

SECTION 08212 - STILE AND RAIL WOOD DOORS

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes interior stile and rail wood.

1.2 SUBMITTALS

- A. Product Data: For each type of door.
 - 1. Include adhesive manufacturer's product data indicating urea-formaldehyde content.
- B. Shop Drawings: Indicate location, size, and hand of each door; elevation of each kind of door; construction details not covered in Product Data; and other pertinent data.
- C. Samples: For each species and finish required.

1.3 QUALITY ASSURANCE

- A. Quality Standard for Doors of Stock Design and Construction: Comply with WDMA I.S.6, "Industry Standard for Wood Stile and Rail Doors."
- B. Quality Standard for Doors of Special Design and Construction: Comply with AWI's "Architectural Woodwork Quality Standards."
- C. Fire-Rated Wood Doors: Doors that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Assemble exterior doors and sidelites, including components, with wet-use adhesives.
- B. Provide doors made with adhesives and composite wood products that do not contain added urea-formaldehyde resins.

2.2 STILE AND RAIL DOORS OF SPECIAL DESIGN AND CONSTRUCTION

- A. Available Manufacturers:
 - 1. Algoma Hardwoods, Inc.
 - 2. Eggers Industries; Architectural Door Division.
 - 3. Karona, Inc.
 - 4. Maiman Company (The).
 - 5. Marshfield Door Systems.
 - 6. Pinecrest, Inc.
- B. Construction, General:
 - 1. Grade of Doors for Transparent Finish: Premium.
 - 2. Wood Species and Cut for Transparent Finish: White oak, plain sliced.
- C. Door Construction for Transparent Finish:
 - 1. Stile and Rail Construction: Clear lumber; may be edge glued for width or veneered, structural composite lumber with matching solid edge.
- D. Interior Doors:
 - 1. Construction: 1-3/4-inch- (44-mm-) thick stiles and rails and veneered, flat panels, complying with requirements indicated for interior doors.
 - 2. Flat-Panel Thickness: 1/2 inch (13 mm).

2.3 FABRICATION

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

- B. Factory fit doors to suit frame-opening sizes indicated. Comply with clearance requirements of referenced quality standard for fitting.
- C. Factory machine doors for hardware that is not surface applied.
- D. Glazed Openings: Glaze doors at factory with glass of type and thickness indicated, complying with Division 8 Section "Glazing."
- E. Glazed Openings: Trim openings indicated for glazing with solid wood moldings, with one side removable.
- F. Transom and Side Panels: Fabricate panels to match adjoining doors in materials, finish, and quality of construction.

2.4 FACTORY FINISHING

- A. Finish wood doors at factory that are indicated to receive transparent finish. Field finish wood doors indicated to receive opaque finish.
- B. Grade: Premium.
- C. Finish: Manufacturer's standard finish with performance requirements comparable to AWI System TR-6 catalyzed polyurethane.
- D. Staining: As selected by Architect from manufacturer's full range.
- E. Effect: Open-grain finish.
- F. Sheen: Satin.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install wood doors to comply with manufacturer's written instructions and with referenced quality standard, and as indicated.
- B. 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 (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.
 - 2. Bevel non-fire-rated doors 1/8 inch in 2 inches (3-1/2 degrees) at lock and hinge edges.
 - 3. Bevel fire-rated doors 1/8 inch in 2 inches (3-1/2 degrees) on lock edge; trim stiles and rails only to extent permitted by labeling agency.

END OF SECTION 08212