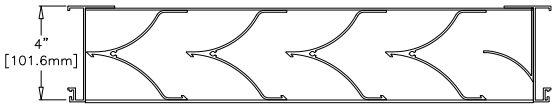
AIROLITE®
The look that works.™

LOUVER TYPE
KV601

SIGHTPROOF LOUVER

Visible Mullion Louver Type	KV601
Material	Extruded Aluminum (Alloy 6063-T5)
Stationary Blade	0.081 in. (2.06 mm)
Frame	0.081 in. (2.06 mm)
Louver Depth	4 in. (101.6 mm)
Blade Angle	63°
Free Area – 4 ft. x 4 ft. Unit	5.33 sq. ft. (0.50 sq m)
Percent Free Area	33.3%
Free Area Velocity at Beginning Point of Water Penetration – 0.01 oz H_2O/sq. ft. Free Area	not rated
Air Volume Flow Rate at Beginning Point of Water Penetration – 4 ft. x 4 ft. Unit	not rated
Pressure Drop at Beginning Point of Water Penetration	not rated



RECOMMENDED SPECIFICATION

GENERAL
Furnish and install where indicated on plans or described in schedules Airolite Louver Type KV601 as designed and manufactured by The Airolite Company LLC, Marietta, Ohio. 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. 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.

PRODUCTS
Louvers shall be vertical blade, sightproof Louver Type K601 with concealed 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 and spaced 4-inches (101.6 mm) on center.

ALL-WELDED ASSEMBLY
Join stationary blade and frames and frame members with fillet welds concealed from view, unless the size of the louver makes bolted connections between louver sections necessary. Louver blades shall be joined to each jamb frame with a minimum of two fillet welds produced with the Pulsed Gas Metal Arc Welding (GMAW/Mig) process. Each weld shall be a minimum of 1-inch (25.4 mm) in length with a minimum 3/16-inch (4.76 mm) leg. Frames shall be joined at each corner with a full-length GMAW fillet weld with a minimum 3/16-inch (4.76 mm) throat.

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 84-inches wide x 120-inches high or 120-inches wide x 84-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

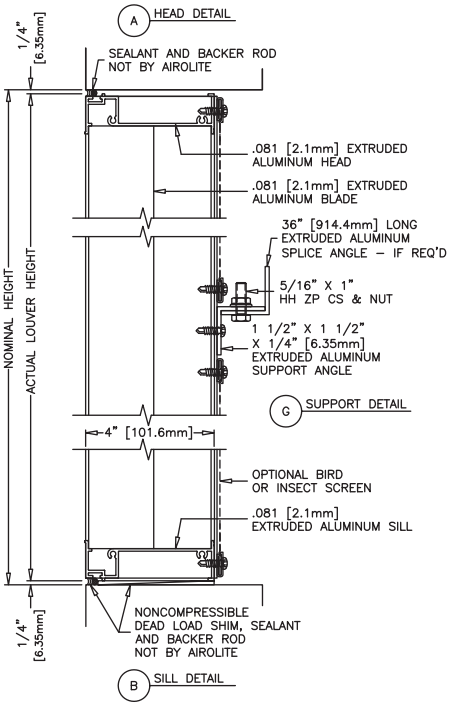
FREE AREA:	5.33 Square Feet (0.50 m^2)
MINIMUM FREE AREA VELOCITY at Beginning Point of Water Penetration:	not rated
MINIMUM AIR VOLUME FLOW RATE at Beginning Point of Water Penetration:	not rated
MAXIMUM STATIC PRESSURE at Beginning Point of Water Penetration:	not rated

See page 4 for complete finish options

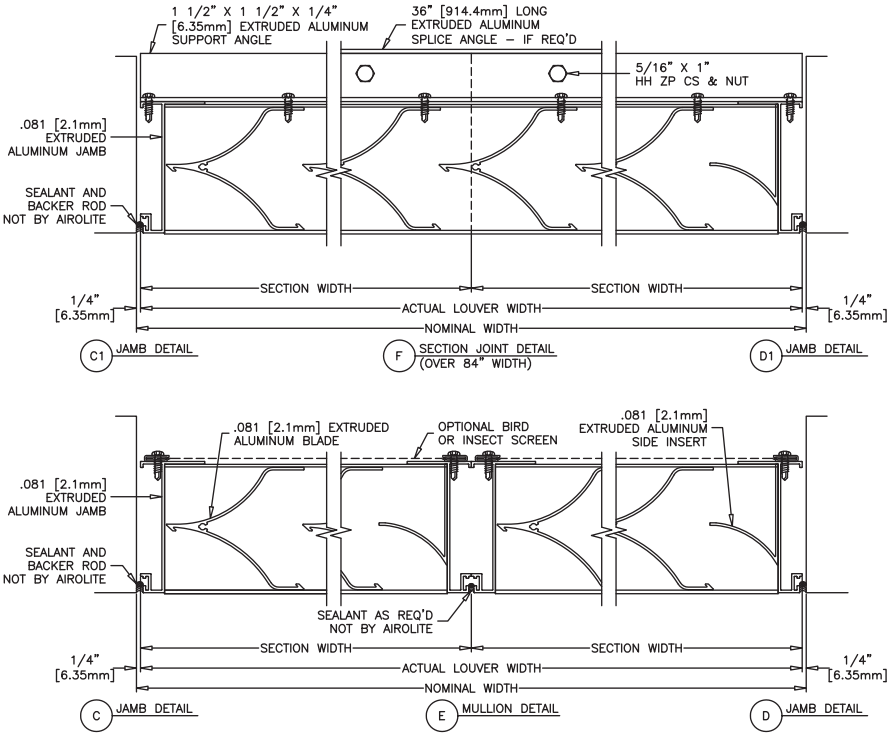
LOUVER TYPE KV601 PRODUCT DESCRIPTION & DETAILS

AIROLITE LOUVER TYPE KV601 is a 4-inch deep, extruded aluminum, vertical blade, and sightproof louver suitable for louver installations at grade or wherever security and resistance to intrusion are primary concerns. The inverted V-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 KV601 is also ideal for screen wall applications where economy and 100% sightproofness are required. Please contact your local Airolite representative or the factory for assistance with the layout and design of support systems when required.

VERTICAL SECTION DETAIL



PLAN SECTION DETAIL



Minimum Section Size:

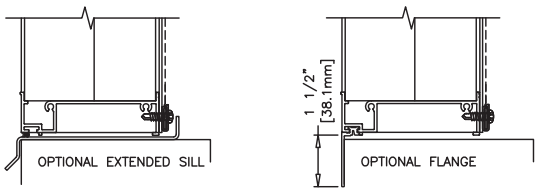
12 in. (30 cm) W x 12 in. (30 cm) H

Maximum Section Size:

120 in. (305 cm) W x 120 in. (305 cm) H

*one dimenion cannot exceed 84 in.

ACCESSORY ITEMS



AIROLITE®
The look that works.™

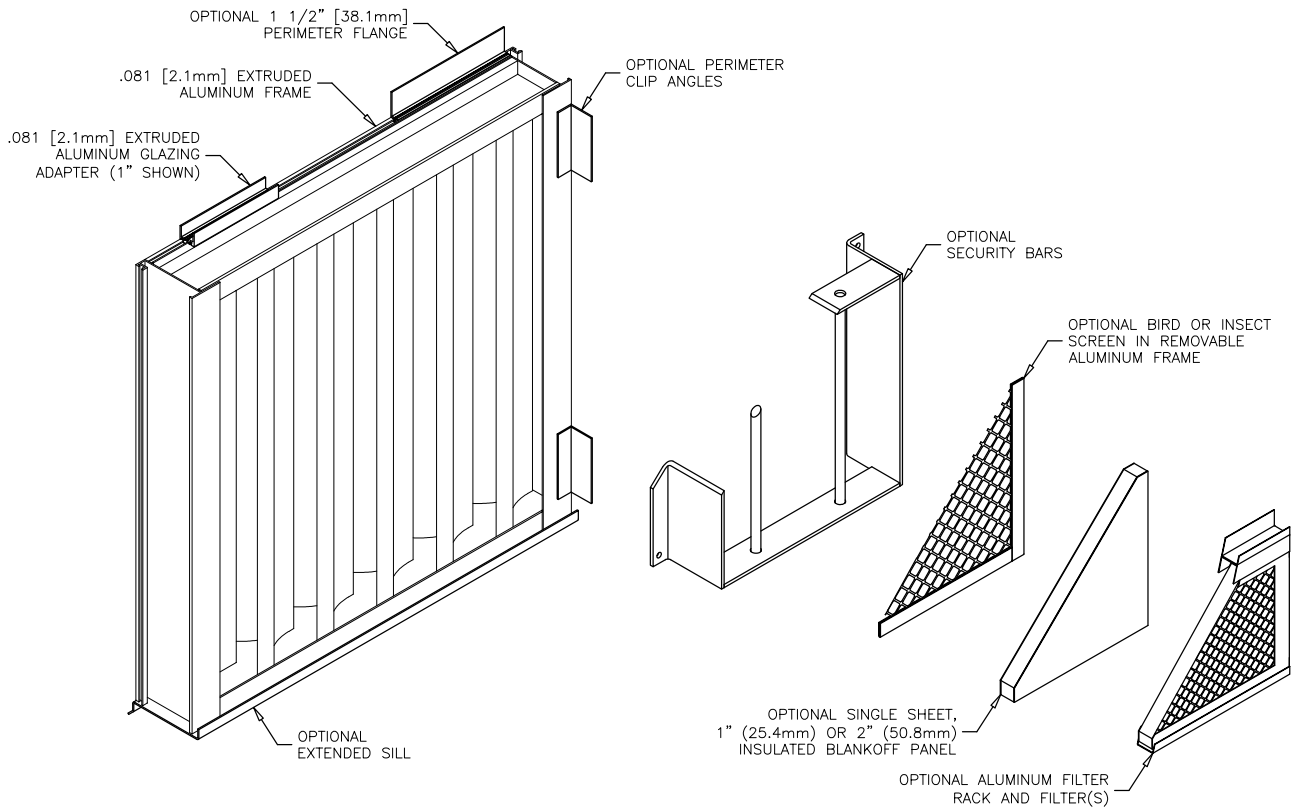
LOUVER TYPE KV601 PERFORMANCE RATINGS

FREE AREA CHART - in square feet

Louver Height Inches	Louver Width in Inches									
	12	24	36	48	60	72	84	96	108	120
12	0.15	0.45	0.79	1.12	1.46	1.75	2.03	2.34	2.68	3.01
24	0.35	1.02	1.78	2.54	3.30	3.95	4.59	5.31	6.07	6.82
36	0.55	1.59	2.77	3.96	5.14	6.16	7.16	8.27	9.45	10.63
48	0.74	2.16	3.76	5.38	6.97	8.36	9.72	11.23	12.84	14.44
60	0.94	2.74	4.76	6.79	8.81	10.57	12.29	14.19	16.23	18.25
72	1.13	3.31	5.75	8.21	10.65	12.77	14.85	17.15	19.61	22.05
84	1.33	3.88	6.74	9.63	12.49	14.98	17.42	20.11	23.00	25.86
96	1.52	4.45	7.74	11.05	14.33	17.18	19.98	23.07	26.38	29.67
108	1.72	5.02	8.73	12.46	16.17	19.39	22.55	26.03	29.77	33.48
120	1.91	5.59	9.72	13.88	18.01	21.59	25.11	28.99	33.16	37.29

This page intentionally left blank.

LOUVER TYPE KV601
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 Finshed 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.

AIROLITE®
The look that works.™
P.O. Box 410, 525 Western Road, Schofield, WI 54476-0410 USA
715.841.8757 • fax 715.841.8773 • www.airolite.com

Submittal KV601 January 2011, Revision 1

THE ALL-WELDED ADVANTAGE