

WOOD DOORS

GENERAL INFORMATION

- 1.1 Wood Doors for fire-rated and non-rated openings.
- 1.2 Wood doors shall be pre-fitted, pre-machined, solid core flush doors with transparent factory finish, generally installed in metal frames. Wood doors installed in custom wood frames should be specified under Architectural Woodwork.
- 1.3 Wherever a fire resistance classification is scheduled for Wood Doors, fire rated units shall be provided that have been tested and comply with National Fire Protection Association (NFPA) Standard No. 80 (Neutral Pressure Testing – UL 10B/Positive Pressure Testing – UL10C), tested per ASTM E 152.
- 1.4 Each fire-rated door shall be identified with a metal UL, or Warnock Hersey Inc. label indicating applicable fire class of the unit. Labels shall be fastened to the hinge edge of door.
- 1.5 Wood Doors shall comply with AWS Section 9 Quality Standards of the Architectural Woodwork Institute (AWI).
- 1.6 All doors requiring environmental certification shall be marked with Forest Stewardship Council (FSC) authorized certificate. Environmental certification ensures that wood components come from certified forests and are processed by certified chain-of-custody manufacturers.
- 1.7 Warranties: Door manufacturer's standard form shall be signed by Manufacturer, Installer, and Contractor, agreeing to repair or replace defective doors that bow, cup, twist, telegraph core construction, or do not conform to tolerance requirements of referenced quality standards. The warranty shall also include removal and reinstallation of defective doors whose defect was not apparent prior to hanging. The warranty period is the lifetime of installation.

DESIGN REQUIREMENTS

- 2.1 Specify compliance with Architectural Woodwork Institute (AWI) Architectural Woodwork Quality Standards, Section 1300, Premium Grade.

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- 2.2 Specify required fire rating(s) of Wood Doors, if any.
- 2.3 Specify required performance standard (extra heavy duty, heavy duty, or standard).
- 2.4 Specify hot press method door construction for laminating face veneers and crossbanding to the core.
- 2.5 Specify Stave Lumber Core construction for non-rated doors.
- 2.6 Specify Mineral Core construction for rated doors.
- 2.7 Specify veneer face grade, cut, species, match between veneer leaves, and assembly of veneer leaves on face.
- 2.8 Specify pair or set matching for openings with more than one door.
- 2.9 Specify that any transom and/or side panels match the construction, exposed surfaces and finish specified for associated door.
- 2.10 Specify factory pre-fitting and beveling of doors to suit frame sizes; pre-machining of doors for hardware; and factory preparation for light openings and louvers.
- 2.11 Specify factory or site glazing (if applicable), and require that glazing method comply with designated fire ratings.
- 2.12 Specify transparent factory finishing, citing applicable AWI finish system. Doors shall be factory finished unless specifically noted.
- 2.13 Submit shop drawings and product data describing/illustrating door types, quality grade, and construction; schedule door types, sizes and locations and key listing to illustrations/descriptions; furnish other data required to fabricate, install and coordinate work with hardware and hollow metal frames.

CONSTRUCTION REQUIREMENTS

- 3.1 Installation of fire rated doors and frames shall comply with NFPA 80.
- 3.2 Installation of all Wood Doors shall comply with AWI standards, and manufacturer's recommendations.

DESIGN REQUIREMENTS

- 3.3 Allow doors to become acclimated to ambient heat and humidity before fitting and hanging them in accordance with manufacturer's recommendations.
- 3.4 Clearances: Provide 1/8-inch clearance at hinge and lock edges and top and 1/16-inch per leaf at meeting edges of pairs. Undercut doors where scheduled; elsewhere, provide 1/4-inch clearance above thresholds and 3/4-inch above finished floor.
- 3.5 Hanging: Hang doors carefully and accurately. Obtain proper perimeter clearances. Eliminate hinge bind. Adjust work so that hardware functions properly and doors operate smoothly.
- 3.6 Remove dust, dirt, and handling marks from doors and frames.
- 3.7 Protect doors from damage and abuse.

REFERENCE

- 4.1 The applicable CSI Specification Section is 08 14 00.