

## SECTION 08210 – WOOD DOORS

### PART 1 – GENERAL

- 1.01 Related Documents:** Drawings and general provisions of contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work specified in this section.
- 1.02 Description of Work:** Extent and Location of each type of wood door is shown on drawings and in schedules.  
**Factory Priming** of wood doors is included in this section.  
**Factory Finishing** of wood doors is included in this section.  
**Factory Fitting** to frames (prefitting) and factory preparation for hardware (premachining) for wood doors is included in this section.  
**Light and Louvers** for wood doors, including furnishing and installation, are specified under this section.
- 1.03 Fire-Rated Wood Doors:** Provide wood doors with fire-resistance ratings indicated; materials and type of construction to those used in assemblies that have been tested in compliance with ASTM E 152 and are labeled and listed by a testing and inspection organization acceptable to authority having jurisdiction.  
**Manufacturer:** Obtain doors from a single manufacturer to ensure uniformity in quality of appearance and construction, unless otherwise indicated.
- 1.04 References:** Comply with the applicable requirements of the following standards unless otherwise indicated:  
**ANSI/W.D.M.A. I.S. 1-A-97:** "Industry Standard for Wood Flush Doors" published by Window & Door Manufacturer's Association (W.D.M.A.).  
**AWI Quality Standard:** Section 1300 of "Architectural Woodwork Quality Standards" published by the Architectural Woodwork Institute (AWI). Designations for grade and core construction under types of doors refer to this standard.
- 1.05 Submittals:** **Shop Drawings:** Submit shop drawings indicating location and size of each door, elevation of each kind of door, details of construction, location and extent of hardware blocking, fire ratings, requirements for factory finishing, and other pertinent data. Include finishing specifications for doors to receive factory-applied finish. Include certifications as might be required to show compliance with specifications.  
**Product Data:** Submit door manufacturer's product data, specifications, and installation instructions for each type of wood door.  
**Field Dimensions:** Take dimensions of and obtain all necessary information from existing steel frames and indicate on shop drawings.  
**Samples:** Submit samples for the following:  
**Transparent Finished Doors:** Submit 8" x 11" control sample depicting variation in grain color and pattern. This sample should illustrate natural anomalies of the specified species.  
**Factory Finished Doors:** Submit 8" x 11" samples showing fully completed factory finish on same veneer and edge construction that will be used on factory-finished doors. Submit full range of samples from which selection can be made. Tinting stain may be required at architect's option in order to match finish on existing doors to remain.  
**Specific Product Warranty:** Submit written agreement on door manufacturer's standard form signed by manufacturer, installer, and contractor, agreeing to repair or replace defective doors that have warped (bow, cup, or twist), which show telegraphing of core construction below face veneers, or do not conform to tolerance limitations of W.D.M.A. and AWI.

Lifetime warranted doors shall also include consideration for refinishing and reinstallation that might be required due to repair or replacement of defective doors. Manufacturer reserves the right to determine appropriate resolution of field claims. Warranty shall be in effect during following period of time after date of substantial completion:

**HOLLOW CORE INTERIOR:**

(Select one) \_\_\_\_\_ 1 year \_\_\_\_\_ 2 year \_\_\_\_\_ 5 year.

**SOLID CORE INTERIOR:**

(Select one) \_\_\_\_\_ 1 year \_\_\_\_\_ 2 year \_\_\_\_\_ 5 year \_\_\_\_\_ Lifetime.

**SOLID CORE EXTERIOR:**

(Select one) \_\_\_\_\_ 1 year \_\_\_\_\_ 2 year.

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**Contractor's Responsibilities:** Replace or refinish doors where contractor's work contributed to rejection or to voiding of manufacturer's warranty. Contractor responsible for coordinating and acquiring all necessary information from hardware and metal frame manufacturers.

- 1.06 Product Delivery, Storage, and Handling:** Protect doors during transit, storage, and handling to prevent damage, soiling, and deterioration. Comply with requirements of referenced standards and recommendations of W.D.M.A. pamphlet "HOW TO STORE, HANDLE, FINISH, INSTALL, AND MAINTAIN WOOD DOORS," as well as with manufacturer's instructions. Identify each door with individual opening numbers that correlate with designation system used on shop drawings for door, frames, and hardware, using temporary, removable, or concealed markings.
- Project Conditions:** Conditioning: Do not deliver or install doors until conditions for temperature and relative humidity have been stabilized and will be maintained in storage and installation area during remainder of construction period to comply with the following requirements applicable to project's geographical location: Referenced AWI quality standard including Section 100-S-3 "Moisture Content."

**PART 2 – PRODUCTS**

- 2.01 Acceptable Manufacturers:** Subject to compliance with requirements, provide doors of one of the following:  
 Mohawk Flush Doors, Inc.  
 Algoma Hardwoods, Inc.  
 Eggers Hardwood Products Corp.  
 Weyerhaeuser Company

**2.02 Materials and Components:**

**Fusible Link:** Manufacturer's standard fusible link louver formed of 18-gauge cold-rolled steel, factory-primed or baked enamel paint finish, color selected by architect for use in door of fire rating indicated.

**Pairs:** Furnish formed steel edges and astragals for pairs of fire-rated doors if required. Furnished edge and astragals \_\_\_\_\_ primed \_\_\_\_\_ painted enamel \_\_\_\_\_ wood veneered to match face.

**Metal Light Frames:** 20-, 45-, 60-, and 90-minute approved vision panel. Metal frames for light openings in fire doors: manufacturer's standard frame formed of 18-gauge rolled steel, factory-primed or baked enamel paint finish, approved for use in door of fire rating indicated by architect.

**Wood Frames:** 20-, 45-, 60-, and 90-minute approved vision panel. For light openings in fire doors: manufacturer's standard frame in matching or compatible species and approved for use in door of fire rating indicated by architect.  
 (Select choice) \_\_\_\_\_ 20-minute \_\_\_\_\_ 45/60/90-minute

**Non-Rated Wood Light Frame:** Provide manufacturer's standard profile in species:  
 (Select choice) \_\_\_\_\_ wood species \_\_\_\_\_ matching \_\_\_\_\_ hardwood \_\_\_\_\_ other \_\_\_\_\_ lip \_\_\_\_\_ flush \_\_\_\_\_ other

**2.03 General Fabrication Requirements:**

**Transom and Side Panels:** Whenever transom panels or side panels of wood are shown in same framing systems as wood doors, provide panels that match quality and appearance of associated wood doors, unless otherwise indicated. Fabricate matching panels with same construction, exposed surfaces and finish as specified openings; cut and trim openings through doors and panels as shown. Comply with applicable requirements of referenced standards for kind(s) of doors required.

**Light Openings:** Factory-cut openings: cut out and trim openings through doors to comply with applicable requirements of referenced standards for kind(s) of doors required.

**Fabricate Wood Doors:** Produce doors and prefit in accordance with AWI and W.D.M.A. tolerances for wood and metal frame applications.

**Interior Flush Wood Doors: Solid Core Doors:**

(Select choice) \_\_\_\_\_ 7-Ply \_\_\_\_\_ 5-Ply

(Select choice) \_\_\_\_\_ unfinished \_\_\_\_\_ transparent finish \_\_\_\_\_ opaque finish \_\_\_\_\_ special tint

**Thickness:** (Select choice) \_\_\_\_\_ 1-3/8" \_\_\_\_\_ 1-3/4" \_\_\_\_\_ other thickness

**Veneer Species:** (Select choice) \_\_\_\_\_ Rotary Natural Birch \_\_\_\_\_ Rotary Select \_\_\_\_\_ Red or \_\_\_\_\_ White Birch  
 \_\_\_\_\_ Premium Plain Sliced Natural Birch \_\_\_\_\_ Premium Plain Sliced \_\_\_\_\_ Red or \_\_\_\_\_ White Oak \_\_\_\_\_ Premium Plain Sliced Walnut \_\_\_\_\_ Premium Plain Sliced \_\_\_\_\_ African or \_\_\_\_\_ Honduras Mahogany \_\_\_\_\_ Premium Plain Sliced American  
 \_\_\_\_\_ Black Cherry \_\_\_\_\_ Tempered Hardboard \_\_\_\_\_ Plastic Laminate \_\_\_\_\_ Manufacturer \_\_\_\_\_ Identification numbers  
 \_\_\_\_\_ other species \_\_\_\_\_



AWI Grade: (Select choice)  AA Premium  A Premium  B

Veneer Match: (Select choice)  Center match  Balance match  Running match  Pair match  
 Sequence match  Transom match  Continuous match  End match

Constructions: (Select choice)  core:

- MFPC-7 (Drop-in, non-glued, particle core 28 to 32 lb. density)
- MFSLC-7 (Drop-in, non-glued, wood staved)
- MPC-7  MPC-5 (Stiles and rails bonded to particle core 28 to 32 lb. density)
- MSLC-7  MSLC-5 (Stiles and rails bonded to wood stave core)

Non-Finger Joint Edge Construction: Provides manufacturer's standard edge construction in the following: (Select choice)  
 Softwood  Matching hardwood  Bonded to core  Non-bonded

Special Edge Construction: (Select choice) Stile width  inches, Rail width  inches

Dutch Door: (Select choice)  Shelf one side  Shelf two sides  Shelf bracket  One  Two  Four  
 Matching species  Other species

Dutch door panels to have manufacturer's standard rabbet and standard radius on shelf and shelf bracket.

Wicket Door: Size of shelf as indicated:

(Select choice)  Shelf bracket  One  Two  Matching species  Other species

Cull door to have manufacturer's standard rabbet.

Fire-Rated Mineral Core Doors: Comply with the following requirements: 1-3/4"-thick mineral composition core, bearing label of testing and approval by independent testing agency, doors having been tested in accordance with NFPA 252-1984 and ASIM E152-81 for ratings indicated.

Construction Manufacturer's Standard Core: Construction as required to provide fire resistance rating indicated.

Edge Construction: Provide manufacturer's standard laminated edge construction for improved screw-holding capability and split resistance as compared to edges composed of a single layer of treated lumber.

SPECIAL EDGE CONSTRUCTION (Select choice)  5" top rail  5" bottom rail  5" x 18" lockblocks   
 One side  Two sides  Neutral Pressure  Positive Pressure

- MFD1/3PC-7 20-minute particle core drop-in core
- MFD1/3FSLC-7 20-minute wood stave drop-in core
- MFD1/3PC-7 20-minute edgebonded particle core
- MFD1/3PC-5 20-minute edgebonded particle core
- MFD1/3SLC-7 20-minute edgebonded wood stave core
- MFD1/3SLC-5 20-minute edgebonded wood stave core
- MFD3/4-7 45-minute mineral core C-label
- MFD3/4-5 45-minute mineral core C-label
- MFD1-7 60-minute mineral core B-label
- MFD1-5 60-minute mineral core B-label
- MFD1-1/2-7 90-minute mineral core B-label
- MFD1-1/2-5 90-minute mineral core B-label

**2.04 Factory Finish:** Prefinish wood doors at factory. Comply with recommendations of AWI for factory finishing of doors, including final sanding immediately before application of finishing materials to all faces and edges.

Type Finish: Factory-applied finish complying with AWI Section 1500 in the indicated tint and color.

(Select choice) AWI Catalyzed Polyurethane  TR-6  OP-6

Color of Tint:  Clear  Teak  Red  Brown  Dark Brown  Walnut  Mahogany  Gray  
 Special tint selected by architect

Color of Paint: (Select one)  Manufacturer's standard 2071 White enamel  Manufacturer's standard L-4000  
 Special color selected by architect.

Factory Priming: Seal all faces and edges of doors with two coats of vinyl-alkyd base material.

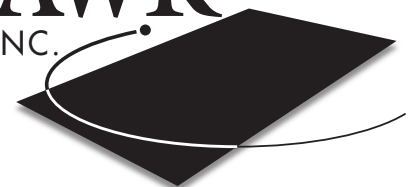
(Select one)  Manufacturer's standard white  Special color selected by architect.

Polywrap All Prefinished Doors: Manufacturers must wrap each door individually with polyethylene material in such a manner as to allow the door to breathe.

**2.05 Prefitting and Preparation for Hardware:** Prefit and Premachine wood doors at factory. Comply with tolerance requirements of AWI for prefitting.

Machine doors in accordance to the final hardware schedule, frame shop drawings, hardware templates, and other essential information required to ensure proper fit of doors and hardware.

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### PART 3 – EXECUTION

**3.03 Adjust and Clean: Operation:** Rehang or replace doors that do not swing or operate freely, as directed by architect.

**Finished Doors:** Refinish or replace doors damaged during installation, as directed by architect.

**Protection and Completed Work:** Advise contractor of proper procedures required for protection of installed wood doors from damage or deterioration until acceptance of work.

END OF SECTION 08210