SECTION 08 12 16

INTERIOR ALUMINUM DOORS, DOOR FRAMES, AND STOREFRONT FRAMING (CLASSIC SYSTEM)

PART 1 GENERAL

1.1 SUMMARY

A. Related Documents:

1. Provisions established within the General and Supplementary Conditions of the Contract, Division 1 - General Requirements, and the Drawings are collectively applicable to this Section.

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Edit the "Section Includes" paragraph to briefly describe the content of the section. After editing section, refer back to this paragraph to verify no conflicts occur.
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B. Section Includes:

1. Aluminum door frames for interior use.
2. Aluminum window frames for interior use.

C. Related Sections:

1. Section 08 71 00 - Door Hardware.
2. Section 08 80 00 - Glazing.

1.2 SUBMITTALS

A. Submit under provisions of Section 01300.

B. Product Data: Submit for door and window frames.

1. Include information for factory finish, glazing gaskets, accessories and other required components.
2. Include color charts for finish indicating manufacturer's standard colors available for selection.

C. Shop Drawings: Submit schedule indicating opening identification number, frame types, dimensions, swing, label, and hardware requirements. Use same reference numbers for openings as Contract Drawings.

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, details of connections to special construction and other custom features.

E. Samples: Submit following:

1. Samples indicating quality of finish in selected colors on alloys used for Work.
2. Where normal color and texture variations are expected, include additional samples to show range of such variation.

F. Informational Submittals: Submit manufacturer's instructions.

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1.4 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: Manufacturer shall demonstrate previous experience in manufacturing of interior aluminum door and officefront framing for a period of not less than 10 years on comparable sized project.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver frames and doors in cartons 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 manufacturer

2. Replace frames and doors that cannot be satisfactorily repaired.

C. Store frames and doors 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.

1.6 ENVIRONMENTAL REQUIREMENTS

A. Do not begin installation of frames or doors 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. If necessary, provide temperature control and ventilation to maintain required environmental conditions.

1.7 WARRANTY

A. Warrant against defects in manufacturing of materials for a period of 1 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. Manufacturers:

1. Basis-of-Design Product: RACO Interior Products, 7354 Denny Road, Suite 100, Houston, Texas 77040, (800) 272 726, fax (713) 682 2079. Meet or exceed standards of manufacture, appearance, performance, function, and design, of RACO Interior Products.

2. Substitutions: Comply with provisions of Section 01.

B. Acceptable Products:

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Select from product list below for particular project needs.

Include item 1 below if only door frames are required. Delete items a and b if fire rated doors are not required. First item 1 is for a full height (to ceiling) framing system. Second item 1 if for system less than ceiling height.

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Include item 2 below if sidelights and OfficeFront framing is required
Include item 3 below if aluminum and glass swinging doors are required
Include item 4 below if sliding aluminum and glass doors are required.
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1. Interior Door Frames: RACO Classic fixed throat frames to accommodate wall thicknesses indicated on Drawings; ceiling height system.
2. Interior Window Framing: RACO Classic, fixed throat frames to accommodate wall thicknesses indicated on Drawings;
3. Swinging Aluminum and Glass Doors: RACO Series 550, wide stile doors, having square glazing stops, and black EPDM glazing gaskets, complete with standard construction stiles, top rail, and ADA compliant bottom rail.

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Select item a. below for non-fire rated doors and item b. for fire rated doors. In item c., custom mullion configurations can be specified and should be indicated on the Drawings as to type and locations. Hardware for swinging doors can be specified in e. below, or this section can be reference to Section 08 71 00 for all hardware requirements.
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a. Provide non fire rated with adjustable bottom rails for field adjustment.
b. Provide with custom horizontal and vertical mullion pattern as indicated on Drawings
c. Refer to Section 08 71 00 for hardware.

2.2 MATERIALS

A. Aluminum: Meeting requirements of ASTM B221, 6063T5 alloy, and as otherwise required to assure compliance with dimensional tolerances and maintain color uniformity. Billets shall be composed of at least 33% recycled aluminum, 48% post industrial scrap, 30% post consumer scrap, 22% primary aluminum.
B. Anchorage Devices, Clips and Fasteners: Manufacturer's standard type, compatible with materials being secured. All clips and fasteners concealed.
C. Accessories: As necessary for complete system.

2.3 EXTRUDED ALUMINUM FRAME AND DOOR FABRICATION

A. Assemble all sidelights and windows with the use of clips.
B. Do not exceed maximum size of window or door to meet applicable code requirements.
C. Factory pre-machine door frame jambs [and doors] and prepare for hardware, with concealed reinforcement plates, drilled and tapped as required, and fastened within frame with concealed screws.

2.4 FINISHES

A. Factory finish extruded frame and door components so that all parts exposed to view upon completion of installation are uniform in finish and color. Exposed surfaces shall be free of scratches and other serious blemishes.
B. Factory Applied Paint Finish: Comply with AAMA(2603)603.8 and AA-DAF-45, factory applied baked enamel coating.

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1. Color: Bronze

PART 3 EXECUTION

3.1 EXAMINATION

A. Examine project conditions and verify that project is ready for work of this section to proceed. Do not proceed with installation until unsatisfactory conditions have been corrected.

B. Verify wall thickness does not exceed manufacturer=s recommended tolerances of specified throat size.

3.2 INSTALLATION

A. Comply with frame and door manufacturer's printed installation instructions and approved shop drawings. Do not attempt installation in areas where wall thickness exceeds tolerances of specified throat size.

B. Install frames plumb and square, free from warp or twist, securely anchored to substrates with fasteners recommended by frame manufacturer. Maintain dimensional tolerances and alignment with adjacent work. Ensure joints are hairline tight and surfaces flush with adjacent components.

C. Set all doors in correct locations as shown on the drawings, level, square, plumb and in alignment with other work in accordance with the manufacturer's installation instructions and approved shop drawings.

D. Install glass in accordance with Section 08 80 00.

3.3 ADJUSTING AND CLEANING

A. Protect exposed portions of aluminum surfaces from damage by plaster, lime, acid, cement, and other contaminants.

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. Protect as required to assure that frames and doors will be without damage until Substantial Completion.

END OF SECTION

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