

PART 1: GENERAL

1.01 Summary

A. Section includes:

Engineered 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 and specified herein, SUNFLEX SF 20, All Glass Multi-Track Sliding Window / Door System as supplied by SUNFLEX WALL SYSTEMS LP.

1.02 References

A. American Architectural Manufacturers Association (AAMA):

1. AAMA 611, Voluntary Specification for Anodized Architectural Aluminum.
2. AAMA 2603, Voluntary Specifications, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels.

B. American National Standards Institute (ANSI):

1. ANSI Z97.1, Safety Performance Specifications and Methods of Test for Safety Glazing Material Used In Buildings.

C. Consumer Product Safety Commission (CPSC):

1. CPSC 16CFR-1201, Safety Standard for Architectural Glazing Materials.

1.03 Submittals

A. Detail Drawings:

Indicate dimensioning, opening direction, configuration, typical head jamb, side jambs and sill details, type of glazing material, and handle height.

B. Product Data:

Manufacturer's literature including independently tested data listing performance criteria and Owner's Manual with installation instructions.

C. Contract Closeout Submittal:

Submit Owner's Manual from manufacturer. Identify with project name, location and completion date, type and size of unit installed.

1.04 Quality Assurance

A. Manufacturer: Provide complete, precision built, engineered, pre-fitted unit by a single source manufacturer with at least 30 years' experience in providing folding/sliding door systems for large openings worldwide.

B. Installer Qualifications: Installer experienced in the installation of manufacturer's products or other similar products for large openings. Installer to provide reference list of at least 3 projects of similar scale and complexity successfully completed in the last 3 years.

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1.05 DELIVERY, STORAGE, AND HANDLING

A. Packing, Shipping

Materials will be packed, loaded, shipped in accordance with AAMA CW-10.

B. Storage, Handling

Deliver materials to job site unopened cartons or crates. Protect units from damage. Store material dry under cover, protected from weather and construction activities.

1.06 Warranty

A. Manufactures Warranty

Provide manufacturer's standard limited warranty against defects in materials and workmanship.

PART 2: PRODUCTS

2.01 Manufacturers/Suppliers

A. SUNFLEX Wall Systems LP

4120 Enterprise Ave., #120

Naples, FL 34104

Toll Free: (800) 606-0756

Fax: (239) 384-9061

Email: info@sunflexwall.com

Website: www.sunflexwall.com

2.02 Materials

A. Frame and Panels:

From manufacturer's standard profiles, provide head track with height compensation profile, side jambs, and panels with dimensions shown on drawings.

1. **Sill:** Provide standard bottom rail [or silver anodized flush sill] .

2. **Aluminum Extrusion:**

Alloy specified as AlMgSi0.5 with strength rated as 6063-T5 or F-22 (European standard). Anodized conforming to AAMA 611 or powder coated conforming to AAMA 2603.

3. **Aluminum Finish:** Manufacturers Standard color RAL 9016

[or RAL9006] [or RAL9007] [or RAL8077]

[or clear anodized] [or bronze anodized] [custom anodized]

[or select from manufacturers range of RAL/NCS high or semi gloss or flat powder coat finishes available from manufacturer]

[or custom finish to match sample].

B. Glass:

1. All glass to comply with safety glazing requirements of ANSI Z97.1 and CPSC 16CFR 1201. Provide manufacturer's standard glass with dry glazing:

Single pane clear [or tinted] tempered 3/8" [or 3/8" laminated Low E]

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C. Locking Hardware and Handles:

1. Main operating panel:

Provide manufacturers standard lock with foot lever in panel profile underneath the glass
[or black PVC knob]
[or stainless steel knob]
[or transparent acrylic strive on glass [one or both sides]]
[or stainless steel C-pull handle both sides]

2. Handle height:

Provide manufacturers standard handle height center of the glass [or as specified].

D. System Hardware:

1. Provide manufacturers standard hardware with top guide track and bottom track. All running carriages to be with protected, maintenance free, height adjustable vertical ball bearings. Visible surface mounted hardware and running carriages will not be allowed.
2. For each sliding panel:
Provide independently suspended, vertical roller bottom loaded running carriages.
3. Sill: Non insulated raised sill in the same finish as panel finish [OR clear anodized flush sill].

2.03 FABRICATION

- A. Use extruded aluminum frame, panel profiles, sliding hardware, locking hardware, glass and glazing and weather stripping as specified herein to make an opening glass window wall. Factory pre-assemble as is standard for manufacturer and ship with all components and installation instructions.
- B. Sizes and Configurations: See drawings for selected custom dimensions within maximum frame sizes possible as indicated in manufacturer's literature. See drawings for selected number of panels and configuration. Inward [or outward] opening unit. On configurations with a pair of swing panels, looking from inside, primary swing panel on the left [or right]

PART 3 - EXECUTION

3.01 ERECTION

- A. Because of the large dimensions involved and the weight and movement of the panels, verify the structural integrity of the header such that the deflection with live load and dead loads is limited to the lesser of $L/720$ of the span and $1/4"$. Structural support for lateral loads (both wind load and eccentric load when the panels are stacked open) must be provided.
- B. Examine surfaces of openings and verify dimensions; verify rough openings are level, plumb and square with no unevenness, bowing, or bumps on the floor.
- C. Installation of units constitutes acceptance of existing conditions.

3.02 INSTALLATION

- A. Install frame in accordance with manufacturer's recommendations and installation instructions. Properly flash and waterproof around the perimeter of the opening.
- B. Installer to provide appropriate anchorage devices and to securely and rigidly fit frame in place, absolutely level, straight, plumb and square. Install frame in proper elevation, plane and location, and in proper alignment with other work.

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- C. If necessary, provide drain connections from lower track.
- D. Install panels, handles and lock set in accordance with manufacturer's recommendations and installation instructions.
- E. If necessary, adjust hardware for proper operation.

END OF SECTION

DISCLAIMER: SUNFLEX-Wall-Systems LP takes no responsibility for product selection or application, including, but not limited to, compliance with building codes, safety codes, laws, or fitness for a particular purpose. The guide specifications is not intended to be verbatim as a project specification without appropriate modifications for the specific use intended and the particular requirements of a specific construction project.