
SV961 - RECOMMENDED SPECIFICATION

Airolite Louver Screen Type SV961 is a 3-3/4-inch deep, extruded aluminum, broad profile, vertical blade louver screen. The two-piece sightproof blade configuration is ideal to use to conceal mechanical equipment at the penthouse level or at grade when security and resistance to intrusion are primary concerns. The complimentary blade profiles are 100% sightproof when viewed from any orientation and pose a formidable barrier to intruding devices such as sticks and wires. For applications that do not require sightproof louver screens, the back blade may be omitted to yield 55% free area. 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. Please contact your local Airolite representative or the factory for assistance with the layout and design of support systems when required.

GENERAL

Where indicated on plan drawings or described in schedules, furnish and install Louver Screen Type SV961 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 vertical blade, sightproof, Louver Screen Type SV961 with concealed vertical mullions. Louver screens shall be 3-3/4-inches (95.25 mm) deep and assembled entirely by bolting aluminum components together. Blades shall be 0.081-inch (2.06 mm) thick extruded aluminum, alloy 6063-T5. Blades shall be two-piece, vertical, inverted T and U-shapes and spaced 12-inches (304.8 mm) on center. Vertical blades shall be bolted to horizontal support members located to withstand the specified wind design load. Standard construction of louver screen is shipment in pre-assembled panels. If knockdown construction is needed, contact factory for availability and pricing.

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.