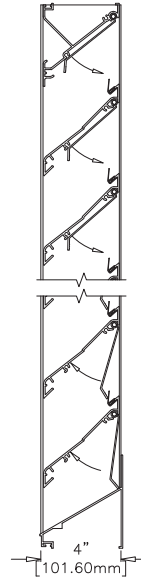


## COMBINATION STATIONARY & ADJUSTABLE BLADE LOUVER

<b>Visible Mullion Louver Type</b> .....	KX827
<b>Material</b> .....	Extruded Aluminum (Alloy 6063-T5)
<b>Stationary Blade</b> .....	0.081 in. (2.06 mm)
<b>Adjustable Blade</b> .....	0.063 in. (1.6 mm)
<b>Frame</b> .....	0.081 in. (2.06 mm)
<b>Louver Depth</b> .....	4 in. (101.6 mm)
<b>Blade Angle</b> .....	45°
<b>Free Area – 4 ft. x 4 ft. Unit</b> .....	.639 sq. ft. (0.59 sq m)
<b>Percent Free Area</b> .....	39.9%
<b>Free Area Velocity at Beginning Point of Water Penetration – 0.01 oz H<sub>2</sub>O/sq. ft. Free Area</b> .....	N/A
<b>Air Volume Flow Rate at Beginning Point of Water Penetration – 4 ft. x 4 ft. Unit</b> .....	N/A
<b>Pressure Drop at Beginning Point of Water Penetration</b> .....	N/A



### RECOMMENDED SPECIFICATION

#### GENERAL

Furnish and install where indicated on plans or described in schedules Combination Stationary and Adjustable Blade Gravity-Operated Louver Type KX827 as designed and manufactured by The Airoilite Company LLC, Schofield, Wisconsin. Louvers shall be furnished with bird screen, insect screen, supports 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.

#### PRODUCTS

Louvers shall be gravity-operated combination louvers designed for exhaust air applications and incorporate both stationary and adjustable blades in a single frame. Louvers shall be 4-inches (101.6 mm) deep and assembled entirely from extruded aluminum. Stationary blades and frames shall be 0.081-inch (2 mm) thick extruded aluminum, alloy 6063-T5. Adjustable blades shall be 0.063-inch (1.6 mm) extruded aluminum, alloy 6063-T5. The louver head and each jamb frame shall incorporate integral gutters to minimize water penetration. Stationary blades shall be positioned at 45-degrees and spaced 4.5-inches (114.3 mm) on center. Adjustable blades shall be fitted with dual-durometer vinyl blade-edge gaskets to result in low-air leakage when the adjustable blade is closed.

#### STRUCTURAL DESIGN CRITERIA

Louvers and any supports shall be designed and furnished by the manufacturer to withstand a wind force of not less than 25 pounds per square foot. Louvers larger than 60-inches (152 cm) wide x 120-inches (305 cm) 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:	6.39 Square Feet (0.59 m <sup>2</sup> )
MINIMUM FREE AREA VELOCITY at Beginning Point of Water Penetration:	N/A
MINIMUM AIR VOLUME FLOW RATE at Beginning Point of Water Penetration:	N/A
MAXIMUM STATIC PRESSURE at Beginning Point of Water Penetration:	N/A

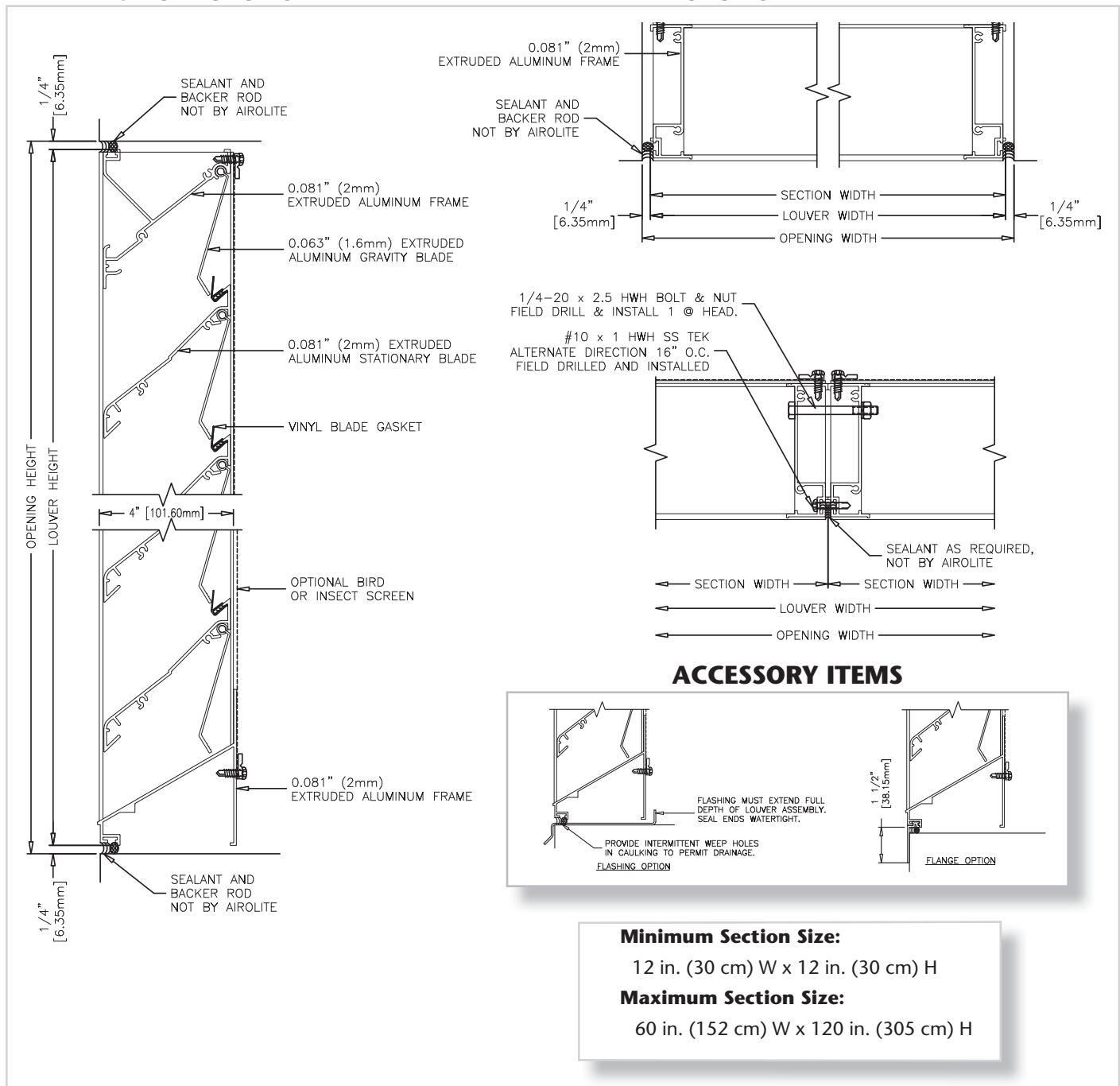
See page 4 for complete finish options

# LOUVER TYPE KX827 PRODUCT DESCRIPTION & DETAILS

**AIROLITE LOUVER TYPE KX827** is a gravity-operated combination louver designed for exhaust air applications that incorporates both stationary and adjustable blades in a single 4-inch (101.6 mm) deep frame. Combination louvers offer constant exterior appearance yet afford the control of air volume flow rates through the operation of the adjustable blades. This design incorporates adjustable blades intended to open and close as a result of changes in static pressure differential produced by fans and other mechanical equipment. To ensure operation of this unit, we recommend that the louver be utilized in close proximity to an exhaust air fan (preferably ducted to the louver) as the pressures required to operate this unit may exceed pressure differentials produced by remote exhaust air fans.

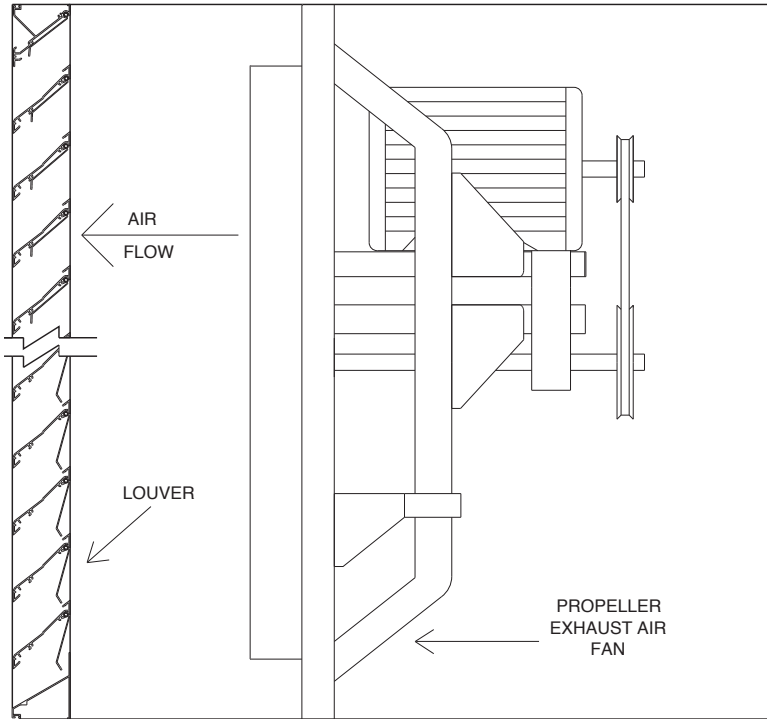
## VERTICAL SECTION DETAIL

## PLAN SECTION DETAIL



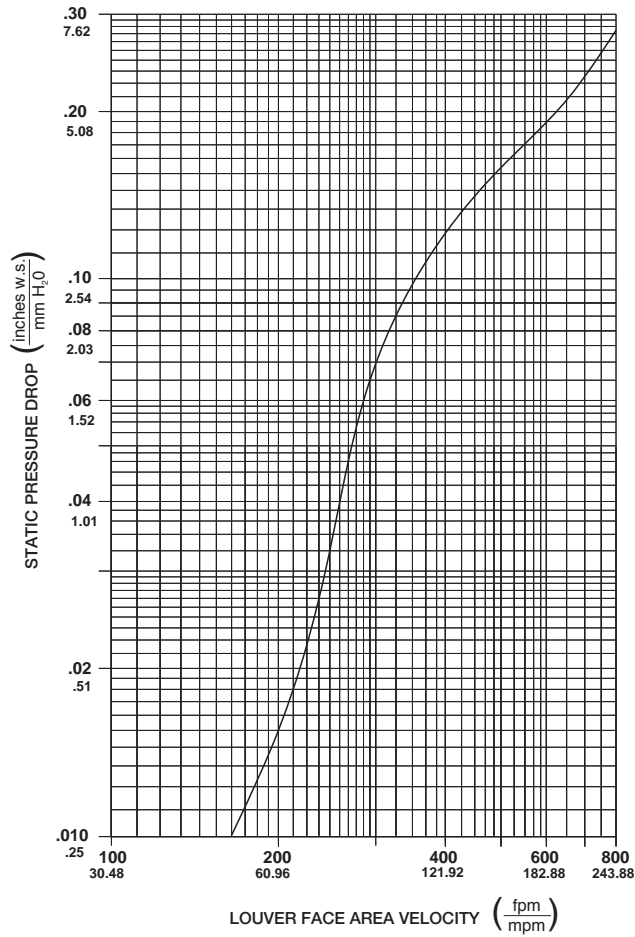
# LOUVER TYPE KX827 PERFORMANCE RATINGS

## TYPICAL APPLICATION

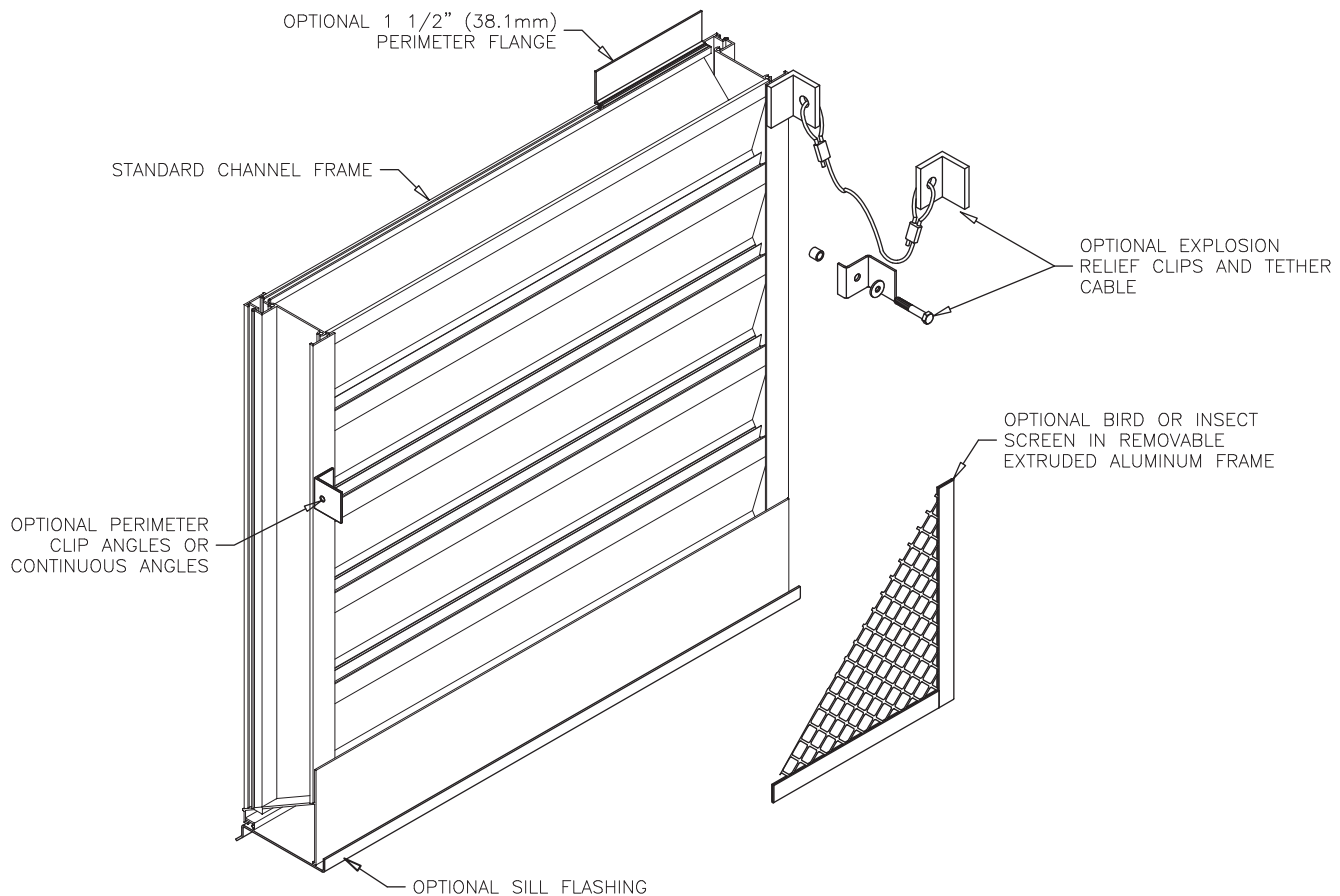


## AIRFLOW RESISTANCE

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



# LOUVER TYPE KX827 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 Finished 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.

\* Note: Louver finish makes reference to the finish on the louver frames, blades, screens and/or blank-off panels as specified. As standard, all actuator mounting channels and additional corner supports are mill finish. If color to match louver is required, please consult the factory for additional costs.



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