

K6744X - RECOMMENDED SPECIFICATION

GENERAL

Furnish and install where indicated on plans or described in schedules drainable Louver Type K6744X as designed and manufactured by The Airolite Company LLC, Marietta, Ohio. Louvers shall be Florida Building Code approved. 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 and water penetration ratings determined in accordance with AMCA Standard 500-L and licensed under the AMCA Certified Ratings Program. Include Florida Building Code Approval 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 drainable Louver Type K6744X with visible mullions and shall be Florida Building Code Approved. Louvers shall be 6-inches (152.4 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 stationary, incorporate drainable gutters and be spaced approximately 4-inches (101.6 mm) on center. Jamb frames shall incorporate drainable gutters to ensure resistance to water penetration.

ALL-WELDED ASSEMBLY

Louvers installed in the Wind-Borne Debris Region shall be assembled with fillet welds concealed from view unless the size of the louvers makes bolted connections between louver sections necessary. Louver blades shall be joined to each jamb frame with two fillet welds produced with the Pulsed Gas Metal Arc Welding (GMAW/Mig) process. Each weld shall be a minimum of 1-inch (25.4 mm) in length with a minimum 1/8-inch (3.18 mm) leg. Frames shall be joined at each corner with a full-length GMAW fillet weld with a minimum 1/8-inch (3.18 mm) throat. Louvers installed outside the Wind-Borne Debris Region shall be assembled with stainless steel sheet metal screws.

STRUCTURAL DESIGN CRITERIA

Louvers installed in the Wind-Borne Debris Region shall be tested and certified to comply with Miami-Dade protocols TAS-201, TAS-202 and TAS-203. Louvers installed outside the Wind-Borne Debris Region shall be tested and certified to comply with Miami-Dade 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.

PERFORMANCE RATINGS

FREE AREA:	8.98 Square Feet (0.84 m ²)
MINIMUM FREE AREA VELOCITY	
at Beginning Point of Water Penetration:	1,151 fpm (5.85 m/s)
MINIMUM AIR VOLUME FLOW RATE	
at Beginning Point of Water Penetration:	10,336 cfm (4.885 m ³ /s)
MAXIMUM STATIC PRESSURE	
at Beginning Point of Water Penetration:	0.20 in. H ₂ O (0.040 kPa)