

6600 Wall

SPECIFICATIONS

I. GENERAL

DESCRIPTION

Work included: Furnish all necessary material, labor and equipment for the complete installation of aluminum framing as shown on the drawings and specified herein. (Specifier Note: It is suggested that related items such as glass, sealants and entrances be included whenever possible.)

Work Not Included: Structural support of the framing system, interior closures, trim, metal sub-sills. (Specifier list other exclusions.)

Related Work Specifies Elsewhere: (Specifier List).

QUALITY ASSURANCE

Drawings and specifications are based upon the CMI 6600 Wall 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

AIR INFILTRATION: Shall be tested in accordance with ASTM E 283, air infiltration shall not exceed .06 CFM per square foot of fixed area at a test pressure of 6.24 P.S.F.

WATER INFILTRATION: Shall be tested in accordance with ASTM E 331, no uncontrolled water penetration at a test pressure of 15.0 P.S.F.

STRUCTURAL PERFORMANCE:

Shall be based upon maximum deflection of 1/175 of the span, and allowable stress safety factor of 1.5. The system shall perform to these criteria under a windload of _____ PSF (Architect to specify).

THERMAL PERFORMANCE: Shall be tested in accordance with ASTM C-236 and AAMA 1503-98.

The standard assembly shall have a maximum U-value of 0.48 and a minimum CRF of 68.

The ATS (Advanced Thermal System) assembly shall have a maximum U-value of .44 and a minimum CRF of 74.

II. PRODUCTS

MATERIALS

Extrusions shall be 6063-T5 alloy and temper (ASTM B221 alloy G.S. 10A-T5). Fasteners, where exposed, shall be aluminum or stainless in accordance with ASTM A 164-71. Perimeter anchors shall be aluminum or steel, providing the steel is properly isolated from the aluminum.

Mullion joinery shall be accomplished by the use of shear block joinery. Internal gutters shall be properly blocked and sealed to direct moisture accumulation to the exterior. All vertical and horizontal mullions shall have a dense neoprene thermal break located on the exterior side of the glass plane. Exterior glazing shall be dense E.P.D.M. contained by an aluminum pressure plate. Interior glazing shall be closed cell neoprene contained in a raceway of the main mullion profile. A cover shall be snapped over the pressure plate to show only a sharp, uninterrupted profile.

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, Black, Burgundy and many other colors are offered at a premium price.)

ORGANIC COATING: High performance fluorocarbon coatings in accordance with AAMA 2605. Color as selected by Architect and offered at a premium price.

FABRICATION

The framing system shall provide for a flush glazing appearance, with no projecting stops. Vertical and horizontal framing members shall have a nominal dimension of 2 1/2" x 6" / 8" / 10" (Specify). Overall depth of system will vary with design.

III. EXECUTION

INSTALLATION

Framing 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.)