

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

**PART 1 - GENERAL****1.1 DESCRIPTION**

- A. This section specifies sliding glass counter mounted pass windows and glazed secure vision panels,

**1.2 RELATED WORK**

- A. Color of factory finish: Section 09 06 00, SCHEDULE FOR FINISHES.  
 B. Glass and Glazing: Section 08 80 00, GLAZING.  
 C. Painting of hollow metal frames: Section 09 91 00 PAINTING.

**1.3 APPLICABLE PUBLICATIONS**

- A. Publications listed below form a part of this specification to extend referenced. Publications are referenced in text by basic designation only.
- B. American Society for Testing and Materials (ASTM):  
 B221/221M-06.....Aluminum and Aluminum- Alloy Extruded Bars, Rods, Wire, Shapes and Tubes (Metric)  
 C509-06.....Elastomeric Cellular Preformed Gasket and Sealing Material  
 ASTM C1036.....Standard Specification for glass
- C. American Society of Mechanical Engineers (ASME):  
 B18.6.4-98(R2005).....Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws
- D. Master Painters Institute (MPI):  
 MPI #18.....Organic Zinc Rich Coating
- E. National Association of Architectural Metal Manufacturers (NAAMM):  
 AMP 500 Series.....Metal Finishes Manual  
 AMP 500.....Introduction to Metal Finishing  
 AMP 501.....Finishes for Aluminum

**1.4 SUBMITTALS**

- A. General: For each window assembly, submit the following in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA AND SAMPLES.
1. Product data for manufactured/fabricated metal window units and sub-frames. Include standard details and specifications for metals and alloys, fasteners, welding, applied finishes, hardware, and accessories. Include producer's detailed instructions for assembly, protection, installation, and maintenance.

2. Shop drawings showing dimensioned details of metal window units. Show application of intended glazing materials. Show typical window unit interior and exterior elevations at not less than  $\frac{3}{4}$ "=1'-0" (1:20) scale. Indicate how window units, not necessarily including basic sub-frames, are to be subsequently removed/replaced; and how glazing unit removal/replacement is to be accomplished. After final modifications and corrections have been incorporated, submit drawings as AutoCAD files with .DWG extension:
  - a. Details: Show sections at 3"=1'-0" (1:5) scale of members indicating construction, size, and thickness of components, together with connections, fastenings, and means of separating dissimilar metals.

## **PART 2 - PRODUCTS**

### **2.1 MATERIAL**

#### A. Aluminum Extrusions:

1. ASTM B 221 M.
2. Alloy and temper recommended by window manufacturer for strength, corrosion resistance, and application of required finish, but not less than 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 C 509.

### **2.1 SLIDING GLASS PASS WINDOWS, COUNTER MOUNTED**

- 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 finger slot on vertical edge.
- F. Fabricate frame with channel sash slot, bottom roller track, and top guides.
- G. Sash may be factory or field glazed using glazing gaskets.
- H. Use concealed screws in assembly.
- I. Finish:

1. Comply with NAAMM AMP 500 Series.
2. Clear anodic coating, Class II Architectural 0.4 mills thick, AA-C22A41.

## **2.2 SWITCH OPERATED PRIVACY GLASS VISION PANELS:**

- A. Size: Panels are all-in-one triple glazed panels.
  1. Laser Polymer.
    - a. Safety Glass: 3/4 inch (19 mm) laminated glass.
- B. Opacity/Glass Patterns: as selected by architect from manufacturer's standard patterns to include:
  1. Natural sandblasted lines.
  2. Black screened bands.
  3. White screened bands.
- C. Installation Kits:
  1. Hollow Metal Lite Kit
- D. Special Features:
  1. Single-sided lever handle
  2. Tamper Resistant Screws

## **PART 3 - EXECUTION**

### **3.1 INSTALLATION**

- A. Install in pass window opening level and plumb.
- B. Secure with screws to opening; ASME B18.6.4.
  1. Screw within 100 mm (4 inches) of ends.
  2. Space screws not over 600 mm (24 inches) between end screws.
- C. Clean unit of dust and markings.

### **3.2 OPERATION**

- A. Adjust to roll smoothly and stay in position where stopped.
- B. Demonstrate to Resident Engineer operation and locking.
- C. Turn keys with key tags over to Resident Engineers.

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