



LOUVER TYPE K605MD

Miami-Dade NOA No.: 19-0205.07, EXP. 8/5/2024
Florida Product Approval No.: 12942.1
TDI Approval No.: LVR-06

FLORIDA BUILDING CODE & MIAMI-DADE APPROVED SIGHTPROOF LOUVER

Visible Mullion Louver Type K605MD

Blade/Jamb Material .. Extruded Aluminum (Alloy 6005-T5)

Head/Sill Material Extruded Aluminum (Alloy 6005-T5)

Stationary Blade 0.081 in. (2.06 mm)

Frame 0.081 in. (2.06 mm)

Louver Depth 5 in. (127.0 mm)

Free Area – 4 ft. x 4 ft. Unit 8.19 sq. ft. (0.76 m²)

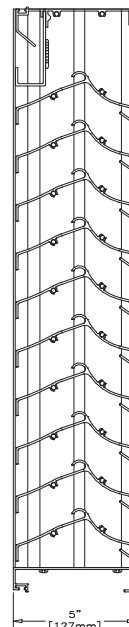
Percent Free Area 51.2%

**Free Area Velocity at Beginning
Point of Water Penetration –
0.01 oz H₂O/sq. ft. Free Area** 1,036 fpm (5.26 m/s)

**Air Volume Flow Rate at
Beginning Point of Water
Penetration – 4 ft. x 4 ft. Unit** 8,657 cfm (4.09 m³/s)

**Pressure Drop at Beginning
Point of Water Penetration** 0.26 in. H₂O (0.06 kPa)

**Maximum Qualified
Wind Design Load** +/- 110 PSF (5.3 kPa)



RECOMMENDED SPECIFICATION

GENERAL

Furnish and install where indicated on plans or described in schedules Louver Type K605MD as designed and manufactured by The Airlite Company LLC, Schofield, Wisconsin. 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. Miami-Dade Approved Product for use in open structures or installations where the enclosed space is designed to accommodate water infiltration (wet rooms).

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 and water penetration ratings determined in accordance with AMCA Standard 500-L 99 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.

PRODUCTS

Louvers shall be sightproof and drainable Louver Type K605MD. Louvers shall be 5-inches (127 mm) deep and assembled entirely from extruded aluminum components. Blades and jambs shall be 0.081-inch (2 mm) thick aluminum, alloy 6005-T5 and the head and sill shall be 0.081-inch (2 mm) thick aluminum, alloy 6005-T5. Blades shall be horizontal, inverted-V type with a center hook and spaced 2-inches (50.8 mm) on center.

STRUCTURAL DESIGN CRITERIA

Louvers shall be tested in accordance with Miami-Dade protocols TAS-201, TAS-202 and TAS-203 and approved for open structure building envelope protection for single unit sizes up to 72-inches wide x 144-inches high or 144-inches wide x 72-inches high for wet rooms. Louvers shall be tested for wind forces up to 110 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 Airlite unless indicated otherwise by Airlite. Options and are not subject to structural analysis unless indicated otherwise by Airlite.

PERFORMANCE RATINGS

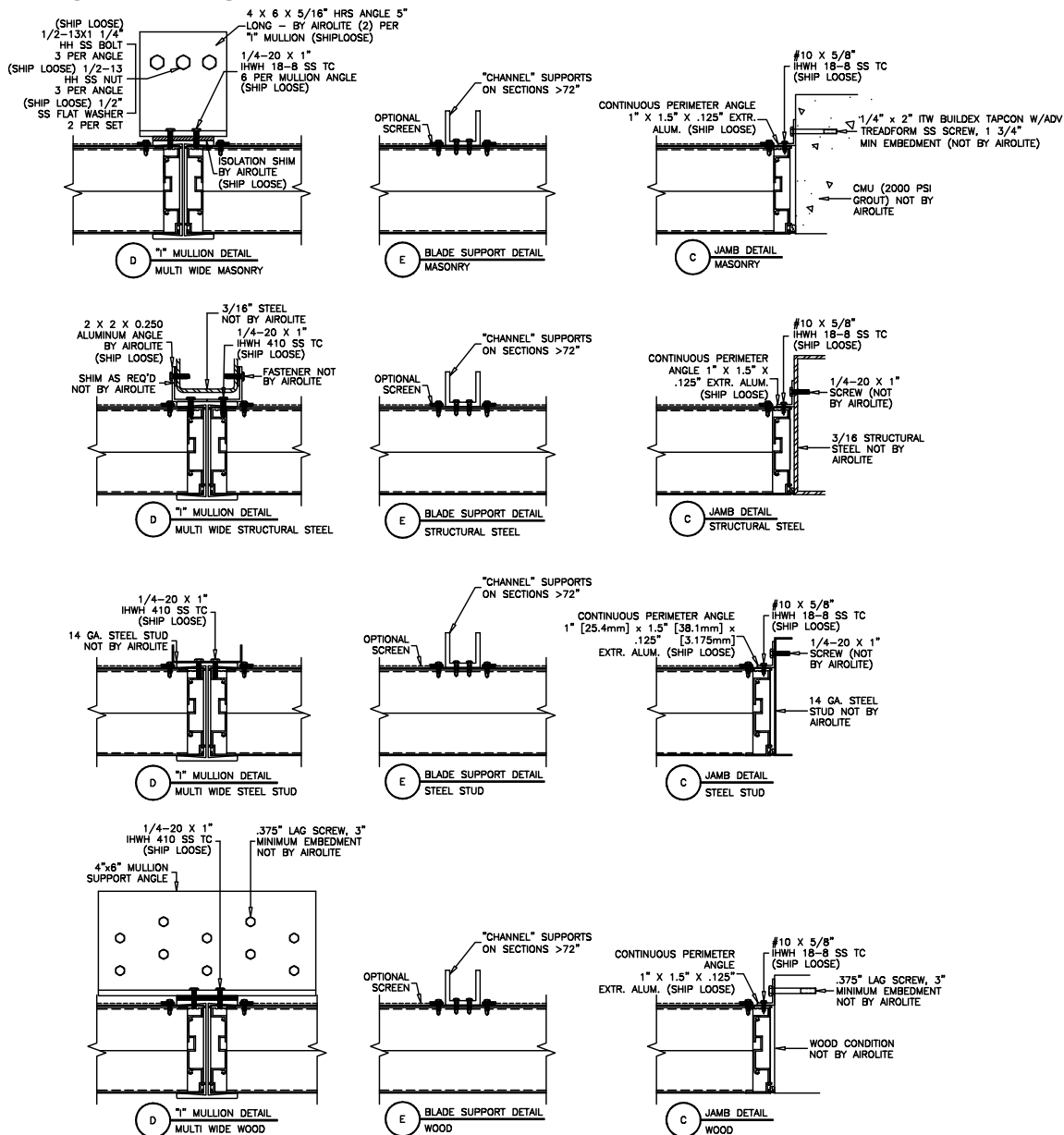
FREE AREA:	8.19 Square Feet (0.76 m ²)
MINIMUM FREE AREA VELOCITY at Beginning Point of Water Penetration:	1,036 fpm (5.26 m/s)
MINIMUM AIR VOLUME FLOW RATE at Beginning Point of Water Penetration:	8,657 cfm (4.09 m ³ /s)
MAXIMUM STATIC PRESSURE at Beginning Point of Water Penetration:	0.26 in. H ₂ O (0.06 kPa)

See page 10 for complete finish options

LOUVER TYPE K605MD PRODUCT DESCRIPTION & DETAILS

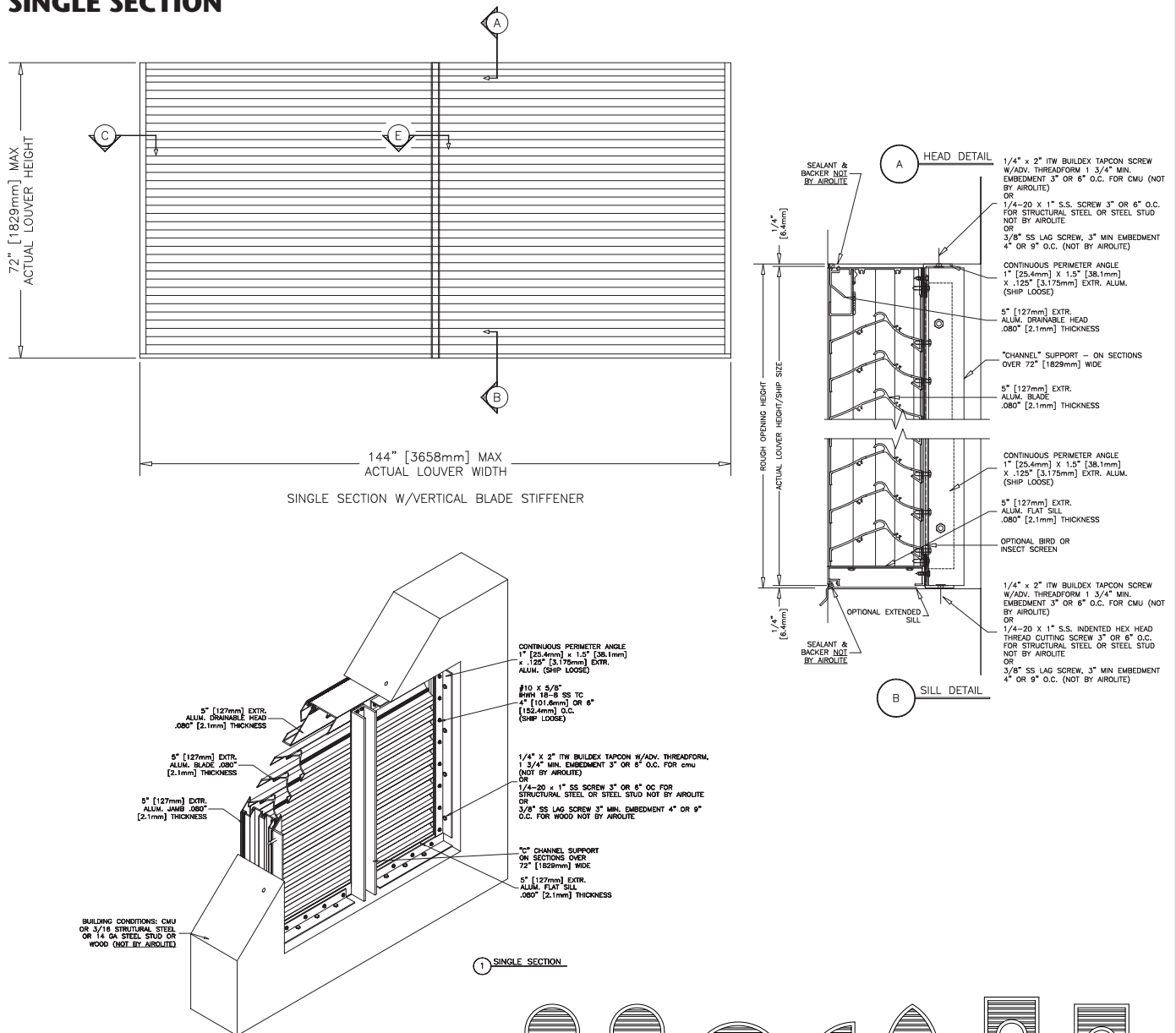
AIROLITE LOUVER TYPE K605MD is a 5-inch (127 mm) deep, extruded aluminum, sightproof and drainable head louver that serves a number of design requirements. Louver Type K605MD is 100% sightproof when viewed from any orientation or perspective, yields high free area, high air volume flow rates at moderate static pressure differential and provides moderate protection against water infiltration. This 5-inch (127 mm) deep unit incorporates blades spaced 2-inches (50.4 mm) on center and affords a striking, uniform appearance and symmetry. In addition to its versatility in architectural applications, Louver Type K605MD is approved by the Miami-Dade Product Control Division of the Office of Code Compliance for compliance with Florida Building Code Protocols TAS-201, Large and Small Missile Impact; TAS-202, Criteria for Testing Impact and Non-Impact Resistant Building Envelope Components Using Static Uniform Air Pressure, and, TAS-203, Criteria for Testing Products Subject to Cyclic Wind Pressure. Louver Type K605MD is a highly effective louver with AMCA Licensed air performance and water penetration ratings, as well as tested in accordance with AMCA 540 Test Method for Louver Impacted by Wind Borne Debris that enable designers to select and specify this product with confidence. Please contact your local Airlite representative or the factory for assistance with the layout and design of support systems when required.

INSTALLATION DETAILS



LOUVER TYPE K605MD PRODUCT DETAILS

SINGLE SECTION



Minimum Section Size Rough Opening:

8 in. (20 cm) W x 7 in. (18 cm) H

Maximum Section Size Rough Opening:

144 1/2 in. (367 cm) W x 144 1/2 in. (367 cm) H

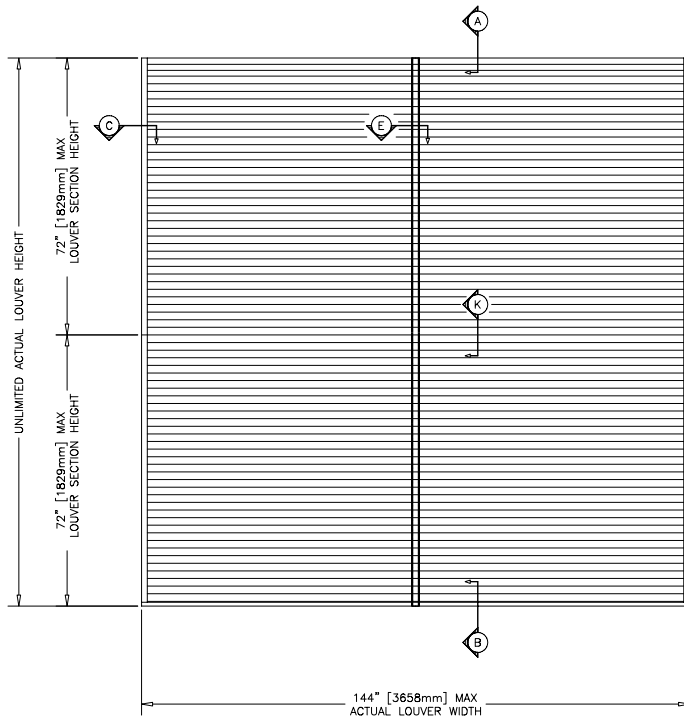
*one dimension cannot exceed 72 1/2 in.

NOTES:

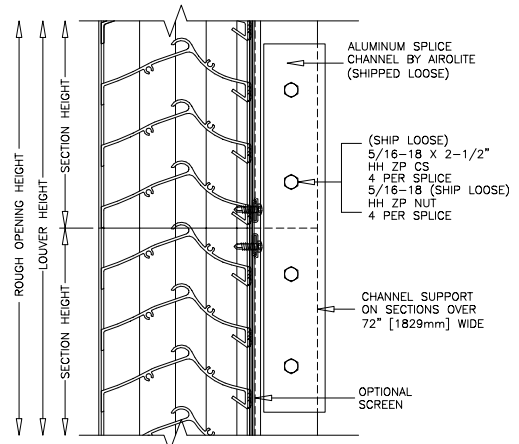
1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN AND HAVE CONSTRUCTION AS DESCRIBED IN THIS PACKET.
2. ALL SHAPE LOUVERS ARE TO HAVE THE SAME WIDTH, HEIGHT, AND PRESSURE RESTRICTIONS AS RECTANGULAR LOUVERS, AND MAY BE SPICED/STACKED VERTICALLY AND HORIZONTALLY (MULLED UNITS) IN THE SAME MANNER AS RECTANGULAR LOUVERS.
3. IF THE SHAPE LOUVER SECTION WIDTH EXCEEDS 72", A BLADE SUPPORT IS REQUIRED.
4. A MULLION REQUIRED FOR SHAPE LOUVERS ONLY IF BOTH OF THE FOLLOWING ARE TRUE: OVERALL UNIT WIDTH IS >72", AND SECTION HEIGHT IS >72".
5. FOLLOW THE SAME GUIDELINES AS NON-SHAPED UNITS FOR FASTENING OF SHAPE UNITS TO THE BUILDING CONDITION.

LOUVER TYPE K605MD PRODUCT DETAILS

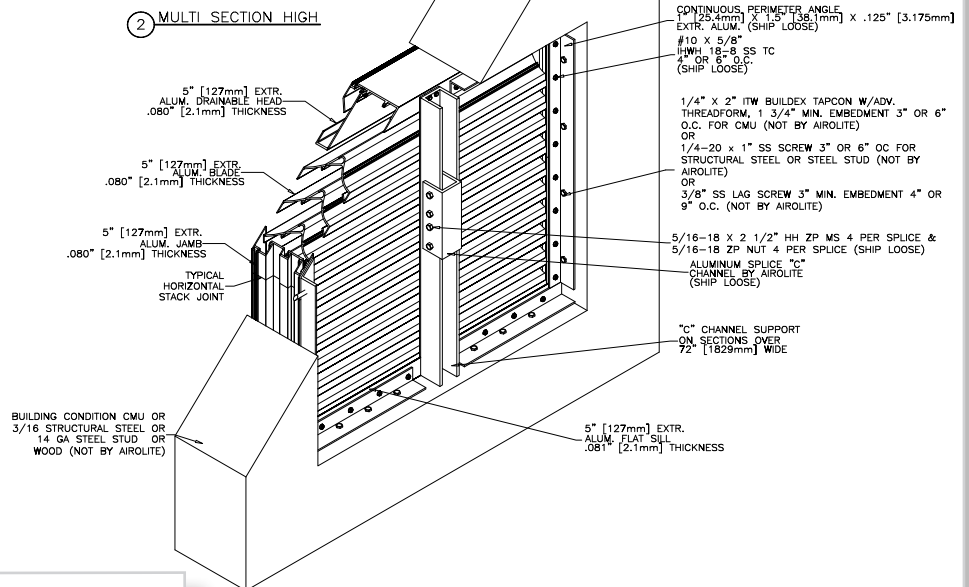
MULTI-SECTIONS HIGH



SINGLE SECTION WIDE X MULTIPLE SECTIONS
HIGH W/ VERTICAL BLADE STIFFENERS
AND HORIZONTAL CONCEALED JOINT.



K CONCEALED JOINT DETAIL
MULTI SECTIONS HIGH
SINGLE SECTION WIDE



Minimum Section Size Rough Opening:

8 in. (20 cm) W x 7 in. (18 cm) H

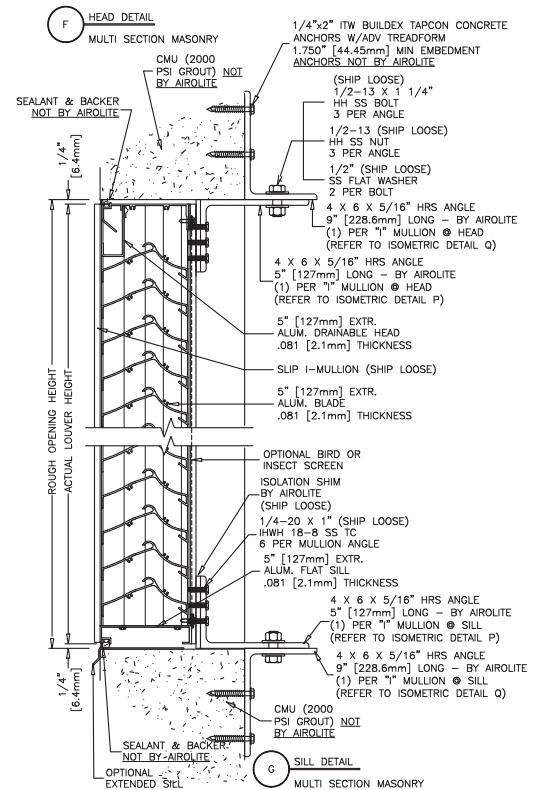
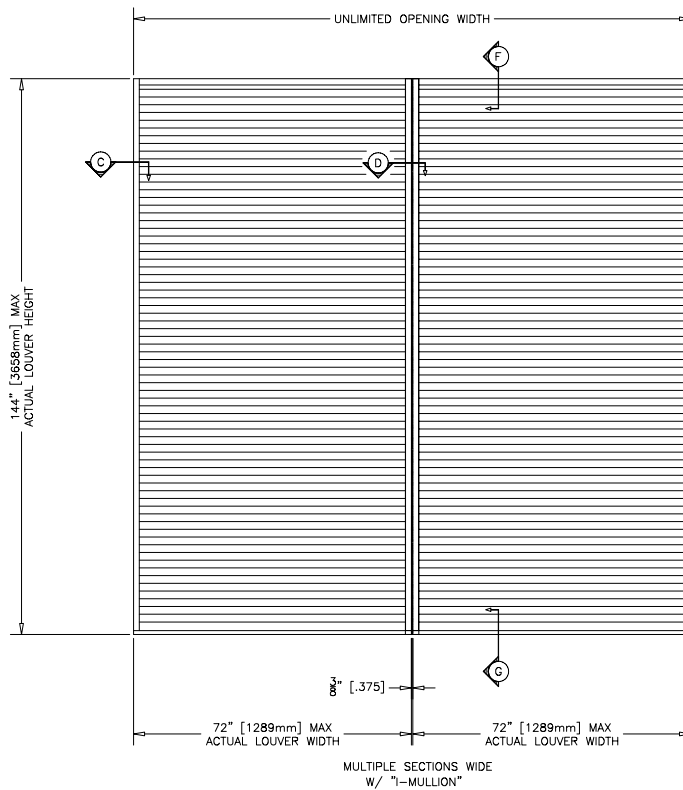
Maximum Section Size Rough Opening:

144 1/2 in. (367 cm) W x 144 1/2 in. (367 cm) H

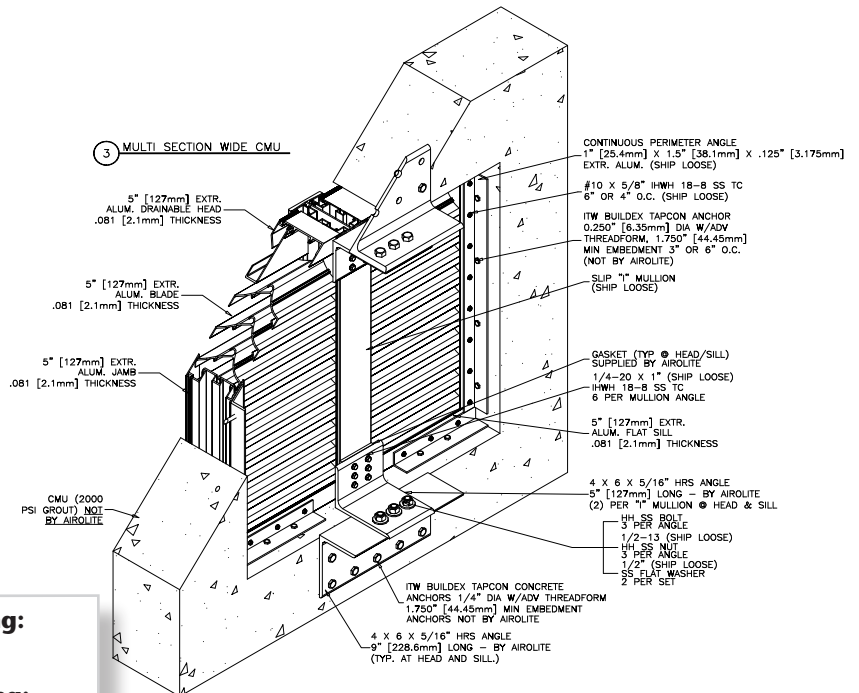
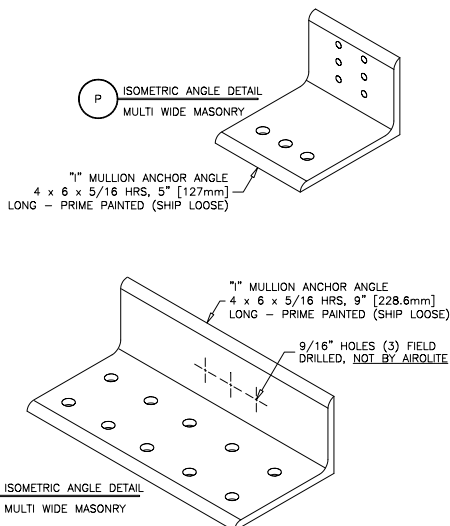
*one dimension cannot exceed 72 1/2 in.

LOUVER TYPE K605MD PRODUCT DETAILS

MULTI-SECTIONS WIDE CMU



*CONTINUOUS 1.00 X 1.50 PERIMETER ANGLE NOT SHOWN FOR CLARITY- REF TO DETAIL 1



Minimum Section Size Rough Opening:

8 in. (20 cm) W x 7 in. (18 cm) H

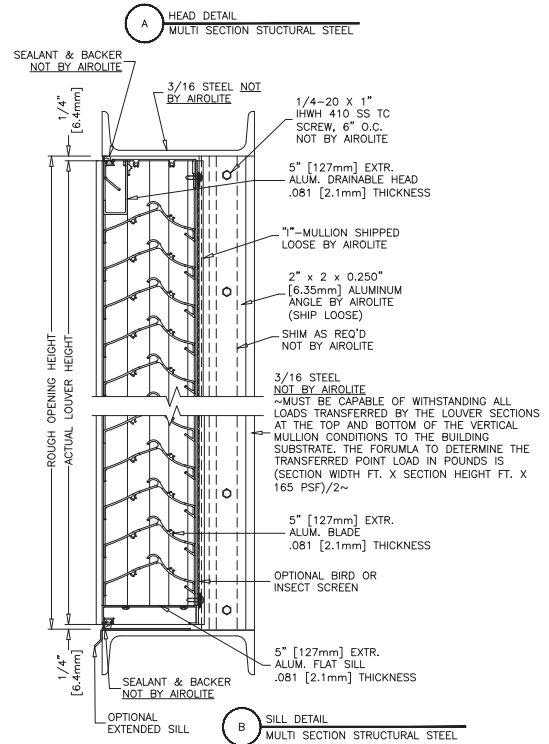
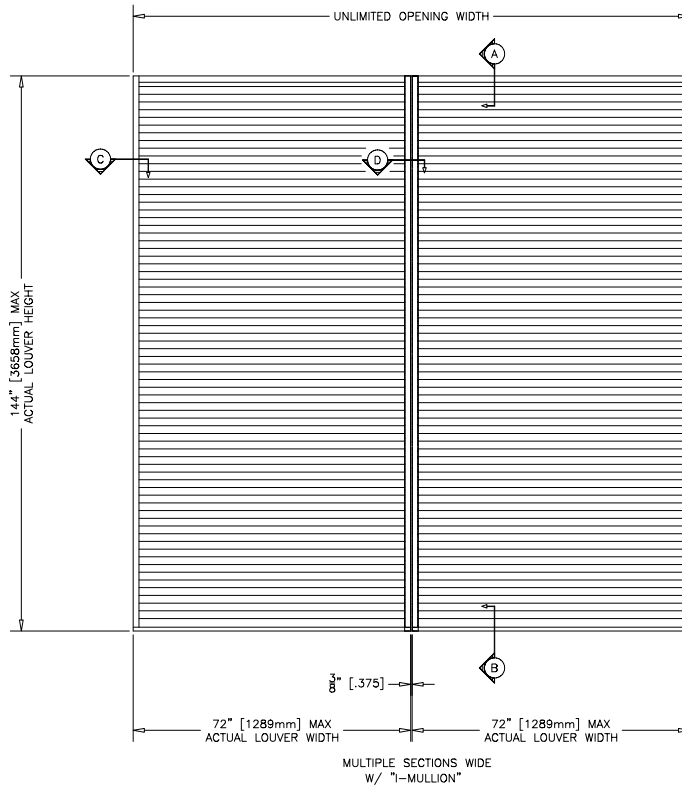
Maximum Section Size Rough Opening:

144 1/2 in. (367 cm) W x 144 1/2 in. (367 cm) H

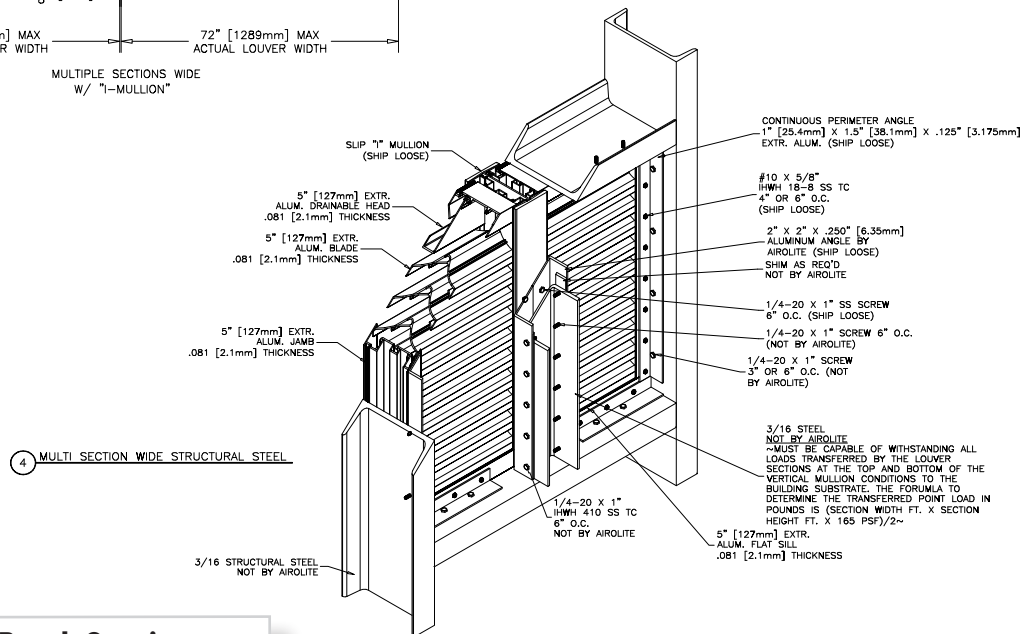
*one dimension cannot exceed 72 1/2 in.

LOUVER TYPE K605MD PRODUCT DETAILS

MULTI-SECTIONS WIDE STRUCTURAL STEEL



*CONTINUOUS 1.00 X 1.50 PERIMETER ANGLE NOT SHOWN FOR CLARITY- REF TO DETAIL 4



Minimum Section Size Rough Opening:

8 in. (20 cm) W x 7 in. (18 cm) H

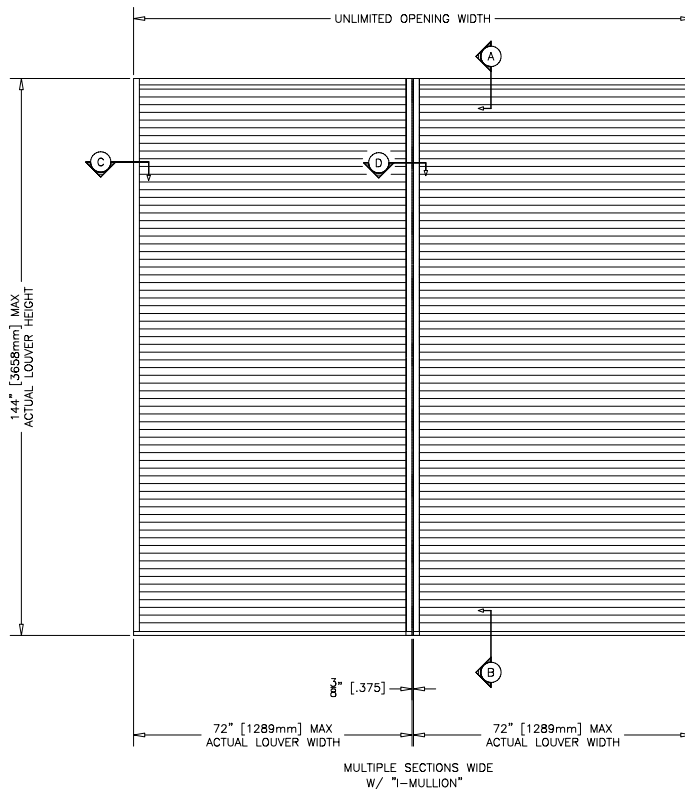
Maximum Section Size Rough Opening:

144 1/2 in. (367 cm) W x 144 1/2 in. (367 cm) H

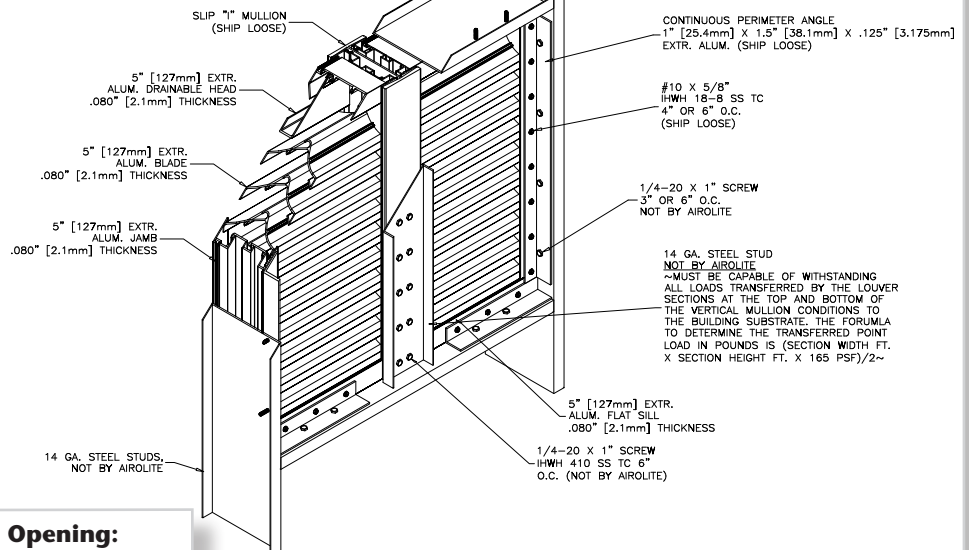
*one dimension cannot exceed 72 1/2 in.

LOUVER TYPE K605MD PRODUCT DETAILS

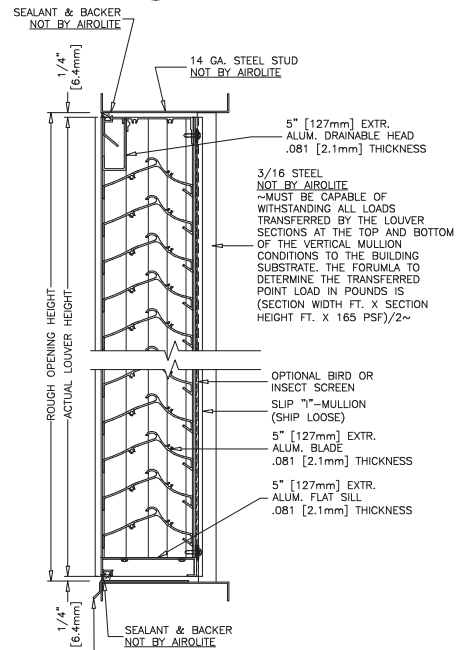
MULTI-SECTIONS WIDE STEEL STUD



5 MULTI SECTION WIDE STEEL STUD



A HEAD DETAIL MULTI SECTION STEEL STUD



B SILL DETAIL MULTI SECTION STEEL STUD

*CONTINUOUS 1.00 X 1.50 PERIMETER ANGLE NOT SHOWN FOR CLARITY- REF TO DETAIL 5

Minimum Section Size Rough Opening:

8 in. (20 cm) W x 7 in. (18 cm) H

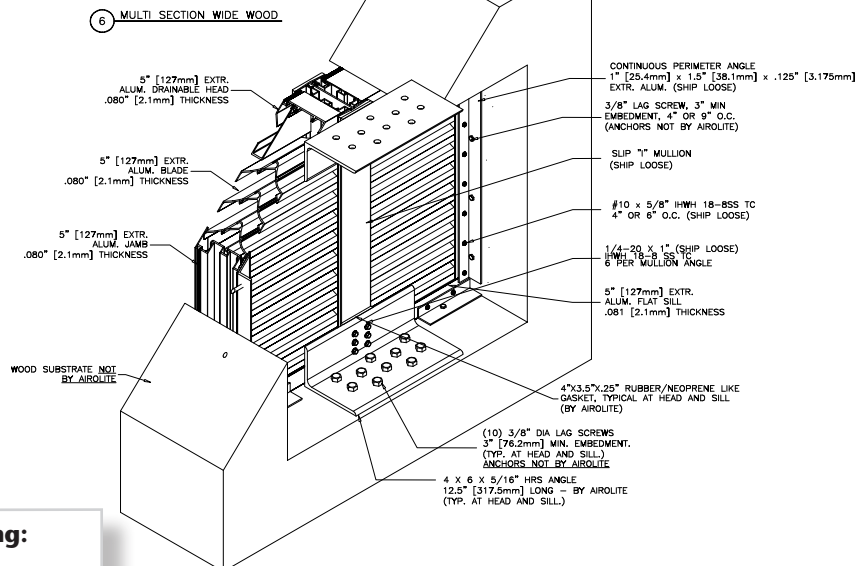
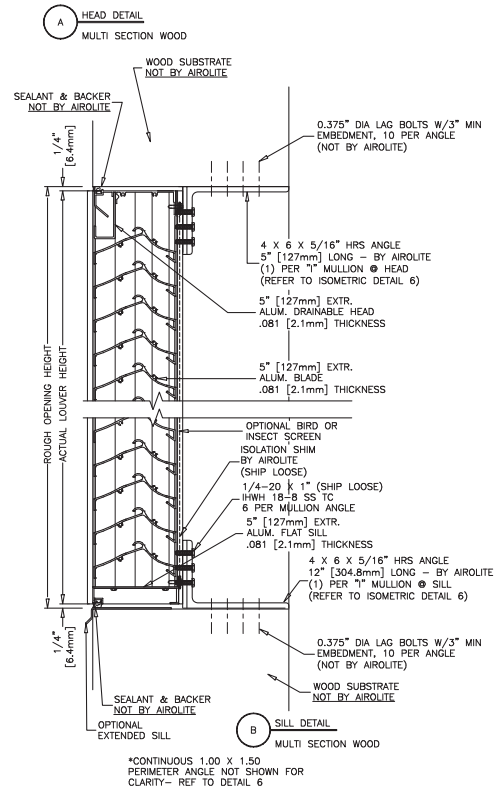
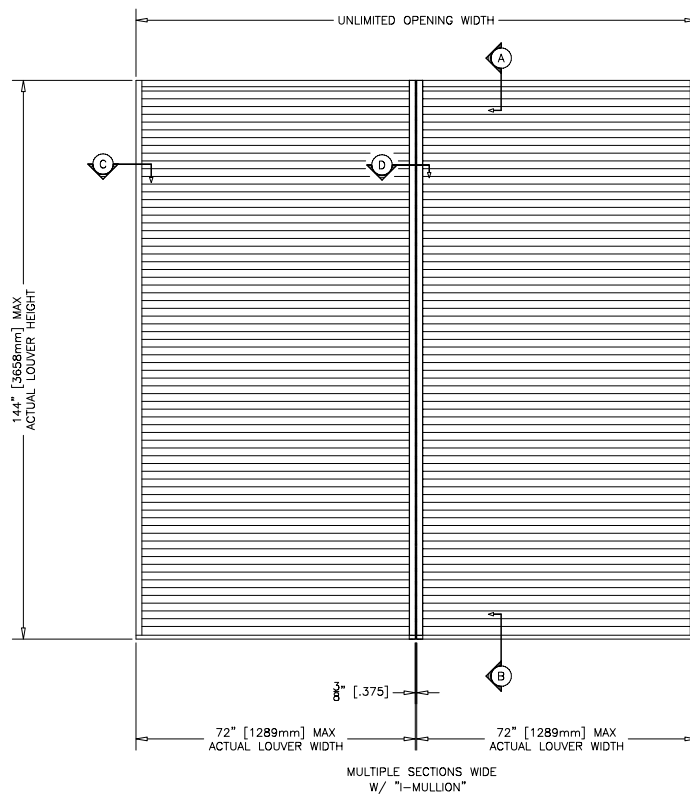
Maximum Section Size Rough Opening:

144 1/2 in. (367 cm) W x 144 1/2 in. (367 cm) H

*one dimension cannot exceed 72 1/2 in.

LOUVER TYPE K605MD PRODUCT DETAILS

MULTI-SECTIONS WIDE WOOD



Minimum Section Size Rough Opening:

8 in. (20 cm) W x 7 in. (18 cm) H

Maximum Section Size Rough Opening:

144 1/2 in. (367 cm) W x 144 1/2 in. (367 cm) H

*one dimension cannot exceed 72 1/2 in.

LOUVER TYPE K605MD PERFORMANCE RATINGS

FREE AREA CHART - in square feet

Louver Height Inches	Louver Width in Inches											
	12	24	36	48	60	72	84	96	108	120	132	144
12	0.26	0.62	0.97	1.32	1.67	1.98	2.33	2.69	3.04	3.39	3.70	4.05
24	0.72	1.68	2.65	3.61	4.57	5.42	6.38	7.34	8.30	9.27	10.11	11.07
36	1.18	2.75	4.33	5.90	7.47	8.85	10.42	12.00	13.57	15.14	16.52	18.09
48	1.64	3.82	6.01	8.19	10.37	12.29	14.47	16.65	18.84	21.02	22.93	25.12
60	2.10	4.89	7.69	10.48	13.27	15.72	18.51	21.31	24.10	26.90	29.34	32.14
72	2.55	5.96	9.36	12.77	16.17	19.15	22.56	25.97	29.37	32.78	35.76	39.16
84	3.01	7.03	11.04	15.06	19.08	22.59						
96	3.47	8.10	12.72	17.35	21.98	26.02						
108	3.93	9.16	14.40	19.64	24.88	29.46						
120	4.39	10.23	16.08	21.93	27.78	32.89						
132	4.84	11.30	17.76	24.22	30.68	36.33						
144	5.30	12.37	19.44	26.51	33.58	39.76						



The Airolite Company, LLC certifies that Louver Type K605MD 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
Enhanced Protection Level E

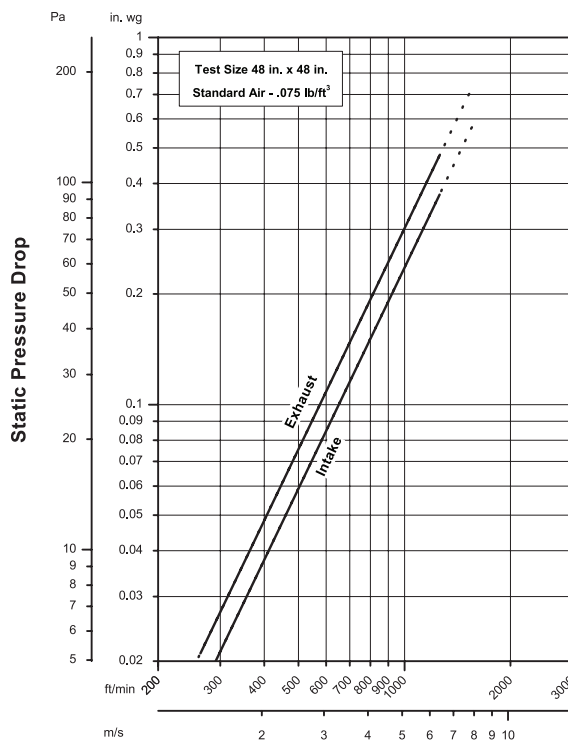
See www.AMCA.org for all certified or listed products

This label does not signify
AMCA airflow performance
certification.

The Airolite Company, LLC certifies that Louver Type K605MD 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.

AIRFLOW RESISTANCE

(Standard Air - .075 lb./ft.³)

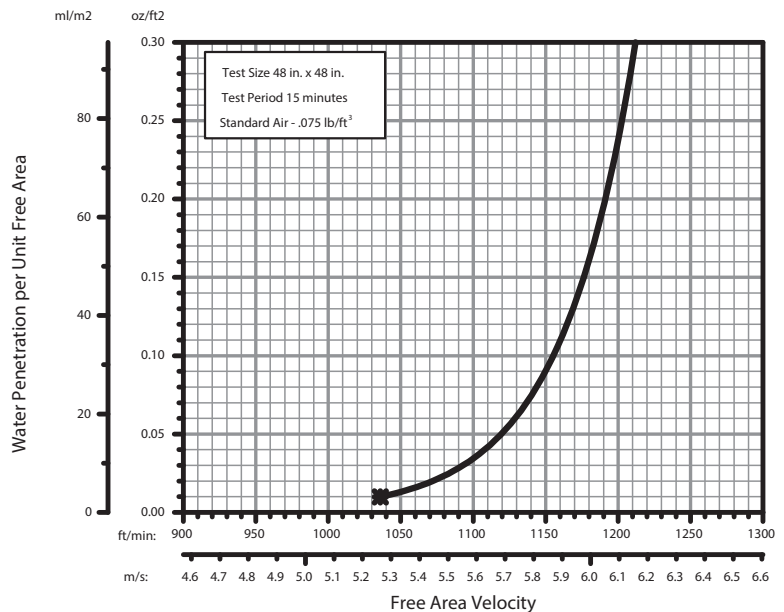


Free Air Velocity

Louver Type K605MD resistance to airflow (pressure drop) varies depending on louver application (air intake or air exhaust). Free area velocities (shown) are higher than average velocity through the overall louver size. (Test Figure: 5.5-6.5)

WATER PENETRATION

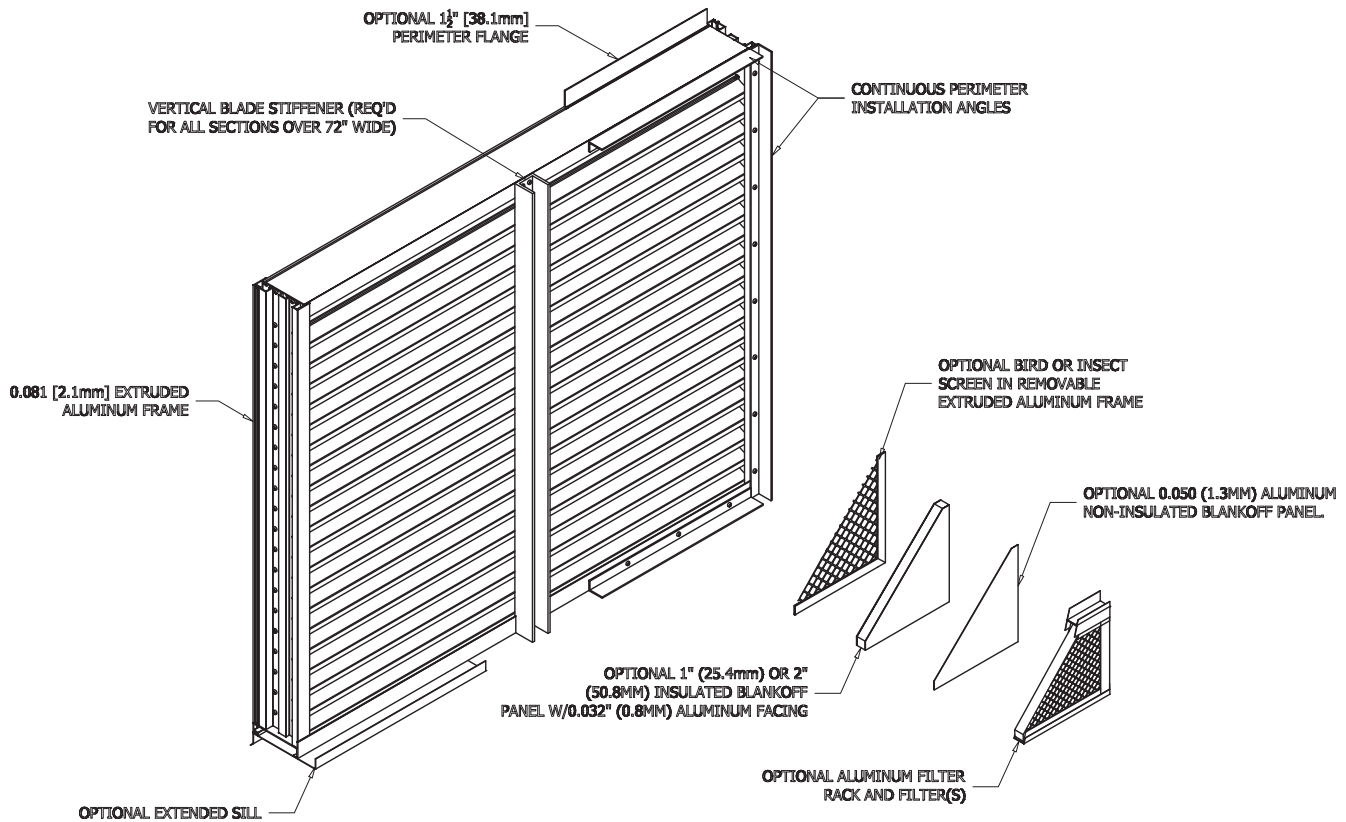
(Standard Air - .075 lb./ft.³; Test Size - 48 in. x 48 in.; Test Duration - 15 min.)



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 point of zero water penetration is defined as that velocity where the water penetration curve projects through .01 oz. of water (penetration) per sq. ft. of louver free area. ***The beginning point of water penetration for Louver Type K605MD is 1036 fpm free area velocity.** 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.

LOUVER TYPE K605MD

METHOD OF INSTALLATION & ACCESSORY OPTIONS



FINISHES

Finish Type	Description/Application	Color Selection	Standard Warranty (Aluminum)
AAMA 2605 100% Fluoropolymer (FEVE) 2-Coat 70% Kynar® (PVDF) 3-Coat 70% Kynar® (PVDF) 4-Coat 70% Kynar® (PVDF)	"Best." The premier finish for extruded aluminum. Tough, long-lasting coating has superior color retention and abrasive properties. Resists chalking, fading, chemical abrasion and weathering.	Standard Colors: Any of the 27 standard colors shown can be furnished in 70% or 50% Kynar®, 100% Fluoropolymer or Baked Enamel. Mica Colors: Airlite offers 6 standard Mica colors for 70% Kynar® or 100% Fluoropolymer. Custom Colors: Custom color matching is available. Consult your Airlite representative for cost and/or lead-time implications if a custom color is required.	10 Years (20 Years Optional)
AAMA 2603 Baked Enamel	"Good." Provides good adhesion and resistance to weathering, corrosion and chemical stain.		1 Year
AA-M10C22A42 Integral Color Anodize	"Two-step" anodizing is produced by following the normal anodizing step with a second, colorfast process.	Light, Medium, Dark or Extra Dark Bronze; Champagne; Black	5 years
AA-M10C22A41 Clear Anodize 215 R-1	Clear, colorless and hard oxide aluminum coating that resists weathering and chemical attack.	Clear	5 years
AA-M10C22A31 Clear Anodize 204	Clear, colorless and hard oxide aluminum coating that resists weathering and chemical attack.	Clear	1 Year
Prime Coat	Louvers or architectural products shall be cleaned, pre-treated and receive a prime coat finish suitable for field painting. Airlite does not recommend prime coat or field painting of materials.		n/a
Mill	Materials may be supplied in natural aluminum or galvanized steel finish when normal weathering is acceptable and there is no concern for color or color change.		n/a

Finishes meet or exceed AAMA 2605, AAMA 2604, and AAMA 2603 requirements. Please consult www.airlite.com for complete information on standard and extended paint warranties. Paint finish warranties are not applicable to steel products.



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