# SECTION 081116.13 - INTERIOR ALUMINUM DOORS AND FRAMES

## PART 1 - GENERAL

### 1.1 SUMMARY

A. Section Includes:

1. Interior aluminum frames for Wood doors.

B. Related Requirements:

1. Section 084126.23 "Interior All-Glass Entrances" for systems without aluminum support framing.
2. Section 081416 - "Flush Wood Doors"
3. Section 088000 - "Glazing"

### 1.2 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

### 1.3 ACTION SUBMITTALS

A. Product Data: For each specified system and assembly, including components and accessories.

1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.

B. Shop Drawings:

1. Elevations, sections, and installation details for each wall-opening condition.
2. Details of construction of each component, including dimensioned profiles and metal thicknesses.
3. Locations of reinforcements and preparations for hardware.
4. Details of anchorages, joints, splices, connections, and accessories.
5. Details of trim, removable stops, and glazing.

C. Samples for Initial Selection: Manufacturer's standard color sheets, showing full range of available colors for each type of exposed finish.

D. Product Schedule: Use same designations indicated on Drawings. Coordinate with door hardware schedule and glazing.



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1.4 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For interior aluminum frames.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

A. Obtain all components of interior aluminum doors and frames, including accessories, from single manufacturer.

2.2 INTERIOR ALUMINUM DOORS AND FRAMES

A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

1. Arcadia. Aluminum Storefront Sections.

B. Framing Members, General: Manufacturer's extruded aluminum framing members of thickness required and reinforced as required to support imposed loads.

C. Door Frames: Extruded aluminum, reinforced for hinges, strikes, and closers.

D. Trim: Extruded aluminum, not less than **0.062 inch** thick; removable, snap-in door stops, without exposed fasteners.

1. Trim Style: As indicated on Drawings.
2. Storefront Sections, Trims: (Basis of Design)

a. Head Section: Arcadia, "T245" Head Tube, or as needed.
b. Optional Head Tube, for concealed closer installation: Arcadia, "H245" 2" x 4.5" aluminum frame for use with filler section.
c. Jamb: Arcadia "DJ201" open back jamb for use with Flat Filler or Optional Glass Pocket Filler to receive glazing.
d. Filler Section: Arcadia "FF200" Flat Filler.
e. Optional Pocket Filler, for Glass: Arcadia "HCF326" to receive glazing at either side of door / jamb, centered.
f. Door Jamb Stops: Arcadia "S155" cover and "S155Base" base.

2.3 ACCESSORIES

A. Wood Doors: As specified in Section 081416 "Flush Wood Doors."

B. Fasteners: Aluminum, nonmagnetic, stainless steel, zinc-plated steel or other



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noncorrosive metal fasteners compatible with frames, stops, panels, reinforcement plates, hardware, anchors, and other items being fastened.

C. Corner Reinforcements and Alignment Clips: Manufacturer's standard concealed units to provide accurately fitted hairline joints at butted and mitered connections.

D. Glazing head & sill, adjacent to door: U-shaped aluminum channels, Specified in Section "084126.23 - Interior All-Glass Entrances".

E. Glass: As specified in Section 088000 "Glazing."

F. Door Hardware: As specified in Section 087100 "Door Hardware."

## 2.4 MATERIALS

A. Aluminum Sheet and Plate: ASTM B209/B209M.

B. Extruded Aluminum Bars, Rods, Profiles, and Tubes: **ASTM B221** with alloy and temper required to suit structural and finish requirements.

C. Recycled Content: Postconsumer recycled content plus one-half of preconsumer recycled content not less than <**Insert number**> percent.

## 2.5 FABRICATION

A. Hardware Preparation: Factory prepare components to receive templated mortised hardware; include cutouts, reinforcements, mortising, drilling, and tapping.

1. Reinforce doors and frames to receive nontemplated mortised and surface-mounted hardware.
2. Locate hardware as indicated on Drawings.

B. Glazing Stops: Locate removable stops on inside of spaces accessed by locking doors.

C. Fabricate components to allow secure installation without exposed fasteners and to provide accurately fitted hairline joints at butted and mitered connections.

D. Fabricate frame components 96 inches long or shorter as one piece.

## 2.6 ALUMINUM FINISHES

A. Comply with NAAMM/NOMMA AMP 500 for recommendations for applying and designating finishes.

B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.



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C. Appearance of Finished Work: Noticeable variations in same piece are unacceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

D. Clear Anodic Finish: AAMA 611, AA-M12C22A41, Class I, 0.018 mm or thicker.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 INSTALLATION OF ALUMINUM DOORS AND FRAMES

A. Install aluminum frames plumb, rigid, properly aligned, and securely fastened in place in accordance with manufacturer's written instructions.

1. Use concealed installation clips to produce tightly fitted and aligned splices and connections.
2. Secure clips to extruded main-frame components and not to snap-in or trim members.
3. Do not leave screws or other fasteners exposed to view when installation is complete.

B. Glass: Install glass in accordance with Section 088000 "Glazing" and aluminum-frame manufacturer's written instructions.

C. Doors: Install doors aligned with frames and fitted with required hardware.

1. Wood Doors: Install in accordance with Section 081416 "Wood Doors" and aluminum-frame manufacturer's written instructions.

2. Hardware: Install in accordance with Section 087100 "Door Hardware" and aluminum-frame manufacturer's written instructions.

### 3.3 FIELD QUALITY CONTROL

A. Repair or remove and replace installations where testing and inspections indicate that they do not comply with specified requirements.



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## 3.4 ADJUSTING

A. Inspect installation, correct misalignments, and tighten loose connections.

B. Doors: Adjust doors to operate smoothly and easily, without binding or warping. Adjust hardware to function smoothly in accordance with manufacturer's written instructions.

## 3.5 CLEANING

A. Clean exposed frame surfaces promptly after installation, using cleaning methods recommended in writing by frame manufacturer and in accordance with AAMA 609 & 610.

B. Touch Up: Immediately after installation, repair damaged areas of aluminum finishes and touchup in accordance with manufacturer's written instructions.

END OF SECTION 081116.13



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