

1 GENERAL

1.2_ SUMMARY

- C. Section includes flush wood doors; flush and flush glazed configuration; fire rated and non-rated and wood gate.
- D. Related Sections:
 - 1. Section 08710 - Door Hardware.

1.2 REFERENCES

- A. American Society for Testing and Materials:
 - 1. ASTM E413 - Standard Classification for Rating Sound Insulation.
- B. Architectural Woodwork Institute:
 - 1. AWI - Quality Standards Illustrated.
- C. Hardwood Plywood and Veneer Association:
 - 1. HPVA HP-1 - American National Standard for Hardwood and Decorative Plywood.
- D. National Fire Protection Association:
 - 1. NFPA 80 - Standard for Fire Doors, Fire Windows.
 - 2. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies.
- E. Underwriters Laboratories Inc.:
 - 1. UL 10B - Fire Tests of Door Assemblies.
 - 2. UL - Building Materials Directory.
- F. Uniform Building Code
 - 1. UBC Standard 7-2 - Fire Tests of Door Assemblies.

1.3 SUBMITTALS

- A. Section 01330 - Submittal Procedures: Submittal procedures.
- B. Shop Drawings: Illustrate door opening criteria, elevations, sizes, types, swings, undercuts required, special beveling, special blocking for hardware, factory machining criteria, factory finishing criteria, identify cutouts for glazing and louvers.
- C. Product Data: Submit information on door core materials and construction, and on veneer species, type and characteristics.
- D. Samples: Submit two samples of door veneer, 3 x 3 inch in size illustrating wood grain, stain color, and sheen.
- E. Manufacturer's Installation Instructions: Submit special installation instructions.

1.4 QUALITY ASSURANCE

- A. Perform Work in accordance with AWI Quality Standard Section 1300, Premium Grade.
- B. Finish doors in accordance with AWI Quality Standard Section 1500.
- C. Fire Door Construction: Conform to UL 10B.
- D. Installed Fire Rated Door Assembly: Conform to NFPA 80 for fire rated class as scheduled.
- E.

It is the intent of this specification to provide a general guideline for quality, function, and design of the Wood Doors and Frames. It is specific responsibility of Wood Doors and Frames Supplier to furnish products which are fully functional, in full compliance with State and Local Building Codes, Fire Codes, and Handicap Codes. Any supplier bidding on this section of work will notify the Architect prior to bidding of discrepancies or will be assumed to have included correct material to make this compliance.

- F. It shall be the Contractor's sole responsibility to measure each existing or new rough opening and overall wall thickness, including existing and proposed wall finishes, prior to fabrication of doors and frames.

1.5 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing products specified in this section with minimum three years documented experience.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Section 01600 - Product Requirements: Product storage and handling requirements.
- B. Package, deliver and store doors in accordance with AWI Section 1300.
- 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 when stored more than one week.
 - 1. Break seal on site to permit ventilation.

1.7 COORDINATION

- A. Section 01300 - Administrative Requirements: Coordination and project conditions.
- B. Coordinate Work with door opening construction, door frame and door hardware installation.

1.8 WARRANTY

- A. Section 01700 - Execution Requirements: Product warranties and product bonds.
- B. Include coverage for delamination of veneer, warping beyond specified installation tolerances, defective materials, and telegraphing core construction.
- C. Furnish manufacturer's "Life of Installation" warranty for interior doors.

PART 2 PRODUCTS

1.2 FLUSH WOOD DOORS

- A. Manufacturers:
 - 1. Algoma Hardwoods Inc.
 - 2. Eggers Industries.
 - 3. Weyerhaeuser Company.
 - 4. Vancouver Door.
 - 5. Substitutions: Section 01600 - Product Requirements.
- A. Product Description: Solid core flush wood doors; wood veneer facing material; fire rated and non-rated types; flush glazed design; factory pre-fit; shop finished wood doors.
 - 1. Flush Interior Doors: **1-3/4 inches** thick; solid hollow core, five ply construction, fire rated, as indicated on Drawings.

2. Flush Interior Gate: 1-3/8 inch thick, solid core, five-ply construction.

2.2 COMPONENTS

- A. Solid Core, Non-Rated: AWI Section 1300, Type PC - Particleboard.
- B. Solid Core, Fire Rated: AWI Section 1300.
- C. Interior Veneer Facing: AWI Premium quality wood, plain sliced, with pair end matched grain, for transparent finish.
 1. Wood: Uniform Dark Birch.
- D. Facing Adhesive: Type I - waterproof.

2.3 ACCESSORIES

- A. Glazing Stops: Wood flush stops matching face veneer for non-rated doors and 20 minute rated doors designed to conform to UL standards. Metal glazing clips with wood stops matching face veneer for 3/4 to 1-1/2 hour rated doors.

2.4 FABRICATION

- A. Fabricate non-rated doors in accordance with AWI Quality Standards requirements.
- B. Fabricate fire rated doors in accordance with AWI Quality Standards and to UL requirements. Attach fire rating label to door.
- C. Astragals for Fire Rated Double Doors: Steel, Treated wood, T shaped, overlapping and recessed at face edge at mid-door thickness, specifically for double doors.
- D. Sound Rating For Single Door Leaf and Frame Assembly: ASTM E413, minimum STC 35.
- E. Furnish lock blocks at lock edge and top of door for closer for hardware reinforcement.
- F. Vertical Exposed Edge of Stiles: Of same species as veneer facing.
- G. Fit door edge trim to edge of stiles after applying veneer facing.
- H. Bond edge banding to cores.
- I. Factory machine doors for finish hardware in accordance with hardware requirements and dimensions. Do not machine for surface hardware. Furnish solid blocking for through bolted hardware.
- J. Factory fit doors for frame opening dimensions identified on shop drawings.
- K. Cut and configure exterior door edge to receive recessed weather stripping devices.
- L. Provide edge clearances in accordance with AWI 1300.

2.5 SHOP FINISHING

- A. Factory finish doors in accordance with AWI Quality Standard Section 1500 to the following finish designations.
 1. Transparent Finish TR-6: Catalyzed polyurethane, Premium quality, satin sheen.
- A. Factory finish doors in accordance with approved sample.
- B. Seal door top edge with clear sealer to match door facing.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Section 01300 - Administrative Requirements: Coordination and project conditions.
- B. Verify 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.

3.2 INSTALLATION

- A. Install fire rated and non-rated doors in accordance with AWI Quality Standard, NFPA 80, and to requirements for fire rating label by UL.
- B. Trim non-rated door width by cutting equally on both jamb edges.
- C. Trim door height by cutting bottom edges to maximum of **3/4 inch**.
 - 1. Trim fire door height at bottom edge only, in accordance with fire rating requirements.
- D. Machine cut doors for hardware installation.
- E. Coordinate installation of doors with installation of frames specified in Section 08111 and hardware specified in Section 08710.
- F. Coordinate installation of glass and glazing specified in Section 08800.

3.3 INSTALLATION TOLERANCES

- A. Section 01400 - Quality Requirements: Tolerances.
- B. Conform to AWI requirements for fit and clearance tolerances.
- C. Conform to AWI Section 1300 requirements for maximum diagonal distortion.

3.4 ADJUSTING

- A. Section 01700 - Execution Requirements: Testing, adjusting, and balancing.
- B. Adjust door for smooth and balanced door movement.
- C. Adjust closer for full closure.

END OF SECTION