

**SECTION 08 14 00  
SOLID CORE WOOD DOORS**

**PART 1 GENERAL**

**1.1 RELATED DOCUMENTS**

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

**1.2 REFERENCES**

- A. ASTM E413 - Classification for Rating Sound Insulation
- B. AWI - Quality Standards of the Architectural Woodwork Institute
- C. NEMA (National Electric Manufacturers Association) LD3 - High Pressure Decorative Laminates
- D. NFPA 80 – Standard for Fire Doors and Other Opening Protectives
- E. NFPA 252 - Standard Methods of Fire Tests for Door Assemblies
- F. UL 10B - Fire Tests of Door Assemblies
- G. Warnock Hersey (Intertek) - Certification for Fire Door Testing
- H. Warnock Hersey (Intertek) - Certification for Acoustical Testing of Doors
- I. FBC - Florida Building Code

**1.3 SECTION INCLUDES**

- A. Solid core wood doors and transom panels; flush and flush glazed configurations; fire rated and non-fire rated.

**1.4 SUBMITTALS**

- A. Shop Drawings:
  - 1. Submit fully detailed shop drawings of all doors included in this section, including a complete door schedule of all wood doors.
  - 2. Schedule shall include door openings, elevations, sizes, types, swings, required undercuts, special beveling, and special blocking for hardware, factory machining criteria, factory finishing criteria, and identification of louvers, and glazing requirements.
  - 3. Architect shall approve shop drawings prior to the manufacturing or fabrication of doors.
- B. Product Data: Indicate door core materials and construction; veneer species, type and characteristics.
- C. Samples:
  - 1. Submit sample of door veneer, 12" X 12" in size illustrating wood grain, stain color, and sheen.
  - 2. The approved sample shall become the standard of quality for all solid core wood doors delivered to the project site.
  - 3. Contractor shall replace at no cost to the Owner, any door the Owner deems not conforming with the approve sample.

**1.5 QUALITY ASSURANCE**

- A. Manufacture all wood doors in accordance with AWI Quality Standard Section 1300 - Premium Grade Standards.
- B. Finish doors in accordance with AWI Quality Standard Section 1500 – Premium Grade Standards.
- C. Manufacturer: Company specializing in manufacturing the Products specified in this section with minimum 5-years documented experience.
- D. All fire rated wood doors shall comply with all the requirements of NFPA 80.

**1.6 DELIVERY, STORAGE AND PROTECTION**

- A. Section 01 60 00 – Material Equipment and approved equals.
- B. Follow manufactures requirements for storage and handling of doors.

- C. Deliver all wood doors to the site after the HVAC system is operational and temperature and humidity levels are controlled.
- D. Doors shall be stored flat on a level surface in a dry conditioned shelter.
  - 1. Protect doors with resilient packaging.
  - 2. Do not store in damp or wet areas, or in areas that may be subject to sunlight that might blanch the veneer.
  - 3. Cover to keep clean, but allow air circulation by breaking factory seals once on site.
  - 4. Doors stored for more than 7-days shall have all ends primed.

#### 1.7 PROJECT CONDITIONS

- A. Section 01 31 00 – Project Management and Coordination.
- B. Coordinate the work with door opening construction, doorframe, and door hardware installation.

#### 1.8 WARRANTY

- A. Section 01 77 00 - Contract Closeout.
- B. Provide warranty for interior doors to include the life of installation.
- C. Include coverage for delamination of veneer, warping beyond specified installation tolerances, defective materials and telegraphing core construction.

### **PART 2 PRODUCTS**

#### 2.1 CONSTRUCTION

- A. Wood Doors: Flush 1¾" thick meeting AWI Premium Grade standards to size per door schedule.
- B. Face Veneer: Shall be plain-sliced, stain grade White Birch or equivalent as selected by the Architect, medium density, thoroughly kiln dried, smoothly sanded and laid at right angles to grain of cross-band.
- C. Cross-bands: Kiln dried hardwood, 1/16" thickness, laid with grain at right angles to length of door.
- D. Core: Stave core (SLC) or Structural Composite Lumber Core (SCLC).
- E. Edge Bands: Kiln dried hardwood at all edges matching face veneer species, ¾" thick, glued to wood core.
- F. Top and Bottom Rails: Kiln dried hardwood at all edges matching face veneer species, 1½" thick, glued to wood core.
- G. Adhesives:
  - 1. Cross-band and face veneer adhesive shall conform to CS-35, Type I.
  - 2. Core and edge band adhesive shall conform to CS-35, Type II.
- H. Finish: Stain color as selected by the Architect.
- I. Labels: Provide U.L. or WH Label for doors where required see door schedule.
- J. Factory finished doors in accordance with approved sample.

#### 2.2 VISION LITES

- A. Provide vision lites of shapes and sizes where shown on drawings.
- B. Manufacture and supply lites as a unit and meet the requirements of section 08 80 00.

#### 2.3 LOUVERS

- A. Material and Finish: Roll formed steel with a wipe coat of zinc.
- B. Inverted blade, sight proof, and fire rated with fusible link conforming to UL or FM as required.
- C. Frame to have tampered proof fasteners.

### **PART 3 EXECUTION**

#### 3.1 FABRICATION

- A. Refer to Door Schedule for types, sizes, and details.

- B. Fabricate non-rated doors in accordance with AWI Quality Premium requirements.
- C. Fabricate fire rated doors in accordance with AWI Quality Premium and to UL requirements.
  - 1. Attach fire-rating label to door.
- D. Astragals for Fire Rated Double Doors: Steel, T shaped, overlapping and recessed at face edge specifically for double doors.
- E. Sound Rating for Single Door Leaf and Frame Assembly: Provide a minimum STC 30, see door schedule for required rating meet ASTM E413.
- F. Provide lock blocks at lock edge and top of door for closer for hardware reinforcement.
- G. Vertical Exposed Edge of Stiles: Provide hardwood for transparent finish.
- H. Provide factory-machined doors for finish hardware per hardware requirements and dimensions.
  - 1. Do not machine for surface hardware.
  - 2. Provide solid blocking for through bolted hardware.
- I. Factory fit doors for frame opening dimensions identified on shop drawings.

### 3.2 INSTALLATION

- A. Cut all doors for specified hardware and hang.
  - 1. Protect as recommended by manufacturer.
  - 2. Fit all doors to provide a clearance of  $\frac{1}{16}$ " to  $\frac{1}{8}$ " at jambs and heads.
  - 3. Bevel lock stile  $\frac{1}{8}$ " to 2"
  - 4. Ease all edges of doors.
  - 5. Maximum clearance at floor shall be  $\frac{1}{2}$ ", unless otherwise indicated.
  - 6. Install wall mounted doorstops in alignment with the door handle.
    - a. Provide proper backing behind the drywall for the doorstop to prevent the door from puncturing the drywall.
    - b. Coordinate with section 09 22 16.

END OF SECTION