SECTION 08410
ALUMINUM ENTRANCES AND STOREFRONTS

PART 1 - GENERAL

1.1 SUMMARY:

A. Section Includes:
   1. Aluminum storefront framing system including storefront used for framing at "punched" openings.
   2. Framing members and connecting components.
   3. Entrance doors and framing.

B. Related Sections:
   1. Section 05120 - Structural Steel.
   2. Section 07900 - Joint Sealers.
   4. Section 08710 - Finish Hardware.
   5. Section 08800 - Glazing.

1.2 SUBMITTALS:

A. Submit manufacturer's product data and installation instructions.

B. Submit shop drawings showing details and interfacing of framing along with glazing details.

C. Submit two 12" long sample sections of framing system with specified finish showing range of color variation.

D. Submit certificates showing system performance regarding withstanding thermal movements, deflections, air infiltration per ASTM E283, water penetration per ASTM E331, and condensation resistance factor (CRF) per AAMA 1503.

1.3 QUALITY ASSURANCE:

A. Manufacturer's Qualifications: Minimum five years experience in the manufacture of aluminum storefront framing systems of type specified for the project.

B. Installer Qualifications: Minimum five years experience in the installation of aluminum storefront framing systems of type specified for the project.

1.4 WARRANTY:

A. Installer shall furnish a written warranty to cover leaks, infiltration, and failure for a period of two years from the date of the Notice of Acceptance.
B. Warranty is to include specific reference to the storefront system's capability to withstand 30 psf wind load without failure.

PART 2 - PRODUCTS

2.1 MANUFACTURERS:

A. Kawneer.

B. Tubelite Architectural Products.

C. Approved substitute.

2.2 MATERIALS:

A. Provide aluminum extrusions of Alloy 6063-T5 complying with ASTM B221.

B. Storefront framing sections shall be of .080" minimum wall thickness with snap-on glazing moldings a minimum of .050" thick. Door framing sections shall be of .188" minimum wall thickness.

C. All screws, bolts, and other accessories shall be compatible with the aluminum under normal service conditions.

D. Thermal break system with a CRF of 50 or more.

E. Glass: See Section 08800 - Glazing. Provide 1" insulating units at all exterior locations, including doors. Provide 0.25" glass at interior locations and at vestibules.

F. Glazing Gaskets: Units containing no asbestos.

G. Hardware: Comply with Section 08710 requirements.

2.3 FABRICATION:

A. Storefront: "TriFab II 451T" as manufactured by Kawneer is specified to establish minimum level of quality.

B. Entrance Doors and Frames: "350 TUFFLINE" as manufactured by Kawneer is specified to established minimum level of quality.
C. Design Wind Load: Capable of withstanding a positive or negative pressure of 30 psf when tested in accordance with ASTM E330.

D. Framing members shall provide for flush glazing on all sides with through sight lines, with no projecting stops or face joints.

PART 3 - EXECUTION

Not Used.

END OF SECTION 08410