SECTION 08 1416

FLUSH WOOD DOORS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. [Wood veneer] [Fiberboard] faced flush doors.
2. Factory finishing.

B. Related Sections:
1. Division 01: Administrative, procedural, and temporary work requirements.
2. Section 08 7100 - Door Hardware.
3. Section 08 8000 - Glazing.

1.2 REFERENCES

A. Architectural Woodwork Institute (AWI) - Architectural Woodwork Quality Standards.

B. ASTM International (ASTM) E90 - Standard Test Method for Measurement of Airborne-Sound Transmission Loss of Building Partitions.

C. Forest Stewardship Council (FSC) STD-40-004 - Chain of Custody Standard.

D. National Fire Protection Association (NFPA) 80 - Standard for Fire Doors and Fire Windows.

E. Underwriters Laboratories (UL):
1. 10B - Standard for Fire Tests of Door Assemblies.
2. 10C - Standard for Positive Pressure Fire Tests of Door Assemblies.

F. Window and Door Manufacturers Association (WDMA) - I.S.1A - Industry Standard for Architectural Flush Wood Doors.

1.3 SUBMITTALS

A. Submittals for Review:
1. Shop Drawings: Show locations, elevations, dimensions, fire ratings, and preparation for hardware.

B. Quality Control Submittals:
1. Certificates of Compliance: Manufacturer's certification that doors comply with specified acoustical requirements.

1.4 QUALITY ASSURANCE

A. Flush Wood Doors: AWI Custom Grade.

B. Fire Door Construction: Conform to UL 10B.

C. Installed Fire Rated Door Assembly: Conform to NFPA 80.

1.5 DELIVERY, STORAGE AND HANDLING

A. Package doors in heavy plastic with identifying marks; slit plastic wrap on site to permit ventilation, but do not remove from plastic until ready to install.

B. Do not deliver doors until building is substantially water and weather tight and HVAC system is operational.

C. Store doors flat and level, with spacers between doors to allow for air circulation, in protected, dry area.

D. Maintain humidity in storage areas between 25 and 55 percent.

1.6 WARRANTIES

A. Furnish manufacturer's 5 year warranty providing coverage against defects in materials and workmanship and warpage beyond specified amount.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturers:
   1. Algoma Hardwoods, Inc. (www.algomahardwoods.com)
   2. Eggers Industries. (www.eggersindustries.com)
   3. Marshfield DoorSystems, Inc. (www.marshfielddoors.com)
   4. Oshkosh Door Co. (www.oshkoshdoor.com)
   5. VT Industries, Inc. (www.vtindustries.com)
   6. OR APPROVED EQUAL

2.2 MATERIALS

A. Flush Wood Doors: AWI Section 1300.
   1. Core type:
      a. Solid, fire rated: Mineral.
      b. Solid, non rated: PC - Bonded Particle Core.
   2. Wood veneers faces:
      a. Species: Birch

2.3 FABRICATION

A. Fabricate doors in accordance with AWI Section 1300.

B. Pre-fitting: Factory fit doors to frames.

C. Pre-machining: Factory machine doors to receive hardware specified in Section 08 7100.

2.4 FINISHES

A. Wood Doors:
   1. Stain and finish wood doors to match existing:
B. Frames:
   1. Prime and paint to match existing.
   2. Color to be selected by owner.

PART 3 - EXECUTION

3.1 PREPARATION

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A. Condition doors to average humidity that will be encountered after installation.

3.2 INSTALLATION

A. Install doors in accordance with AWI Section 1700.

B. Install doors plumb and level.

C. Field Fitting to Frames:
1. Fire rated doors:
   a. Width: Cut lock edge only; 3/16 inch maximum.
   b. Height: Cut bottom edge only; 1 inch maximum.
2. Non-rated doors:
   a. Width: Cut hinge and lock edges equally.
   b. Height: Cut bottom edge only; maximum 3/4 inch.
3. Edge clearances:
   a. Jambs and head: 1/8 inch maximum between door and frame.
   b. Sills without thresholds: 1/8 inch maximum between door and top of finish floor.
   c. Sills with thresholds: 1/4 inch maximum between door and top of threshold.
   d. Meeting stiles of pairs: 1/8 inch maximum between doors.
4. Lock edge: Bevel 1/8 inch in 2 inches.
5. Do not cut doors down to opening sizes smaller than those for which they were manufactured.

D. Seal field cut surfaces with stain system.

E. Install door hardware in accordance with Section 08 7100.

F. Install glass as specified in Section 08 8000.

G. Installation Tolerances:
1. Warp: Maximum 1/4 inch in any 3'-0" x 7'-0" portion of door, measured with taut string or straight edge on concave face of door.

END OF SECTION