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**STERGIS Windows and Doors, Inc.**  
**Series 700 SPECIFICATIONS**

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***Architects and Specifiers:***

The information below for the 700 Series Aluminum Thermal Fixed Window can be directly inserted into the appropriate paragraphs of the Specification Template to create a complete Section 08520 Window Specification.

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**PART 1 – GENERAL**

**SYSTEM DESCRIPTION**

- A. AAMA Designation: F-C100.
- B. Windows: 3-1/4” frame depth; extruded aluminum with integral structural polyurethane thermal break in the frame members; equal-leg frame; finish factory applied, frames factory-assembled.
- C. Configuration: fixed; glazing beads on interior; all glass in same exterior plane.
- D. Glazing: exterior tape; 7/8” insulating glass; interior PVC gasket in aluminum glazing bead; factory-glazed.

**PERFORMANCE REQUIREMENTS**

- A. Conformance to F-C100 specifications in AAMA/NWWDA 101/I.S. 2-97 when tests are performed on the prescribed 72” x 72” minimum test size with the following results:
  - 1. Air infiltration: maximum 0.1 cfm/sq. ft when tested per ASTM E 283 at a static air pressure difference of 6.24 psf.
  - 2. Water Resistance: no water leakage when tested per ASTM E 547 at a static air pressure difference of 12.0 psf.
  - 3. Uniform Load Structural: no glass breakage or permanent damage causing the unit to be inoperable, and maximum deformation .4% permanent deformation per member when tested per ASTM E 330 at a static air pressure difference of 150.0 psf.
  - 4. Forced Entry Resistance: No entry measured when tested per ASTM F 588 at Level 10.

## **PART 2 – PRODUCTS**

### **MANUFACTURERS**

- A. 700 Series Fixed Thermal Aluminum Window manufactured by **STERGIS** Windows and Doors, Attleboro, Ma 02703 508-455-0661

### **MATERIALS**

- A. Aluminum Extrusions: produced from commercial quality 6063-T5 alloy; free from defects impairing strength and durability. All main frame and sash members shall have a thermal break utilizing a high density, low thermal conductive material and shall structurally combine the inner and outer sections under normal conditions. Overall depth of frame shall be no less than 3-1/4". Frame extrusions shall have a minimum wall thickness of 0.063".
- B. Hardware: All fasteners, screws, rivets and other miscellaneous fastening devices shall be of aluminum, stainless steel, or other non-corrosive material compatible with aluminum. All exposed parts of hardware shall be of aluminum, stainless steel or zinc die casting with a barrel nickel plate in accordance with ASTM specifications A164-55 or A165-55.
- C. Glazing: At frames and vents all glazing legs shall be 7/8" high with serrations on inside surface. Glazing bead shall be extruded snap-in type no less than 0.050" and shall accommodate up to and including 1" glass, panels, or louvers.

### **FABRICATION**

- A. Frame: Corners of frame shall be closely fit, butt-jointed and tightly joined by mechanical means. Corners factory-sealed with sealant conforming to AAMA 803.3-85.

## FINISH ON ALUMINUM EXTRUSIONS

- A. Application: on clean extrusions free from serious blemishes; on exposed surfaces visible when installed product's operating sash are closed.
- B. Quality Standard: conforming to AAMA 603.8-92.
- C. Pretreatment: five-stage; zinc chromate conversion coating.
- D. Application Method: electrostatic spray and oven bake by approved applicator.
- E. Coating quantity: one color coat.
- F. Color: manufacturer's standard white.