

## **SECTION 08212 - STILE AND RAIL WOOD DOORS**

### **PART 1 GENERAL**

#### **1.01 RELATED DOCUMENTS**

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

#### **1.02 SUMMARY**

- A. This Section includes the following:
  - 1. Interior stile and rail wood doors with louvered panels.
- B. Related Sections include the following:
  - 1. Division 6 Section "Finish Carpentry" for wood door frames.

#### **1.03 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 certifying that the products furnished comply with requirements.

#### **1.04 QUALITY ASSURANCE**

- A. Source Limitations: Obtain stile and rail wood doors through one source from a single manufacturer.
- B. Quality Standard: Comply with the following standard:
  - 1. AWI Quality Standard: AWI's "Architectural Woodwork Quality Standards" for grade of door, construction, finish, and other requirements.

#### **1.05 DELIVERY, STORAGE, AND HANDLING**

- A. Protect doors during transit, storage, and handling to prevent damage, soiling, and deterioration. Comply with requirements of referenced standard and manufacturer's written instructions.
  - 1. Individually package doors in plastic bags or cardboard cartons.
- B. Mark each door with individual opening numbers used on Shop Drawings. Use removable tags or concealed markings.

#### **1.06 PROJECT CONDITIONS**

- A. Environmental Limitations: Do not deliver or install doors until building is enclosed, wet-work is complete, and HVAC system is operating and will maintain temperature and relative humidity at occupancy levels during the remainder of the construction period.

## **PART 2 PRODUCTS**

### **2.01 MANUFACTURERS**

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
  - 1. Stile and Rail Doors of Stock Design and Construction:
    - a. Eggers Industries; Architectural Door Division.
    - b. Morgan Manufacturing.
    - c. Simpson Door Company.

### **2.02 STILE AND RAIL DOORS OF STOCK DESIGN AND CONSTRUCTION**

- A. Interior Doors: Comply with the following requirements:
  - 1. NWWDA Grade for Opaque Finish: Standard.
  - 2. Wood Species for Opaque Finish: Manufacturer's standard softwood species and cut for stiles and rails; with panels of same species or wood-base construction materials, as standard with manufacturer.
  - 3. Design and Layout: Panel design as described below under NWWDA design group, with minimum dimensions for stiles, rails, panels, and other elements complying with NWWDA I.S.6.
    - a. NWWDA Design Group: Bifold Doors.
      - 1) Panel Design: As indicated.
    - b. NWWDA Design Group: Louver Doors.
      - 1) Panel Design: As indicated.

### **2.03 FABRICATION**

- A. Fabricate stile and rail wood doors in sizes indicated for Project site fitting.
- B. Factory machine doors for hardware that is not surface applied. Locate hardware to comply with DHI-WDHS-3. Comply with final hardware schedules, door frame Shop Drawings, DHI A115-W series standards, and hardware templates.
  - 1. Coordinate measurements of hardware mortises in metal frames to verify dimensions and alignment before factory machining.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Examine installed door frames before hanging doors.
  - 1. Verify that 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.

### **3.02 INSTALLATION**

- A. Hardware: For installation, see Division 8 Section "Door Hardware."
- B. Manufacturer's Written Instructions: Install wood doors to comply with manufacturer's written instructions, referenced quality standard, and as indicated.
- C. Job-Fit 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 (3.2 mm) at heads, jambs, and between pairs of doors. Provide 1/8 inch (3.2 mm) from bottom of door to top of decorative floor finish or covering. Where threshold is shown or scheduled, provide 1/4 inch (6.4 mm) from bottom of door to top of threshold.

D. Field-Finished Doors: Refer to the following for finishing requirements:

1. Division 9 Section "Painting."

### **3.03 ADJUSTING AND PROTECTING**

- A. Operation: Rehang or replace doors that do not swing or operate freely.
- B. Finished Doors: Refinish or replace doors damaged during installation.
- C. Protect doors as recommended by door manufacturer to ensure that wood doors are without damage or deterioration at the time of Substantial Completion.

**END OF SECTION 08212**

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