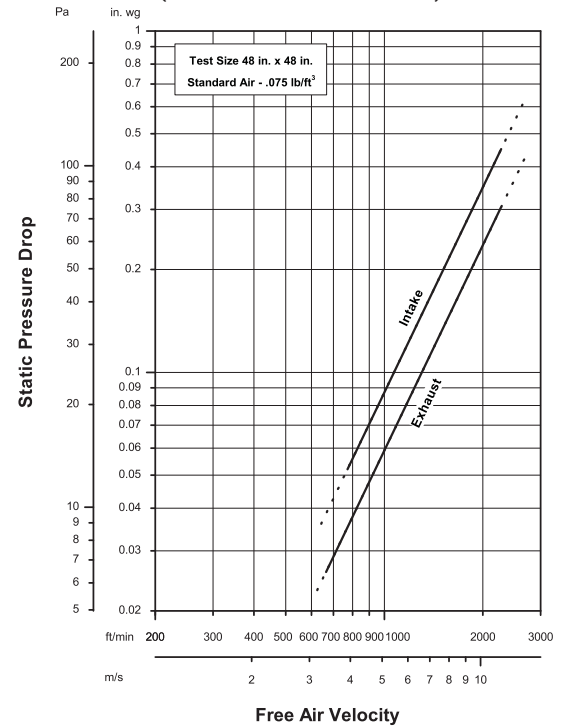
Weather louvers shall be classified by their ability to reject simulated rain. The table to the right shows different classifications based on the maximum simulated rain penetration per square meter (square feet) of louver. Water penetration rating at a given louver face velocity is determined by the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

AIRFLOW RESISTANCE

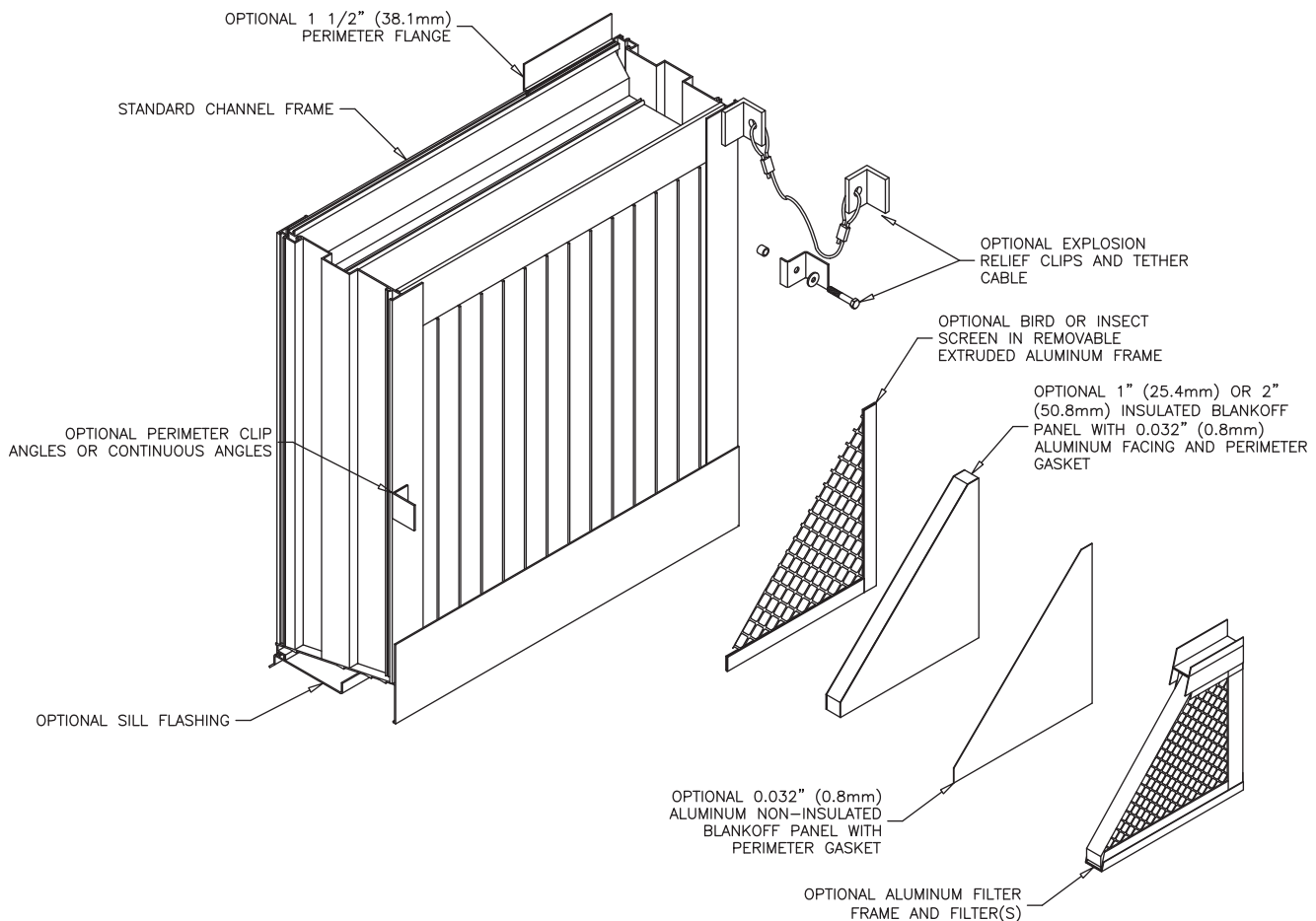
(Standard Air - .075 lb./ft.³)



Louver Type SCV801 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.

LOUVER TYPE SCV801

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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