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**STERGIS ALUMINUM PRODUCTS, INC.**  
**PROJECT OUT SPECIFICATIONS**

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***Architects and Specifiers:***

The information below for the AW6300 Aluminum Thermal Top Hinged Project-Out Window can be directly inserted into the appropriate paragraphs of the STERGIS Specification Template to create a complete Section 08520 Window Specification.

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**PART 1 – GENERAL**

**SYSTEM DESCRIPTION**

- A. AAMA Designation: P-HC90.
- B. Windows: 2” 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: Project-out-at-bottom; glazing beads on interior; all glass in same exterior plane.
- D. Glazing: exterior tape; 1” insulating glass; interior PVC gasket in aluminum glazing bead; factory-glazed.

**PERFORMANCE REQUIREMENTS**

- A. Conformance to P-HC90 specifications in AAMA/NWWDA 101/I.S. 2-97 when tests are performed on the prescribed 62” x 34” minimum test size with the following results:
  - 1. Air infiltration: maximum 0.01 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 13.50 psf.
  - 3. Uniform Load Structural: no glass breakage or permanent damage causing the unit to be inoperable, and maximum deformation of 0.4% of the span of any frame member when tested per ASTM E 330 at a static air pressure difference of 135.0 psf.

4. Forced Entry Resistance: No entry measured when tested per ASTM F 588 at Level 10.

## **PART 2 – PRODUCTS**

### **MANUFACTURERS**

- A. AW6300 Project-Out Thermal Aluminum Window manufactured by STERGIS ALUMINUM PRODUCTS, Inc., WALPOLE, MA, .

### **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 2". Main frame and sash frame extrusions shall have a minimum wall thickness of 0.125".
- B. Hardware: All projecting ventilators shall be provided with two four-bar, heavy-duty friction hinge assemblies securely fastened to the frame and vent members; and operating in a track provided with an adjustable nylon friction feature that conceal when closed. Standard locking hardware shall consist of cam locking handles cast of nickel bronze alloy and secured with stainless steel fasteners. All fasteners, screws, rivets and other miscellaneous fastening devices shall be of aluminum, stainless steel, or other non-corrosive material compatible with aluminum.
- 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 closely fitted, butt-jointed and tightly joined by mechanical means. Corners factory-sealed with sealant conforming to AAMA 803.3-85.
- B. Ventilator: Corners of ventilators shall be mitered and reinforced with extruded keys that are crimped into place. All joints shall be factory-sealed weathertight with a sealant conforming to AAMA 803.3-85.

## FINISH ON ALUMINUM EXTRUSIONS

\*\*Note: Enter the following for an AAMA 603.8-92 Standard Organic finish:

- 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, dark bronze, or Hartford green.

\*\*Note: Enter the following for an AAMA 607.1-77 clear anodized finish:

- A. Application: on clean extrusions free from serious blemishes; on exposed surfaces visible when installed product's operating sash are closed.
- B. Coating: clear anodized.
- C. Quality Standard: conforming to AAMA 607.1-77.
- D. Thickness: AAMA 10C22A41 Class I – 0.7 mils #215.

\*\*Note: Enter the following for an AAMA 608.1-77 color anodized finish:

- A. Application: on clean extrusions free from serious blemishes; on exposed surfaces visible when installed product's operating sash are closed.
- B. Coating: color anodized.
- C. Quality Standard: conforming to AAMA 608.1-77.
- D. Thickness: AAMA 10C22A44 Class I – 0.7 mils.
- E. Color: #313 dark bronze.