

SECTION 08212 - STILE AND RAIL WOOD DOORS

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Interior stile and rail wood doors.
 - 2. Shop priming stile and rail wood doors.
 - 3. Factory fitting stile and rail wood doors to frames and factory machining for hardware.
- B. Related Sections include the following:
 - 1. Division 6 Section "Interior Architectural Woodwork" for wood door frames.
 - 2. Division 8 Section "Glass and Glazing" for glass in doors.

1.2 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.

1.3 QUALITY ASSURANCE

- A. Source Limitations: Obtain stile and rail wood doors through one source from a single manufacturer.
- B. Source Limitations: Obtain stile and rail wood doors of special design and construction from same fabricator as work in Division 6 Section "Interior Architectural Woodwork."
- 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.

1.4 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.

1.5 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 maintaining temperature and relative humidity at occupancy levels during the remainder of the construction period.

1.6 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: One year.

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. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, products specified.

2.2 MATERIALS

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

1. Assemble interior doors, frames, and sidelites, including components, with either dry-use or wet-use adhesives complying with ASTM D 5572 for finger joints and ASTM D 5751 for joints other than finger joints.

2.3 STILE AND RAIL DOORS OF SPECIAL DESIGN AND CONSTRUCTION

A. Manufacturers:

1. Algoma Hardwoods, Inc.
2. Eggers Industries; Architectural Door Division.
3. ENJO Architectural Millwork.
4. Karona, Inc.
5. Maiman Company (The).
6. Oakwood Woodworks.
7. Pinecrest, Inc.
8. Select Interior Door, Ltd.
9. SUN-DOR-CO.
10. Woodtech Trading Company.

B. Construction, General:

1. Grade of Doors for Opaque Finish: Premium.

C. Door Construction for Opaque Finish:

1. Stile and Rail Construction: Clear softwood; may be edge glued for width and finger jointed.
2. Stile and Rail Construction: Veneered, structural composite lumber or edge-glued, finger-jointed lumber.

D. Interior Doors:

1. Custom Fabricated per AWI requirements.
2. Stile and Rail Widths: As indicated.
3. Molding Profile: As indicated.
4. Glass for Openings: Uncoated, clear, fully tempered float glass, 5.0 mm thick complying with SBCCI Glazing requirements.

2.4 FABRICATION

A. Factory fit doors to suit frame-opening sizes indicated, with the following uniform clearances and bevels, unless otherwise indicated:

1. Clearances: Provide 1/8 inch at heads, jambs, and between pairs of doors. Provide 1/2 inch from bottom of door to top of decorative floor finish or covering. Where threshold is shown or scheduled, provide 3/8 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.

- 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.
- C. Glazed Openings: Glaze doors at factory with glass of type and thickness indicated, complying with Division 8 Section "Glazing." Install glass using manufacturer's standard elastomeric glazing sealant complying with ASTM C 920. Secure glass in place with removable wood stops.

2.5 SHOP PRIMING

- A. Doors for Opaque Finish: Shop apply one coat of wood primer specified in Division 9 Section "Painting" to faces and edges of doors, including mortises and cutouts.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. 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. Factory-Fitted Doors: Align in frames for uniform clearance at each edge.
- 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