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**K605/CB605 - RECOMMENDED SPECIFICATION****GENERAL**

Furnish and install where indicated on plans or described in schedules AiroLite Louver Type K605 as designed and manufactured by The AiroLite Company LLC, Schofield, Wisconsin. Louvers shall be furnished with bird screen, insect screen, 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. 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 and licensed under the AMCA Certified Ratings Program.

**PRODUCTS**

Louvers shall be sightproof and drainable Louver Type K605. 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**

Join stationary blade and frames and frame members with fillet welds concealed from view, unless the size of the louver makes bolted connections between louver sections necessary. Louver blades shall be joined to each jamb frame with a minimum of 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 (3.175 mm) leg. Frames shall be joined at each corner with a full-length GMAW fillet weld with a minimum 1/8-inch (3.175 mm) throat.

**STRUCTURAL DESIGN CRITERIA**

Manufacturer shall design and furnish all supports required to withstand a wind force of not less than 25 pounds per square foot. Louvers larger than 72-inches wide x 144-inches high or 144-inches wide x 72-inches high will be fabricated and installed in multiple sections. Louver blades, frames, mullions and anchorages shall be demonstrated to withstand the specified wind design load.

**PERFORMANCE RATINGS**

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| FREE AREA:                               | 8.19 Square Feet (0.76 m <sup>2</sup> ) |
| 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 <sup>3</sup> /s)      |
| MAXIMUM STATIC PRESSURE                  |   |
| at Beginning Point of Water Penetration: | 0.25 in. H <sub>2</sub> O (0.06 kPa)    |