SECTION 083473 - INTERIOR SLIDING WOOD SOUND CONTROL DOOR ASSEMBLIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Interior Aluminum-Framed, Top-Hung Sliding Wood Sound Control Door Assemblies and Related Hardware.

B. Related Sections:

1. Division 01 Section "General Conditions".
2. Division 01 Section "Cash Allowances".
3. Division 01 Section "Product Allowances".
4. Division 06 Section "Rough Carpentry".
5. Division 06 Section "Finish Carpentry".
6. Division 08 Section "Door Schedule".
7. Division 08 Section "Door Hardware Schedule".
8. Division 08 Section "Flush Wood Doors".

C. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

5. NFPA 105 - Installation of Smoke Door Assemblies.
7. State Building Codes, Local Amendments.

D. Standards: Comply with the following industry standards:

2. ASTM E1332-16 Standard Classification for Rating Outdoor-Indoor Sound Attenuation.
3. UL1784 Stand for Air Leakage Tests of Door Assemblies and Other Opening Protectives.
1.3 PRE-INSTALLATION MEETINGS

A. Pre-installation Conference: Refer to Division 01 Section "Project Requirements".

1.4 SUBMITTALS

A. Comply with Division 01 Section "Submittal Procedures".

B. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, door hardware and accessories, and finishes.

C. Shop Drawings: Show details of fabrication and installation, including the following:
   1. Assembly elevations and sections indicating dimensions, tolerances, materials, components, hardware, finishes, options, and accessories.
   2. Door hardware locations, mounting heights, quantities, and installation requirements.
   3. Frame anchorages and wall reinforcement requirements.

D. Manufacturer’s Certification: Submit manufacturer’s certification that assemblies comply with specified requirements and are suitable for intended application, including acoustical report as applicable.

E. Samples for Verification: For each type of exposed finish indicated, provide samples below as requested by Architect.
   1. Frame finish sample.
   2. Door veneer sample.

F. Maintenance Data: For top-hung, sliding door assemblies include in maintenance manuals.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: Engage an experienced installer to perform work of this Section who has specialized in installing top hung, sliding door assemblies similar to those required for this Project and with a record of successful in-service performance.

B. Product Options: Architectural drawings indicate size, profiles, and dimensional requirements of aluminum framing system and sliding door.

C. Source Limitations: Obtain each of the top-hung, sliding door components from one source with the complete integrated assembly from a single manufacturer.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to site in manufacturer’s original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
B. Notify manufacturer immediately of any shipping damage.

C. Storage and Handling Requirements:
   1. Store and handle materials in accordance with manufacturer’s instructions.
   2. Keep materials in manufacturer’s original, unopened containers and packaging until installation.
   3. Store materials in clean, dry area indoors.
   4. Protect materials and finish during storage, handling, and installation to prevent damage.

1.7 WARRANTY

A. General Warranty: The special warranty specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by the Contractor under requirements of the Contract Documents.

B. Special Warranty: Manufacturer's written warranty agreeing to repair or replace components of the top-hung, sliding door assemblies that fail in materials or workmanship within the specified warranty period. Failures include, but are not limited to, the following:
   1. Structural failures.
   2. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
   3. Warping (bow, cup, or twist) more than 1/4 inch in a 42-by-84-inch section.
   4. Telegraphing of core construction in wood face veneers exceeding 0.01 inch in a 3-inch span.
   5. Failure of operating components to function normally.

C. General Warranty Period: One year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Acoustic Rating: Minimum STC 34 rated sound control assemblies tested at an independent acoustic laboratory in accordance to ASTM E90 Sealed-In-Place standard.

B. Aluminum Frames: Aluminum cased opening perimeter frames manufactured with integral C-channel door cavity and acoustic seals.

C. Closing Mechanism: Soft self-closing mechanism integrated with top track.

D. Door Guide: Concealed type door guide.

2.2 MANUFACTURERS

A. Subject to compliance with requirements, provide the named product, or the comparable product by one of the alternate specified manufacturers. Comparable products are subject to review and approval through the submittal process specified.

B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. ASSA ABLOY.
2. AD Systems.
3. No Substitution.

2.3 INTERIOR TOP-HUNG, SLIDING SOUND CONTROL DOOR ASSEMBLIES

A. Basis-of-Design Manufacturer:

1. ASSA ABLOY RITE SLIDE Sliding Door System (RS).

B. Frame and Door Assembly Components:

1. Single Piece Box Top Track: Extruded aluminum track system with mounting brackets.
2. Fascia: Extruded aluminum with matching integral end caps.
4. Concealed Door Bottom Floor Guide.
5. Acoustical Integrated Door Bottom.
7. Operating Hardware.

C. Specified Wall Thickness:

1. 4-7/8"
2. 5-1/4"
3. 5-1/2"
4. 7-1/4"
5. As indicated on Architectural Drawings.

D. Frame Profiles: Extruded aluminum cased frame and trim with integral vertical jamb receiver channel.

1. 1-1/2" Faces.

E. Fascia Profile:

2. Custom Fascia Profile:

   a. Round.
   b. Chamfer.

F. Frame Finish:
2. Custom Painted Finish: To match sample.

G. Framing Anchors and Fastenings: Manufacturer's standard concealed anchors and fastenings.

H. Flush Wood Door Construction:
   4. Face Veneer: As selected by Architect.
   5. Finish: Comply with referenced standard for factory finishing.

I. Door Preparation. Doors leaves to be factory machined for hardware including pilot and function holes.

J. Door Hardware Components:
   1. General: Heavy-duty, operating door hardware units in sizes, quantities, and types recommended by manufacturer for sliding door assemblies indicated.
   2. Refer to section 080671 "Door Hardware Schedule" for specific hardware sets.
   3. Cylinders and Keying: Refer to Division 08 Section "Door Hardware".

2.4 FABRICATION

A. General: Fabricate top-hung, sliding door assemblies in sizes, profiles, and configurations indicated on Architectural Schedules and Drawings.

B. Factory prepare door assemblies for field installation of door hardware and accessories to greatest extent possible.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify dimensions of wall openings.

B. Examine wall openings and conditions, with Installer present, for plumb, level and square, and compliance with requirements for installation tolerances and other conditions affecting performance of the Work. Sliding door operation will be adversely affected by out-of-tolerance framing.

C. Examine surfaces to receive door bottom guide. Floor shall have no height variance throughout the complete sliding operation.
D. Notify Architect of conditions that would adversely affect installation or subsequent use of sliding doors. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 DOOR, FRAME AND HARDWARE ASSEMBLY INSTALLATION

A. General: Comply with manufacturer's written installation instructions and approved shop drawings.

B. Install frame components and sliding doors plumb, level, square, and in proper alignment.

C. Anchor sliding door assemblies securely in place to supports according to manufacturer's written installation instructions.

3.3 ADJUSTING AND CLEANING

A. Adjust sliding doors and hardware for smooth operation in accordance with manufacturer's written instructions without binding and with tight fit at contact points and seals. Sliding doors to close against walls without gaps.

B. Repair minor damages to finish in accordance with manufacturer’s written instructions and as approved by Architect.

3.4 PROTECTION

A. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer that ensure sliding door assemblies are without damage or deterioration at the time of Substantial Completion.

3.5 DOOR HARDWARE SETS

A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

END OF SECTION 083473