

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.

Part 1 - General

- Reference the following standards as applicable and coordinate specifications to comply without conflicts.
 - 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. For new buildings, alternative veneers require project manager approval.
- 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

- 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.

End of Section 08210