

**SECTION 08 56 19**  
**PASS WINDOWS**

SPEC WRITER NOTE: Delete text between  
// \_\_\_\_\_ // not applicable to project.  
Edit remaining text to suit project.

**PART 1 - GENERAL**

**1.1 SUMMARY**

A. Section Includes:

1. Factory finished sliding glass, counter mounted pass windows.

**1.2 RELATED REQUIREMENTS**

SPEC WRITER NOTE: Update and retain  
references only when specified elsewhere  
in this section.

- A. Window Finish Color: Section 09 06 00, SCHEDULE FOR FINISHES.
- B. Countertop Construction: Section 09 20 00, FINISH CARPENTRY.
- C. Pass Window Closure: Section 08 33 13, COILING COUNTER DOORS.
- D. Glass and Glazing: Section 08 80 00, GLAZING.

**1.3 APPLICABLE PUBLICATIONS**

A. Comply with references to extent specified in this section.

B. ASTM International (ASTM):

1. B221-14 - Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
2. B221M-13 - Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric).
3. C509-06(2011) - Elastomeric Cellular Preformed Gasket and Sealing Material.
4. D1187/D1187M-97(2011)e1 - Asphalt-Base Emulsions for Use as Protective Coatings for Metal.

C. American Society of Mechanical Engineers (ASME):

1. B18.6.4-98(R2005) - Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws inch.

D. National Association of Architectural Metal Manufacturers (NAAMM):

1. AMP 500-06 - Metal Finishes Manual.

**1.4 SUBMITTALS**

- A. Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.

- B. Submittal Drawings:
  - 1. Show size, configuration, and fabrication and installation details.
- C. Manufacturer's Literature and Data:
  - 1. Description of each product.
  - 2. Installation instructions.
- D. Samples:
  - 1. Exposed Finishes: 50 by 100 mm (2 by 4 inches), each type and color.
- E. Sustainable Construction Submittals:

SPEC WRITER NOTE: Retain sustainable construction submittals appropriate to product.

- 1. Recycled Content: Identify post-consumer and pre-consumer recycled content percentage by weight.

**1.5 DELIVERY**

- A. Deliver products in manufacturer's original sealed packaging.
- B. Mark packaging, legibly. Indicate manufacturer's name or brand, type, color, and manufacture date.
- C. Before installation, return or dispose of products within distorted, damaged, or opened packaging.

**1.6 STORAGE AND HANDLING**

- A. Store products indoors in dry, weathertight // conditioned // facility.
- B. Protect products from damage during handling and construction operations.

**1.7 WARRANTY**

SPEC WRITER NOTE: Always retain construction warranty. FAR includes Contractor's one year labor and material warranty.

- A. Construction Warranty: FAR clause 52.246-21, "Warranty of Construction."

SPEC WRITER NOTE: Specify extended manufacturer's warranties for materials only.

- B. Manufacturer's Warranty: Warrant pass window units against material and manufacturing defects.

SPEC WRITER NOTE: Specify customarily available warranty period for specified products.

1. Warranty Period: // Two // years.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. Aluminum Extrusions:
1. ASTM B221M (ASTM B221).
  2. Alloy and temper recommended by window manufacturer for strength, corrosion resistance, and application of required finish, but minimum 150 MPa (22,000 psi) ultimate tensile strength, and yield of 110 MPa (16,000 psi).
  3. Aluminum alloy used for colored anodic coating as required to produce specified color.
- B. Glazing Gaskets: ASTM C509.

**2.2 PRODUCTS - GENERAL**

- A. Basis of Design: Section 09 06 00, SCHEDULE FOR FINISHES.
- B. Provide each product from one manufacturer.
- C. Sustainable Construction Requirements:

SPEC WRITER NOTES:

1. Specify products containing greatest recycled content practicable to maximize material recovery. See EPA Comprehensive Procurement Guidelines (CPG) for guidance about individual products and available recycled content. Section 01 81 13 sets overall project recycled content requirements.
2. Aluminum Association (AA) reports 2008 industry average 85 percent recycled content for aluminum in building construction industry.

1. Aluminum Recycled Content: 80 total recycled content, minimum.

**2.3 PASS WINDOWS**

- A. Pass Window Units: Factory fabricated and assembled, glazed unit; horizontal sliding type.
1. Frame: Extruded aluminum.
  2. Sash: Extruded aluminum.
  3. Glass: Safety type specified in Section 08 80 00, GLAZING.

4. Hardware: Manufacturer's standard track, rollers, guides, lock, and keys.

#### 2.4 FABRICATION

- A. Fabricate sliding glass sash and frames of extruded aluminum with corners mitered.
- B. Fabricate sash to receive 6 mm (1/4 inch) thick glass.
- C. Fabricate sliding sash of "H" channel molding at bottom edges including concealed nylon rollers at bottom set on track and guides at top set into track.
- D. Provide sash with pin tumbler lock and two keys.
- E. Provide sash with surface-mounted pull.
- F. Fabricate frame with channel sash slot, bottom roller track, and top guides.
- G. Factory glaze sash using glazing gaskets.
- H. Use concealed fasteners for assembly.

#### 2.5 FINISHES

- A. Aluminum Anodized Finish: NAAMM AMP 500.
  - 1. Clear Anodized Finish: AA-C22A41; Class I Architectural, 0.018 mm (0.7 mil) thick.
  - 2. Color Anodized Finish: AA-C22A42 or AA-C22A44; Class I Architectural, 0.018 mm (0.7 mil) thick.

#### 2.6 ACCESSORIES

SPEC WRITER NOTE: Retain barrier coating to separate dissimilar metals and to separate metals from cementitious materials.

- A. Barrier Coating: ASTM D1187/D1187M.
- B. Fasteners: ASME B18.6.4, stainless steel.

### PART 3 - EXECUTION

#### 3.1 PREPARATION

- A. Examine and verify substrate suitability for product installation.
  - 1. Verify rough opening is properly sized and located.
- B. Protect existing construction and completed work from damage.
- C. Apply barrier coating to aluminum surfaces in contact with // dissimilar metals // and cementitious materials // to minimum 0.7 mm (30 mils) dry film thickness.

**3.2 INSTALLATION - PASS WINDOWS**

- A. Install products according to manufacturer's instructions // and approved submittal drawings //.
- B. Install pass window units level and plumb according to manufacturer's installation instructions and approved submittal drawings.
  - 1. When manufacturer's instructions deviate from specifications, submit proposed resolution for Contracting Officer's Representative consideration.
- C. Secure window with fasteners.
  - 1. Install fasteners within 100 mm (4 inches) of ends.
  - 2. Space fasteners maximum 600 mm (24 inches) on center.
- D. Separate aluminum from sources of corrosion with one coat of ASTM D1187/D1187M at points of contact with other materials.
- E. Adjust pass windows to roll smoothly and stay in position where stopped.
- F. Tag keys to identify associated pass window. Deliver keys to Contracting Officer's Representative.

**3.3 CLEANING**

- A. Clean exposed window unit surfaces. Remove temporary labels, contaminants, and stains.

**3.4 PROTECTION**

- A. Protect pass window units from construction operations.
- B. Remove protective materials immediately before acceptance.
- C. Repair damage.
  - 1. Replace glass that has been broken, chipped, cracked, or damaged during construction period.

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