

SECTION 08120
INTERIOR ALUMINUM DOORS, DOOR FRAMES, AND GLAZING FRAMES

PART 1 GENERAL

1.1 Summary

- A. Section includes:
 - 1. Pre-finished aluminum door frames for interior use.
 - 2. Pre-finished aluminum window frames for interior use.
 - 3. Pre-finished aluminum framing systems for interior use.
 - 4. Pre-finished aluminum and glass doors for interior use.
- B. Related sections:
 - 1. Section 08211 – Flush wood doors.
 - 2. Section 08410 – Aluminum entrances and storefronts.
 - 3. Section 08520 – Aluminum windows.
 - 4. Section 08710 – Door hardware.
 - 5. Section 08800 – Glass and glazing.

1.2 Submittals

- A. Submit under provisions of Section 01300.
- B. Product data: Manufacturer's fabrication and installation instructions.
 - 1. Include information on factory finish, glazing gaskets, accessories and other required components.
- C. Shop drawings: Submit schedule indicating opening numbers, frame types, dimensions, swings and hardware requirements.
- D. Include elevations and details indicating frame types, profiles, conditions at openings, methods and locations of anchoring, glazing requirements, hardware locations and reinforcements for hardware.
- E. Samples: Submit the following:
 - 1. Full range of manufacturer's standard finishes for the Architect's selection.
 - 2. Where normal color variations are expected, include additional samples to show range of such variation.
- F. Instructions: Provide copies of manufacturer's data for fabrication and installation of aluminum door frames.

1.3 Quality Assurance

- A. Single Source Responsibility: Provide aluminum frames, aluminum and glass doors and accessories produced by a single manufacturer for each type of product indicated.
- B. Manufacturer's qualifications: Company specializing in the manufacturing of door frame systems with a minimum of 10 years of documented experience on a comparable sized project.
- C. Fire and smoke rated assemblies:
 - 1. In locations where fire rated openings are scheduled or required by regulatory agencies, provide fire rated aluminum frames that have been tested and certified for specified exposure by an agency acceptable to governing authorities.
 - 2. Provide labels permanently fastened on each fire rated frame that are within size limits established by NFPA and the testing authority.
 - A. Provide 20 minute labels.
 - B. Provide 90 minute labels.

1.4 Delivery, Storage and Handling

- A. Deliver frames and doors cartoned to provide protection during transit and storage at project site.
- B. Inspect frames and doors upon delivery for damage.
 - 1. Repair minor damage to pre-finished products by means as recommended by the manufacturer.
 - 2. Replace frames that cannot be satisfactorily repaired.
- C. Store frames at the project site under cover and as near as possible to the final installation location. Do not use covering material that will cause discoloration of aluminum finish.

1.5 Environmental Requirements

- A. Do not begin installation of the frames or doors until the area of work has been completely enclosed and the interior is protected from the elements.
- B. Maintain temperature and humidity in areas of installation within reasonable limits, as close as possible to final occupancy. If necessary, provide temperature control and ventilation to maintain required environmental conditions.

1.6 Warranty

- A. Warrant against defects in manufacturing of materials for a period of 2 years from date of substantial completion.
- B. Warrant framing finish against defects, including cracking, flaking, blistering, peeling and excessive fading, chalking and non-uniformity in color for a period of 5 years.

PART 2 PRODUCTS

2.1 Acceptable Manufacturers and Products

- A. Provide products manufactured by:
 - 1. **Wilson Partitions**
2301 E. Vernon Ave.
Vernon, CA 90058
(800) 997-7533
(323) 261-9927 Fax.
www.wilsonpart.com
 - 2. **Wilson Partitions**
60 Bonner St.
Stamford, CT 06902
(203) 316-8033
(203) 316-0019 Fax
www.wilsonpart.com
- B. Substitutions: Comply with provisions of Section 01600 for substitution requests.

2.2 Materials

- A. Aluminum: Controlled alloy billets meeting requirements of ASTM B221, 6063 T5 alloy, to assure compliance with tight dimensional tolerances and maintain color uniformity.

2.3 Extruded Aluminum Frames

- A. **Snap-On Trim Profile:** Provide frames with the following characteristics:
 - 1. Rectilinear design.
 - 2. Trim: 1", 1-1/4", 1-1/2", 2", 3", 4" and 6".
 - 3. Series 375: 3-3/4" throat.

4. Series 487: 4-7/8" throat.
5. Series 525: 5-1/4" throat.
6. Series 725: 7-1/4" throat.
7. Series 200: expandable throat from 3" up to 9-1/2".
8. Accepts 1/4" and 3/8" Glass.

2.4 Fabrication

- A. Pre-machine jambs and prepare for hardware, with concealed reinforcement plates, drilled and tapped as required, and fastened within the frame.
- B. Provide corner reinforcements and alignment clips for precise butt or mitered connections.
- C. Fabricate all components to allow secure installation without exposed fasteners.
- D. Manufacturer shall pre-cut and ship all frame materials knock-down.

2.5 Finishes

- A. Factory finish extruded frame components so that any part exposed to view upon completion of installation will be uniform in finish and color.
- B. Clear Anodic Coating (AC-2): Comply with AAMA 611.
 1. Commercial, AAM12C22A21 anodized coating, less than .04 mil minimum thick.
- C. Light Champagne Anodic Coating (AB-1), Champagne Anodic Coating (AB-2), Light Bronze Anodic Coating (AB-3), Medium Bronze Anodic Coating (AB-4), Standard Medium Bronze Anodic Coating (AB-5), Dark Bronze Anodic Coating (AB-6), Standard Dark Bronze Anodic Coating (AB-7), Black Anodic Coating (AB-8): Comply with AAMA 611.
 1. Class II, AAM12C22A34 anodized coating, 0.4 mil minimum thick.
- D. Fluorocryl Coating: Comply with AAMA (2603) 603.8 and AA-DAF-45.
 1. Factory applied painted finish.
 2. Color coat: Dry film thickness 0.8 +/- 0.05 mil.
 4. Color: As selected by Architect.
 - A. Manufacturer's standard Tan, White, Gray, Bronze or Black.
 - B. Custom color to match Architect's sample.

PART 3 EXECUTION

3.1 Examination

- A. Examine project conditions and verify that the work of this section may properly commence. Do not proceed with the installation until unsatisfactory conditions have been corrected.
- B. Verify that the wall thickness does not exceed manufacturer's recommended tolerances of specified frame throat size.

3.2 Installation

- A. Comply with frame manufacturer's printed installation instructions and approved shop drawings. Strictly adhere to maintaining specified wall thickness to insure dimension does not exceed frame throat size specified. Installation not to be attempted in areas where the wall thickness exceeds the tolerance of the specified throat size.
- B. Install frames plumb and square, securely anchored to substrates with fasteners recommended by frame manufacturer.
 1. Use concealed installation clips to assure that splices and connections are tightly butted and properly aligned.
 2. Secure clips to main structural extrusion components and not to snap-in or trim members.

3. Do not use screws or other fasteners that will be exposed to view when installation is complete.

3.3 Adjusting and Cleaning

- A. Clean exposed frames promptly after installation, using cleaning methods recommended by frame manufacturer.
- B. Touch up marred areas so that touch-up is not visible from a distance of 4 feet. Remove and replace frames that cannot be satisfactorily adjusted.

3.4 Protection

- A. Provide protection required to assure that frames will be without damage or deterioration upon substantial completion of the project.