SECTION 08.14.16
FLUSH WOOD DOORS

PART 1  GENERAL

1.01  SECTION INCLUDES
A. Flush wood doors; flush configuration; fire rated and non-rated.

1.02  RELATED REQUIREMENTS
A. Section 08.11.13 - Hollow Metal Doors and Frames.
B. Section 08.71.00 - Door Hardware.
C. Section 08.80.00 - Glazing.

1.03  REFERENCE STANDARDS
E. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards; 2014.

1.04  SUBMITTALS
A. See Section 01.30.00 - Administrative Requirements, for submittal procedures.
B. Product Data: Indicate door core materials and construction; veneer species, type and characteristics.
C. Shop Drawings: Show doors and frames, elevations, sizes, types, swings, undercuts, beveling, blocking for hardware, factory machining, factory finishing, cutouts for glazing and other details.
   1. Provide the information required by AWI/AWMAC/WI (AWS).
D. Specimen warranty.
E. Samples: Submit two samples of door construction, 12 by 12 inch in size cut from top corner of door.
F. Samples: Submit two samples of door veneer, 12 by 12 inch in size illustrating wood grain, stain color, and sheen.
G. Manufacturer's Installation Instructions: Indicate special installation instructions.
H. Warranty, executed in Owner's name.

1.05  QUALITY ASSURANCE
A. Maintain one copy of the specified door quality standard on site for review during installation and finishing.
B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.
   1. Accredited participant in the specified certification program prior to the commencement of fabrication and throughout the duration of the project.
C. Quality Certification: Provide AWI (QCP) inspection report and quality certification of completed work.
   1.  Provide labels or certificates indicating that the work complies with requirements of
       AWI/AWMAC/WI (AWS) grade or grades specified.
   2.  This project has been registered as AWI (QCP) project number __________.
   3.  Prior to delivery to the site provide shop drawings with certification labels.
   4.  Provide labels on each product when required by certification program.
   5.  Upon completion of installation provide certificate certifying that the installation and products meet
       the specified requirements.
   6.  Arrange and pay for inspections required for certification.
   7.  Replace, repair, or rework all work for which certification is refused.

D. Installed Fire Rated Door and Transom Panel Assembly: Conform to NFPA 80 for fire rated class as
   indicated.

1.06 DELIVERY, STORAGE, AND HANDLING
A. Package, deliver and store doors in accordance with specified quality standard.
B. Accept doors on site in manufacturer's packaging. Inspect for damage.
C. Protect doors with resilient packaging sealed with heat shrunk plastic. Do not store in damp or wet areas;
   or in areas where sunlight might bleach veneer. Seal top and bottom edges with tinted sealer if stored
   more than one week. Break seal on site to permit ventilation.

1.07 WARRANTY
A. Interior Doors: Provide manufacturer's warranty for the life of the installation.
B. Include coverage for delamination of veneer, warping beyond specified installation tolerances, defective
   materials, and telegraphing core construction.

PART 2 PRODUCTS

2.01 MANUFACTURERS
A. Wood Veneer Faced Doors:

2.02 DOORS AND PANELS
A. All Doors: See drawings for locations and additional requirements.
   1.  Quality Level: Premium Grade, Heavy Duty performance, in accordance with AWI/AWMAC/WI
       (AWS).
   2.  Wood Veneer Faced Doors: 5-ply unless otherwise indicated.
B. Interior Doors: 1-3/4 inches thick unless otherwise indicated; flush construction.
   1.  Provide solid core doors at all locations.
   2.  Fire Rated Doors: Tested to ratings indicated on drawings in accordance with NFPA 252 or UL
       10B - Negative (Neutral) Pressure; Underwriters Laboratories Inc. (UL) or Intertek/Warnock
       Hersey (WHI) labeled without any visible seals when door is open.
   3.  Wood veneer facing with factory transparent finish .

2.03 DOOR AND PANEL CORES
A. Non-Rated Solid Core and 20 Minute Rated Doors: Type particleboard core (PC), plies and faces as
   indicated.
B. Fire Rated Doors: Mineral core type, with fire resistant composite core (FD), plies and faces as indicated above; with core blocking as required to provide adequate anchorage of hardware without through-bolting.

2.04 DOOR FACINGS
A. Veneer Facing for Transparent Finish: White oak, veneer grade in accordance with quality standard indicated, rift cut (only red and white oak), with book match between leaves of veneer, balance match of spliced veneer leaves assembled on door or panel face.
   2. "Running Match" each pair of doors and doors in close proximity to each other.
   3. "Pair Match" each pair of doors; "Set Match" pairs of doors within 10 feet of each other when doors are closed.

B. Facing Adhesive: Type I - waterproof.

2.05 ACCESSORIES
A. Metal Louvers:
   1. Material and Finish: Roll formed steel; pre-painted finish to color as selected.
   3. Louver Free Area: 50 percent.

B. Glazed Openings:
   2. Laminated Safety Glass: Comply with 16 CFR 1201 test requirements for Category II.
   3. Fire-Protection-Rated Glass: Safety Certification, 16 CFR 1201, Category II.
   5. Tint: Clear.

C. Glazing Stops: Wood, of same species as door facing, butted corners; prepared for countersink style tamper proof screws.

D. Astragals for Fire Rated Double Doors: Steel, T shaped, overlapping and recessed at face edge, specifically for double doors.

2.06 DOOR CONSTRUCTION
A. Fabricate doors in accordance with door quality standard specified.

B. Cores Constructed with stiles and rails:
   1. Provide solid blocks at lock edge for hardware reinforcement.
   2. Provide solid blocking for other throughbolted hardware.

C. Glazed Openings: Non-removable stops on non-secure side; sizes and configurations as indicated on drawings.

D. Factory machine doors for hardware other than surface-mounted hardware, in accordance with hardware requirements and dimensions.

E. Factory fit doors for frame opening dimensions identified on shop drawings, with edge clearances in accordance with specified quality standard.

F. Provide edge clearances in accordance with the quality standard specified.

2.07 FACTORY FINISHING - WOOD VENEER DOORS
A. Finish work in accordance with AWI/AWMAC/WI (AWS), Section 5 - Finishing for grade specified and as follows:
   1. Transparent:
      a. System - 12, Polyurethane, Water-based.
b. Stain: As selected by Architect.
c. Sheen: Flat.

B. Factory finish doors in accordance with sample to be provided.
C. Seal door top edge with color sealer to match door facing.

PART 3 EXECUTION

3.01 EXAMINATION
A. Verify existing conditions before starting work.
B. Verify that opening sizes and tolerances are acceptable.
C. Do not install doors in frame openings that are not plumb or are out-of-tolerance for size or alignment.

3.02 INSTALLATION
A. Install doors in accordance with manufacturer's instructions and specified quality standard.
   1. Install fire-rated doors in accordance with NFPA 80 requirements.
B. Factory-Finished Doors: Do not field cut or trim; if fit or clearance is not correct, replace door.
C. Use machine tools to cut or drill for hardware.
D. Coordinate installation of doors with installation of frames and hardware.
E. Coordinate installation of glazing.
F. Install door louvers plumb and level.

3.03 TOLERANCES
A. Conform to specified quality standard for fit and clearance tolerances.
B. Conform to specified quality standard for telegraphing, warp, and squareness.

3.04 ADJUSTING
A. Adjust doors for smooth and balanced door movement.
B. Adjust closers for full closure.

END OF SECTION