SECTION 102219

DEMOUNTABLE PARTITIONS

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:
1. Prefinished interior aluminum door frames
2. Prefinished interior aluminum doors
3. Prefinished interior aluminum window frames
4. Prefinished interior aluminum slider assemblies
5. Site-assembled demountable aluminum partitions

B. Related Sections:
1. Section 06100 Rough Carpentry
2. Section 08210 Wood Doors
3. Section 08410 Aluminum entrances and storefronts
4. Section 08700 Hardware and Access Control
5. Section 08800 Glazing
6. Section 09250 Gypsum Board
7. Section 102250 Systems and Demountable Partitions

1.2 REFERENCES

A. Publications listed herein are part of this specification to extent referenced.

B. American Architectural Manufacturers Association:
1. AAMA 605.2 Voluntary Specification for High Performance Organic Coatings

C. American Society for Testing and Materials:
1. ASTM B221 Specification for Aluminum-Alloy Extruded Bars, Wire, Shapes and Tubes

D. Aluminum Association:
1. AA ASD-1 Aluminum Standards and Data

1.3 SUBMITTALS

A. Submit under provisions of section 01300.

B. Sustainable Design: Submit product data for recycled content, indicating postconsumer and pre-consumer recycled content

C. Product Data:
1. Submit manufacturer's literature describing products to be provided. Information to include construction details, material descriptions, profiles and finishes available.

D. Templates: Hardware supplier to furnish templates, with reference numbers, and/or physical hardware to the interior door and frame supplier so as to allow for proper preparation of the aluminum doors and frames for the hardware. All supplied hardware to be returned to hardware supplier unless otherwise noted.

E. Shop Drawings:
1. Submit shop drawings showing elevation of frames, profile, design construction details, methods of assembling sections, glazing gaskets, hardware locations, dimensions, anchorage and fastening methods, wall opening construction, rough opening sizes and finish requirements.
   a. Indicate location of each frame in Project by opening number
   b. Opening numbers to correspond to plans and opening schedule
   c. Frame and Door Schedules to be included

F. Samples:
1. Submit four 12" samples of frames showing selected factory finishes, corner joint, hinge reinforcement and anchors.

1.4 QUALITY ASSURANCE

A. Installer Qualifications:
1. Engage experienced Installer who has completed installations of aluminum frames similar in design and extent to those required for project and whose work has resulted in construction with record of successful in-service performance.

B. Manufacturer's Qualifications:
1. Provide aluminum framing systems produced by a firm with at least 10 years of experience in manufacturing systems that are similar to those indicated for this project and that have a record of successful in-service performance.

C. Single Source Responsibility:
1. Obtain aluminum demountable framing systems from one source and from single manufacturer.

D. Design Criteria:
1. Drawings indicate the size, profile and dimensional requirements of aluminum frames required and are based on specific types and models indicated.
2. Acoustical Frames Shall Be Eagle Tacitus Series

1.5 DELIVERY, STORAGE AND HANDLING

A Packing, Shipping, Handling and Unloading:
1. Deliver materials in original unopened packaging with labels intact.
2. Handle frames in a manner to prevent damage to finishes.
3. Inspect all product upon arrival and before installation. Repair or replace any Damaged pieces before installation.
4. Store frames in a secure, environmentally protected area.
5. Do not install demountable frames until are areas are complete, including suspended ceilings, drywall, painting and floors as necessary.

1.6 WARRANTY

A. Warranty against defects in manufacturing of materials for a period of 2 years from the date of substantial completion.

B. Warranty 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

A. Aluminum Demountable Frames:
1. Avalon International Aluminum, LLC, (800-678-0566) (FKA Dual Lock Partition Systems/Alumax) Email: info@avalonint.com. Web: www.avalonint.com
2. Substitutions: Not permitted.
3. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 MATERIALS

A. Aluminum Demountable Frames: Extruded aluminum
1. Standard alloys shall conform to requirements published in AA ASD-1 and ASTM B221; 6063 T5 alloy.
2. Thickness: 0.062" minimum
3. Finish: Thermal-setting powder coating / Class II clear Anodized

B. Interior Aluminum Frames
1. Provide interior aluminum frames components that comply with plan indicated details for profile, dimensions and relationship to adjoining components. Provide frames that are designed to abutt the finished wall opening or ceiling grid as indicated per plans and that meet the manufacturers specified clearance requirements. Frames to have manufacturer required reinforcements for all hinges, strikes, closure and other hardware as required.

1. Avalon Demountable 214 series frames
   a. Single and double frames, sidelites, borrowed lites, clerestories and transom
   b. Available with center glazing, flush glazing or dual flush glazing
   c. Profile of 1-1/2" or 2"
   d. Section 179 Tax Deduction available when used under section 102219

3. Avalon Eagle Series frames
   a. Single and double frames, sidelites, borrowed lites, clerestories and transom
   b. Face profiles size of 1-1/2" and 2"
   c. Standard throat sizes – 2-1/4", 3-1/2", 3-3/4", 4-5/8", 4-7/8", 5", 5-1/8", 5-1/4", 5-1/2", 6-1/8", 7-1/4" and 8-1/2"
   d. Glass thickness of ¼", 3/8", ½" and 9/16"

4. Avalon Eagle Offset Slider frames
   a. Eagle Series Barn Door Slider Frame: Cased opening with wall or frame mounted track assembly and soft close/ open hardware and floor guide

5. Avalon Dual Glazed Windows and frames
   a. STC-53 sound rating available, available in 4-7/8" throat only.
   b. Glass thickness of ¼" up to 5/8"

6. Avalon Mimus 1” system frames
   a. Profile of 1”, width of 4”
   b. Dual glazed windows
   c. Uses a 2-1/4” thick door
7. Glass and Glazing Materials: Comply with requirements of “Glazing” sections of these specifications

C. Aluminum Interior Doors
1. Provided in Narrow (2-1/2”), Medium (4”) and Wide Stiles (5-1/2”)
2. Full 10” Bottom Rail, no including stop (10-1/2” with stop)
3. Provide swinging type doors prepped for hinges and hardware as specified by Division 8 Section “Door Hardware”
4. Provide slider type doors prepped for 2 ea. hanging brackets for slider rollers and specified hardware as specified by Division 8 Section “Door Hardware”.
5. Aluminum Door Glazing
   a. Glass thickness of ¼” up to 1”
   b. Pre-glazed Doors available upon request

D. Fasteners
1. Provide fasteners of aluminum, non-magnetic stainless steel, zinc plated steel, or other material warranted by the manufacturer to be non-corrosive and compatible with aluminum components, hardware, anchors and other components.
2. Reinforcement: Where fasteners screw-anchor into aluminum members less than 0.125 inches thick, reinforce interior with aluminum or non-magnetic stainless steel to receive screw threads, or provide standard non-corrosive pressed-in splined grommet nuts.
3. Exposed Fasteners: Do not use exposed fasteners except for application of hardware. For application of hardware, use Phillips flat-head machine screws that match the finish of member or hardware being fastened.

2.3 ACCESSORIES

A. Door silencers provided in continuous nylon backed wool pile seals.

B. Extruded Neoprene glazing gasket provided in sizes to match plan indicated glass size.

2.4 FABRICATION

A. Frames and Glazing:
1. Frames shall be knock-down units consisting of separate header, strike and hinge jambs with snap-on casing, fabricated to sizes indicated on Drawings.
2. Thickness of main frame members shall be increased to 0.130” minimum at frame and hinge anchorage.
3. Frames shall be supplied with a notch at top of jamb and corner brackets to provide for correct alignment with header and add strength to joint.
4. Stops shall be provided with a continuous nylon backed wool pile sound and light seal around perimeter.
5. Finished work shall be strong and rigid, neat in appearance, square, true and free of defects, warp, or buckle. Members shall be clean cut, straight and of uniform profile throughout their lengths.
6. Fabricated frames shall be of design for installation with concealed fasteners and abutt design at head, verticals and window base for installation after partitions are in place and finished. Frames shall be anchored at bottom of each jamb. Additional anchors shall be furnished per manufacturer’s recommendations.

7. Glazing frames shall be provided with snap-in type stops with manufacturer's standard neoprene gaskets. Glass installed adjacent to metal without intervening gasket shall not be allowed. Door jambs with integral glazing shall have reinforcement channel. Intermediate mullions shall maintain 1-1/2" profile.
8. Continuity: Maintain accurate relation of planes and angles with hairline fit of contacting members.
9. Uniformity of Metal Finish: Abutting extruded aluminum members shall not have an integral color or texture variation greater than half the range indicated in the sample per submittal.
10. Fasteners: Exposed fasteners not permitted.

2.5 FINISHES

A, Shop Applied Finish:
1. Remove die markings prior to finishing operations. Perform this work in addition to finish specified. Scratches, abrasions, dents and similar defects are not acceptable.

B. Thermal-Setting Powder Coatings:
1. Aluminum frames shall have shop applied finish with a thermal-setting powder coating applied in compliance with AAMA 605.2. Finish system shall have a minimum dry film thickness of 1.8 mil applied over a seven-stage aluminum pre-treatment.
2. Coating material shall contain a formulation of hybrid epoxy-polyester.
3. Colors: Custom color to match control sample provided by Architect.

C. Clear anodic coating:
1. Comply with AAMA 607.1. 1. Class 2, AAM12C22A31 clear anodized coating, 0.4-.07 mill thickness minimum.

PART 3 EXECUTION

3.01 EXAMINATION

A, Examine all conditions, openings, substrates and areas of storage, with installer present, for compliance for safety, protection, security, installation and any conditions affecting proper performance of work.

B. Installer to verify that rough openings are plumb, level and square in alignment per the plans and approved shop drawings. Out of tolerance rough openings to be fixed prior to beginning installation of opening.

C. General Contractor to verify all openings for correct size width and height given to manufacturer for all pre-cut openings.

D. Proceed with installation only after all unsatisfactory conditions have been corrected.

3.02 INSTALLATION

A. Frames:
1. Installer to verify that product fits in rough opening prior to beginning the installation of product.
2. Install all starter channels to rough opening with screws long enough to attach to wall reinforcements. Channels shall be secured tight and flat to wall or other approved surface. Shims are only allowed on channels attached to floor. No shims on verticals or headers allowed.

3. Slip header and jambs onto the starter channels, allowing header to rest on jambs. Align frames to scheduled opening width and height, achieving equal channel capture on both vertical jambs.
4. Check level of header and squareness and plumb of jambs. Measure width at each hinge location.
5. Attach factory supplied flat corner angles, on both sides of head on profile sides. Anchor jambs and header in legs of frame at top and bottom of jambs and at approximately 15" on center. On hinge jambs, attached one screw above and below each hinge cutout.
6. Install all trims by snapping over receiver tabs and lightly tapping with a rubber mallet.
7. Do not use screws or fasteners that will be exposed to view win installation is complete.

B. Tolerances
1. Squareness: ± 1/16"
   a. Measured on a line 90° from one jamb, at upper corner of frame at other jamb.
2. Alignment: ± 1/16"
   a. Measured on jambs on a horizontal line parallel to plane of wall.
3. Twist: ± 1/16"
   a. Measured at face corners of jambs on parallel line.
4. Plumbness: ± 1/16"
   a. Measured on the jamb at floor.

3.03 ADJUSTING AND CLEANING

A. Final Adjustments:
1. Check and re-adjust operating finish hardware just prior to final inspection.
2. Remove and replace defective work.

B. Clean the completed system, inside and out, promptly after installation, exercising care to avoid damage to coatings.

C. Clean glass surfaces after installation complying with requirements contained in the "Glazing" Sections for cleaning and maintenance. Remove excess glazing and sealant compounds, dirt and other substances from aluminum surfaces.

D. Door opening assemblies shall be cleaned with general, non-abrasive cleaners suitable for painted surfaces. Wipe the surfaces with a soft, dry cloth per AAMA 609 & 610.

3.04 PROTECTION

A. Institute protective measures required throughout remainder of construction period to ensure that aluminum frames will be without damage or deterioration, other than normal wear at time of acceptance.

END OF SECTION