

SECTION 08410

ALUMINUM ENTRANCES AND STOREFRONTS

1 PART 1 GENERAL

1.1 DESCRIPTION

- A. Work included: Provide aluminum entrances and storefronts where shown on the Drawings, as specified herein, and as needed for a complete and proper installation.
- B. Related work:
 - 1. Documents affecting work of this Section include, but are not necessarily limited to, General Conditions, Supplementary Conditions, and Sections in Division 1 of these Specifications.
 - 2. Section 08710: Finish Hardware.
 - 3. Section 08800: Glazing.
 - 4. Section 16705 Electric Door Release

1.2 QUALITY ASSURANCE

- A. Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work in this Section.

1.3 SUBMITTALS

- A. Comply with pertinent provisions of Section 01340.
- B. Product data: Within 30 calendar days after the Contractor has received the Owner's notice to Proceed, submit:
 - 1. Materials list of items proposed to be provided under this Section;
 - 2. Manufacturer's specifications and other data needed to provide compliance with the specified requirements.
 - 3. Shop Drawings in sufficient detail to shown fabrication, installation, anchorage, and interface of the work of this Section with the work of adjacent trades;
 - 4. Manufacturer's recommended installation procedures which, when approved by the Architect, will become the basis for accepting or rejecting actual installation procedures used on the Work.

1.04 PRODUCT HANDLING

- A. Comply with pertinent provisions of Section 01001.

1.05 WARRANTY

- A. Upon completion of this portion of the Work, and as a condition of its acceptance, deliver to the Architect two copies of a written Warranty agreeing to replace work of this Section which fails due to defective materials or workmanship within three years after Date of

Substantial Completion as that Date is determined in accordance with the General Conditions.

- B. Failure due to defective materials or workmanship is deemed to include, but not to be limited to:
1. Failures in operation of component or components;
 2. Leakage or air infiltration in excess of the specified standard;
 3. Deterioration of finish to an extent visible to the unaided eye;
 4. Defects which contribute to unsightly appearance, potential safety hazard, or potential untimely failure of the work of this Section or the work as a whole.

2 PART 2 PRODUCTS

2.1 ALUMINUM ENTRANCES AND STOREFRONTS

- A. Provide and install glass, aluminum frames and related hardware as shown on architectural drawings. Storefront shall be "Tri-Fab 451" system as manufactured by Kawneer Company, Inc. or equal. Provide "TriFab 451T" thermally broken system within all exterior assemblies.
1. Interior Glazing: Glass shall be clear 1/4" thick glass.
 2. Exterior Glazing: Glass shall be 2 layers, 1" insulated glass.
Note: Safety Glass as required.
- B. Aluminum Frames:
1. Materials: Aluminum frame shall be extruded of 6063-T5 alloy. Fasteners shall be as per frame manufacturer.
 2. Finish: Finish shall be permanodic #40 dark bronze conforming to Aluminum Association standard AA-M12 A42 or finished to match existing window frames used elsewhere in the building.
- C. Entrance Doors:
1. Provide and install doors and related hardware as scheduled in section 08710.
 2. Doors shall be "Medium Stile 350" as manufactured by Kawneer Company, Inc. or equal.
 3. Finish: Finish shall be permanodic #40 dark bronze to match frames or to match other door and windows used elsewhere in the building.
 4. Glass: Glass shall be 1/4" tempered clear for interior doors and 5/8" tempered, insulating for exterior doors.
- D. Hardware:
1. Comply with pertinent provisions of Section 08710 - Finish Hardware.
 2. All lock cylinders for all doors shall be supplied as part of division 08710 – Finish Hardware. All remaining hardware components shall be furnished as part of the respective door assembly. Contractors providing doors conforming to the provisions of specification section 08410 shall provide the associated hardware for the respective door as indicated within the Door and Door Hardware Schedules included within the a latter portion of the project specification manual.

2.2 FABRICATION

- A. Fabricate in strict accordance with the manufacturers' specifications and Shop Drawings as approved by the Architect, prefabricating in the shop to the maximum extent practicable.
- B. Provide hairline fit at joints, with smooth continuity of line and accurate relation of planes and angles. Securely fasten.

3 PART 3 EXECUTION

3.1 SURFACE CONDITIONS

- A. Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory conditions are corrected.

3.2 COORDINATION

- A. Coordinate as required with other trades to assure proper and adequate provision in the work of those trades for interface with the work of this Section.
- B. Make measurements as required in the field to assure proper fit.

3.3 INSTALLATION

- A. Install the work of this Section in strict accordance with the original design, the approved Shop Drawings, pertinent requirements of governmental agencies having jurisdiction, and the manufacturer's recommended installation procedures as approved by the Architect, anchoring all components firmly into position for long life.
- B. Remove protective coating completely from exposed surfaces as soon as progress of the Work will permit with safety.
- C. When glazing is performed under this Section, provide the types of glass required and glaze in accordance with pertinent provisions of Section 08800 of these Specifications.

END OF SECTION