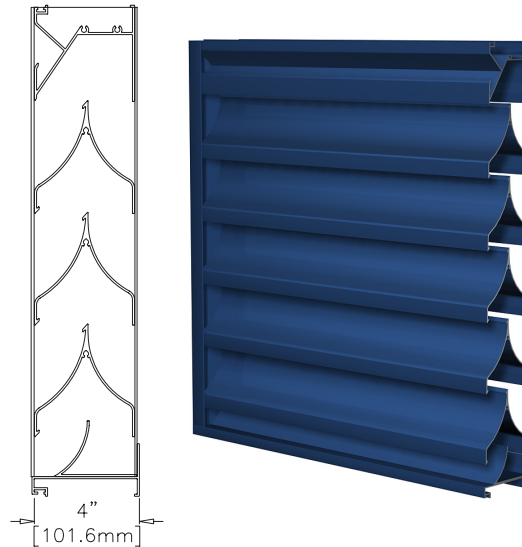




## SIGHTPROOF LOUVER

<b>Visible Mullion Louver Type</b> .....	K601
<b>Material</b> .....	Extruded Aluminum (Alloy 6063-T5)
<b>Stationary Blade</b> .....	0.081 in. (2.06 mm)
<b>Frame</b> .....	0.081 in. (2.06 mm)
<b>Louver Depth</b> .....	4 in. (101.6 mm)
<b>Free Area – 4 ft. x 4 ft. Unit</b> .....	5.16 sq. ft. (0.48 sq m)
<b>Percent Free Area</b> .....	33.3%
<b>Free Area Velocity at Beginning Point of Water Penetration – 0.01 oz H<sub>2</sub>O/sq. ft. Free Area</b> .....	765 fpm (3.89 m/s)
<b>Air Volume Flow Rate at Beginning Point of Water Penetration – 4 ft. x 4 ft. Unit</b> .....	3,827 cfm (1.81 m <sup>3</sup> /s)
<b>Pressure Drop at Beginning Point of Water Penetration</b> .....	0.26 in. H <sub>2</sub> O (0.065 kPa)



## RECOMMENDED SPECIFICATION

### GENERAL

Furnish and install where indicated on plans or described in schedules Airolite Louver Type K601 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 and water penetration ratings determined in accordance with AMCA Standard 500-L and licensed under the AMCA Certified Ratings Program.

### PRODUCTS

Louvers shall be sightproof Louver Type K601 with visible vertical mullions (or Louver Type CB601 with invisible vertical mullions). Louvers shall be 4-inches (101.6 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 horizontal, inverted-V type with a center hook and spaced 4.25-inches (108.0 mm) on center.

### OPTIONAL WELDED ASSEMBLY

Join stationary blade, head, sill and jamb frames with fillet welds concealed from view, unless the size of the louver makes screwed connections between louver sections necessary. Louver blades shall be joined to each jamb frame with fillet welds produced with the Pulsed Gas Metal Arc Welding (GMAW/Mig) process.

### STRUCTURAL DESIGN CRITERIA

Maximum single section size for model K601 is 84-inches wide x 120-inches high or 120-inches wide x 84-inches high. Larger openings require field assembly of multiple louver sections to make up the overall opening size. Individual louver sections are designed to withstand a 25 PSF wind load (please consult Airolite if the louvers must withstand higher wind-loads). Structural reinforcing members may be required to adequately support and install multiple louver sections within a large opening. Structural reinforcing members along with any associated installation hardware is not provided by Airolite unless indicated otherwise by Airolite. Options and accessories including, but not limited to, screens, filter racks, louver doors, and blank off panels are not subject to structural analysis unless indicated otherwise by Airolite. Additional information on louver installation may be found in AMCA Publication #501, Louver Application Manual.

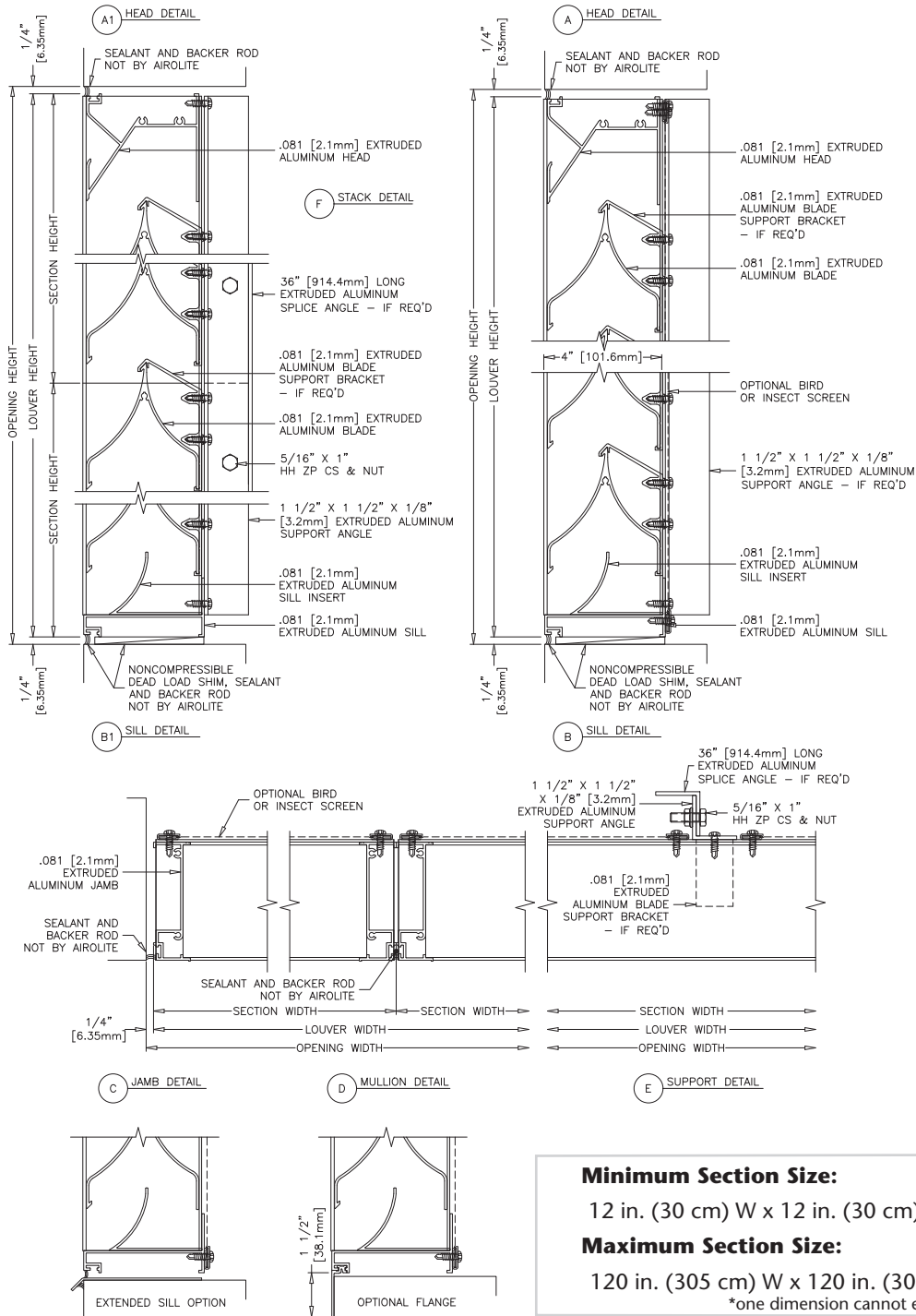
### PERFORMANCE RATINGS

FREE AREA:	5.16 Square Feet (0.48 m <sup>2</sup> )
MINIMUM FREE AREA VELOCITY at Beginning Point of Water Penetration:	765 fpm (3.89 m/s)
MINIMUM AIR VOLUME FLOW RATE at Beginning Point of Water Penetration:	3,827 cfm (1.81 m <sup>3</sup> /s)
MAXIMUM STATIC PRESSURE at Beginning Point of Water Penetration:	0.26 in. H <sub>2</sub> O (0.065 kPa)

See page 4 for complete finish options

# LOUVER TYPE K601 PRODUCT DESCRIPTION & DETAILS

**AIROLITE LOUVER TYPE K601** is a 4-inch deep, extruded aluminum, sightproof louver suitable for louver installations at grade or wherever security and resistance to intrusion are primary concerns. The inverted V-blade blade profile is 100% sightproof when viewed from any orientation and poses a formidable barrier to intruding devices such as sticks and wires. Louver Type K601 is also ideal for screen wall applications where economy and 100% sightproofness are required. Louver Type K601 is an 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 Airlite representative or the factory for assistance with the layout and design of support systems when required.



# LOUVER TYPE K601 PERFORMANCE RATINGS

## FREE AREA CHART - in square feet

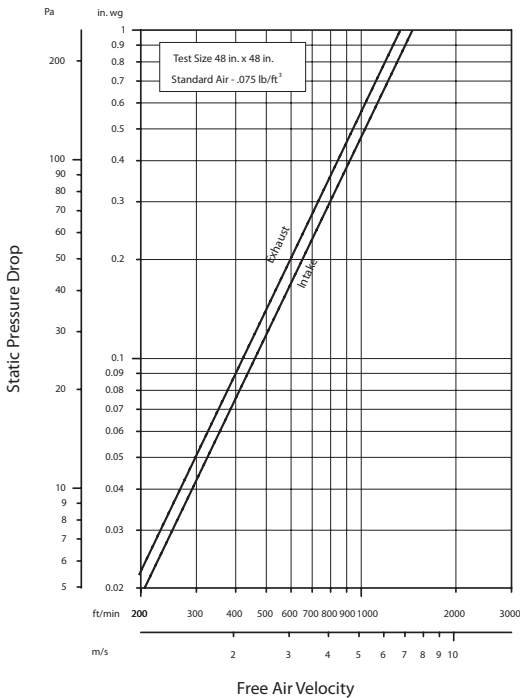
Louver Height Inches	Louver Width in Inches												
	12	18	30	36	48	54	66	72	84	90	102	108	120
12	0.18	0.30	0.53	0.64	0.87	0.99	1.19	1.30	1.53	1.65	1.87	1.99	2.19
18	0.33	0.53	0.95	1.16	1.57	1.78	2.14	2.35	2.76	2.97	3.38	3.59	3.95
24	0.52	0.84	1.50	1.83	2.48	2.81	3.38	3.70	4.36	4.68	5.34	5.66	6.24
30	0.91	1.49	2.64	3.22	4.37	4.95	5.96	6.54	7.69	8.27	9.42	10.00	11.01
36	0.79	1.29	2.29	2.78	3.78	4.28	5.15	5.65	6.65	7.15	8.15	8.64	9.52
42	0.94	1.54	2.73	3.33	4.52	5.12	6.16	6.76	7.95	8.55	9.74	10.33	11.38
48	1.08	1.76	3.12	3.80	5.16	5.84	7.04	7.72	9.08	9.76	11.12	11.80	12.99
54	1.28	2.09	3.71	4.52	6.14	6.94	8.36	9.17	10.79	11.60	13.21	14.02	15.44
60	1.40	2.28	4.05	4.94	6.70	7.59	9.13	10.02	11.79	12.67	14.44	15.32	16.87
66	1.56	2.54	4.51	5.49	7.46	8.44	10.16	11.14	13.11	14.09	16.06	17.04	18.76
72	1.71	2.79	4.94	6.02	8.17	9.25	11.14	12.22	14.37	15.45	17.61	18.68	20.57
78	1.83	2.98	5.29	6.45	8.76	9.91	11.93	13.09	15.40	16.55	18.86	20.02	22.04
84	2.04	3.34	5.92	7.21	9.79	11.08	13.34	14.63	17.21	18.51	21.09	22.38	24.64
90	2.15	3.51	6.22	7.58	10.30	11.66	14.03	15.39	18.11				
96	2.32	3.79	6.73	8.19	11.13	12.60	15.16	16.63	19.57				
102	2.47	4.03	7.05	8.71	11.83	13.39	16.19	17.68	20.80				
108	2.60	4.24	7.51	9.15	12.43	14.07	16.94	18.58	21.86				
114	2.76	4.49	7.97	9.71	13.19	14.93	17.98	19.72	23.20				
120	2.90	4.73	8.40	10.23	13.89	15.72	18.93	20.76	24.43				



The Aiolite Company, LLC certifies that Louver Type K601 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 only to Air Performance and Water Penetration ratings.

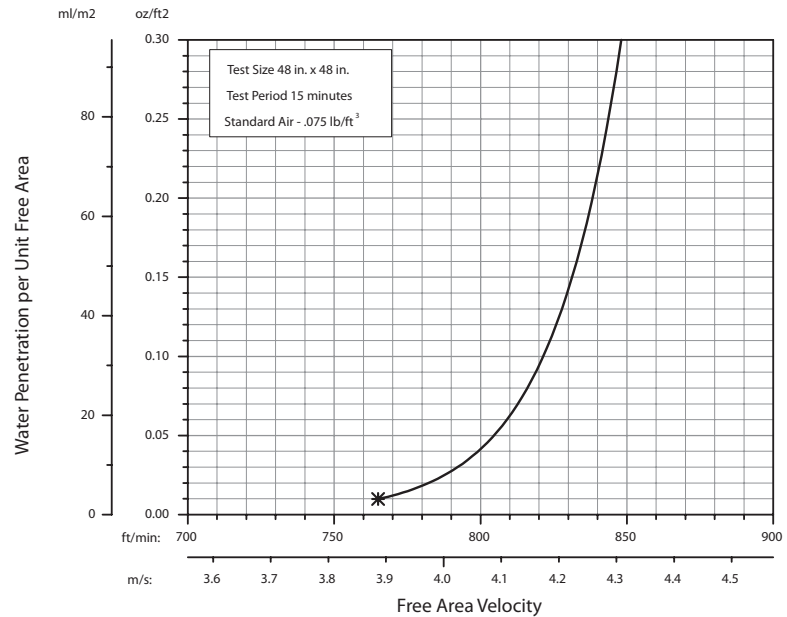
## AIRFLOW RESISTANCE

(Standard Air - .075 lb./ft.<sup>3</sup>)



## WATER PENETRATION

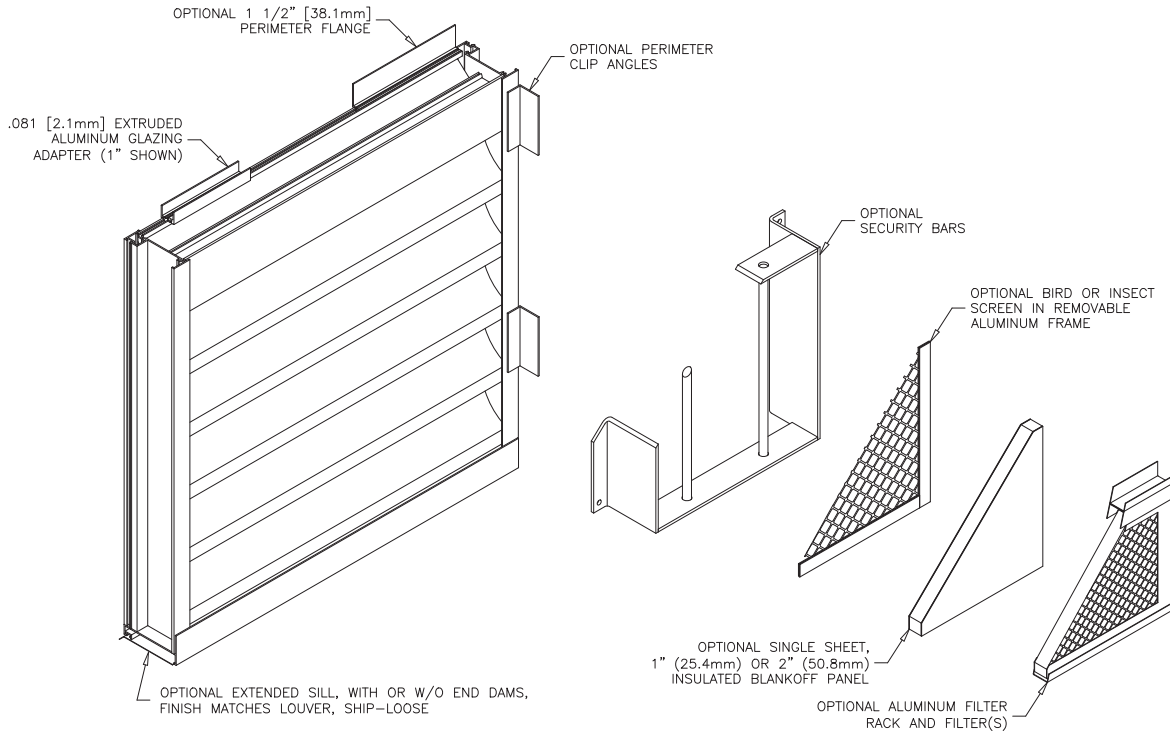
(Standard Air - .075 lb./ft.<sup>3</sup>)



Louver Type K601 resistance to airflow is shown with louver blades fully open. Resistance (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.

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 K601 is 765 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 K601 METHOD OF INSTALLATION & ACCESSORY OPTIONS



## FINISHES

Finish Type	Description/Application	Color Selection	Standard Warranty (Aluminum)
<b>AAMA 2605</b> 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.	<b>Standard Colors:</b> Any of the 27 standard colors shown can be furnished in 70% or 50% Kynar®, 100% Fluoropolymer or Baked Enamel. <b>Mica Colors:</b> Aiolite offers 6 standard Mica colors for 70% Kynar® or 100% Fluoropolymer. <b>Custom Colors:</b> Custom color matching is available. Consult your Aiolite representative for cost and/or lead-time implications if a custom color is required.	10 Years (20 Years Optional)
<b>AAMA 2603</b> Baked Enamel	"Good." Provides good adhesion and resistance to weathering, corrosion and chemical stain.		1 Year
<b>AA-M10C22A42</b> 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
<b>AA-M10C22A41</b> Clear Anodize 215 R-1	Clear, colorless and hard oxide aluminum coating that resists weathering and chemical attack.	Clear	5 years
<b>AA-M10C22A31</b> Clear Anodize 204	Clear, colorless and hard oxide aluminum coating that resists weathering and chemical attack.	Clear	1 Year
<b>Prime Coat</b>	Louvers or architectural products shall be cleaned, pre-treated and receive a prime coat finish suitable for field painting. Aiolite does not recommend prime coat or field painting of materials.		n/a
<b>Mill</b>	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.aiolite.com](http://www.aiolite.com) for complete information on standard and extended paint warranties. Paint finish warranties are not applicable to steel products.



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