200T Window

SPECIFICATIONS

I. GENERAL

DESCRIPTION

Work Included: Furnish all necessary material, labor and equipment for the complete installation of aluminum windows as shown on the drawings and specified herein.

Work Not Included: Structural support of the windows, trim, panning, shims, and perimeter sealants.
(Specifier list other exclusions.)

Related Work Specifies Elsewhere: (Specifier List).

QUALITY ASSURANCE

Drawings and specifications are based upon the CMI 200T windows as manufactured by CMI Architectural Products, Inc. Whenever substitute products are to be considered, supporting technical literature, samples, drawings and performance data must be submitted ten (10) days prior to bid in order to make a valid comparison of the products involved. Test reports certified by an independent test laboratory must be made available upon request.

PERFORMANCE

All windows shall be rated in performance class **HC** and meet or exceed the minmum performance requirements as specified in accordance with ANSI/AAMA 101-93.

AIR INFILTRATION: Shall be tested in accordance with ASTM E 283. Air infiltration shall not exceed .03 CFM per square foot of ventilator or fixed lite area at 6.24 psf static air pressure difference.

WATER RESISTANCE: Shall be tested in accordance with ASTM E 331. No water penetration shall occur at a static air pressure difference of 6.00 PSF.

UNIFORM STRUCTURAL LOAD: Shall be tested in accordance with ASTM E 330. Center member deflections shall be measured at a negative and positive air pressure of 60 PSF held at 10 second intervals. No member shall deflect more than 1/75 of its span.

THERMAL PERFORMANCE: Shall be tested in accordance with ASTM C 236. The condensation resistance factor (CRF) shall not be less than 49. The conductive thermal transmittance (U-value) shall not be more than .43.

II. PRODUCTS

MATERIAL

Extrusions shall be 6063-T5 alloy and temper (ASTM B221 alloy G.S. 10A-T5). Fasteners used for assembly shall be stainless steel, aluminum or zinc plated steel in accordance with ASTM A 164. Perimeter anchors shall be aluminum or stainless steel. (Anchors are provided by the glazing contractor). Exterior glazing material shall be a butyl glazing tape, pre-shimmed with a synthetic rubber rod in accordance with AAMA 806-1. Interior gasket shall be a closed cell EPDM compression wedge in accordance with ASTM C864. Perimeter weather strip shall be two rows of a factory set EPDM bulb style gasket, uncut at frame corners in compliance with ASTM C864.

HARDWARE

HINGING HARDWARE (choose one):
Concealed hinges shall be heavy duty 4-bar stainless steel construction conforming to AAMA 904.1. HInges shall have a positive stop and an adjustable friction shoe. Butt hinges shall be half mortised cast white bronze construction.

Cam handle locks, locking handles, roto gear operators and strike housings shall be high-pressure zinc die-cast with a factory baked enamel paint finish. Mounting screws and internal strikes shall be stainless steel.

Specifier shall identify accessory hardware as required: i.e.; limit opening arms, friction arms, motorized operators, pole ring operators, custodial locks and multi-point locks.

FINISH

All exposed aluminum surfaces shall be free of scratches and other serious blemishes. All exposed surfaces shall be given a caustic etch followed by an anodic oxide treatment to obtain the following finish: (Specifier select).

An Architectural Class II clear anodic coating in accordance with the Aluminum Association Standard AA-M12 C22 A31 designated as #20 Clear. An Architectural Class I anodic coating with integral color in accordance with the Aluminum Association Standard AA-M12 C22 A44 designated as #33 Dark Bronze.

(Specifier note: Champagne, Lt. Bronze, Medium Bronze, and Black are available colors offered at a premium price.)

ORGANIC COATING: High performance fluorocarbon coatings in accordance with AAMA 605.2 specifications. Color as selected by Architect and offered at a premium price.

FABRICATION

All window frame and vent member assemblies shall be 2” in depth. All members shall be designed and assembled in a flush plane (no overlapping construction is allowed). Main frame and vent extrusion wall shall be .125” thick and .050” thick for glazing stops. Extrusions shall be tubular with corners mitered and mechanically staked around a solid aluminum corner clip. Corner miters shall be factory sealed to effect a permanent leak proof joint. Thermal barrier shall provide a minimum separation of 1/4” and shall consist of a two-part, chemically cured, high density polyurethane in accordance with AAMA TIR-A8-90. Insect Screens for operating sash shall have an extruded, tubular aluminum frame with a minimum wall thickness of .050”. Corners shall be mitered with a corner key and no exposed fasteners. Screen cloth shall be fiberglass mesh (standard) or aluminum (optional) and secured to the frame with a removable PVC spline.

III. EXECUTION

INSTALLATION

200T windows shall be installed, glazed and adjusted by experienced workmen in accordance with the manufacturer’s installation instructions and/or approved shop drawings.

CLEANING AND PROTECTION

After installation all metal surfaces shall be cleaned to remove mortar, plaster, paint or other contaminants. After cleaning, all work shall be protected against damage until it is accepted by the General Contractor. Thereafter, it shall be the responsibility of the General Contractor to maintain protection and provide final cleaning.

(NOTE: Product improvements may require specification changes without notice.)