

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Exterior aluminum-framed storefronts.
 - 2. Exterior manual-swing aluminum doors.

1.2 SUBMITTALS

- A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of product indicated.
- B. Shop Drawings: For aluminum-framed systems. Include plans, elevations, sections, details, and attachments to other work.
 - 1. Include structural analysis data signed and sealed by the qualified professional engineer responsible for their preparation. *ARCHITECT OF RECORD SHALL BE RESPONSIBLE TO COORDINATE STRUCTURAL SUPPORT REQUIREMENTS FOR NON-STANDARD SYSTEM DESIGNS. THE STOREFRONTS SHALL NOT BE A DEFERRED SUBCONTRACTOR DESIGN-BUILD SYSTEM.*
 - 2. Include details of provisions for system expansion and contraction and for draining moisture occurring within the system to the exterior.
 - 3. For entrances, include hardware schedule and indicate operating hardware types, functions, quantities, and locations.
 - 4. Arrange for the manufacturer of the aluminum entrances and storefront system components to prepare the Shop Drawings on drawing sheets with the manufacturer's title block. Require the manufacturer to certify in writing on each drawing sheet that the drawing was prepared by the manufacturer.

1.3 WARRANTY

- A. Special Assembly Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of aluminum-framed systems that do not comply with requirements or that deteriorate as defined in this Section within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Structural failures including, but not limited to, excessive deflection.
 - b. Noise or vibration caused by thermal movements.
 - c. Deterioration of metals and other materials beyond normal weathering.
 - d. Water leakage through fixed glazing and framing areas.
 - e. Failure of operating components to function properly.
 - 2. Warranty Period: Five years from date of Notice of Completion.
- B. Special Finish Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components on which finishes fail within specified warranty period. Warranty does not include normal weathering.
 - 1. Warranty Period for Fluoropolymer Finish: 5 years from date of Notice of Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis-of-Design Product: The design for aluminum-framed systems is based on Vistawall Architectural Products. Subject to compliance with requirements, provide the named product or a comparable product by one of the following:
 - 1. Moduline Window Systems (basis-of design)
 - 2. Tubelite
 - 3. Kawneer
 - 4. Arcadia
 - 5. US Aluminum
 - 6. Or equal.

PART 3 - EXECUTION

3.1 GENERAL

- A. Install as required to maintain manufacturer's warranty.

3.2 ADJUSTING

- A. Entrances: Adjust operating hardware for smooth operation according to hardware manufacturers' written instructions and meet ADA codes.

3.3 FIELD QUALITY CONTROL

- A. Testing Agency: University will engage a qualified independent testing agency to perform testing indicated.
- B. Water Penetration: Test areas of installed system indicated on Drawings for compliance with system performance requirements according to ASTM E 1105 at minimum differential pressure of 20 percent of inward acting wind-load design pressure as defined by ASCE 7, "Minimum Design Loads for Buildings and Other Structures," but not less than 6.24 lb/sq. ft.
- C. Water Spray Test: After completing the installation of 75-feet-by-2-story minimum area of glazed aluminum curtain wall system, test system for water penetration according to AAMA 501.2 in a 2-bay area directed by Design/Builder.
- D. Repair or remove Work that does not meet requirements or that is damaged by testing; replace to conform to specified requirements.

END OF SECTION