

DIVISION 8 – DOORS AND WINDOWS

SECTION 08211

FLUSH WOOD DOORS

PART 1 GENERAL

1.10 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specifications sections, apply to work of this section.

1.20 SUMMARY

- A. Provide all new flush wood door as indicated on drawings and in schedules.
 - 1. New interior wood doors are required.
- B. Types of doors required include the following:
 - 1. Rated and non-rated solid core architectural flush wood doors with wood veneer faces.

1.30 SUBMITTALS

- A. Product Data: Door Manufacturer's technical data for each type of door, including details of core and edge construction, trim for openings and louvers and factory-finishing specifications.
- B. Shop Drawings: Submit shop drawings indicating location and size of each door, elevation of each kind of door, details of construction, location and extent of hardware blocking, fire ratings, requirements for factory finishing and other pertinent data.
 - 1. For factory-premachined doors, indicate dimensions and locations of cutouts for locksets and other cutouts adjacent to light and louver openings.
- C. Samples: Submit samples, 1'-0" square or as indicated, for the following:
 - 1. Doors for Transparent Finish: Door faces with solid wood edging representing typical range of color and grain for each species of veneer and solid lumber required.

1.40 QUALITY ASSURANCE

- A. Quality Standards: Comply with the following standards:
 - 1. NWWDA Quality Standard: I.S.1 "Industry Standard for Wood Flush Doors", of National Wood Window and Door Association (NWWDA).
 - 2. AWI Quality Standard: "Architectural Woodwork Quality Standard"; Including Section 1300 "Architectural Flush Doors", of Architectural Woodwork Institute (AWI) for grade of door, core construction, finish and other requirements exceeding those of NWWDA quality standard.

1.50 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Protect doors during transit, storage and handling to prevent damage, soiling and deterioration. Comply with requirements of referenced standards and recommendations of NWWDA pamphlet "How to Store, Handle, Finish, Install and Maintain Wood Doors", as well as with manufacturer's instructions.
- B. Identify each door with individual opening numbers which correlate with designation system used on shop drawings for door, frames and hardware, using temporary, removable or concealed markings.

1.60 PROJECT CONDITIONS:

- A. Conditioning: Do not deliver or install doors until conditions for temperature and relative humidity have been stabilized and will be maintained in storage and installation areas during remainder of construction period to comply with the following requirements applicable to project's geographical location:
 - 1. Referenced AWI quality standard including Section 100-S-3 "Moisture Content".

1.70 WARRANTY:

- A. General: Warranties shall be in addition, and not a limitation of, other rights the Owner may have under the Contract Documents.
- B. Door Manufacturer's Warranty: Submit written agreement in door manufacturer's standard form signed by Manufacturer, Installer and Contractor, agreeing to repair or replace defective doors that have warped (bow, cup or twist) or that show telegraphing of core construction in face veneers, or do not conform to tolerance limitations of referenced quality standards.
 - 1. Warranty shall also include reinstallation that may be required due to repair or replacement of defective doors where defect was not apparent prior to hanging.
 - 2. Warranty shall be in effect during following period of time after date of substantial completion.
 - 3. Solid Core Interior Doors:
 - a. Life of Installation.
- C. Contractor's Responsibilities: Replace or refinish doors where contractor's work contributed to rejection or to voiding of manufacturer's warranty.

PART 2 – PRODUCTS

2.10 INTERIOR FLUSH WOOD DOORS:

- A. Solid Core Doors for Transparent Finish: Comply with the following requirements:
 - 1. Faces: To be Premium Grade Rift Sawn Red Oak wood doors.
 - 2. AWI Grade: Premium unless otherwise noted.
 - 3. Construction: PC-5 Veneer, Bonded Particle Core,
 - 4. Top and Bottom Edge: 1-1/8" minimum wood prior to field fitting, one piece or laminated without voids or show-through (telegraphing) (SCL recommended for interior use only).
 - 5. Vertical Edge: 1-3/8" minimum hardwood; solid, laminated or veneered, prior to field fitting. SCL allowed under hardwood in lamination.
 - 6. Core: Particleboard, ANSI A208.1, grade LD-1 or LD-2.
 - 7. Bonding: Stiles and rails securely bonded to core, then entire unit abrasive planed before veneering.
 - 8. Crossband: Edge glued or one-piece wood product, without voids or show-through (telegraphing).
- B. Solid Core Doors for Opaque Finish: Comply with the following requirements (if applicable):
 - 1. Faces: Medium density overlay over standard thickness hardwood face veneers.
 - 2. Faces: Any closed-grain hardwood or mill option.
 - 3. AWI Grade: Standard.
 - 4. Construction: PC-5 Veneer, Bonded Particle Core.
- C. Faces and AWI Grade: Premium Grade Rift Sawn Red Oak.
 - 1. Construction: Manufacturer's standard core construction as required providing fire-resistance rating indicated.
 - 2. Edge Construction: Provide manufacturer's standard laminated edge construction for improved screw-holding capability and split resistance as compared to edges composed of a single layer of treated lumber.

2.40 DOOR FRAMES:

- A. All new interior doorframes as shown on the plans.

2.50 FABRICATION:

- A. Fabricate flush wood doors to produce doors complying with following requirements.
 - 1. In sizes indicated. Factory prepared for hardware. Factory pre-fit to standard clearances. See Division 8.

- B. Hardware Prep: All doors are to have factory hardware prep. Coordinate specified hardware with hardware supplier for each specific door and door condition prior to fabrication and preparation.

PART 3 – EXECUTION

3.10 EXAMINATION OF DOORS AND FRAMES:

- A. Examine installed door frames prior to hanging door:
 - 1. Verify that frames comply with indicated requirements for type, size, location and swing characteristics and have been installed with plumb jambs and level heads.
 - 2. Reject doors with defects.
- B. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.20 INSTALLATION OF DOORS:

- A. Hardware: For installation see Division-8 “Finish Hardware” section of these specifications.
- B. Manufacturer’s Instructions: Install wood doors to comply with manufacturer’s instructions and have referenced AWI standard and as indicated.
- C. Job-fit doors: Align and fit salvaged 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. Fitting clearances for Non-Rated Doors: Provide 1/8” at jambs and heads; 1/16” per leaf at meeting stiles for pairs of doors; and 1/8” from bottom of door to top of decorative floor finish or covering. Where threshold is shown or scheduled, provide 1/4” clearance from bottom of door to top of threshold.
 - 2. Bevel non-rated doors 1/8” in 2” at lock and hinge edges.
- D. Prefit Doors: Fit to frames for uniform clearance at each edge.
- E. Field-Finished Doors: Refer to the following for finishing requirements:
 - 1. Division-9 section “Painting”.

3.30 ADJUSTING AND PROTECTION:

- A. Operation: Hang doors to swing or operate freely.
- B. Finished Doors: Refinish doors damaged during installation.
- C. Protect doors as recommended by door manufacturer to ensure that wood doors will be without damage or deterioration at time of Substantial Completion.

END OF SECTION - 08211