

SECTION 081433 - STILE AND RAIL WOOD DOORS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Exterior stile and rail wood doors.
2. Interior stile and rail wood doors.
3. Priming and finishing stile and rail wood doors.
4. Fitting stile and rail wood doors to frames and machining for hardware.

1.2 SUBMITTALS

A. Product Data: For each type of product indicated.

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.

PART 2 - PRODUCTS

2.1 MATERIALS

A. General: Use only materials that comply with referenced standards and other requirements specified. Assemble exterior doors with exterior grade weather resistant glue.

2.2 EXTERIOR STILE AND RAIL WOOD DOORS

A. Exterior Stile and Rail Wood Doors : Exterior doors complying with AWI's "Architectural Woodwork Quality Standards," and with other requirements specified.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering custom products that may be incorporated into the work include the following:

- a. Adams Architectural Millwork.
- b. Harring Doors.

Other manufacturers as approved by Architect.

2. Grade: Premium.
3. Finish: Opaque.
4. Door Construction for Opaque Finish:
 - a. Stile and Rail Construction : Clear softwood.
 - b. Raised-Panel Construction : Clear softwood lumber.
5. Raised-Panel Thickness : As indicated on Drawings

2.3 STILE AND RAIL WOOD DOOR FABRICATION

- A. Fabricate stile and rail wood doors in sizes indicated for field fitting.
- B. 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 (3 mm) at heads, and jambs. Provide 1/2 inch (13 mm) from bottom of door to top of decorative floor finish or covering. Where threshold is shown or scheduled, provide not more than 3/8 inch (10 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.
- C. Factory machine doors for hardware that is not surface applied.
- D. Exterior Doors : Factory treat exterior doors after fabrication with water-repellent preservative to comply with WDMA I .S .4.

2.4 SHOP PRIMING & FINISHING

Doors for Opaque Finish: Shop prime doors with one coat of wood primer specified in Division 09 Section "Painting." Seal all four edges, edges of cutouts, and mortises with primer .

FINISHING

- A. Finish wood doors at woodworking shop .For doors indicated to be shop finished, comply with AWI's "Architectural Woodwork Quality Standards, and with other requirements specified.

PART 3- EXECUTION

3 .1 INSTALLATION

- A. Hardware: For installation, see Division 08 Section "Door Hardware . " Install wood doors to comply with manufacturer's written instructions, AWI's "Architectural Woodwork Quality Standards," and other requirements specified.
- B. Field-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. Machine doors for hardware. Seal cut surfaces after fitting and machining.
- C. Clearances:

1. Provide 1/8 inch (3 mm) at heads, jambs, and between pairs of doors. Provide 1/2 inch (13 mm) from bottom of door to top of decorative floor finish or covering. Where threshold is shown or scheduled, provide not more than 3/8 inch (10 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.

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

END OF SECTION