

SECTION 08212 - STILE AND RAIL WOOD DOORS**PART 1 - GENERAL**

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Interior stile and rail wood doors.
 - 2. Interior doors are to match existing historic construction in design, wood species and details of construction. Existing interior doors shall be used as the basis for construction..
- B. Related Sections include the following:
 - 1. Division 6 Section "Interior Architectural Woodwork" for wood door frames.
 - 2. Division 8 Section "Glazing" for glass vision panels in stile and rail wood doors.
- C. It is the intent of this section that all interior stile and rail doors will be repaired and not replaced except where specifically noted otherwise.

1.3 SUBMITTALS

- A. Product Data: For each type of door. Include details of construction and glazing.
- B. Shop Drawings: Indicate location, size, and hand of each door; elevation of each kind of door; construction details not covered in Product Data, including those for stiles, rails, panels, and moldings (sticking); and other pertinent data.
 - 1. Indicate dimensions and locations of mortises and holes for hardware.
- C. Product Certificates: Signed by door manufacturers.
- D. Warranty: Special warranty specified in this Section.

1.4 QUALITY ASSURANCE

- A. Source Limitations: Obtain stile and rail wood doors through one source from a single manufacturer.

- B. Quality Standard for Doors of Stock Design and Construction: Comply with WDMA I.S.6, "Industry Standard for Wood Stile and Rail Doors," unless more stringent requirements are specified.
 - 1. Mark, label, or otherwise identify stile and rail wood doors as complying with WDMA I.S.6, and include panel design number if applicable.
- C. Quality Standard for Doors of Special Design and Construction: Comply with [AWI's "Architectural Woodwork Quality Standards unless more stringent requirements are specified.
 - 1. Provide AWI Quality Certification Labels or an AWI letter of licensing for Project indicating that doors comply with requirements of grades specified.
- D. Safety Glass: Provide products complying with testing requirements in 16 CFR 1201, for Category II materials, unless those of Category I are expressly indicated and permitted.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Comply with requirements of referenced standard and manufacturer's written instructions.
- B. Package doors individually in opaque plastic bags or cardboard cartons.
- C. Mark each door on top and bottom edge with opening number used on Shop Drawings.

1.6 PROJECT CONDITIONS

- A. Environmental Limitations: Do not deliver or install doors until wet work is complete.

1.7 WARRANTY

- A. Special Warranty: Manufacturer's standard form, signed by manufacturer, Installer, and Contractor, in which manufacturer agrees to repair or replace doors that are defective in materials or workmanship, and have warped (bow, cup, or twist) more than 1/4 inch in a 42-by-84-inch section.
 - 1. Warranty shall also include installation and finishing that may be required due to repair or replacement of defective doors.
 - 2. Warranty shall be in effect during the following period of time from date of Substantial Completion:
 - a. Interior Doors: Five years.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:

1. Basis-of-Design Product: The design for each stile and rail door is based on the existing stile and rail doors.

2.2 MATERIALS

- A. General: Use only materials that comply with referenced quality standards unless more stringent requirements are specified.

2.3 STILE AND RAIL DOORS OF SPECIAL DESIGN AND CONSTRUCTION

A. Construction, General:

1. Grade of Doors for Opaque Finish: Premium.
2. Wood Species and Cut to match existing but not less than Clear Southern Yellow Pine.
3. Panel Designs: Drawings indicate panel designs. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review. The Exterior doors are designed to imitate those previously assumed to exist at the time of original construction.
4. Joining of stiles and rails shall be single or double mortise and tenon, matching existing, and pegged.

B. Doors:

1. Basis-of-Design Product: To Match Existing
2. Stile and Rail Widths: As indicated.
3. Molding Profile: As indicated and to match existing.
4. Raised-Panel Thickness: As indicated and to match existing
5. Glass for Openings: Uncoated, clear, fully tempered float glass, 5.0 mm thick.

C. Repair of Existing Doors:

1. Repair existing doors by filling existing mortises, holes and slots with wood material to match existing. Replace panels and moldings where repairs are not possible. Fill nail and screw holes flush with surrounding surfaces. Replace stiles and rails only with written approval of the Architect. Note: New hardware mortise requirements may be in the same area as repairs. Repairs are required to be such that they are sound and will remain secure even when partially removed for the installation of new hardware.

2.4 FABRICATION

- A. Fabricate stile and rail wood doors in sizes indicated for Project-site fitting.

PART 3 - EXECUTION**3.1 EXAMINATION**

- A. Examine doors and substrates, with Installer present, for suitable conditions where wood stile and rail doors will be installed.
 - 1. Verify that installed frames comply with indicated requirements for type, size, location, and swing characteristics and have been installed with plumb jambs and level heads.
 - 2. Reject doors with defects.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Hardware: For installation, see Division 8 Section "Door Hardware."
- B. Install wood doors to comply with manufacturer's written instructions and with referenced quality standard, and as indicated.
- C. Job-Fitted Doors: Align and fit doors in frames with uniform clearances and bevels as indicated below; do not trim stiles and rails in excess of limits set by manufacturer or permitted with fire-rated doors. Machine doors for hardware. Seal cut surfaces after fitting and machining.
 - 1. Clearances: Provide 1/8 inch at heads, jambs, and between pairs of doors. Provide 1/8 inch from bottom of door to top of decorative floor finish or covering. Where threshold is shown or scheduled, provide 1/4 inch from bottom of door to top of threshold.
 - 2. Bevel non-fire-rated doors 1/8 inch in 2 inches at lock and hinge edges.
- D. Field-Finished Doors: Refer to the following for finishing requirements:
 - 1. Division 9 Section "Painting."

3.3 ADJUSTING AND PROTECTING

- A. Operation: Rehang or replace doors that do not swing or operate freely.
- B. Finished Doors: Replace doors that are damaged or do not comply with requirements. Doors may be repaired or refinished if work complies with requirements and shows no evidence of repair or refinishing.

END OF SECTION 08212