

SCV501 - RECOMMENDED SPECIFICATION

GENERAL

Furnish and install where indicated on plans or described in schedules Storm Class[™] Louver type SCV501 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, air performance, water penetration and wind-driven rain ratings determined in accordance with AMCA Standard 500-L 99 and licensed under the AMCA Certified Ratings Program.

PRODUCTS

Louvers shall be Storm Class[™] type and rated to resist water penetration under wind-driven rain conditions. Louvers shall be 5-inches (127.0 mm) deep and assembled entirely from extruded aluminum components. Blades shall be 0.060 (1.524 mm) inches and frames shall be 0.081 inch (2 mm) thick aluminum, alloy 6063-T5. Blades shall be vertical with a center hook and spaced 1.5 inches (38.1 mm) on center.

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 60-inches (152 cm) wide x 96-inches (244 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: 8.71 Square Feet (0.81 m²)

MINIMUM FREE AREA VELOCITY

at Beginning Point of Water Penetration: 1,250 fpm (6.350 m/s)

MINIMUM AIR VOLUME FLOW RATE

at Beginning Point of Water Penetration: 10,888 cfm (5.139 m³/s)

PRESSURE DROP

at Beginning Point of Water Penetration: 0.27 in. H₂O (0.067 kPa)