

## **DIVISION 8 - DOORS AND WINDOWS**

### **Section 08210 - Wood Doors**

#### **Introduction**

This is a section where the consultant should use a "performance specification". Do not specify doors by proprietary manufacturer's names or model numbers, and do not restrict vendors to a limited list.

Do not specify wood doors for exterior applications.

Do not specify factory finishing. Coordinate field finishing with Section 09900.

#### **Part 1 - General**

- *Reference the following standards as applicable:*
  - *Architectural Woodwork Institute (AWI) Quality Standards, Section 1300 Architectural Flush Doors, current edition.*
  - *Window & Door Manufacturers Association (WDMA), ANSI/WDMA I.S 1-A-97 Wood Flush Doors*
  - *NFPA 80 – Fire Doors and Windows*
  - *NFPA 252 – Fire Test for Door Assemblies*
  - *ASTM E152 – Fire Tests of Door Assemblies*
  - *UL 10B – Fire Tests of Door Assemblies*
- Require these associations' stamps and labels to be affixed to the doors.
- Require submittal of manufacturer's literature, and 6"x6" corner samples.
- Require doors to be wrapped in plastic. Individual cartoning is not required.
- Specify full lifetime guarantee for interior wood doors. Include defective materials and fabrication, delamination, warping, telegraphing. Include replacement, reinstallation, and refinishing of the door.

#### **Part 2 - Products**

- Specify only 1-3/4" thick solid core doors for all interior applications.
- Specify *doors* complying with AWI "premium grade", *PC7 ME or PC5 ME with select white birch veneer faces*, rotary cut, book matched grain, balance matched assembly, for transparent finish.
- Specify particle board cores, with stiles and rails glued to core and sanded before laminating, for general *non-rated* applications, and for 20-minute fire-rated applications.
- Specify mineral cores of appropriate ratings, with stiles and rails glued to core and sanded before laminating, where 3/4-hour or longer fire-rated doors are required.
- Require solid wood blocks *in fire-rated doors* as support for installation of *mortise and/or cylinder type* locksets (2-3/4" backset), and of closers.
- Require rails and stiles of solid hardwood (not laminated or veneered), 1-1/8" minimum for rails, 1-3/8" minimum for stiles.
- Require surrounds for *lite* and louver openings *for non-rated* doors of solid hardwood (not laminated or veneered), 6" minimum.

- Specify glazing stops of same hardwood as door facing.
- *Require rated metal surrounds and glazing for lites at rated doors. Require profile of rated surround to match profile of specified wood surrounds of non-rated doors.*
- Specify pair matched, set matched, and continuous matched transoms, where applicable.
- Specify only Type I adhesives for all applications.
- Specify minimum STC 35 sound rating for single leaf doors for most applications. Discuss requirements for higher STC ratings with the *Project Manager*.

### **Part 3 - Execution**

- Require that all machining, beveling, trimming, and preparation for hardware application and door installation shall be accomplished in the field. NO factory hardware preparation is permitted.
- Specify installation using the following criteria:
  - bevel doors on 3 sides
  - trim doors to provide 1/8" reveal on 3 sides
  - if beveling or trimming is required, seal all surfaces to prevent swelling
  - machine, trim, and mount doors to receive all specified items of hardware (especially smoke gaskets and weatherstrips), and to latch without binding
- Require that all doors be completely hung, with all hardware installed, tested and adjusted for perfect fit, prior to field finishing. Require that doors be dismounted and hardware removed, and re-hung after finishing is complete.

### **End of Section 08210**