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SECTION 08 14 00

WOOD DOORS

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**PART 1 - GENERAL**

1.1 SUMMARY

- A. Section Includes: Provide wood doors as indicated.
  - 1. Provide flush face wood doors.
  - 2. Provide flat panel type (stile and rail) wood doors.
  - 3. Provide stile and rail glazed (French) wood doors.
  - 4. Contractor Option: Provide shop finished wood doors.
- B. Related Work
  - 1. Section 06 20 00: Wood door frames.
  - 2. Section 08 11 10: Pressed steel frames.
  - 3. Section 08 17 00: Integrated door opening assemblies.
  - 4. Section 08 71 00: Door hardware.
  - 5. Section 08 80 00: Glass and glazing for wood doors.

1.2 REFERENCES

- A. Architectural Woodwork Standards, Edition 2, 2014, (AWS) adopted and published jointly by AWI, AWMAC, and Woodwork Institute.
- B. Window and Door Manufacturer's Association (WDMA): Guide Specifications.
- C. Underwriters Laboratories Inc. (UL): Building Materials Directory.
  - 1. Materials tested, labeled and inspected by Warnock Hersey International are acceptable upon approval of authorities.

1.3 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
  - 1. Wood Jambs: Coordinate with Section 06 20 00 – Finish Carpentry for prefit wood doors for door jambs.
  - 2. Hardware: Coordinate hardware installation with Section 08 71 00 – Door Hardware.
  - 3. Glazing: Coordinate glazing with Section 08 80 00 – Glazing.
  - 4. Painting: Coordinate with Section 09 90 00 – Painting and Coating whether wood doors are to be shop finished or field painted.

**1.4 SUBMITTALS**

- A. Product Data: Submit manufacturer's literature.
- B. Shop Drawings: Indicate general construction, jointing methods, hardware locations, and locations of cut-outs.
- C. Samples: Submit samples of wood doors indicating construction, veneering, and finish.
  - 1. Submit corner section of each type of door indicated as transparent finished.
  - 2. Submit corner section of wood panel (stile and rail) door.
  - 3. Submit shop finish for wood doors where doors are furnished shop finished.
- D. Certificates: Submit manufacturer certification indicating compliance to applicable requirements of either AWS or WDMA Standards; note which standards were followed or if both standards have been met.

**1.5 QUALITY ASSURANCE**

- A. Sustainability Requirements: Comply with CALGreen requirements including those relative to finish material pollution control for composite wood products formaldehyde limitations and paints and coatings.

**1.6 PROJECT CONDITIONS**

- A. Do not deliver or install doors until conditions for temperature and relative humidity have been stabilized in accordance with referenced standards requirements applicable to Project location.

**1.7 WARRANTY**

- A. Extended Correction Period: Provide for replacing, rehanging, and refinishing wood doors exhibiting defects in materials or workmanship including warp and delamination.
  - 1. Period: Two years.

**PART 2 - PRODUCTS****2.1 MATERIALS**

- A. System Description: Provide wood doors as indicated.
- B. Solid Core Flush Wood Doors: AWS/Premium Grade, 5 Ply Hot Press, 1-3/4" thick solid wood framed glued block construction or particleboard core five ply construction; Contractor option to use WDMA comparable standards.
  - 1. Manufacturers:
    - a. Algoma Hardwoods, Inc.
    - b. Eggers Industries Architectural Door Division.
    - c. Marshfield Door Systems, Inc.
    - d. VT Industries.
    - e. Substitutions: Refer to Section 01 25 00.

2. Opaque Painted Wood Veneers: AWS/Custom Grade White Birch veneers for opaque finish; nominal 1/40" thick before sanding, not less than 1/50" after sanding.
  3. Edges: Stile edges to match face veneer, minimum 1-1/8" thick after trim.
  4. Core: Bond stiles and rails to core and sand prior to assembly of face veneers.
  5. Bond Type: Provide Type II Bond for interior doors.
- C. Fire Rated Doors: 1-3/4" thick, match non-rated door appearance; comply with applicable codes; UL or Warnock Hersey rated.
1. Labels: Place fire rating labels where visible when doors are installed, in opened position.
  2. Fire Ratings: Refer to Drawings for fire rating requirements.
  3. Core: Use wood core construction for 20 minute rated flush doors, mineral core permitted for longer ratings.
  4. Temperature Rise Rating: Provide doors with maximum 450°F Temperature Rise Rating in 30-minute fire exposure period at doors into exit enclosures, for horizontal exits, and as required by applicable codes.
- D. Flat Panel (Stile and Rail) Doors: AWS/Premium Grade, configurations as indicated on Drawings; 1-3/4" thick; Contractor option to use WDMA comparable standards.
1. Manufacturers:
    - a. Eggers Industries Architectural Door Division.
    - b. Karona, Inc.
    - c. Sun-Dor-Co.
    - d. Substitutions: Refer to Section 01 25 00.
  2. Opaque Finished Wood: Manufacturers standard softwood species and cut for stiles and rails; with panels of same species.
  3. Design: As indicated and conforming with WDMA Design Group matching indicated configurations.
  4. Bond Type: Provide Type II Bond for interior doors.
- E. Glazed Stile and Rail (French) Doors: AWS/Premium Grade, configurations as indicated on Drawings; 1-3/4" thick; Contractor option to use WDMA comparable standards.
1. Manufacturers:
    - a. Eggers Industries Architectural Door Division.
    - b. Karona, Inc.
    - c. Sun-Dor-Co.
    - d. Substitutions: Refer to Section 01 25 00.

2. Opaque Finished Wood: Manufacturers standard softwood species and cut for stiles and rails; with panels of same species.
3. Design: As indicated and conforming with WDMA Design Group matching indicated configurations.
4. Bond Type: Provide Type II Bond for interior doors.

## **2.2 FABRICATION**

- A. Fabricate doors in accordance with requirements of specified standards.
  1. Prefit wood doors.
  2. Prepare doors to receive hardware in shop, refer to Section 08 71 00 for hardware requirements and templates.
  3. Factory machine doors for mortise hardware.
- B. Bevel strike edge of single-acting doors, 1/8" in 2".
- C. Fire Rated Doors: Fabricate fire rated doors in accordance with requirements of Underwriters' Laboratories (UL) or Warnock Hersey International.
  1. Provide fire rated doors with maximum allowable edge strips, of wood species to match face veneers.
  2. Provide doors with blocking designed for addition of closers, even where doors are not indicated to receive closers.
  3. Provide astragals and metal edge trim for double doors, in accordance with requirements for fire rated doors.
- D. Make cut-outs and provide matching wood stops for glass; profiles as indicated, type as selected by Architect where not otherwise indicated.
  1. Fire Rated Doors: Provide minimum 18 gage metal stops conforming to fire rating requirements.
- E. Shop Finished Doors (Contractor Option): Conform to requirements specified in Section 09 90 00 – Painting and Coating.

## **PART 3 - EXECUTION**

### **3.1 INSTALLATION**

- A. Install wood doors in accordance with manufacturer's recommendations and installation instructions, and reference standards, plumb and square, and with maximum diagonal distortion of 1/16".
  1. Install fire rated wood doors in accordance with requirements for specified fire label and requirements of NFPA 80.
    - a. Field cutting of fire rated doors shall not be acceptable.
- B. Rehang or replace doors which do not swing or operate freely.

**3.2 PROTECTION**

- A. Protection: Protect doors as recommended by door manufacturer to ensure doors are without damage at time of substantial completion.

- 1. Shop Finished Doors: Refinish or replace damaged doors.

**END OF SECTION**