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## **ENCB609 - RECOMMENDED SPECIFICATION**

**Airolite Louver Screen Type ENCB609** is a versatile, inverted, horizontal blade, 4-inch (101.6 mm) deep architectural louver screen designed for applications that require economical sight barriers. The inverted louver screen blade profile provides an effective visual screen when viewed from grade or any lower elevation. Louver Screen Type ENCB609 can be supplied with concealed vertical mullions, mitered and boxed corners, and man-doors in order to meet all aesthetic and service requirements. All materials are available in Airolite's broad array of baked enamel, fluoropolymer, and clear or color anodize coatings for durability and compatibility with adjacent materials and finishes. Please contract your local Airolite representative or the factory for assistance with the layout and design of supports systems when required.

### **GENERAL**

Where indicated on plan drawings or described in schedules, furnish and install Louver Screen Type ENCB609 as designed and manufactured by The Airolite Company LLC, Schofield, Wisconsin. Louver screens shall be furnished in the configuration represented on the plan drawings and shall include installation hardware and finishes as specified and 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 screen 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.

### **PRODUCTS**

Louver screens shall be inverted, horizontal blade, Louver Screen Type ENCB609 with concealed vertical mullions. Louver screens shall be 4-inches (101.6 mm) deep and assembled by mechanically fastening or welding extruded aluminum components. Blades shall be 0.081-inch (2.06 mm) thick extruded aluminum, alloy 6005-T5. Blades shall be inverted, stationary, horizontal and spaced 5-inches (127 mm) on center. Blades shall be secured to vertical support members located to withstand the specified wind design load.

### **OPTIONAL WELDED ASSEMBLY**

Join stationary blade, head and jamb frames 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 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) leg.

### **STRUCTURAL DESIGN CRITERIA**

Manufacturer shall design and furnished all supports required to withstand a wind force of not less than 25 pounds per square foot for panel sizes no larger than 72-inches. Louver screens larger than 72-inches (183 cm) wide x 144-inches (366 cm) high or 144-inches (366 cm) wide x 72-inches (183 cm) high will be fabricated and installed in multiples sections. Louver screen blades, horizontal members and anchorages shall be demonstrated to withstand the specified wind design load.