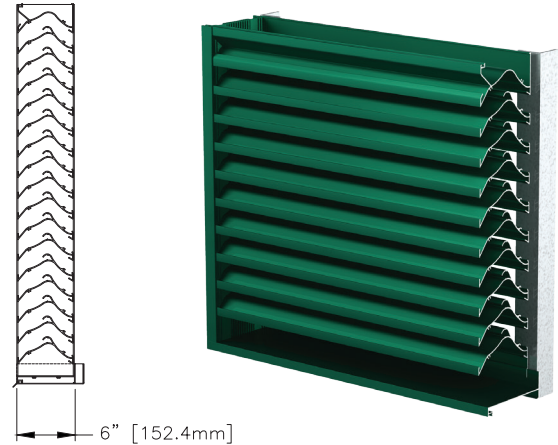
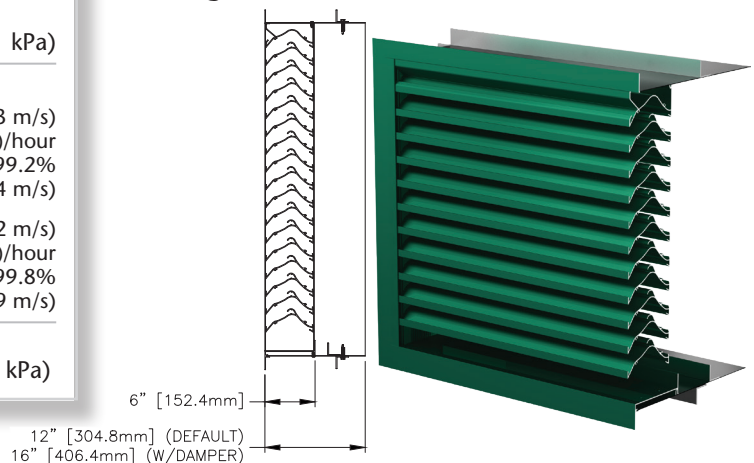


**MIAMI-DADE APPROVED
STORM CLASS™ LOUVER**

Visible Mullion Louver Type	SCH601MDE
Material	Extruded Aluminum (Alloy 6063-T5)
Exterior Louver Blade & Frame	0.081 in. (2.06 mm)
Interior Damper Blade & 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 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	9,475 cfm (4.47 m ³ /s)
Pressure Drop at Beginning Point of Water Penetration	0.32 in. H ₂ O (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	.99.2%
Core Ventilation Rate	676 fpm (3.4 m/s)
Exterior Wind Velocity	50 mph (22 m/s)
Rainfall Rate	.8 in. (200 mm)/hour
Effectiveness	.99.8%
Core Ventilation Rate	763 fpm (3.9 m/s)
Maximum Qualified Wind Design Load	+/- 150 PSF (7.2 kPa)

Channel Frame Installation (default)

Flange/Sleeve Installation (optional)

RECOMMENDED SPECIFICATION
GENERAL

Furnish and install where indicated on plans or described in schedules Storm Class™ Louver Type SCH601MDE as designed and manufactured by The Airolite Company LLC, Schofield, Wisconsin. Louvers shall be Florida Building Code approved for use in the High Velocity Hurricane Zone and Miami-Dade approved for installations where the enclosed space is designed to drain or otherwise accommodate water penetration (wet rooms). Louvers shall be furnished with bird screen, insect screen, sill pans, supports 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. For each type of product specified, submit free area, air performance, water penetration and wind-driven rain water penetration ratings determined in accordance with AMCA Standard 500-L and licensed under the AMCA Certified Ratings Program. Include Miami-Dade Notice of Acceptance to demonstrate compliance with applicable code. Provide samples of manufacturer's finish and color charts showing the full range of colors available.

PRODUCTS

Louvers shall be Florida Building Code and Miami-Dade Approved Storm Class™ Louver Type SCH601MDE. Louvers shall be 6-inches (152.4 mm) deep and assembled entirely from extruded aluminum components. Louver blades and frames shall be 0.081-inch (2 mm) thick aluminum,

alloy 6063-T5. Blades shall be horizontal, inverted V-type with center hook and spaced approximately 2-inches on center.

STRUCTURAL DESIGN CRITERIA

Louvers shall be certified to comply with the requirements of Miami-Dade protocols TAS-201, TAS-202 and TAS-203 and Miami-Dade approved for building envelope protection for single unit sizes up to 4-feet wide x 4-feet high. In addition, louvers shall pass AMCA 540 Test Method for Louvers Impacted by Wind Borne Debris (Basic Protection, Missile Level D and Enhanced Protection, Missile Level E). Louvers shall be tested for wind forces up to 150 psf. Louvers must be secured to a structural substrate in accordance with Dade County Product Approval Drawings. In addition, the structural substrate must be designed to accommodate the point loads transferred by the louvers when subject to the design wind loads. Structural reinforcing members along with any associated installation hardware is not provided by Airolite unless indicated otherwise by Airolite. Options and are not subject to structural analysis unless indicated otherwise by Airolite.

PERFORMANCE RATINGS

FREE AREA: 7.58 Square Feet (0.704 m²)

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 m³/s)

MAXIMUM STATIC PRESSURE
at Beginning Point of Water Penetration: 0.32 in. H₂O (0.081 kPa)

See page 2 for complete Wind-driven Rain Performance

LOUVER TYPE SCH601MDE PERFORMANCE RATINGS

FREE AREA CHART - in square feet

Louver Height Inches	Louver Width in Inches						
	12	18	24	30	36	42	48
7	0.07	0.12	0.17	0.21	0.26	0.31	0.36
12	0.23	0.38	0.53	0.67	0.82	0.97	1.12
18	0.47	0.77	1.07	1.36	1.66	1.96	2.26
24	0.71	1.16	1.61	2.05	2.50	2.95	3.40
30	0.95	1.55	2.15	2.74	3.34	3.94	4.54
36	1.11	1.81	2.50	3.20	3.90	4.60	5.30
42	1.35	2.19	3.04	3.89	4.74	5.59	6.44
48	1.58	2.58	3.58	4.58	5.58	6.58	7.58

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 SCH601MDE is above 1,250 fpm (6.35 m/s) free area velocity.**

WIND-DRIVEN RAIN PERFORMANCE

75 mm/h (3 in./hr) Rainfall & 13 m/s (29 mph) Wind Velocity						202 mm/h (8 in./hr) Rainfall & 22 m/s (50 mph) Wind Velocity					
Free Area Velocity		Ventilation Air Core Velocity		Water Penetration		Free Area Velocity		Ventilation Air Core Velocity		Water Penetration	
(fpm)	(m/s)	(fpm)	(m/s)	Class	Effective	(fpm)	(m/s)	(fpm)	(m/s)	Class	Effective
0	0	0	0			0	0	0	0		
179	0.9	98	0.5			179	0.9	98	1.0		
359	1.8	197	1.0			359	1.8	197	1.5		
538	2.7	295	1.5			538	2.7	295	2.0		
718	3.6	394	2.0			718	3.6	394	2.5		
897	4.6	492	2.5			864	4.4	474	2.4	99.5	A
1077	5.5	591	3.0			1033	5.2	567	2.9	99.6	A
1217	6.2	668	3.4	A	100.0	1232	6.3	676	3.4	99.2	A
1391	7.1	763	3.9	A	99.8	1394	7.1	765	3.9	98.5	B
1527	7.8	838	4.3	B	98.1	1567	8.0	860	4.4	95.6	B
1801	9.1	988	5.0	B	95.4	1744	8.9	957	4.9	88.7	C

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



The Aiolite Company, LLC certifies that Louver Type SCH601MDE (channel and flange/sleeve frame) 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.



IMPACT RESISTANT LOUVER
Enhanced Protection Level E

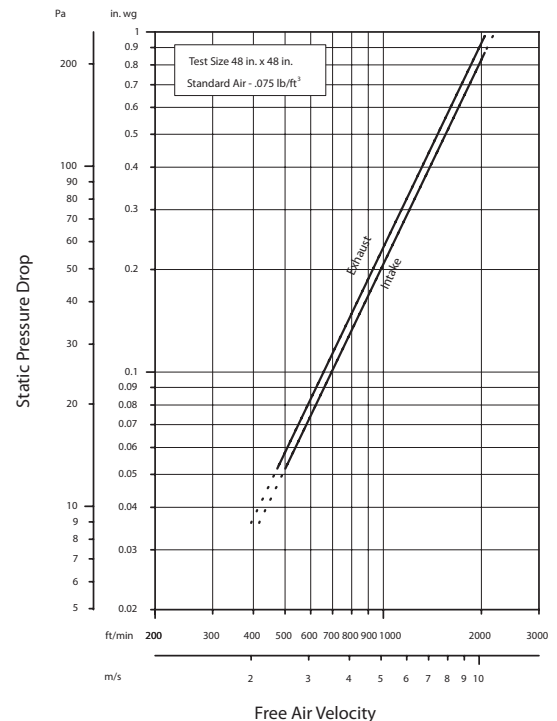
See www.AMCA.org for all certified or listed products

This label does not signify AMCA airflow performance certification.

The Aiolite Company, LLC certifies that the SCH601MDE louvers (channel and flange/sleeve frame) shown herein are 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.

AIRFLOW RESISTANCE

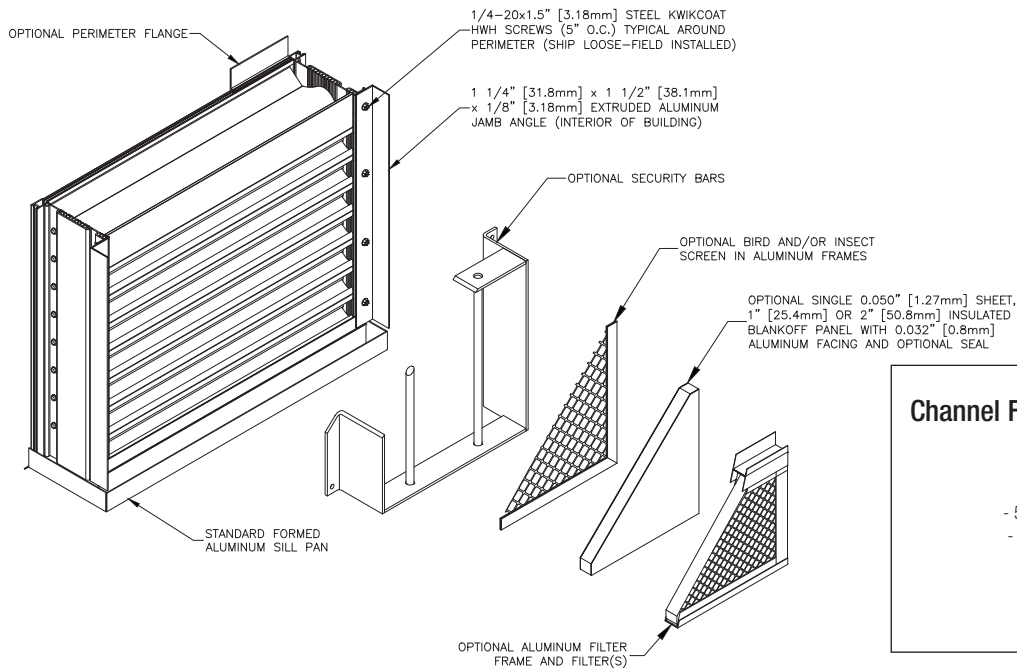
(Standard Air - .075 lb./ft.³)



Louver Type SCH601MDE 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. (Test Figure 5.5-6.5)

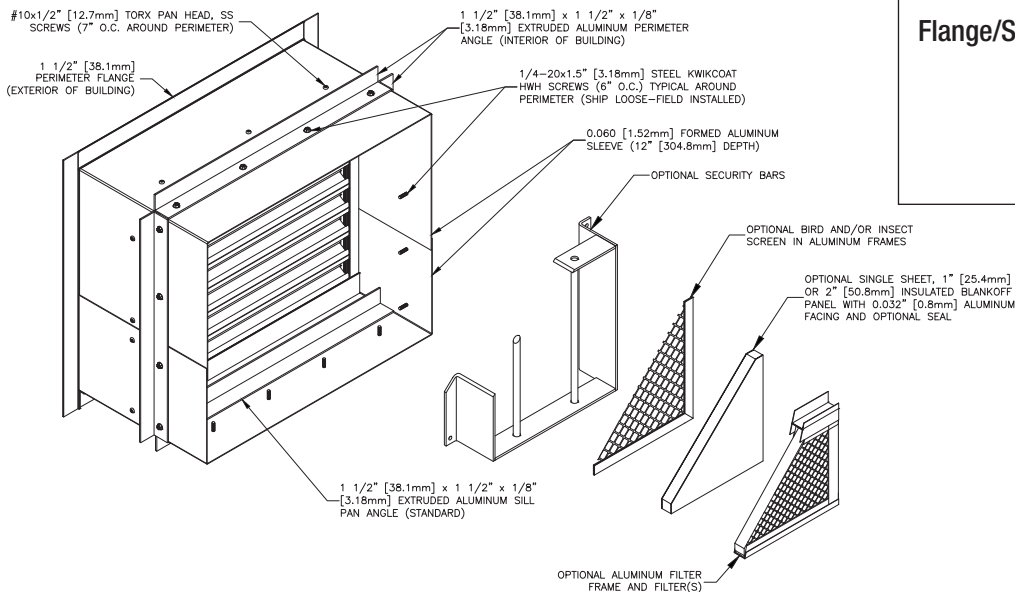
* AMCA licensed performance data shown herein pertains only to the louver and does not include effects of the factory attached VCD-40 damper.

LOUVER TYPE SCH601MDE METHOD OF INSTALLATION & ACCESSORY OPTIONS



Channel Frame Installation (default)

- **Min. Structure Depth**
 - 6.8 in. (wood substrate)
 - 5.9 in. (steel substrate)
 - 5.8 in. (aluminum substrate)
 - 6.3 in. (concrete substrate)
 - 7.3 in. (CMU substrate)
- **Max. Structure Depth**
 - unlimited



Flange/Sleeve Installation (optional)

- **Min. Structure Depth**
 - 6.0 in.
- **Max. Structure Depth**
 - 10.5 in. (12 in. sleeve)
 - 14.5 in. (16 in. sleeve)

Building Condition/Substrate Limitations

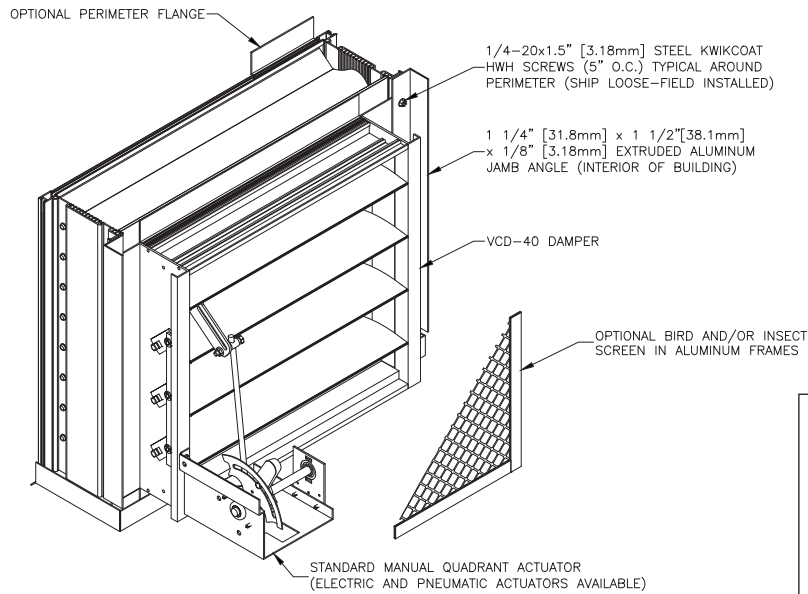
Channel Installation

- All steel substrate should be min. 16 Ga. FY= 33 KSI
- All concrete substrate shall be min. 2000 PSI
- All concrete masonry shall be ASTM C90, Type II, grout-filled
- All wood substrate shall be G= 0.42 density or better
- All aluminum substrate shall be min 0.125 in. thick FY=16 KSI

Flange/Sleeve Installation

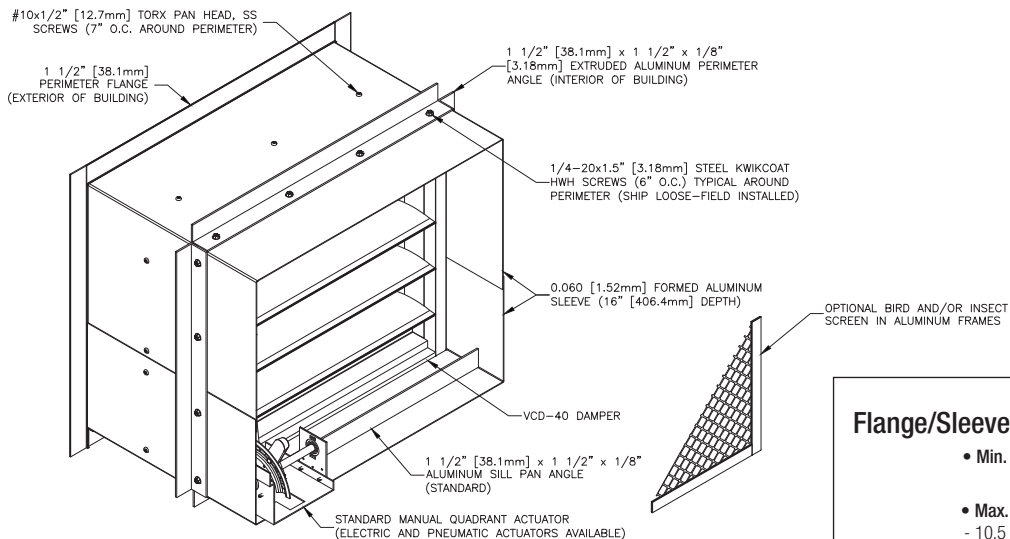
- Any substrate acceptable that is capable of withstanding imposed loads.

LOUVER TYPE SCH601MDE with VCD-40 METHOD OF INSTALLATION & ACCESSORY OPTIONS



Channel Frame Installation (default)

- **Min. Structure Depth**
 - 6.8 in. (wood substrate)
 - 5.9 in. (steel substrate)
 - 5.8 in. (aluminum substrate)
 - 6.3 in. (concrete substrate)
 - 7.3 in. (CMU substrate)
- **Max. Structure Depth**
 - unlimited



Flange/Sleeve Installation (optional)

- **Min. Structure Depth**
 - 6.0 in.
- **Max. Structure Depth**
 - 10.5 in. (12 in. sleeve)
 - 14.5 in. (16 in. sleeve)

For additional information reference the Installation, Operation and Maintenance (IOM) manuals.

* Damper is supplied mill finish.



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