

SCH501X - RECOMMENDED SPECIFICATION

GENERAL

Furnish and install where indicated on plans or described in schedules Storm Class[™] Louver Type SCH501X as designed and manufactured by The Airolite Company LLC, Schofield, Wisconsin. Louvers shall be Florida Building Code approved for use in the High Velocity Hurricane Zone (HVHZ). Furnish louvers with bird screen, insect screen, sill pans, 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. For each type of product specified, submit free area, air performance, water penetration and wind driven rain water penetration ratings determined in accordance with AMCA Standard 500-L and licensed under the AMCA Certified Ratings Program, as well as tested in accordance with AMCA 540 Test Method for Louvers Impacted by Wind Borne Debris. Include Florida Building Code Approval for use in the High Velocity Hurricane Zone (HVHZ) as means to demonstrate compliance with applicable codes. Provide samples of manufacturer's finish and color charts showing the full range of colors available.

PRODUCTS

Louvers shall be Storm Class[™] Louver Type SCH501X with visible mullions and shall be Florida Building Code Approved. Louvers shall be 5-inches (127 mm) deep and assembled entirely from extruded aluminum components. Blades and frames shall be 0.081-inch (2 mm) thick aluminum, alloy 6063-T5. Blades shall be horizontal, inverted-V-type with a center hook and spaced 2-inches (50.8 mm) on center.

STRUCTURAL DESIGN CRITERIA

Louvers installed in the Wind-Borne Debris Region shall be tested and certified to comply with Florida Building Code protocols TAS-201, TAS-202 and TAS-203. Louvers installed outside the Wind-Borne Debris Region shall be tested and certified to comply with Florida Building Code protocol TAS-202. In addition, louvers shall be tested to wind forces up to 200 psf. Louvers must be secured to a structural substrate in accordance with Florida Building Code approved 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. Structural reinforcing members along with any associated installation hardware is not provided by Airolite unless indicated otherwise by Airolite. Options and accessories are not subject to structural analysis unless indicated otherwise by Airolite.

PERFORMANCE RATINGS

FREE AREA:	6.80 Square Feet (0.63
MINIMUM FREE AREA VELOCITY	
at Beginning Point of Water Penetration:	m ²) 1,250 fpm (6.35 m/s)
MINIMUM AIR VOLUME FLOW RATE	
at Beginning Point of Water Penetration:	8,500 cfm (4.01 m ³ /s)
MAXIMUM STATIC PRESSURE	
at Beginning Point of Water Penetration:	0.18 in. H ₂ O (0.045 kPa)