

ARCHITECTURE

SECTION 08210

WOOD DOORS

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes ~~pre-hung~~ interior flush wood doors for use with welded hollow metal frames.
- B. See Division 6 Section "Finish Carpentry" for wood door frames.
- C. See Division 8 Section "Glazing" for glass view panels in stile and rail wood doors.

1.2 SUBMITTALS

- A. Product Data: For each type of door indicated.
- B. Shop Drawings: Indicate location, size, and hand of each door; fire ratings; construction details for stiles, rails, panels, and moldings (sticking); mortises, holes, and cutouts; and other pertinent data.
- C. Samples: For each face material and finish.

1.3 QUALITY ASSURANCE

- A. AWI Quality Standard: AWI's "Architectural Woodwork Quality Standards" for grade of door, core, construction, finish, and other requirements.
- B. WIC Quality Standard: WIC's "Manual of Millwork" for grade of door, core, construction, finish, and other requirements.
- C. Fire-Rated Wood Doors: Doors which are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction.
- D. Safety Glass: Provide products complying with ANSI Z97.1 and testing requirements in 16 CFR 1201, for Category II materials, unless those of Category I are expressly indicated and permitted.

PART 2 - PRODUCTS

2.1 INTERIOR FLUSH WOOD DOOR

- A. Subject to compliance with requirements, manufacturers offering specified items which may be incorporated in the Work include the following:
 - 1. VT Industries (800-827-1615).
 - 2. Mohawk Doors Inc, South Bend, IN (219-288-4464).
 - 3. Eggers Door (414-793-1351)
- B. Solid Core Doors for Transparent Finish: Comply with the following requirements:
 - 1. Faces: Plain Sliced, Stain Grade White Birch, ANSI/HPVA A Grade, Pair and Book-Matched for uniform color and grain pattern AWI Grade: Custom Construction: 5 -Ply Core: Particleboard, ANSI/208.1, 1-LD-2. Thickness: 1-3/4"
 - 2. Factory seal top and bottom rails.
 - 3. Blocking: Provide either hardwood or Structural Composite Lumber (SCL) wood blocking in particleboard-core doors as follows:
 - Top Rail (No Closer): Minimum 1-1/8 inch. Top Rail (Closer): Minimum 5-inch with remaining after installation.** Verify with closer manufacturer.
 - Bottom Rail: Minimum 1-1/8 inch after undercut; 5-inch** bottom-rail in doors indicated to have kick, mop, or armor plates.

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Midrail: 5-inch midrail blocking, in doors indicated to have exit devices at location of exit device.

Stiles: Provide stiles consisting of two plys. The inner ply shall be a minimum 1-1/8 inches of hardwood or LSL engineered lumber. The outer ply shall be of hardwood lumber of the same species as the face veneer with a minimum thickness of 1/4" after pre-fitting and beveling when measured on the wide and narrow side of the door. Veneer tape will not be permitted. Bond stiles and rails to core, then sand entire unit prior to applying cross banding and face veneers.

- C. **Fire-Rated Solid Core Doors:** Comply with the following requirements. Faces and AWI Grade: Provide faces and grade to match non-rated doors in same area of building, unless otherwise indicated. Construction: Manufacturer's standard core construction as required to provide fire-resistance rating indicated.
- When positive-pressure fire testing is required by local jurisdiction,
- Pairs:** Provide fire-rated pairs with fire-retardant stiles matching face veneer that are labeled and listed for kinds of applications indicated without formed-steel edges and astragals. [Provide stiles with concealed intumescent seals]

2.2 FABRICATION

- A. Fabricate stile and rail wood doors for site fitting.
- B. Factory fit doors to suit frame-opening sizes indicated. Comply with clearance requirements of referenced quality standard for fitting. Comply with requirements in NFPA 80 for fire-rated doors.
- C. Factory machine doors for hardware that is not surface applied.
- D. Factory-Glaze Openings: Comply with Division 8 Section "Glazing."
- E. Field-Glazed Openings: Trim openings indicated for glazing with solid wood moldings of profile indicated, with one side removable.
- F. Transom and Side Panels: Fabricate panels matching adjoining doors in materials, finish, and quality of construction.

2.3 SHOP PRIMING

- A. Doors for Opaque Finish: Shop prime exposed portions of doors for paint finish with one coat of wood primer specified in Division 9 Section "Painting."
- B. Transparent Finish: Shop seal faces and edges of doors with stain (if required), other required pretreatments, and first coat of finish as specified in Division 9 Section "Painting."

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install wood doors to comply with referenced quality standard and manufacturer's written instructions.
1. Fire-Rated Doors: Install in corresponding fire-rated frames according to NFPA 80.
- B. Factory-Fitted Doors: Align in frames for uniform clearance at each edge.
- C. Undercut doors as required. Comply with NFPA standards at fire rated doors.

END OF SECTION 08210