

SECTION 083513 - FOLDING DOORS

PART 1 - GENERAL

1.1 STIPULATIONS

- A. The Specification Sections "General Conditions of Contract", "Special Conditions" and "Division 01 - General Requirements" form a part of this Section by this reference thereto, and shall have the same force and effect as if printed herewith in full.

1.2 SUMMARY

- A. Section Includes: Sliding/folding aluminum and glass door system, including aluminum frame, threshold, panels, sliding/folding and locking hardware, weather stripping, glass and glazing; designed to provide an opening glass wall, with sizes and configurations as shown on drawings.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: Include plans, elevations, sections, full-size details, and attachments to other work.
- C. Samples: For each exposed product and for each color and texture specified.

1.4 CLOSEOUT SUBMITTALS

- A. Maintenance data.

PART 2 - PRODUCTS

2.1 METAL BIFOLD DOORS

- A. Description: Folding aluminum and glass doors hinged together in pairs and supported on pivots at jamb, overhead track, and door guide pins.
- B. Basis-of-Design Products: Subject to compliance with requirements, provide Nanawall SL45, or one of the following comparable products:
 1. C. R. Laurence.
 2. Panda Windows and Doors.

2.2 MATERIALS

- A. Frame and Panels: From manufacturer's standard profiles, provide head track, side jambs, and panels with dimensions shown on Drawings.
- B. Panels:
 1. One lite, thermally broken.
 2. Standard bottom rail.
 3. Aluminum Extrusion: Extrusions with nominal thickness of .078 inch. Alloy specified as AlMgSi0.5 with strength rated as 6063-T5.
 4. Aluminum Finish: Custom, match Professional's samples.
 5. Glass: 1/4 inch laminated clear safety glass.
 6. Flat Handle Finish: Stainless steel in a brushed satin finish.
 7. Aluminum locking rods with fiber glass reinforced polyamide end caps at top and bottom.
 8. Sliding Hardware: Provide manufacturer's standard combination sliding and folding hardware with top, bottom tracks and threshold. All running carriages to be with sealed, self-lubrication, ball bearing multi-rollers.
 9. For each pair of folding panels provide cardanic, independently suspended, four wheeled coated with fiber glass reinforced polyamide upper running carriage and lower guide carriage.
 10. Weatherstripping: Provide manufacturer's standard double layer EPDM or brush seals with a two layer polyamide fin at both the inner and outer edge of door panels or on frame for sealing between panels and between panel and frame.

11. Threshold: Provide standard sill in the same finish as panel finish. Cover plate over the sill will not be allowed.
12. Provide manufacturer's standard flat handle on the inside and a lock set with a profile cylinder. Operation of lock set is by turn of key from the inside with a two point locking hardware operated by 180° turn of the handle.
13. Provide stainless steel screws for connecting frame components.

2.3 FABRICATION

- A. Use extruded aluminum frame and panel profiles with male-female interlocking, corner connectors and hinges, sliding and folding hardware, locking hardware and handles, glass and glazing and weather stripping as specified herein to make a folding glass wall. Factory pre-assemble and ship with all components and installation instructions.
- B. Sizes and Configurations: As indicated on Drawings.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. General: Install folding doors complying with manufacturer's written installation instructions. Install track in one piece.
- B. Adjust hardware for proper operation.

END OF SECTION 083513