

SCV302 - RECOMMENDED SPECIFICATION

GENERAL

Furnish and install where indicated on plans or described in schedules Storm Class™ Louver Type SCV302 as designed and manufactured by The Airlite 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. Provide samples of manufacturer’s finish and color charts showing the full range of colors available. Louver performance shall be certified in accordance with the AMCA 511 Certified Ratings Program for AMCA 500-L Air Performance, Water Penetration and Wind Driven Rain and shall be licensed to bear the AMCA Seal. Louvers shall be AMCA 540 Listed for large missile impact (Basic Protection) and shall be AMCA 550 Listed for High Velocity Wind Driven Rain.

PRODUCTS

Louvers shall be Storm Class™ type and rated to resist water penetration under wind-driven rain conditions. Louvers shall be 3-inches (76.2 mm) deep and assembled entirely from extruded aluminum components. Blades shall be 0.050-inch (1.27 mm) thick aluminum, jambs shall be 0.081-inch (2.06 mm) and head/sill shall be 0.062-inch (1.57 mm) thick aluminum. Blades shall be vertical with a center hook and spaced 0.875-inches (22.22 mm) on center.

STRUCTURAL DESIGN CRITERIA

Maximum single section size for model SCV302 is 60-inches (152 cm) wide x 96-inches (244 cm) high. Larger openings require field assembly of multiple louver sections to make up the overall opening size. Individual louver sections are designed to withstand a 25 PSF wind load (please consult Airlite if the louvers must withstand higher windloads). Structural reinforcing members may be required to adequately support and install multiple louver sections within a large opening. Structural reinforcing members along with any associated installation hardware is not provided by Airlite unless indicated otherwise by Airlite. Options and accessories including, but not limited to, screens, filter racks, louver doors, and blank off panels are not subject to structural analysis unless indicated otherwise by Airlite. Additional information on louver installation may be found in AMCA Publication #501, Louver Application Manual.

PERFORMANCE RATINGS

FREE AREA:	8.13 Square Feet (0.76 m ²)
MINIMUM FREE AREA VELOCITY	
at Beginning Point of Water Penetration:	1,250 fpm (6.35 m/s)
MINIMUM AIR VOLUME FLOW RATE	
at Beginning Point of Water Penetration:	10,163 cfm (4.80 m ³ /s)
MAXIMUM STATIC PRESSURE	
at Beginning Point of Water Penetration:	0.28 in. H ₂ O (0.07 kPa)