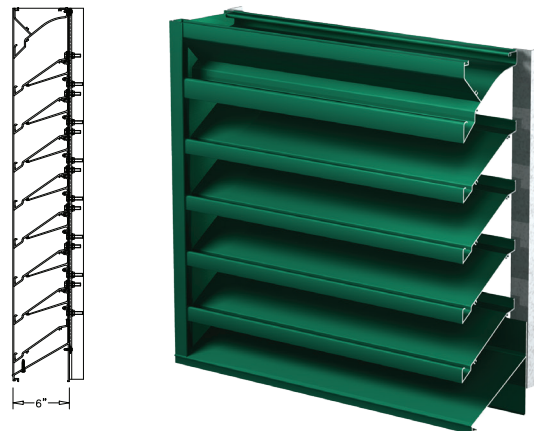


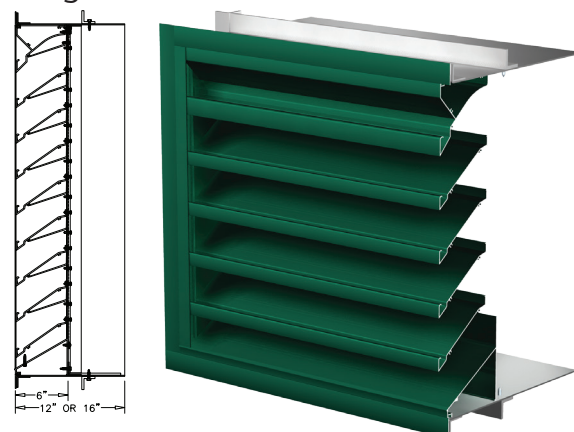
MIAMI-DADE APPROVED DRAINABLE LOUVER

Visible Mullion Louver Type	K6746MD
Material	Extruded Aluminum (Alloy 6063-T5)
Stationary Blade	0.081 in. (2.06 mm)
Frame	0.125 in. (3.18 mm)
Louver Depth	6 in. (152.4 mm)
Free Area – 4 ft. x 4 ft. Unit	9.41 sq. ft. (0.88 m²)
Percent Free Area	58.8%
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	11,763 cfm (5.55 m³/s)
Pressure Drop at Beginning Point of Water Penetration	0.23 in. H ₂ O (0.058 kPa)
Maximum Qualified Wind Design Load	+/- 150 PSF (7.2 kPa)

Channel Frame Installation



Flange/Sleeve Installation



RECOMMENDED SPECIFICATION

GENERAL

Furnish and install where indicated on plans or described in schedules drainable Louver Type K6746MD 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, 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. For each type of product specified, submit free area, air performance, and water penetration ratings determined in accordance with AMCA Standard 500-L and licensed under the AMCA Certified Ratings Program, as well as tested in accordance with AMCA 540 Test Method for Louvers Impacted by Wind Borne Debris and (with the optional VCD-40 damper in the fully closed position) pass AMCA 550 Test Method for High Velocity Wind Driven Rain Resistant Louvers. 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 drainable Louver Type K6746MD with visible mullions. Louvers shall also be Florida Building Code and Miami-Dade Approved.

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 drainable and spaced approximately 4-inches on center.

STRUCTURAL DESIGN CRITERIA

Louvers shall be certified to comply with the requirement 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 6-feet wide x 12-feet high, for wet room protection. 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:	9.41 Square Feet (0.88 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:	11,763 cfm (5.55 m³/s)
MAXIMUM STATIC PRESSURE	
at Beginning Point of Water Penetration:	0.23 in. H ₂ O (0.058 kPa)

See page 2 for complete performance data

LOUVER TYPE K6746MD 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
12	0.19	0.32	0.44	0.57	0.69	0.82	0.94	1.04	1.16	1.29	1.41
18	0.48	0.80	1.11	1.42	1.74	2.05	2.36	2.60	2.91	3.22	3.54
24	0.77	1.27	1.77	2.27	2.77	3.27	3.76	4.14	4.64	5.14	5.64
30	1.05	1.73	2.41	3.09	3.77	4.45	5.13	5.64	6.32	7.01	7.69
36	1.35	2.22	3.09	3.97	4.84	5.71	6.59	7.24	8.11	8.99	9.86
42	1.62	2.67	3.71	4.76	5.81	6.86	7.91	8.69	9.74	10.79	11.84
48	1.92	3.17	4.42	5.67	6.91	8.16	9.41	10.34	11.59	12.84	14.09
54	2.18	3.60	5.02	6.44	7.85	9.27	10.69	11.75	13.17	14.58	16.00
60	2.49	4.10	5.71	7.32	8.94	10.55	12.16	13.37	14.98	16.59	18.21
66	2.75	4.53	6.32	8.10	9.88	11.67	13.45	14.79	16.57	18.36	20.14
72	3.05	5.03	7.01	8.99	10.97	12.95	14.93	16.41	18.39	20.37	22.35
78	3.31	5.46	7.61	9.76	11.91	14.06	16.21	17.83	19.98	22.13	24.28
84	3.62	5.96	8.31	10.66	13.00	15.35	17.69	19.45	21.80	24.15	26.49
90	3.88	6.40	8.91	11.43	13.95	16.46	18.98	20.87	23.38	25.90	28.42
96	4.18	6.90	9.61	12.32	15.04	17.75	20.46	22.50	25.21	27.92	30.64
102	4.44	7.33	10.21	13.09	15.98	18.86	21.74	23.90	26.79	29.67	32.55
108	4.75	7.83	10.91	13.99	17.07	20.15	23.23	25.54	28.62	31.70	34.78
114	5.01	8.26	11.51	14.76	18.01	21.26	24.51	26.95	30.20	33.45	36.70
120	5.31	8.76	12.21	15.66	19.10	22.55	26.00	28.58	32.03	35.48	38.92
132	5.89	9.70	13.52	17.34	21.15	24.79	28.79	31.65	35.47	39.29	43.11
144	6.45	10.64	14.82	19.01	23.19	27.38	31.56	34.70	38.89	43.07	47.26



The Airolite Company, LLC certifies that Louver Type K6746MD 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 and Air Performance.



IMPACT RESISTANT LOUVER
Basic Protection Level D

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

This label does not signify AMCA airflow performance certification.

With 0.081 in. blade and frame material.



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.

With 0.125 in. blade and frame material.



HIGH VELOCITY RAIN RESISTANT WITH BLADES FULLY CLOSED AND IMPACT RESISTANT LOUVER
Basic Protection Level D

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

This label does not signify AMCA airflow performance certification.

With 0.081 in. blade and frame material and with factory attached VCD-40 damper in the fully closed position.



HIGH VELOCITY RAIN RESISTANT WITH BLADES FULLY CLOSED AND 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.

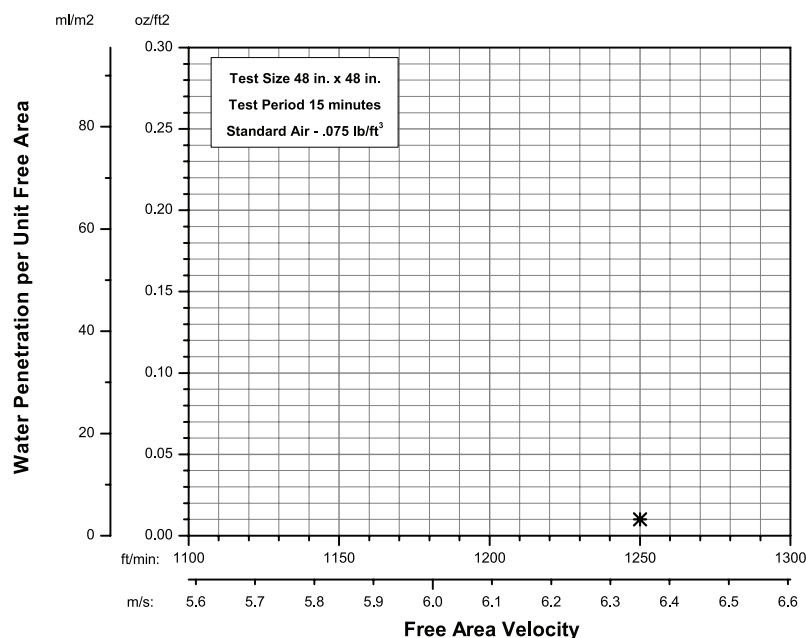
With 0.125 in. blade and frame material and with factory attached VCD-40 damper in the fully closed position.

The Airolite Company, LLC certifies that Louver Type K6746MD 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 and High Velocity Wind Driven Rain Resistant Louvers (with the optional VCD-40 damper in the fully closed position).

LOUVER TYPE K6746MD PERFORMANCE RATINGS

WATER PENETRATION

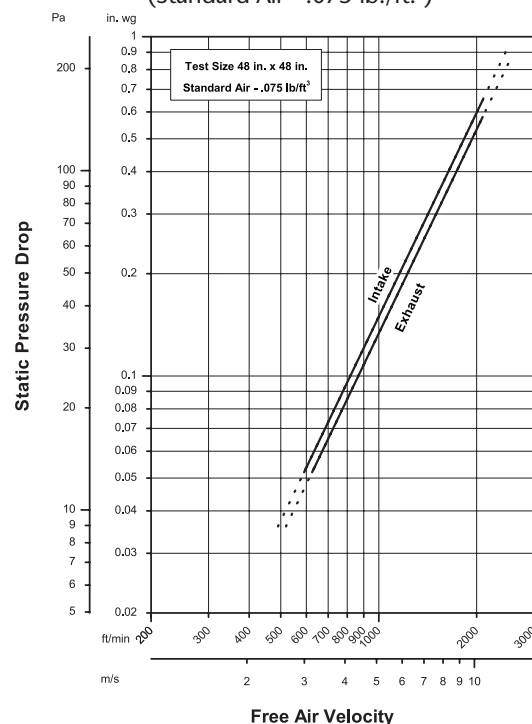
(Standard Air - .075 lb./ft.³; Test Size - 48 in. x 48 in.; Test Duration - 15 min.)



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 K6746MD is above 1250 fpm (6.35 m/s) free area velocity.**

AIRFLOW RESISTANCE

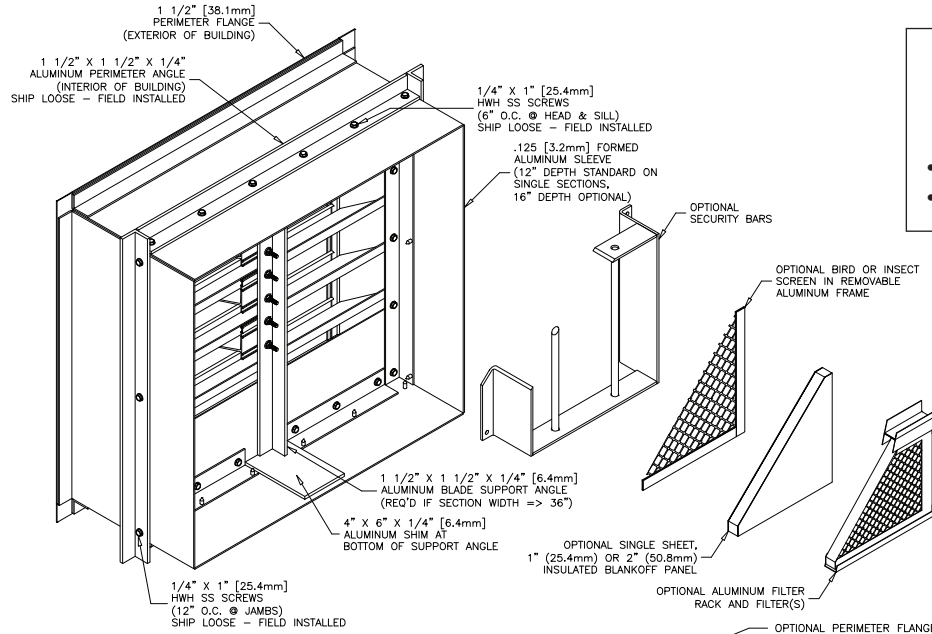
(Standard Air - .075 lb./ft.³)



Louver Type K6746MD 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)

LOUVER TYPE K6746MD

METHOD OF INSTALLATION & ACCESSORY OPTIONS

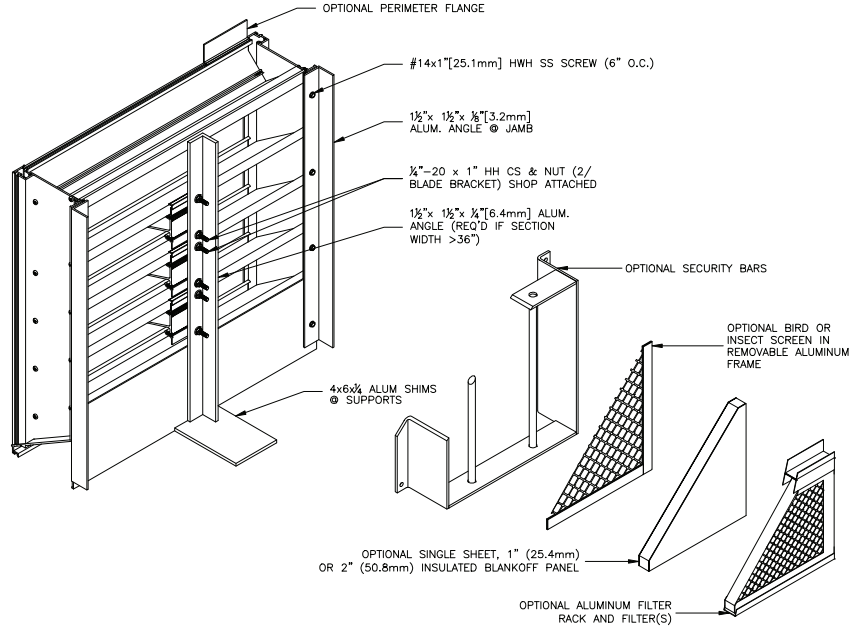


Single Section Wide Flange/Sleeve Installation

- Min. structure depth 4 in.
- Max. structure depth 10.5 in. (12 in. sleeve)
- Max. structure depth 14.5 in. (16 in. sleeve)

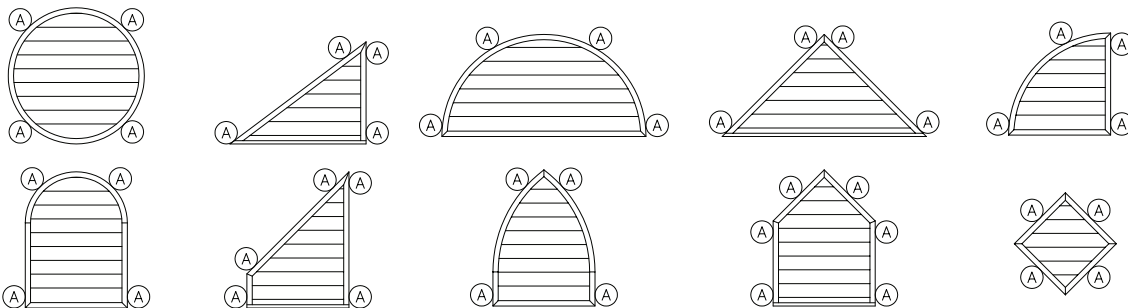
Single Section Wide Channel Frame Installation

- Reference the Installation, Operations and Maintenance Instructions (IOM)



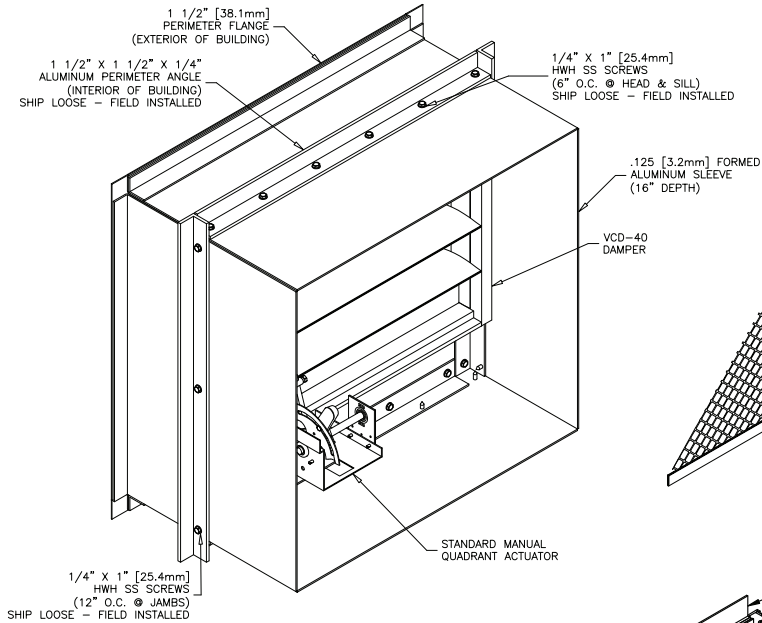
INSTALLATION DETAILS

- Only available without the damper.
- Only available in single section configurations.
- Anodize finish is not available.
- AMCA licensed performance data is void.



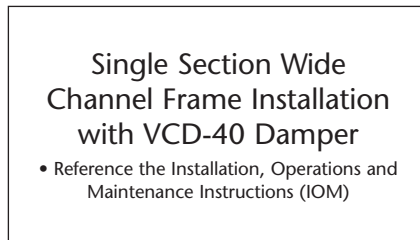
Ⓐ Anchor points

LOUVER TYPE K6746MD with VCD-40 METHOD OF INSTALLATION & ACCESSORY OPTIONS



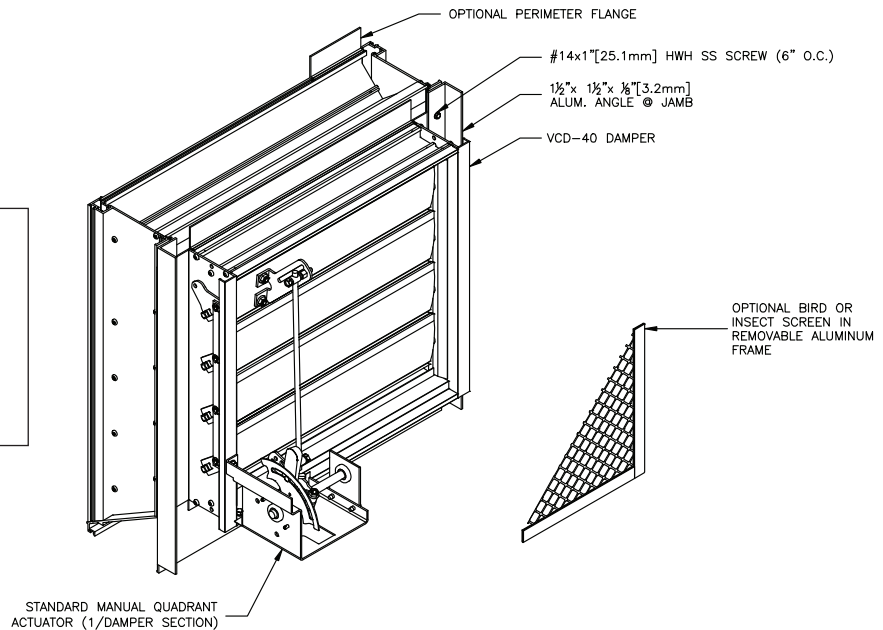
Single Section Wide Flange/Sleeve Installation with VCD-40 Damper

- Min. structure depth 4 in.
- Max. structure depth 14.5 in.



Single Section Wide Channel Frame Installation with VCD-40 Damper

- Reference the Installation, Operations and Maintenance Instructions (IOM)



Building Condition/Substrate Limitations

Flange/Sleeve Installation

- All wood substrate shall be G= 0.55 density or better
- All metal stud substrate should be min. 16 Ga. FY= 50 KSI
- All structural steel substrate shall be min. 0.25 in. thick FY= 36 KSI
- All concrete substrate shall be min. 3000 PSI
- Concrete masonry shall be ASTM C90, Type II, 2000 PSI, grout-filled

Channel Installation

- All metal stud substrate should be min. 10 Ga. FY= 36 KSI
- All structural steel substrate shall be min. 0.125 in. thick FY= 36 KSI
- All concrete substrate shall be min. 4000 PSI (2000 PSI allowed with SDR)
- Concrete masonry shall be ASTM C90, Type II, 2000 PSI, grout-filled

*For additional information, including multiple section installation details,
reference the Installation, Operation and Maintenance (IOM) manuals.*

** Damper is supplied mill finish.*



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