

SECTION 081216 - INTERIOR ALUMINUM FRAMES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Interior aluminum frames for doors.
 - 2. Interior aluminum frames for glazing.
- B. Related Sections include the following:
 - 1. Division 6 Section "Miscellaneous Carpentry" for carpentry for wood framing and blocking.
 - 2. Division 7 Section "Joint Sealants" for joint sealants installed with interior aluminum frames and for sealants to the extent not specified in this Section.
 - 3. Division 8 Section "Flush Wood Doors" for wood doors installed in interior aluminum frames.
 - 4. Division 8 Section "Aluminum-Framed Entrances and Storefronts" for aluminum-framed doors installed in interior aluminum frames.
 - 5. Division 8 Section "Door Hardware" for door hardware.
 - 6. Division 8 Section "Glazing" for glass in interior aluminum frames.
 - 7. Division 9 Section "Gypsum Board Assemblies" for partitions.

1.3 SUBMITTALS

- A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of interior aluminum frame indicated.
- B. Shop Drawings: For interior aluminum frames. Include plans, elevations, sections, details, and attachments to other work.
- C. Samples for Initial Selection: For units with factory-applied color finishes.
- D. Samples for Verification: 12-inch-long framing member with factory-applied finish for each type of interior aluminum frame indicated.
- E. Fabrication Sample: For each vertical-to-horizontal intersection of systems, made from 12-inch lengths of full-size components and showing details of assembly.
- F. Maintenance Data: For interior aluminum frames to include in maintenance manuals.

1.4 QUALITY ASSURANCE

- A. Product Options: Drawings indicate size, profiles, and dimensional requirements of interior aluminum frames and are based on the specific system indicated. Refer to Division 1 Section "Product Requirements."

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Custom Components Company.
 - 2. Dual Lock Partition Systems, Inc.
 - 3. Frameworks Manufacturing.
 - 4. Modulex, Inc.
 - 5. RACO Interior Products, Inc.
 - 6. Versatrac.
 - 7. Western Integrated Materials, Inc.
 - 8. Wilson Partitions.

2.2 COMPONENTS

- A. Aluminum Framing, General: ASTM B 221, Alloy 6063-T5 or alloy and temper required to suit structural and finish requirements, not less than 0.062 inch thick.
- B. Door Frames: Reinforced for hinges and strikes.
- C. Glazing Frames: For glazing thickness indicated.
- D. Ceiling Tracks: Extruded aluminum.
- E. Trim: Extruded aluminum, not less than 0.062 inch thick, with removable snap-in casing trim and glazing stops without exposed fasteners.

2.3 ACCESSORIES

- A. Fasteners: Aluminum, nonmagnetic stainless-steel or other noncorrosive metal fasteners compatible with frames, stops, panels, reinforcement plates, hardware, anchors, and other items being fastened.
- B. Sound Seals: Manufacturer's standard continuous mohair, wool pile, or vinyl seals.
- C. Glazing Gaskets: Manufacturer's standard extruded or molded plastic, to accommodate glazing thickness indicated.
- D. Glazing: Comply with requirements in Division 8 Section "Glazing."
- E. Hardware: Comply with requirements in Division 8 door hardware Sections.

2.4 FABRICATION

A. General

1. Machine jambs and prepare for hardware, with concealed reinforcement plates, drilled and tapped as required, and fastened within frame with concealed screws.
2. Provide concealed corner reinforcements and alignment clips for accurately fitted hairline joints at butted or mitered connections.
3. Fabricate frames for glazing with removable stops to allow glazing replacement without dismantling frame.
4. Fabricate all components to allow secure installation without exposed fasteners.

B. Interior Aluminum Frames

1. Fabricate interior aluminum framing components to comply with dimensions, profiles, and relationships to adjoining work of components as indicated on Drawings. Frames shall be adjustable for partition types and throat openings, or fitted to each partition type, meeting the throat opening and required clearances per frame manufacturer's recommendations. Reinforce for specified hinges, strikes, and closers.
2. Fabricate frames with the following characteristics:
 - a. Rectilinear design.
 - b. 1-1/2 inch face profile.
 - c. Snap-on Trim: 1-1/2 inch.
 - d. 0.070 inch rabbet wall thickness.
 - e. Standard throat sizes (drywall partition thickness): 3-1/2", 3-3/4", 4-5/8", 4-7/8" and as shown on drawings.
 - f. Adjustable throat frames expandable from 2-7/8" up to 8-3/8".

- C. Glass Trim: Extruded aluminum, not less than 0.062 inch thick, designed for glass thickness indicated with removable snap-in casing trim, glazing stops, and door stops without exposed fasteners.

2.5 ALUMINUM FINISHES

- A. General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.
- C. Class II, Clear Anodic Finish: AA-M12C22A31 (Mechanical Finish: nonspecular as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class II, clear coating 0.010 mm or thicker) complying with AAMA 611.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine walls, floors, and ceilings, with Installer present, for conditions affecting performance of work.

1. Verify that wall thickness does not exceed standard tolerances allowed by throat size indicated.
2. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Comply with frame manufacturer's written installation instructions.
- B. Install frames plumb and square, securely anchored to substrates.
- C. Install frame components in the longest possible lengths; components up to 72 inches long must be 1 piece.
 1. Use concealed installation clips to produce tightly fitted and aligned splices and connections.
 2. Secure clips to main structural extrusion components and not to snap-in or trim members.
 3. Do not leave screws or other fasteners exposed to view when installation is complete.

3.3 CLEANING

- A. Clean exposed frame surfaces promptly after installation, using cleaning methods recommended by frame manufacturer and according to AAMA 609 & 610.
- B. Touch up marred frame surfaces so touchup is not visible from a distance of 48 inches. Remove and replace frames with damaged finish that cannot be satisfactorily repaired.

END OF SECTION 081216