

SCV602MD/VCD-40 - RECOMMENDED SPECIFICATION

GENERAL

Furnish and install where indicated on plans or described in schedules Storm Class[™] Louver Type SCV602MD/VCD-40 as designed and manufactured by The AiroLite Company LLC, Marietta, Ohio. Louvers shall be furnished with bird screen, insect screen, supports, installation hardware and finishes as specified and as required for a complete installation. Miami-Dade Approved Product for use in closed structures or installations where the enclosed space incorporates no provision to accommodate water penetration (dry rooms) at elevations up to 33-feet above grade; or, closed structures or installations where the enclosed space is designed to accommodate water penetration (wet rooms) at elevations greater than 33-feet above grade.

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. 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 and licensed under the AMCA Certified Ratings Program.

PRODUCTS

Louvers shall be Florida Building Code and Miami-Dade Approved Storm Class Louver Type SCV602MD/VCD-40. Louvers shall be 10-inches (254 mm) deep and comprised of an exterior, stationary blade louver, and interior damper. The exterior louver shall incorporate vertical, V-type blades with a center hook, produced from 0.081-inch (2 mm) thick extruded aluminum, alloy 6063-T5, and spaced 2-inches (50.8 mm) on center. The interior damper shall be an ultra-low leakage high performance damper incorporating 0.081-inch (2 mm) extruded aluminum airfoil blades and frames, alloy 6063-T5. The airfoil damper blades shall pivot on ½-inch diameter plated steel pivot pins seated in synthetic bearings and shall be operated through a linkage assembly fully-enclosed in the jamb frame. The damper module shall incorporate silicone blade gaskets and compressible stainless steel jamb seals to inhibit leakage. Louver and damper modules shall be factory assembled.

STRUCTURAL DESIGN CRITERIA

Louvers shall be tested in accordance with Miami-Dade protocols TAS-100A, TAS-201, TAS-202 and TAS-203 and approved for closed structure building envelope protection for single unit sizes up to 4-feet wide x 8-feet high for dry rooms at elevations up to 33-feet above grade; and, closed structure building envelope protection for single unit sizes up to 4-feet wide x 8-feet high for wet rooms at elevations great than 33-feet above grade. Louvers shall be tested for wind forces up to 150 psf. Louvers must be secured to a structural substrate in accordance with Dade County Product Approval Drawings. In addition, the structural substrate must be designed to accommodate the point loads transferred by the louvers when subject to the design wind loads.

PERFORMANCE RATINGS

FREE AREA:	5.88 Square Feet (0.55 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:	7,350 cfm (3.47 m ³ /s)
MAXIMUM STATIC PRESSURE	
at Beginning Point of Water Penetration:	0.12 in. H ₂ O (0.030 kPa)