

K8504 - RECOMMENDED SPECIFICATION

GENERAL

Furnish and install where indicated on plans or described in schedules combination drainable stationary and adjustable blade Louver Type K8504 as designed and manufactured by The AiroLite Company LLC, Schofield, Wisconsin. Louvers shall be furnished with bird screen, insect screen, electric or pneumatic actuators, supports 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. 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 combination type incorporating both drainable stationary and adjustable blades in a single frame. Louvers shall be 4-inches (101.6 mm) deep and assembled entirely from extruded aluminum. Blades and frames shall be 0.081-inch (2 mm) thick extruded aluminum, alloy 6063-T5. The stationary blades, louver head and jamb frames shall incorporate integral gutters to minimize water penetration. Stationary blades shall be positioned at 45-degrees and spaced 4.5-inches (114.3 mm) on center. Adjustable blades shall be fitted with pressure activated vinyl blade-edge gaskets and jamb seals to effectively minimize air leakage and water penetration when the adjustable blade is closed. The blade linkage assembly shall be exposed on the interior face of the louver.

STRUCTURAL DESIGN CRITERIA

Louvers and supports shall be designed and furnished by the manufacturer to withstand a wind force of not less than 25 pounds per square foot. Louvers larger than 84-inches (213 cm) wide x 120-inches (305 cm) high or 120-inches (305 cm) wide x 84-inches (213 cm) high will be fabricated and installed in multiples sections. Louver blades, frames, mullions and anchorages shall be demonstrated to withstand the specified wind design load.

PERFORMANCE RATINGS

FREE AREA:	7.60 Square Feet (0.71 m ²)
MINIMUM FREE AREA VELOCITY	
at Beginning Point of Water Penetration:	1,018 fpm (5.17 m/s)
MINIMUM AIR VOLUME FLOW RATE	
at Beginning Point of Water Penetration:	6,118 cfm (2.89 m ³ /s)
MAXIMUM STATIC PRESSURE	
at Beginning Point of Water Penetration:	0.11 in. H ₂ O (0.028 kPa)