

SECTION 08 14 00**STILE AND RAIL WOOD DOORS****PART 1 - GENERAL****1.1 DESCRIPTION**

- A. This section specifies interior and exterior stile and rail doors with prefinish, prefit option.

1.2 RELATED WORK

- A. Door hardware including hardware location (height): Section 08 71 00, DOOR HARDWARE.
- B. Installation of doors and hardware: Section 08 14 00, STILE AND RAIL WOOD DOORS, or Section 08 71 00, DOOR HARDWARE.
- C. Glazing: Section 08 80 00, GLAZING.
- D. Frames: Section 06 20 00, FINISH CARPENTRY.
- E. Finish: Section 09 06 00, SCHEDULE FOR FINISHES.
- F. Intrusion alarm: Section 28 16 11, INTRUSION DETECTION SYSTEM

1.3 SUBMITTALS

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Samples:
 - 1. Corner section of stile and rail door 300 mm (12 inches) square, showing details of construction, labeled to show grade and type number and conformance to specified standard.
 - 2. Finish sample: Corner section 300 mm (12 inch) by 600 (24inch) showing specified color and finish. Factory finish sample where the prefinished option is accepted.
- C. Shop Drawings:
 - 1. Show every door in project and schedule location in building.
 - 2. Indicate type, grade, finish and size; include detail of glazing louvers and pertinent details.
 - 3. Provide information concerning specific requirements not included in the manufacturer's literature and data submittal.
- D. Manufacturer's Literature and Data:

1. Interior and exterior doors.

E. Laboratory Test Reports:

1. Screw holding capacity test report in accordance with WDMA T.M.10.
2. Split resistance test report in accordance with WDMA T.M.5.
3. Cycle/Slam test report in accordance with WDMA T.M.7.
4. Hinge-Loading test report in accordance with WDMA T.M.8.

1.4 WARRANTY

- A. Doors are subject to terms of Article titled "Warranty of Construction", FAR clause 52.246-21, except that warranty shall be as follows:

1. For interior doors, manufacturer's warranty for lifetime of original installation.
2. For exterior doors, manufacturer's warranty for five (5) years from date of original installation.

1.5 DELIVERY AND STORAGE

- A. Factory seal doors and accessories in minimum of 6 mill polyethylene bags or cardboard packages which shall remain unbroken during delivery and storage.
- B. Store in accordance with WDMA I.S.1-A, J-1 Job Site Information.
- C. Label package for door opening where used.

1.6 APPLICABLE PUBLICATIONS

- A. Publications listed below form a part of this specification to extent referenced. Publications are referenced in text by basic designation only.

B. Window and Door Manufacturers Association (WDMA):

1. I.S.4-07A Water-Repellent Preservative Non-Pressure Treatment for Millwork
2. I.S.6A-01 Architectural Wood Stile and Rail Doors
3. T.M.5-90 Split Resistance Test Method
4. T.M.6-08 Adhesive (Glue Bond) Durability Test Method
5. T.M.7-08 Cycle-Slam Test Method
6. T.M.8-08 Hinge Loading Test Method
7. T.M.10-08 Screwholding Test Method

C. ASTM International (ASTM):

1. E90-04 Laboratory Measurements of Airborne Sound Transmission Loss

D. Door and Hardware Institute:

1. DHI A115-W Wood Door Hardware Standards, Hardware Preparation.

PART 2 - **PRODUCTS**

2.1 DOORS

A. General:

1. Provide doors from a single manufacturer.
2. Thickness: 45 mm (1-3/4 inches) unless otherwise shown or specified.
3. Give exposed wood parts of exterior doors a water-repellent preservative treatment in accordance with WDMA I.S.4.

B. Face Veneer:

1. In accordance with WDMA I.S.6A
2. One species throughout the project unless scheduled or otherwise shown.
3. For painted finishes: Custom Grade, mill option close grained hardwood, premium or medium density overlay. Do not use Lauan.
4. Factory sand doors for finishing.

2.2 STILE AND RAIL DOORS

A. Meeting requirements of WDMA I.S.6 and WDMA I.S.6A

B. Ponderosa pine doors of size and design shown.

C. Grade: Custom.

D. Door Panels:

1. Grain of face of panels parallel with longest dimensions of panel.
2. Flat panels: Veneered composite core, not less than 6 mm (5/8 inch) thick.
3. Raised panels: Unless otherwise shown, thickness of raised panels not less than the following:
 - a. For 35 mm (1-3/8 inch) and 45 mm (1-3/4 inch) thick doors: 28 mm (1-1/8 inch) thick.

E. Stops and Molds:

1. Solid sticking both sides, of same material as stiles and rails, coped at intersections.

2. Glazed openings applied wood stops nailed on interior side of door.

2.3 PREFINISH, PREFIT OPTION

- A. Doors may be factory machined to receive hardware, bevels, undercuts, cutouts, accessories and fitting for frame.
- B. Factory fitting to conform to specification for shop and field fitting, including factory application of sealer to edge and routings.
- C. Shop prime doors.

2.4 IDENTIFICATION MARK:

- A. On top edge of door.
- B. Either a stamp, brand or other indelible mark, giving manufacturer's name, door's trade name, construction of door, code date of manufacture and quality.
- C. Accompanied by either of the following additional requirements:
 1. An identification mark or a separate certification including name of inspection organization.
 2. Identification of standards for door, including glue type.
 3. Identification of veneer and quality certification.
 4. Identification of preservative treatment for stile and rail doors.

2.5 SEALING:

- A. Give top and bottom edge of doors two coats of catalyzed polyurethane or water resistant sealer before sealing in shipping containers.

PART 3 - EXECUTION

3.1 DOOR PREPARATION

- A. Field, shop or factory preparation: Do not violate the qualified testing and inspection agency label requirements for fire rated doors.
- B. Clearances between Doors and Frames and Floors:
 1. Maximum 3 mm (1/8 inch) clearance at the jambs, heads, and meeting stiles, and a 19 mm (3/4 inch) clearance at bottom, except as otherwise specified.
 2. Maximum clearance at bottom of sound rated doors, light-proofed doors, doors to operating rooms, and doors designated to be

fitted with mechanical seal: 10 mm (3/8 inch).

- C. Provide cutouts for special details required and specified.
- D. Rout doors for hardware using templates and location heights specified in Section, 08 71 00 DOOR HARDWARE.
- E. Fit doors to frame, bevel lock edge of doors 3 mm (1/8 inch) for each 50 mm (2 inches) of door thickness, undercut where shown.
- F. Immediately after fitting and cutting of doors for hardware, seal cut edges of doors with two coats of water resistant sealer.
- G. Finish surfaces, including both faces, top and bottom and edges of the doors smooth to touch.

3.2 INSTALLATION OF DOORS APPLICATION OF HARDWARE

- A. Install doors and hardware as specified in this Section.

3.3 DOOR PROTECTION

- A. As door installation is completed, place polyethylene bag or cardboard shipping container over door and tape in place.
- B. Provide protective covering over knobs and handles in addition to covering door.
- C. Maintain covering in good condition until removal is approved by VA.

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