

SECTION 08120

INTERIOR ALUMINUM DOOR FRAMES

PART 1 GENERAL

1.01 SUMMARY

1. Section Includes: Pre- finished aluminum doorframes for interior use. Pre-finished aluminum window frames for interior use. Pre- finished aluminum framing system for interior use.

1.02 RELATED SECTIONS

- A. Section 08210 – Wood Doors.
- B. Section 08710 – Finish Hardware.
- C. Section 08800 – Glazing.

1.03 SUBMITTALS

- A. Comply with Section 01330 – Submittal Procedures.
- B. Product Data: Submit manufacturer’s product data and installation instructions.
- C. Samples: Provide aluminum chips in full range of manufacturer’s standard finishes for architect’s color selection.
- D. Shop Drawing:
 1. Provide standard installation details for typical Architectural conditions.
 2. Provide details of connections to special construction And other custom features.
- E. Verification Samples: Provide two samples of each type of framing member required, not less than 12 inches long, in selection finish.
- F. Warranty: Submit manufacturer’s standard warranty for interior aluminum doorframes.

1.04 DELIVERY, STORAGE AND HANDLING

- A. Packing and Shipping: Deliver frames and doors package to provide protection during transit and storage at project site.
- B. Inspect frames upon delivery for damage.
 1. Repair minor damage to polyester finish by using air- drying spray enamel of Matching color.
 2. Replace frames that cannot be satisfactory repaired.
- C. Storage: Store frames at project site under cover and as near as possible to final installation location. Do not use covering material that will cause discoloration of aluminum finish.
- D. Handling: Comply with Manufacturer’s instructions.

1.05 QUALITY ASSURANCE

- A. Manufacturer: Provide aluminum frames manufactured by a single firm specializing in

Production of this type of work for a minimum of five years.

- B. Fire Rated Assemblies:
 - 1. In location where fire-rated opening 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 frame that is within size limits established by NFPA and the testing authority.
 - A. Provide 20-minute labels.
 - B. Provide 90-minute labels.
 - C. Provide labels for opening as scheduled on the drawing.
 - D. Provide concealed intumescent into frame kerf.
- C. Handling: Comply with Manufacturer's instructions.

1.06 ENVIRONMENTAL REQUIREMENTS

- A. Do not begin installation of aluminum frames until area of work has been completely enclosed and 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 standards. If necessary, provide artificial heating, cooling, and ventilation to maintain required environmental conditions.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Provide products manufactured by:
 - 1. ABS-Architectural Components, 8401 Rovana Cir. Sacramento. CA 95828
Telephone: 916-388-2161
 - 2. Modulex, 2392 S. Bateman Ave, Ste. 175, Irwindale, CA 91010
 - 3. Dual Lock Partitions, 21451 SW 108th Ave. Tualatin, OR 97062

2.02 MATERIALS

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

2.03 EXTRUDED ALUMINUM FRAMES

- A. ABS-Architectural Components 334, 478, 500, 514, 512, 714, ADJ frames:
Provide frames with the following characteristics:
 - 1. Rectilinear design.
 - 2. 1", 1-1/2", 2", 4", face profiles.
 - 3. Trim:
 - A. 1" with 21/64" return
 - B. 1-1/2" with 21/64" return
 - C. 2" with 21/64" return
 - D. 4" with 21/64" return

2.04 FABRICATION

- A. Pre-machine jambs and prepare for hardware, with concealed plates, drilled and tapped as required, and fastened within frames.

- B. Manufactured to receive 4-1/2'' x 4-1/2'' square hinges.
- C. Manufactured to receive a standard 2-3/4'' Cylindrical or 4-7/8'' A.S.A strike.
- D. Supplied with 1/8'' thick aluminum strike and hinge back up, pre- mounted on jambs.
- E. Supplied with vinyl or mohair mute.
- F. Provide corner alignment clips for precise butt or mitered connections.
- G. Fabricate all components to allow secure installation without exposed fasteners.
- H. 90 Minute Positive Pressure frame has full length steel backer with hinge and strike pre-drilled and tapped.
- I. Pre-punch returns for installation fasteners every 12 inches.
- J. Assemble all vertical and horizontal mullions prior to shipment.
- K. Pre-glaze vinyl glazing bead on one side of glazing components prior to shipment.
- L. All trim components cut to size and mitered.

2.05 FINISHES

- A. Clear Anodic Coating: Comply with AAMA 611
 - 1. Commercial, AA-M10-C22-A21 clear anodized coating, 0.4 mil minimum thickness.
- B. Dark Bronze Anodic Coating: Comply with AAMA611
 - 1. Commercial, AA-M10-C22-A24 bronze anodized coating, 0.4 mil minimum thicknesses.
- C. Black Anodic Coating: Comply with AAMA611
 - 1. Commercial, AA-M10-C22-A34 black anodized coating, 0.4 mil minimum thickness.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine areas to receive materials. Notify Architect if areas are not acceptable. Do not begin installation until unacceptable conditions have been corrected.
- B. VERIFY WALL THICKNESS DOES NOT EXCEED STANDARD TOLERANCE OF 1/16''.

3.02 INSTALLATION- GENERAL

- A. Comply with frame manufacturer's printed installation instructions and approved shop drawing. Strictly adhere to maintaining specified thickness to insure dimension does not exceed frame throat size specified.
- B. Install frames plumb and square, securely anchored to substrates with fastener recommended by frame manufacturer.
 - 1. Use Concealed installation clips to assure that splice 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.

3.03 ADJUSTING AND CLEANING

- A. Clean exposed frames promptly after installation, using clean 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.

3.04 PROTECTION

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

3.05 CLEANING- GENERAL

1. During the course of the Work and on completion, remove and dispose of excess materials, equipment and debris away from premises. Leave work in clean condition.

END OF SECTION