

K605MD - RECOMMENDED SPECIFICATION

GENERAL

Furnish and install where indicated on plans or described in schedules Louver Type K605MD as designed and manufactured by The Airlite Company LLC, Schofield, Wisconsin. Louvers shall be furnished with bird screen, insect screen, sill pans, supports, installation hardware and finishes as specified and as required for a complete installation. Miami-Dade Approved Product for use in open structures or installations where the enclosed space is designed to accommodate water infiltration (wet rooms).

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 and water penetration ratings determined in accordance with AMCA Standard 500-L 99 and licensed under the AMCA Certified Ratings Program.

PRODUCTS

Louvers shall be sightproof and drainable Louver Type K605MD. Louvers shall be 5-inches (127 mm) deep and assembled entirely from extruded aluminum components. Blades and jambs shall be 0.081-inch (2 mm) thick aluminum, alloy 6105-T5 and the head and sill 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.

ALL-WELDED ASSEMBLY

Louvers shall be Florida Building Code and Miami-Dade Approved Products based upon tests conducted in accordance with Miami-Dade protocols TAS-201, TAS-202 and TAS-203 for use in open structure building envelope protection for single unit sizes up to 6-feet wide x 12-feet high. Testing shall be conducted for allowable wind forces up to 110 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.

STRUCTURAL DESIGN CRITERIA

Louvers shall be tested in accordance with Miami-Dade protocols TAS-201, TAS-202 and TAS-203 and approved for open structure building envelope protection for single unit sizes up to 72-inches wide x 144-inches high or 144-inches wide x 72-inches high for wet rooms. Louvers shall be tested for wind forces up to 110 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:	8.19 Square Feet (0.76 m ²)
MINIMUM FREE AREA VELOCITY	
at Beginning Point of Water Penetration:	1,036 fpm (5.26 m/s)
MINIMUM AIR VOLUME FLOW RATE	
at Beginning Point of Water Penetration:	8,485 cfm (4.00 m ³ /s)
MAXIMUM STATIC PRESSURE	
at Beginning Point of Water Penetration:	0.25 in. H ₂ O (0.06 kPa)