

SECTION 08 1116
ALUMINUM DOORS AND FRAMES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Flush aluminum doors with aluminum faces.
- B. Glazed interior aluminum doors.
- C. Aluminum door frames for doors specified in this section.

1.02 RELATED REQUIREMENTS

- A. Section 08 8000 - Glazing: Glazing materials for aluminum doors and frames.

1.03 REFERENCE STANDARDS

- A. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum; 2012.
- B. AAMA 701/702 - Combined Voluntary Specifications for Pile Weatherstrip and Replaceable Fenestration Weatherseals; 2011.
- C. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2015.

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Include elevations of each opening type.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum five years of documented experience.
- B. Installer Qualifications: Company specializing in performing work of type specified and with at least three years of documented experience.

1.06 WARRANTY

- A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.
- B. Correct defective Work within a five year period after Date of Substantial Completion.
- C. Provide ten year manufacturer warranty for defects in workmanship and materials.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Glazed Interior Aluminum Doors:
 - 1. Wilson Partitions: www.wilsonpart.com.

2.02 DOORS AND FRAMES

- A. Flush Doors with Aluminum Faces: Aluminum internal framing and faces; no steel components.
 - 1. Thickness: 1-3/4 inches, nominal.
 - 2. Finish: Natural anodized.
 - 3. Weatherstripping: Replaceable pile type; at jambs and head of exterior doors.
- B. Glazed Aluminum Doors: Extruded aluminum tube frame, full glazed, with middle rail; factory glazed.
 - 1. Thickness: 1-3/4 inches, nominal.
 - 2. Stile Width: 4 inches, nominal.
 - 3. Finish: Natural anodized.
 - 4. Glazing: As specified in Section 08 8000.
- C. Door, Sidelight, and Transom Frames: Extruded aluminum hollow or C-shaped sections; no steel components.
 - 1. Frame Depth: To fit wall thicknesses indicated.

2. Finish: Same as doors.
 3. Weatherstripping: Replaceable pile type; at jambs and head.
- D. Dimensions and Shapes: As indicated on drawings; dimensions shown are nominal.
1. Provide vision lites where indicated.
 2. Provide clearances as follows:
 - a. Hinge and Lock Stiles: 0.125 inch.
 - b. Between Meeting Stiles: 0.25 inch.
 - c. At Top Rail and Bottom Rail: 0.125 inch.

2.03 COMPONENTS

- A. Flush Door Panels: Without visible seams on face.
1. Framing and Hardware Backup: Extruded aluminum tubing, 0.125 inch minimum thickness.
 2. Top, Side, and Bottom Edges: Extruded aluminum cap.
 3. Laminating Adhesive: Manufacturer's standard low-VOC materials.
- B. Tubular Doors: Extruded aluminum tubing, 0.125 inch minimum thickness, with heavy-duty plated steel through bolts in rails, glazing stops, and glazing gaskets.
- C. Frames: Extruded aluminum shapes, not less than 0.062 inch thick, reinforced at hinge and strike locations.
1. Corner Brackets: Extruded aluminum, fastened with stainless steel screws.
 2. Trim: Extruded aluminum, not less than 0.062 inch thick, removable snap-in type without exposed fasteners.
- D. Vision Lites: Extruded aluminum framed, gasket glazed.
1. Glazing: As specified in Section 08 8000.

2.04 FINISHES

- A. Natural Anodized Finish: Clear anodic coating; AAMA 611 AA-M12C22A31 Class II, minimum thickness 0.4 mil.

2.05 ACCESSORIES

- A. Replaceable Weatherstripping: AAMA 701/702 wool pile.
- B. Fasteners: Aluminum, non-magnetic stainless steel, or other material warranted by manufacturer as non-corrosive and compatible with aluminum components.
- C. Brackets and Reinforcements: Manufacturer's high-strength aluminum units where feasible, otherwise, non-magnetic stainless steel or steel hot-dip galvanized in compliance with ASTM A123/A123M.
- D. Bituminous Coating: Cold-applied asphaltic mastic, compounded for 30-mil thickness per coat.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that wall surfaces and openings are ready to receive frames and are within tolerances specified in manufacturer's instructions.
- B. Verify that frames installed by other trades for installation of doors of this section are in strict accordance with recommendations and approved shop drawings and within tolerances specified in manufacturer's instructions.

3.02 INSTALLATION

- A. Install doors and frames in accordance with manufacturer's instructions and approved shop drawings.
- B. Set frames plumb, square, level, and aligned to receive doors. Anchor frames to adjacent construction in strict accordance with manufacturer's recommendations and within specified tolerances.

- C. Where aluminum surfaces contact metals other than stainless steel, zinc, or small areas of white bronze, protect from direct contact by painting dissimilar metal with heavy coating of bituminous paint.
- D. Hang doors and adjust hardware to achieve specified clearances and proper door operation.
- E. Comply with glazing installation requirements of Section 08 8000.

3.03 PROTECTION

- A. Protect products of this section from damage caused by subsequent construction until Date of Substantial Completion.
- B. Replace damaged or defective components that cannot be repaired to a condition indistinguishable from undamaged components.

END OF SECTION 08 1116

