SECTION 08 44 13 - GLAZED ALUMINUM CURTAIN WALLS

1.1 SECTION INCLUDES

A. Qualitative requirements for conventionally glazed curtain walls with metal framing members.

1.2 QUALITY ASSURANCE

A. Energy Performance: Glazed aluminum curtain walls shall have energy performance ratings per NFRC.

1. ***Thermal Requirements (Assembly): U-0.45, maximum (R-2.2 minimum) but shall not be less than value determined by Mechanical Engineer by "Building Modeling" in order to meet project's energy performance requirements.***
2. Air Leakage: Shall not exceed 0.06 cfm/ft^2 when tested at pressure of at least 1.57 pounds per square foot (psf) or higher in accordance with NFRC 400 or ASTM E283.
3. Warranty:

    a. Ten years for structural failure.
    b. Ten years: Finish per ASTM D 2244 (fading) and ASTM D 4214 (chalking).

4. Engage a qualified professional engineer to design glazed aluminum curtainwall. Design to:

    a. Withstand building movement.
    b. Wind loads.
    c. Deflection 1/175 at designed wind pressure.

1.3 GLAZED ALUMINUM CURTAIN WALLS

A. Primary Components: Extruded aluminum framing, internal reinforcement, trim, and filler units, sealants, and gaskets.

B. Glazing: Refer to Division 08, Section "Glazing".

C. Construction: Thermally Broken.

D. Glazing system: Retained mechanically with pressure caps and gaskets on 4 sides.

E. Glazing: Front Plane.

F. Factory Finish.

1.4.1 SUSTAINABLE DESIGN SUBMITTALS

A. Provide documentation supplied by the manufacturer regarding the product's sustainable characteristics. Such documents include, but are not limited to: EPDs, FSC Certifications, HPDs and VOC Emissions Certifications. The intent is to aid in the selection of more sustainable products and materials.

END OF SECTION