

## **T9106X - RECOMMENDED SPECIFICATION**

### **GENERAL**

Furnish and install where indicated on plans or described in schedules acoustic Louver Type T9106X 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 acoustic Louver Type T9106X with visible mullions and shall be Florida Building Code Approved. Louvers shall be 6-inches (152.4 mm) deep and assembled entirely from fabricated aluminum components. Blades and frames shall be 0.081-inch (2 mm) thick aluminum, alloy 3003-H32. Parallelogram shape blades shall be positioned at 45-degrees and spaced 5-inches (127 mm) on center. Each blade and top and bottom frame cavity shall be filled with fiberglass acoustic insulation to absorb the transmission of sound. Acoustic insulation shall be held in place by perforated aluminum panels.

### **ALL-WELDED ASSMEBLY**

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:	4.89 Square Feet (0.45 m <sup>2</sup> )
MINIMUM FREE AREA VELOCITY	
at Beginning Point of Water Penetration:	799 fpm (4.059 m/s)
MINIMUM AIR VOLUME FLOW RATE	
at Beginning Point of Water Penetration:	3,907 cfm (1.84 m <sup>3</sup> /s)
MAXIMUM STATIC PRESSURE	
at Beginning Point of Water Penetration:	0.060 in. H <sub>2</sub> O (0.016 kPa)