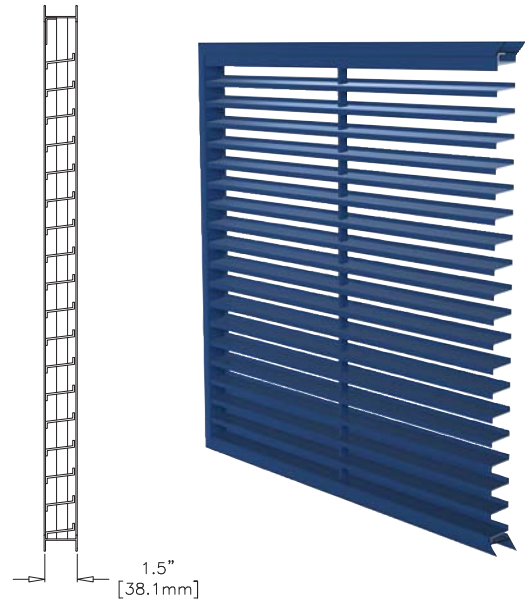


EXTRUDED ALUMINUM NARROW PROFILE LOUVER

Visible Mullion Louver Type	AC507
Continuous Blade Louver Type	CB507
Material	Extruded Aluminum (Alloy 6063-T5)
Stationary Blade	0.081 in. (2.06 mm)
Frame	0.063 in. (1.6 mm)
Louver Depth	1.5 in. (38.1 mm)
Blade Angle	7°
Free Area – 4 ft. x 4 ft. Unit	11.07 sq. ft. (1.03 sq m)
Percent Free Area	69.2%
Free Area Velocity at Beginning Point of Water Penetration – 0.01 oz H₂O/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 Louver Type AC507 (or CB507) 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. 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 and air performance ratings shall be determined in accordance with AMCA Standard 500-L.

PRODUCTS

Louvers shall be Airolite Louver Type AC507 with visible vertical mullions (or Louver Type CB507 with concealed vertical mullions). Louvers shall be 1-1/2-inches (38.1 mm) deep and assembled entirely from extruded aluminum components. Blades shall be 0.081-inch (2.06 mm) thick extruded aluminum, alloy 6063-T5 and frames shall be 0.063-inch (1.6 mm) thick extruded aluminum, alloy 6063-T5. Blades shall be stationary, horizontal and spaced 1-1/4-inches (31.8 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 one fillet weld 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 1/8-inch (3.175 mm) leg. Frames shall be joined at each corner with a full-length GMAW fillet weld with a minimum 1/8-inch (3.175 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 62-inches high or 7-inches wide x 72-inches high will be fabricated and installed in multiples sections. Louver blades, frames, mullions and anchorages shall be demonstrated to withstand the specified wind design load.

PERFORMANCE RATINGS

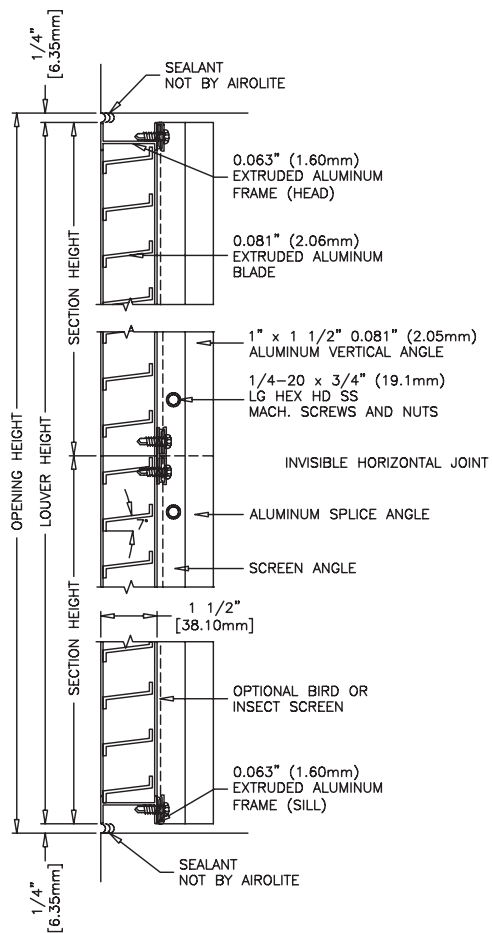
FREE AREA:	11.07 Square Feet (1.03 m ²)
MINIMUM FREE AREA VELOCITY at Beginning Point of Water Penetration:	not rated
MINIMUM AIR VOLUME FLOW RATE at Beginning Point of Water Penetration:	not rated
PRESSURE DROP at Beginning Point of Water Penetration:	not rated

See page 4 for complete finish options

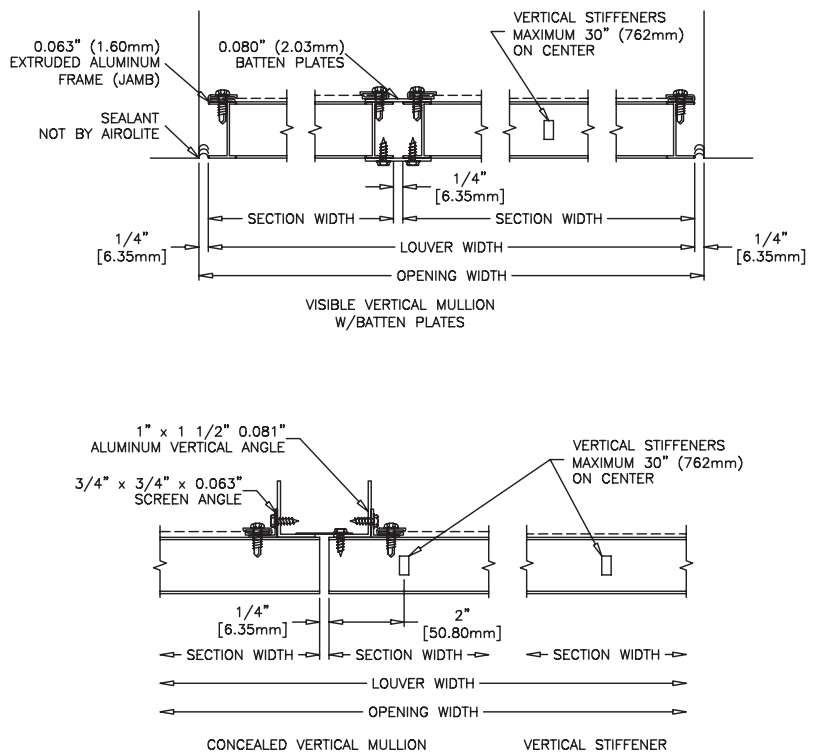
LOUVER TYPE AC507 PRODUCT DESCRIPTION & DETAILS

AIROLITE LOUVER TYPE AC507 is a versatile, horizontal blade, 1-1/2-inch (38.1 mm) deep architectural louver suitable for applications where optimum free area is required to support maximum air volume flow rates and weather protection is not a concern. Louver Type AC507 is available with both visible and concealed vertical mullions to complement and enhance exterior façade elements. Specify Louver Type AC507 with visible vertical mullions; and, Louver Type CB507 with concealed vertical mullions. Please contact your local Airlite representative or the factory for assistance with the layout and design of support systems when required.

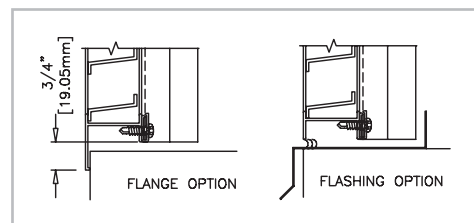
VERTICAL SECTION DETAIL



PLAN SECTION DETAIL



ACCESSORY ITEMS



Minimum Section Size:

12 in. (31 cm) W x 12 in. (31 cm) H

Maximum Section Size:

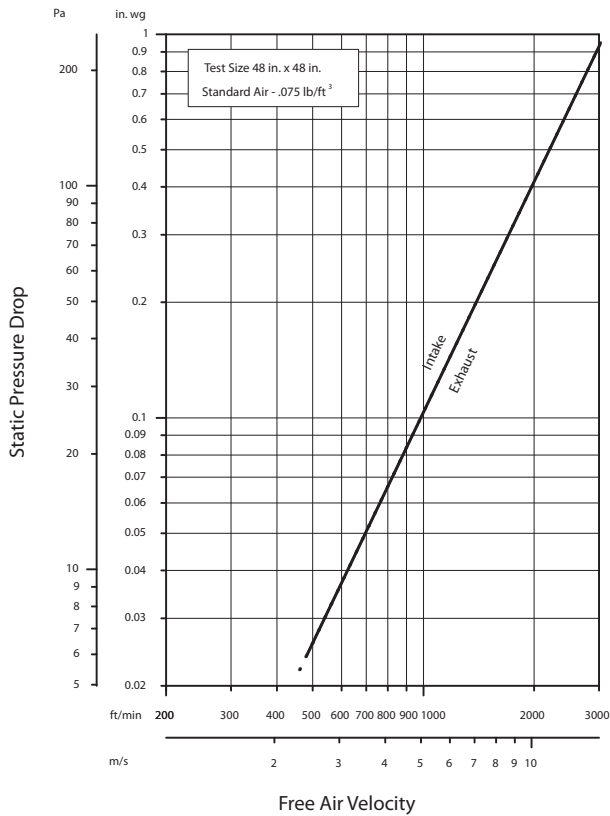
84 in. (213 cm) W x 72 in. (183 cm) H

LOUVER TYPE AC507 PERFORMANCE RATINGS

FREE AREA CHART - in square feet

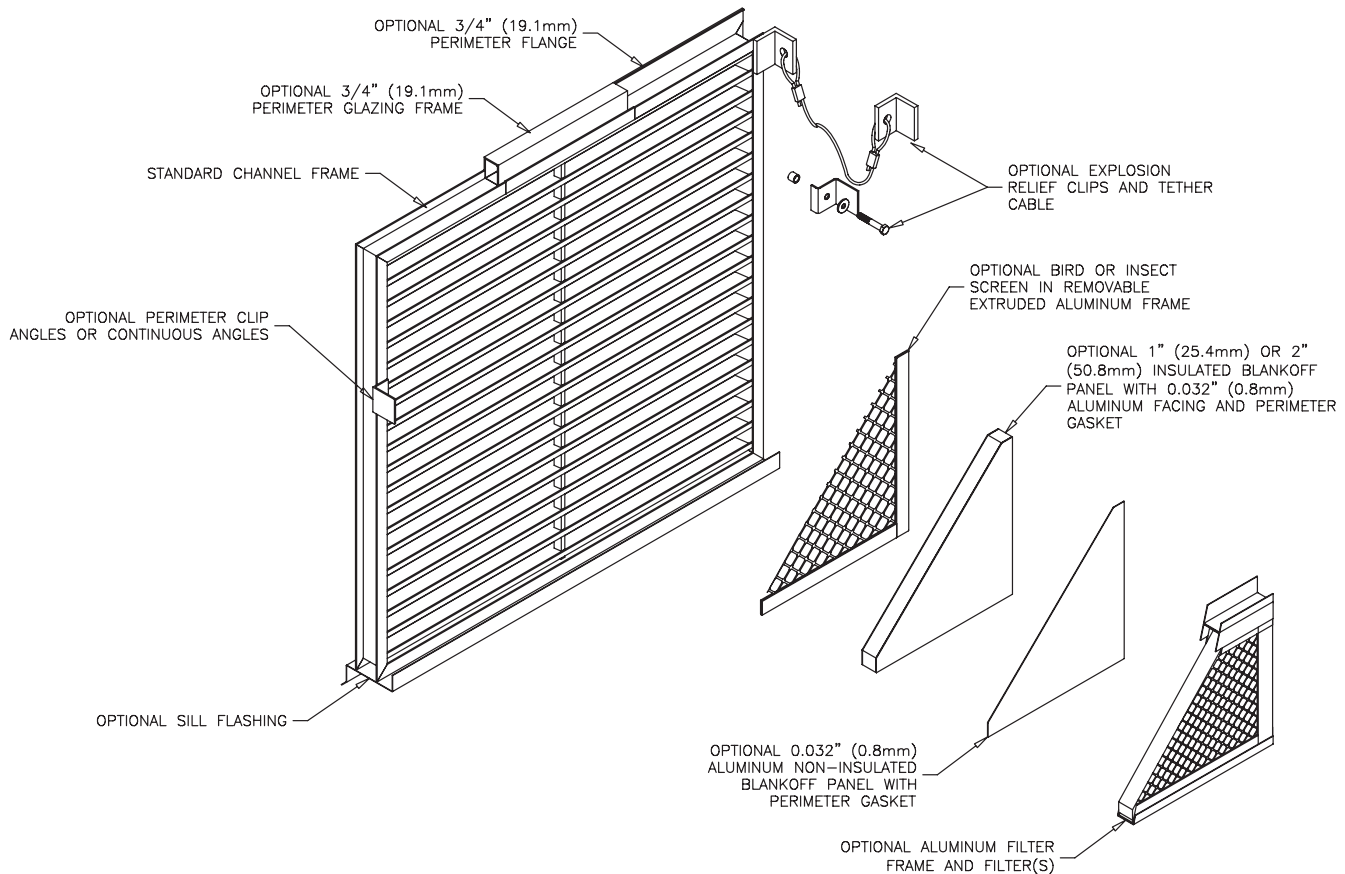
Louver Height Inches	Louver Width in Inches						
	12	24	36	48	60	72	84
12	0.55	1.19	1.79	2.42	3.03	3.66	4.27
24	1.21	2.58	3.91	5.28	6.61	7.98	9.31
36	1.87	4.01	6.05	8.19	10.24	12.37	14.42
48	2.53	5.42	8.18	11.07	13.84	16.73	19.50
60	3.19	6.84	10.33	13.97	17.47	21.11	24.61
72	3.84	8.24	12.45	16.84	21.05	25.44	29.65

AIRFLOW RESISTANCE (Standard Air - .075 lb./ft.³)



Louver Type AC507 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.

LOUVER TYPE AC507 METHOD OF INSTALLATION & ACCESSORY OPTIONS



FINISHES (Select one of the following)

ACRYLIC ENAMEL: Louvers shall be cleaned, pretreated and FINISHED-AFTER-ASSEMBLY 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 FINISHED-AFTER-ASSEMBLY 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-AFTER-ASSEMBLY 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-AFTER-ASSEMBLY 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-AFTER-ASSEMBLY 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.



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THE ALL-WELDED ADVANTAGE 