

**SECTION 08 51 13**  
**ALUMINUM WINDOWS / FIXED PANEL**

The Sliding Door Company's product combines fixed panels with operable sliding or swing doors to create a sophisticated system for partitions, room dividers, and office fronts. Ideal for green construction projects, the laminated glass and aluminum are recyclable. The systems are easily installed, designed to allow for natural light and even offer solutions to save energy and money. Visit any of our showrooms in North America to experience the range of design possibilities.

Documents related to our interior aluminum doors and frames are available at <https://www.slidingdoorco.com/for-trade/>.

**Drawing Coordination:**

Client provided layouts should include locations of doors and glazed lights, directions of operation, and sizes of openings in addition to surrounding structures. If formal shop drawings are required, they will be indicated on the estimate and order forms for each specific project.

**The Sliding Door Company, Inc.**

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**PART 1 - GENERAL**

**1.1 SUMMARY**

- A. Section includes glazed aluminum-framed panels and frames.
- B. Related Requirements:
  - 1. Section 08 11 16 - Interior Aluminum Doors and Frames.
- C. References:
  - 1. American Society for Testing and Materials (ASTM).
    - 1. ASTM B221, Aluminum 6063-T6 Standard Structural Profiles.
    - 2. ASTM C1048, Heat-Treated Flat Glass - Kind HS, Kind FT Coated and Uncoated Glass.
    - 3. ASTM C1172, Laminated Architectural Flat Glass.
    - 4. ASTM C1036, Standard Specification for Flat Glass.
  - 2. American Architectural Manufacturers Association (AAMA).
    - 1. AAMA 611, Anodized Architectural Aluminum.
  - 3. American National Standards Institute (ANSI).
    - 1. ANSI Z97.1-2009, Impact Class A.
  - 4. International Building Code 2018 (IBC 2018).
  - 5. U.S. Consumer Product Safety Commission (CPSC).
    - 1. CPSC 16 CFR 1201, Category II, Safety Standard for Architectural Glazing Materials.

## 1.2 ADMINISTRATIVE REQUIREMENTS

- A. Field-verify dimensions and clearances for openings scheduled to receive work of this Section.
- B. Scheduling:
  - 1. Ordering and Delivery: Order products with sufficient lead time to avoid delays in project schedule.
  - 2. Installation: To extent practical, install work after surrounding finish work is complete. (Last trade in)

## 1.3 ACTION SUBMITTALS

- A. Product Data: Include fabrication details, aluminum finishes, glass types, installation and operating instructions for each type of sliding door.
- B. Shop Drawings (If requested by the client, for a fee):
  - 1. Include plans, elevations, and details.
  - 2. Delegated Design Submittals: For installations not supported from above, provide drawings and calculations signed by an engineer, indicating components and connections, demonstrating compliance with applicable regulations.
- C. Samples for Verification:
  - 1. Extrusions: Approximately 8 inches long, showing finish.
  - 2. Glass: Approximately 3 inches square.
- D. Warranty: Submit sample of manufacturer's standard warranty.

## 1.4 CLOSEOUT SUBMITTALS

- A. Operation and maintenance data (If frosted glass is selected, please see specific cleaning details). Include Frosted Glass Warning.
- B. Executed warranty.

## 1.5 QUALITY ASSURANCE

- A. Installer: **[Approved by manufacturer or client provided installation company.] <Insert experience requirements.>** Retain paragraph below if required for projects with installations that are not attached to ceilings or other structure above. Coordinate with Action Submittal requirement for delegated design shop drawing submittal.
- B. Non-TSDC Installers: Client provided installers/Licensed in project jurisdiction.

## 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver products after space is enclosed and wet work is complete.
- B. Acceptance: Inspect packaging and report noticeable damage to manufacturer within 48 hours of receiving.

C. Storage: Store in original packaging, up to ten degrees from vertical, on level floor surface.

D. Handling: Handle in accordance with manufacturer's installation instructions and to prevent damage.

## 1.7 WARRANTY

A. See separate warranty document.

## **PART 2 - PRODUCTS**

### 2.1 MANUFACTURER

A. Manufacturer: **The Sliding Door Company, Inc.**

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B. The Sliding Door Company owns factory to field and can provide the full solution. (Providing complete system from single manufacturer.)

C. Substitutions:

1. Substitutions will not be considered.

2. Substitutions will be considered according to **[Instructions to Bidders.][Division 01 Requirements.]**

### 2.2 COMPONENTS

A. Framing, General:

1. Material: Aluminum extrusions, 6063 alloy.

2. Finish:

1. **[Clear Anodized Aluminum: AAMA 611, Class II.]**

2. **[Powder Coating: [White][Black][Charcoal][Champagne].]**

3. **[Simulated Wood (heat treated): [Wenge][Walnut ]pattern.]**

B. Beams and Columns: **[2 by 4 inches][4 by 4 inches][Size shown on Drawings]**, 0.102 inch minimum thickness.

C. Base Supports and Trims:

1. Base Support: 0.060 inch minimum metal thickness

2. Trims: 0.030 inch minimum metal thickness, 1.5 inch wide

D. Panels:

1. Stiles and Rails:

1. **[1.5 inch wide, 0.051 inch minimum thickness.]**

2. **[3 inch wide, 0.051 inch minimum thickness.]**

## 2. Mullions:

1. Built-In Mullions: **[1.5][3]** inch wide.

1) For use with Laminated Glass, we highly recommend a maximum of one Built-In mullion per panel.

2. Surface Applied Mullions: **[1.5 inch][3 inch]** wide.

## E. Glass: Category II Safety Glazing per CPSC 16 CFR 1201.

1. Monolithic Clear Tempered Glass: 5 mm thick, ASTM C1048, Kind FT.

1. **[Back Painting: [None][Milky][Deluxe White][Black].]**

2. Glazing Patterns:

**1) Frosted: Sandblasted and etched back.**

**2) Commercial Frosted Film: Poly(vinyl) chloride with bonded plasticizer.**

**3) “Combo”:**

a) Frosted and Clear: Partially sandblast and etch glass [to specified height above finished floor.][as shown on Drawings.]<Other Description]

b) Commercial Frosted Film and Clear: Apply Commercial Frosted Film to a partial section [to specified height above finished floor.][as shown on Drawings.]<Other Description]

**4) Waterfall: Reeded glass.**

**5) Smoked (Clear, Frosted, Milky)**

2. Laminated Glass: ASTM C1172, 7 mm thick with **[White][Opaque][Clear]** interlayer.

3. Mirror: **[Clear][Smoked]** annealed mirrored glass, ASTM C1036, with safety film backing.

## 2.3 FABRICATION AND ASSEMBLY

### A. Panel Design:

1. **[Solo: Single light.]**

2. **[Trio: Divided horizontally into three lights.]**

3. **[Quattro: Divided horizontally into four lights.]**

4. **[Pentagon: Divided horizontally into five lights.]**

5. **[Duo-T: Large center light with pairs of lights above and below.]**

6. **[Continental: Grid, four lights high by two lights wide.]**

B. Factory Assembly: Fabricate frame components and doors to finished sizes in factory [, **except provide field splicing at locations indicated in shop drawings to accommodate handling and access limitations**].

## 2.4 ACCESSORIES

A. Fasteners: As indicated in Shop Drawings.

## **PART 3 - EXECUTION**

### **3.1 EXAMINATION**

A. Verify that openings and substrates are acceptable for installation of work of this section.

### **3.2 INSTALLATION**

A. Install systems according to Shop Drawings and manufacturer's installation instructions.

### **3.3 ADJUSTING, CLEANING AND PROTECTION**

A. Adjust doors for smooth operation.

B. Comply with manufacturer's written recommendations for cleaning and maintenance.

C. Clean aluminum and glass surfaces immediately after installing sliding doors.

D. Protect surfaces from impact and from contact with contaminating substances resulting from other construction operations. Typically, this product is last trade in.

E. Clean immediately before Substantial Completion.

### **3.4 CLOSEOUT REQUIREMENTS**

A. Deliver executed Warranty.

**NOTE:** Client has full ownership for site conditions and readiness prior to The Sliding Door Company product being installed.

## **END OF SECTION**

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