SECTION 084413

GLAZED ALUMINUM CURTAIN WALLS

PART 1 GENERAL

1.1 SUMMARY

A. Provide field-glazed glazed aluminum curtain walls.

1.2 SUBMITTALS

A. Product Data: Submit manufacturer's product data and installation instructions for each material and product used.

B. Shop Drawings: Submit shop drawings indicating material characteristics, details of construction, connections, and relationship with adjacent construction.

1. Shop drawings shall be stamped by a professional engineer licensed in the jurisdiction of the project, indicating compliance with wind loads indicated on the structural drawings.

C. Samples: Submit two representative samples of each finish. Include range samples if variation of finish is anticipated.

D. Warranty: Submit manufacturer's standard limited warranty against defects in manufacturing.

1.3 QUALITY ASSURANCE

A. Comply with governing codes and regulations. Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.

B. Mock-Ups: Provide mock-up as required by Architect to demonstrate quality of workmanship.

PART 2 PRODUCTS

2.1 MANUFACTURER

A. Glazed Aluminum Curtain Walls, Basis-of-Design: Oldcastle BuildingEnvelope Reliance TC and HTC or equal by EFCO or Kawneer North America.

1. Configuration: [Glazing captured 4-sides.] [2-sided structural glazing.] [4-sided structural glazing.]
2. Size: 2-1/2 inch face width, mullion and face cover depth as required.
3. Features: Thermal isolators, concealed shear block construction, concealed vents.
4. Performance Properties: As published in manufacturer's data sheets.
5. Insulating Glass, Prescriptive: U-0.24 Center-of-Glass, U-0.30 Assembly per NFRC 100
6. Insulating Glass, Optimized: U-0.10 Center-of-Glass, U-0.19 Assembly per NFRC 100
7. Aluminum Finish: [Clear anodized] [Color anodized] [Fluoropolymer, 70% resin, 2-coat] [Fluoropolymer, 70% resin, 3-coat] finish.

PART 3 EXECUTION

3.1 INSTALLATION

A. Comply with AAMA guide specification for curtain walls, and install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials and systems in proper relation with adjacent construction and with uniform appearance. Coordinate with work of other sections.

B. Tolerances: Not more than plus or minus 1/8 inch in 20 feet from true plumb, level, alignment, and location. Flush joints shall be within plus or minus 1/32 inch of true flush.

C. Anchor framing members securely in place; coordinate work with glass and glazing, sealants, and firestopping work specified elsewhere.

D. Restore damaged components and finishes. Clean and protect work from damage during construction.

END OF SECTION