

## SECTION 08 13 16

### SLIDING ALUMINUM DOORS

#### PART 1 GENERAL

##### 1.01 SUMMARY

- A. Section Includes: Manual sliding aluminum door and frame assemblies.
- B. Related Sections:
  - 1. Section 07 92 00 - Joint Sealants.
  - 2. Section 08 80 00 - Glazing.

##### 1.02 REFERENCE STANDARDS

- A. American Architectural Manufacturers Association/Window:
  - 1. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum.
- B. National Fire Protection Association:
  - 1. NFPA 101 - Code for Safety to Life from Fire in Buildings and Structures.

##### 1.03 DEFINITIONS

- A. SX Panel: Sliding panel that swings open upon pushing.
- B. SO Panel: Sidelight panel, normally stationary, that will swing open upon pushing.
- C. X Panel: Sliding panel in trackless telescoping doors, unable to swing.
- D. O Panel: Sidelight panel in trackless telescoping doors, unable to swing.

##### 1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
  - 1. Coordinate manual sliding aluminum door details with other work supporting or adjoining sliding aluminum door.
  - 2. Coordinate installation of glass and glazing in sliding aluminum door.
- B. [Preinstallation Meeting: ]
- C. [Sequencing:]
- D. [Scheduling:]

##### 1.05 [SUSTAINABLE CHARACTERISTICS]

- A. Section 01 35 63 - Sustainability Project Requirements: Requirements for sustainable design compliance.
- B. Materials and Resources Characteristics:
  - 1. [Recycled Content Materials: Furnish materials with maximum available recycled content including:

**SPEC NOTE** *List materials specified in this section required to have recycled content.*

- a. [\_\_\_\_\_.]
2. [Regional Materials: Furnish materials extracted, processed, and manufactured within 500 miles of Project site.]

**SPEC NOTE** *List materials specified in this section required to be regional materials.*

- a. [\_\_\_\_\_.]

#### 1.06 SUBMITTALS

- A. See Section 01 33 00 - Submittal Procedures.
- B. Product Data: Manufacturer's catalog data, detail sheets, and specifications.
- C. Shop Drawings:
  1. [Reference each sliding aluminum door and frame using Door Number and hardware group.]
  2. Show each opening indicating opening criteria, elevation, dimensions of doors and sidelights, details of construction, machining criteria for hardware, and interface with other products
- D. Samples: Only as requested.
- E. Certificates: Installer's certification that it meets requirements of this Section.
- F. Operating and Maintenance Data: Operating and maintenance instructions and parts lists.

#### 1.07 [SUSTAINABLE DESIGN SUBMITTALS]

- A. Section 01 35 63 - Sustainability Project Requirements: Requirements for sustainable design submittals.
- B. Manufacturer's Certificate: Certify products meet or exceed specified sustainable design requirements.
  1. Materials Resources Certificates:
    - a. Certify source and origin for [salvaged] [and] [reused] products.
    - b. Certify recycled material content for recycled content products.
    - c. Certify source for regional materials and distance from Project site.
- C. Product Cost Data: Submit cost of products to verify compliance with Project sustainable design requirements. Exclude cost of labor and equipment to install products.
  1. Provide cost data for the following products:
    - a. Salvage products.
    - b. Reused products/
    - c. Products with recycled material content.
    - d. Regional products.

#### 1.08 QUALITY ASSURANCE

- A. Installer Qualifications: Factory-trained, with minimum 3 years of experience.

#### 1.09 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, and handle sliding aluminum door to prevent damage or deformation.
- B. Prior to delivery to site, identify each sliding aluminum door with individual Door Number to permit installation at correct location.

- C. Pack prefinished sliding aluminum door individually in heavy polyethylene bags and then place in corrugated cardboard containers. Provide additional protection for corners and vertical edges.
- D. Deliver sliding aluminum doors and frames only after proper facilities are available. Provide clean, dry surfaces or platforms as required, and protect from deterioration and foreign matter.
- E. Storage and Protection:
  - 1. Store delivered sliding aluminum doors and frames in clean, safe, dry area.
  - 2. Do not store on ground.
  - 3. Place sliding aluminum doors and frames on at least 4 inch high wood sills or in manner that will prevent rust or damage.
  - 4. Avoid use of non-vented plastic or canvas shelters that can create a humidity chamber.
  - 5. Immediately remove wrappers that become wet.

## **PART 2 PRODUCTS**

### **2.01 MANUFACTURERS**

- A. Aluminum Sliding Doors:
  - 1. Stanley Access Technologies.
  - 2. Besam Inc.
  - 3. Horton Automatics.
  - 4. or equal.
- B. Provide manual sliding aluminum door assemblies from a single manufacturer.

### **2.02 MANUAL SLIDING ALUMINUM DOOR AND FRAME ASSEMBLY**

- A. Description:
  - 1. Assembly to be trackless.
  - 2. Number of leaves as indicated on Drawings.
  - 3. Sidelights, Headers and Trim: Extruded aluminum alloy 6063-T5, nominal 0.125 inch wall thickness.
  - 4. Door and Sidelight Construction: Heavy-duty interlocked sections, through-rod bolted construction; steel corner support at hinge stile of carrier-suspended SX panels to reduce sag in sliding or breakout mode.
    - a. Combination Support Guide: SX panel.
    - b. Roller Assembly: SO sidelight panel.
    - c. Glass Jacking Screw Assembly: SO sidelight panel.
  - 5. Door Hanger Brackets: Nylon wheels with hardened steel bearings.
  - 6. Glazing Stops: 5/8 inch high.
  - 7. Pivot Base Plate: Under each SO sidelight panel.
  - 8. Headers: 2-1/2 inches high, 4-1/2 inches wide with extruded aluminum stop bar mounted to underside in door opening to prevent SX panel from swinging until slid back to full position.
    - a. Built-in anti-riser system.
  - 9. Hardware: Door handles, recessed door pulls, and other hardware required for normal and emergency egress operation per NFPA 101.
    - a. Door handles and pulls to meet ADA requirements.
    - b. Emergency Egress: Flush bolt in SO panel releasable after SX panel is in full open position past aluminum stop bar, allowing 90 degree swing of both panels as a single unit under minimum pressure.
- B. Product: Stanley Access Technologies' "7000 ICU Series Doors"; or equal.

### **2.03 FABRICATION**

- A. Preparation:
  - 1. Verify frame details; obtain reviewed hardware schedule, templates, and other information.
  - 2. Verify size and design of each opening.
- B. Make adequate provisions for attachment of hardware.
- C. Conceal fastenings wherever possible.
- D. Do not label exposed portions with trade or manufacturer's name.

### **2.04 FINISHES**

- A. Aluminum: Clear-anodized same as AAMA 611 M21C22A41.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify that manual aluminum sliding door and frame openings are plumb, square, and ready for installation of manual aluminum sliding doors and frames.
- B. Verify opening sizes and tolerances are acceptable.
- C. Do not start work until unsatisfactory conditions are corrected.

### **3.02 INSTALLATION**

- A. Install manual sliding glass doors, frames, hardware, and accessories in accordance with manufacturer's instructions.
- B. Install doors plumb and square.

### **3.03 ADJUST AND CLEAN**

- A. Adjust manual aluminum sliding doors for smooth, balanced, and proper operation, without binding or scraping and without excessive noise.

**END OF SECTION**