

SECTION 08 14 33

STILE AND RAIL WOOD DOORS

This section includes notes to assist the user in editing the section to suit project requirements. These notes are included as hidden text, and can be revealed or hidden by one of the following methods:

Microsoft Word: From the pull-down menus select TOOLS, then OPTIONS. Under the tab labeled VIEW, select or deselect the HIDDEN TEXT option.

Corel WordPerfect: From the pull-down menus select VIEW, then select or deselect the HIDDEN TEXT option.

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Wood stile and rail doors.
 - 2. [Wood door frames.]
 - 3. [Wood sidelites.]
 - 4. [Wood thresholds.]
 - 5. Factory finishing.
- B. Related Sections:
 - 1. Division 01: Administrative, procedural, and temporary work requirements.
 - 2. Section [08 71 00 - Door Hardware] [_____ - _____]: Door hardware.

1.2 REFERENCES

- A. Architectural Woodwork Institute (AWI) - Architectural Woodwork Quality Standards Illustrated, 8th Edition.
- B. Forest Stewardship Council (FSC) - Certification Procedures.

1.3 SUBMITTALS

- A. Submittals for Review:
 - 1. Shop Drawings: Show locations, elevations, dimensions, fire ratings, and preparation for hardware.
 - 2. Samples:
 - a. [12 x 12] [__ x __] inch door samples showing stile, rail, and wood panel.
 - b. [5 x 11] [__ x __] inch wood samples showing selected finish.
- B. Sustainable Design Submittals:
 - 1. Regional Materials.

1.4 DELIVERY, STORAGE AND HANDLING

- A. Wrap doors in foam with corrugated cardboard at top and bottom.
- B. Provide corrugated cardboard at top and bottom of doors.
- C. Do not deliver doors until building is substantially water and weather tight and HVAC system is operational.
- D. Store doors flat and level, with spacers between doors to allow for air circulation, in protected, dry area.

- E. Maintain humidity in storage areas between 25 and 55 percent.
- F. Ship interior frames knocked-down, for field assembly.
- G. Ship exterior frames factory assembled when size permits.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Contract Documents are based on products by Select Door.
- B. Substitutions: [Under provisions of Division 01.] [Not permitted.]

2.2 MATERIALS

A. Interior Stile and Rail Wood Doors:

- 1. Type: AWI Section 1400, Premium Grade.
- 2. Wood: AWI Section 100.
 - a. Stiles and rails: Stain Grade [Red Oak] [White Oak] [Mahogany] [Cherry] [Maple] [Ash] [Poplar] [____]; AWI Grade I.
 - b. Stiles: Stave core construction with solid hardwood staves without finger joints, edge band of same species and grade as faces, and face of 1/8 inch lumber.
 - c. Rails: Solid lumber construction.
 - d. Exposed lumber of AWI Grade 1 stock.
 - e. Rim raised panels: Medium density fiberboard core with Grade I lumber edgeband and Grade AA veneer, matched for color and grain.

**** OR ****

- 3. Wood: AWI Section 100.
 - a. [Paint Grade [Poplar] [Mahogany] [Kapere Mahogany]] [or] [Grade II lumber].
 - b. Medium density fiberboard panels.
- 4. Adhesives: Type II - Water Resistant.

B. Exterior Stile and Rail Wood Doors:

- 1. Type: AWI Section 1400, Premium Grade.
- 2. Wood: AWI Section 100.
 - a. Stiles and rails: Stain Grade [Red Oak] [White Oak] [Mahogany] [Cherry] [Maple] [Ash] [____]; AWI Grade I.
 - b. Stiles: Stave core construction with solid hardwood staves without finger joints, edge band of same species and grade as faces, and face of 1/8 inch lumber.
 - c. Rails: Solid lumber construction.
 - d. Exposed lumber of AWI Grade 1 stock.
 - e. Rim raised panels: [Medex.] [Medium density fiberboard core with Grade I lumber edgeband and Grade AA veneer, matched for color and grain.]

**** OR ****

- 3. Wood: AWI Section 100.
 - a. [Paint Grade [Mahogany] [Kapere Mahogany]] [or] [Grade II lumber].
 - b. Medex panels.
- 4. Adhesives: Type I - Waterproof.

C. Wood Door Frames: Same species as doors, without finger joints or edge laminations.

2.3 ACCESSORIES

A. Glass:

1. Glass: [1/8] [1/4] inch thick [clear] [gray tinted] [bronze tinted] safety glass.
2. Glass: 1/4 inch thick clear with [1] [1-1/2] inch bevels.
3. Glass: Leaded, in [3/4] [1] inch thick insulated unit with safety glass both sides.
4. Glass: [3/4] [1] inch thick [clear] [bronze tinted] [gray tinted] insulating safety glass.

B. Glazing Sealant: [Acrylic] [Silicone] type.

2.4 FABRICATION - DOORS

- A. Fabricate in accordance with AWI Section 1400.
- B. Fabricate doors of [stick and cope construction] [French stick and cope construction] [Dado and tenon construction] [Reverse dado and tenon construction] with 5/8 inch hardwood dowels.
- C. Provide shaper-molded cope and stick profiles, raised or applied moldings.
- D. Fit doors to frames at factory with clearances in accordance with AWI Section 1400.
- E. Machine doors at factory in accordance with AWI Section 1400, to receive hardware specified in Section [08 71 00.] [_____].

2.5 FABRICATION - FRAMES

- A. Fabricate in accordance with AWI Section 1400.
- B. Fabricate from [3/4] [1-1/16] inch thick flat lumber with 1/2 x 1-1/2 inch profiled applied door stop] [1-1/4 inch rabbeted lumber] without finger joints.
- C. Join door frames with rabbeted and screwed joints.
- D. Extend jambs 1-1/4 inches below bottom of door.
- E. Weatherstrip frames at head and jambs of doors; set weatherstripping in kerf in frame. Install sweep in door bottom.
- F. Machine door frames at factory in accordance with AWI Section 1400, to receive hardware specified in Section [08 71 00.] [_____].

2.6 FINISHES

- A. Finish doors [and frames] in accordance with AWI Section 1500.
- B. Interior Doors [and Frames] - Transparent Finish:
 1. Sanding sealer with hand sanding between coats.
 2. Spray-applied [semigloss laquer with hand-rubbed sheen.] [catalyzed laquer.]
- C. Exterior Doors [and Frames] - Transparent Finish:
 1. Durethane sealer with hand-sanding between coats.
 2. Spray-applied [semigloss polyurethane varnish with hand-rubbed sheen.] [catalyzed polyurethane.]
- D. Doors [and Frames] - Opaque Finish: White vinyl primer paint.
- E. Thresholds: [Oiled finish.] [Catalyzed polyurethane.]

PART 3 - EXECUTION

3.1 PREPARATION

A. Condition doors to average humidity that will be encountered after installation.

3.2 INSTALLATION

A. Install doors in accordance with AWI Section 1700, Premium Grade requirements.

B. Install doors plumb and level.

C. If field cutting for height is necessary, cut bottom edge only, [3/4] [__] inch maximum.

D. Seal field cut surfaces with paint or same finish as door faces.

E. Install door hardware in accordance with Section [08 71 00.] [____.].

END OF SECTION