

SECTION 08 14 10

WOOD DOORS

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PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Architectural Flush Wood Interior Doors:
  - 1. Ultra-heavy duty wood interior doors.
  - 2. Anti-warping interior wood doors for intensive use.
  - 3. Interior wood doors for intensive use.
- B. Institutional Flush Wood Interior Doors:
  - 1. Particle core for intensive use interior wood doors.
  - 2. Hollow core for intensive use interior wood doors.
  - 3. Interior wood doors.
- C. Commercial Flush Wood Interior Doors:
  - 1. Commercial solid core interior wood doors.
  - 2. Commercial hollow core wood doors.
- D. Flush Wood Interior Fire Doors:
  - 1. Fire rated wood doors - mineral core.
  - 2. Fire rated wood doors - agrifiber core.
- E. Fire Rated Interior Wood Frames:
  - 1. Solid wood fire-rated interior door frames.
  - 2. Solid wood fire-rated interior sidelight frames.
  - 3. Particle board fire-rated interior door frames.
  - 4. Particle board fire-rated interior sidelight frames.
  - 5. Medium density fiberboard (MDF) fire-rated interior door frames.
  - 6. Medium density fiberboard (MDF) fire-rated interior sidelight frames.
  - 7. Intumescent wood fire-rated interior door frames.
  - 8. Intumescent wood fire-rated interior sidelight frames.
- F. Specialty Flush Wood Interior Doors:
  - 1. Reduced-projection folding wood interior doors.
  - 2. Ultra-heavy duty - high impact wood interior doors.
  - 3. Ultra-heavy duty - French wood interior doors.
  - 4. Sound retardant wood doors.
  - 5. Radiation protection wood doors.

1.2 RELATED SECTIONS

- A. Section 06100 - Rough Carpentry: Installation and requirements for rough door opening.
- B. Section 06200 - Finish Carpentry: Installation and requirements for door frame casing and trim.
- C. Section 06402 - Interior Architectural Woodwork Carpentry: Installation and requirements for door frame casing and trim.

- D. Section 08100 - Metal Doors and Frames: Installation and requirements for hollow metal and steel door frames.
- E. Section 08300 - Specialty Doors: Related specialty door products and assemblies.
- F. Section 08710 - Door Hardware: Installation and requirements.
- G. Section 08800 - Glazing: Glass and glazing in wood doors.
- H. Section 09900 - Paints and Coatings: Field finishing of wood doors.
- I. Section 10200 - Louvers: Requirements for louvers in wood doors.
- J. Section 13090 - Radiation Protection: Preassembled radiation shielding wood doors.

### 1.3 REFERENCES

- A. American National Standards Institute (ANSI): A 208.1 - Standard for Particleboard.
- B. ASTM International (ASTM):
  - 1. ASTM D 1761 - Screw Withdrawal Test Method.
  - 2. ASTM D 5456 - Standard Specification for Evaluation of Structural Composite Lumber Products.
  - 3. ASTM E 90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions.
  - 4. ASTM E 413 - Classification for Rating Sound Insulation.
  - 5. ASTM E 1332 - Standard Classification for Determination of Outdoor-Indoor Transmission Class.
  - 6. ASTM E 2235 - Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods.
- C. Architectural Woodwork Institute: AWI/AWMAC- Quality Standards or The Architectural Woodwork Institute (AWI) and The Architectural Woodwork Manufacturers Association of Canada (AWMAC).
- D. National Fire Protection Association (NFPA):
  - 1. NFPA 80 - Standard for Fire Doors and Other Protective Openings
  - 2. NFPA 105 - Standard for Smoke Door Assemblies and Other Opening Protectives.
  - 3. NFPA 252- Standard Method of Fire Test for Door Assemblies.
  - 4. NFPA 257 - Standard on Fire Test for Window and Glass Block Assemblies.
- E. Warnock Hersey Intertek Testing Services (ITS-WH): ITS Certification Listings for Fire Doors.
- F. International Building Code (IBC).
- G. National Building Code (NBC) - Canada.
- H. Uniform Building Code (UBC):
  - 1. UBC 7-2 UBC Fire Test (Neutral Pressure).
  - 2. UBC 7-2 UBC Fire Test (Positive Pressure).
- I. Underwriters' Laboratories (UL):
  - 1. UL 9 - Fire Tests of Window Assemblies.
  - 2. UL 10B - Standard for Fire Test of Door Assemblies.
  - 3. UL 10C - Standard for Positive Pressure Fire Test of Door Assemblies.
- J. Underwriters Laboratories Canada (ULC): CAN 4-S104 - Fire Tests of Door Assemblies.
- K. Window and Door Manufacturer's Association (WDMA): WDMA 1.S.1A-13.

## 1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Evaluation Reports: For intumescent/wood fire-rated interior door and sidelight frames, WHI certification by Intertek.
- C. Product Data: Manufacturer's data sheets on each type of door and jamb, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation methods.
- D. Shop Drawings:
  - 1. Elevations indicating location, size and kind of each door, construction, swing, label, undercut, and hardware location and machining requirements. Include location and extent of hardware blocking, fire ratings, requirement for factory finishing, glass and other pertinent data.
  - 2. Elevations indicating veneer requirements. Include veneer grade, cut, specie, piece match, face match, appearance of pairs, sets and transoms and aesthetic grade. For HPDL face requirement include manufacturer, thickness, pattern, color and finish.
- E. Samples: For factory finished doors, submit two sets of 8 by 10 inch (203 by 254 mm) selected veneer samples with the standard finish colors representing manufacturer's full range of available colors and finishes. Samples shall represent the color selected on veneer typical of grain patterns and coloration for the specified specie and cut selected.
  - 1. For decorative laminate, submit two sets of 8 by 10 inch (203 by 254 mm) samples of each color, finish and pattern required.
  - 2. Where Architect has furnished custom color for matching, include original color sample.
- F. Fire Rated Door Jamb Sample: 6 inch long (152 mm) corner sample cut away to core and face veneer with description and date.
- G. Corner Sample: 8-1/2 by 11 inches (216 by 279 mm) corner sample cut away to show stile, rails, crossbanding, core and face veneer with description and date.
- H. Selection Samples: For each finish product specified, submit two complete sets of color chips representing manufacturer's full range of available colors and patterns.
- I. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.
- J. Certificates: Manufacturer's certification that doors comply with specified performance and physical properties.
- K. LEED Submittals - USA:
  - 1. Product Certificates for Credit MR 4.1, 4.2: For products and materials with recycled content materials, certificates indicating percentage of pre and/or post-consumer content of material use by manufacturer.
  - 2. Product Certificates for Credit MR 5.1, 5.2: For products and materials, which qualify for requirements for regional materials, certificates indicating location of material manufacturer and point of extraction, harvest, or recovery for each raw material. Include statement indicating distance to Project, cost for each regional material, and fraction by weight that is considered regional.
  - 3. Product Certificates for Credit MR 6: For products and materials that have rapidly renewable content, certificates indicating percentage of rapidly renewable content of material use by manufacturer.
  - 4. Product Certificates for Credit MR 7: For products and materials required to be FSC certified, provide manufacturer's certificate indicating percent of FSC certified wood

material use by manufacturer and the FSC certificate number of the manufacturer. Include evidence that manufacturer is certified for chain of custody by an FSC-accredited certification body. Include statement indicating costs for each certified wood product.

5. Product Data for Credit IEQ 4.1: For adhesives and glues used at Project site, if any, documentation including printed statement of VOC content meeting LEED requirements.
  6. Product Data for Credit IEQ 4.4: For composite wood products, documentation indicating that product contains no added urea formaldehyde resin.
- L. LEED Submittals - Canada:
1. Certificates for Credit MR 7: Chain-of-custody certificates certifying that flush wood doors comply with forest certification requirements.
  2. Include evidence that manufacturer is certified for chain of custody by an FSC-accredited certification body.
    - a. Include statement indicating costs for each certified wood product.
  3. Product Data for Credit EQ 4.1: For adhesives and composite wood products, documentation indicating that product contains no urea formaldehyde.

## 1.5 QUALITY ASSURANCE

- A. Non-Fire-Rated Doors: Provide doors that comply with NAAWS Section 9 and WDMA 1.S. 1A.
- B. Fire Rated Interior Wood Frames:
1. Source Limitations: Obtain fire-rated wood frames from single source from single manufacturer.
  2. Fire-Rated Door Assemblies: Assemblies complying with NFPA 80 that are listed and labeled by a qualified testing agency, for
    - a. Fire-Protection Ratings: UL 10C based on testing at positive pressure.
    - b. Fire-Protection Ratings: UL 10C based on testing at as close to neutral pressure as possible.
    - c. Fire-Protection Ratings: UL 10B based on testing at positive Shd this be Neutral pressure.
    - d. Fire-Protection Ratings: UL 10B based on testing at as close to neutral pressure as possible.
    - e. Fire-Protection Ratings: NFPA 252 based on testing at positive pressure.
    - f. Fire-Protection Ratings: NFPA 252 based on testing at as close to neutral pressure as possible.
  3. Fire-Rated, Borrowed-Light Frame Assemblies: Assemblies complying with NFPA 80 that are listed and labeled, by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire protection ratings indicated, Label each individual glazed lite.
    - a. Based on testing per UL 9.
    - b. Based on testing per NFPA 257.
  4. Smoke-Control Door Assemblies:
    - a. Comply with UL 1784.
    - b. Comply with NFPA 105.
- C. Fire-Rated Doors: Provide doors that comply with NFPA 80, NFPA 252, UL 10B or UL 10C, as applicable and as acceptable to authorities having jurisdiction, and that are listed and labeled by ITS-WH or a qualified testing agency. Notify Architect prior to fabrication if fire doors required cannot qualify for labeling due to design, size, hardware or other requirement.
- D. Oversize Fire Rated Wood Doors: Manufacturer to provide a certificate stating that the doors conform to all standard construction requirements of tested and labeled fire door assemblies except as to size. Notify Architect prior to fabrication if fire doors required cannot qualify for labeling due to design, size, hardware or other requirement.

- E. LEED Requirement for FSC Certification:
  - 1. Provide doors, which qualify for LEED MR7 credit requirements. Provide doors made with wood products obtained from forests certified by an FSC-accredited certification body to comply with FSC STD-01-001, "FSC Principles and Criteria for Forest Stewardship."
  - 2. Provide doors made with cores from certified forests.
  - 3. Provide doors made with veneers from certified forests.
  - 4. Provide doors made with not less than 70 percent of wood products from certified forests.
  - 5. Provide doors made with all wood products from certified forests.
- F. Manufacturer Qualifications: A qualified manufacturer that is certified for chain of custody by an FSC-accredited certification body.
- G. Single Source Responsibility: Provide doors from a single source to ensure uniformity in quality of appearance, face veneer, finish and construction.

## 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation. Inspect for damage.
- B. Storage and Protection: Comply with door manufacturer's written recommendations and requirements of AWI Section 1300 G-23 and WDMA standards.

## 1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions including temperature, humidity, and ventilation within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits. Inspect for damage prior to installation.
- B. Environmental Limitations: Do not deliver or install wood materials until building is enclosed and weatherproof, wet Work in space is completed and nominally dry, and HVAC system is operating and maintaining temperature and relative humidity at occupancy levels during remainder of construction period.
- C. Do not install wood materials that are wet, moisture damaged, or mould damaged.
  - 1. Indications that materials are wet or moisture damaged include discoloration, sagging, or irregular shape.
  - 2. Indications that materials are mould damaged include fuzzy or splotchy surface contamination and discoloration.

## 1.8 WARRANTY

- A. Provide manufacturer's standard warranty against defects in materials and workmanship for the following duration:
  - 1. Warranty Period, Interior Doors: For the lifetime of the door.
  - 2. Warranty Period, Interior Doors: 3 years from date of Substantial Completion.
  - 3. Warranty Period, Interior Doors: 5 years from date of Substantial Completion.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Baillargeon, which is located at: 430 Rd. 108 W.; St-Ephrem, PQ, Canada G0M 1R0; Toll Free Tel: 800-804-5666; Fax: 800-804-5688; Email: [request info \(info@baildoor.com\)](mailto:request_info@baildoor.com); Web: [www.baillargeondoors.com/en](http://www.baillargeondoors.com/en)
- B. Substitutions: Not permitted.

- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

## 2.2 WOOD DOORS - GENERAL

- A. Wood Doors: Height, width, configuration and location as scheduled on Drawings.

## 2.3 ARCHITECTURAL FLUSH WOOD INTERIOR DOORS

### A. Ultra-Heavy Duty Wood Interior Door:

1. Product: 8500-ME (5-ply - Particle Core) as manufactured by Baillargeon Wood Door Manufacturer. Lifetime Warranty.
  - a. Core: Particleboard. Solid particleboard. Density of 28-32 lb per cubic foot. Complies with ANSI A208-1 standards (LD-1/LD-2).
2. Product: 8520-ME (5-ply - Particle Core) as manufactured by Baillargeon Wood Door Manufacturer. Lifetime Warranty.
  - a. Core: Particleboard. Solid particleboard. Density of 28-32 lb per cubic foot. Complies with ANSI A208-1 standards (LD-1/LD-2).
  - b. Fire Rating: 20-minutes, in compliance with NFPA 80.
3. Product: 9500-ME (5-ply - Hollow Core) as manufactured by Baillargeon Wood Door Manufacturer. Lifetime Warranty.
  - a. Core: Hollow honeycomb core. (100 percent recycled).
4. Stiles: 1/8 inch (3 mm) thick veneer, longitudinally laminated by hot pressing with type 1 structural glue, as per ASTM-D5456-93 (LVL), including a 7/8 inch (22 mm) piece of hardwood, matched with faces, for a total width of 4-3/16 inches (107 mm).
5. Top and bottom rails: 1/8 inch (3 mm) thick veneer, longitudinally laminated by hot pressing with type 1 structural glue, as per ASTM-D5456-93 (LVL), for a total width of 3-5/16 inches (85 mm).
6. Stiles and Rails: Bonded to core.
7. Lock Block: Integrated.
8. Glue: Type1 PVA Cross-link.
9. Faces: Refer to Door Characteristics.

### B. Anti-Warping Interior Wood Door for Intensive Use:

1. Product: 7000-ME (5 ply - LVL Core) as manufactured by Baillargeon Wood Door Manufacturer. Lifetime Warranty. Complies with SCLC-5/SCLC-7 (AWI/AWMAC).
2. Product: 7020-ME (5 ply - LVL Core) as manufactured by Baillargeon Wood Door Manufacturer. Lifetime Warranty.
  - a. Fire Rating: 20-minutes, in compliance with NFPA 80.
3. Stiles: 7/8 inch (22 mm) wide hardwood, matched with faces. Bonded to core. 3-5/16 inches (85 mm) LVL rails for hardware installation where indicated or required.
4. Top and bottom rails: 7/8 inch (22 mm) in wood or SCL. Bonded to core.
5. Core: 1/8 inch (3 mm) thick veneer, longitudinally laminated by hot pressing with type 1 structural glue, as per ASTM D 5456-93 (LVL). LVL (UFF).
6. Lock Block: Integrated.
7. Glue: Type 1 - PVA Cross link (UFF).
8. Faces: Refer to Door Characteristics.

### C. Interior Wood Door for Intensive Use:

1. Product: 6000-ME (5 ply - LSL Core) as manufactured by Baillargeon Wood Door Manufacturer. Lifetime Warranty.
2. Product: 6020-ME (5 ply - LSL Core) as manufactured by Baillargeon Wood Door Manufacturer. Lifetime Warranty.
  - a. Fire Rating: 20-minutes, in compliance with NFPA 80.
3. Stiles: 7/8 inch (22 mm) wide hardwood, matched with faces. Bonded to core. 3-5/16 inches (85 mm) LVL rails for hardware installation where indicated or required.
4. Top and Bottom Rails: Integrated.
5. Top and Bottom Rails: 7/8 inch (22 mm) in wood or SCL. Bonded to core. Complies with SCLC-5/SCLC-7 (AWI/AWMAC)

6. Core: Laminated strand lumber (LSL). Complies with ANSI 1.S.4 (UFF).
7. Lock Block: Integrated.
8. Glue: Type 1 - PVA Cross link (UFF).
9. Faces: Refer to Door Characteristics.

## 2.4 INSTITUTIONAL FLUSH WOOD INTERIOR DOORS

### A. Particle Core for Intensive Use Interior Wood Door:

1. Product: 8600-OO as manufactured by Baillargeon Wood Door Manufacturer. Lifetime Warranty. Complies with FPC-5/FPC-7 (AWI/AWMAC).
  - a. Core: Solid particleboard. Density of 28-32 lbs per cubic foot. Complies with ANSI A208-1 standards (LD-1/LD-2).
2. Product: 8620-OO as manufactured by Baillargeon Wood Door Manufacturer. Lifetime Warranty. Complies with FPC-5/FPC-7 (AWI/AWMAC).
  - a. Fire Rating: 20-minutes, in compliance with NFPA 80.
  - b. Core: Solid particleboard. Density of 28-32 lbs per cubic foot. Complies with ANSI A208-1 standards (LD-1/LD-2).
3. Stiles: Hardwood or laminated strand lumber (LSL) or 1/8 inch (3 mm) thick veneer, longitudinally laminated by hot pressing with type 1 structural glue, as per ASTM-D5456-93 (LVL), including a 7/8 inch (22 mm) piece of hardwood, for a total width of 1-3/16 inches (30 mm):
  - a. MO: Manufacturer's choice.
  - b. ME: Matched with faces.
  - c. VE: Covered with 1/32 inch (0.7938 mm) of wood veneer, matched with faces.
4. Top and Bottom Rails: 1-3/16 inches (30 mm) low-density wood or SCL (manufacturer's choice LVL or LSL).
5. Lock Block: Integrated.
6. Glue: Type 1 - PVA Cross link (UFF).
7. Faces: Refer to Door Characteristics.

### B. Hollow Core for Intensive Use Interior Wood Door:

1. Product: 9600-MO (5 ply - Honeycomb Core) as manufactured by Baillargeon Wood Door Manufacturer. 3 Year Warranty.
2. Stiles: Hardwood or laminated strand lumber (LSL) or 1/8 inch (3 mm) thick veneer, longitudinally laminated by hot pressing with type 1 structural glue, as per ASTM-D5456-93 (LVL), including a 7/8 inch (22 mm) piece of hardwood, for a total width of 1-3/16 inches (30 mm):
  - a. MO: Manufacturer's choice.
  - b. ME: Matched with faces.
  - c. VE: Covered with 1/32 inch (0.7938 mm) of wood veneer, matched with faces.
3. Top and Bottom Rails: 1-3/16 inches (30 mm) low-density wood or SCL (manufacturer's choice LVL or LSL).
4. Core: 4-3/4 inches (120 mm) honeycomb (100 percent recycled).
5. Lock Block: 4 1/4 inches (108 mm) by 20 inches (508 mm) long (stile width included) low-density wood pieces.
  - a. One side only.
  - b. Both sides.
6. Glue: Type 1 - PVA Cross link (UFF).
7. Faces: Refer to Door Characteristics.

### C. Interior Wood Doors:

1. Product: PC5-OO (5 ply - Particle Core) as manufactured by Baillargeon Wood Door Manufacturer. Lifetime Warranty. Complies with FPC-5/FPC-7 (AWI/AWMAC).
  - a. Core: Solid particleboard. Density of 28-32 lbs per cubic foot. Complies with ANSI A208-1 standards (LD-1/LD-2).
2. Product: PC520-OO (5 ply - Particle) as manufactured by Baillargeon Wood Door Manufacturer. Lifetime Warranty. Complies with FPC-5/FPC-7 (AWI/AWMAC).
  - a. Core: Solid particleboard. Density of 28-32 lbs per cubic foot. Complies with ANSI A208-1 standards (LD-1/LD-2).

- b. Fire Rating: 20-minutes, in compliance with NFPA 80.
- 3. Stiles: Hardwood or structural composite lumber (SCL), including a 7/16 inch (11 mm) piece of hardwood, for a total width of 1-3/16 inches (30 mm): Bonded to core.
  - a. MO: Manufacturer's choice.
  - b. ME: Matched with faces.
  - c. VE: Covered with 1/32 inch (0.7938 mm) of wood veneer, matched with faces.
- 4. Top and Bottom Rails: 1-3/16 inches (30 mm) low-density wood or SCL (manufacturer's choice LVL or LSL). Bonded to core.
- 5. Lock Block: Integrated.
- 6. Glue: Type 1 - PVA Cross link (UFF).
- 7. Faces: Refer to Door Characteristics.

## 2.5 COMMERCIAL FLUSH WOOD INTERIOR DOORS

- A. Commercial Solid Core Interior Wood Door:
  - 1. Product: 8100-MO (5 ply - Particle Core) as manufactured by Baillargeon Wood Door Manufacturer. 3 Year Warranty.
  - 2. Product: 8120-MO (5 ply - Particle Core) as manufactured by Baillargeon Wood Door Manufacturer. 3 Year Warranty.
    - a. Fire Rating: 20-minutes, in compliance with NFPA 80.
  - 3. Stiles: 1-3/16 inches (30 mm) clear, finger-jointed, low-density wood.
  - 4. Top and Bottom Rails: 1-3/16 inches (30 mm) low-density wood or SCL (LVL or LSL).
  - 5. Core: Particleboard.
  - 6. Lock Block: Integrated.
  - 7. Glue: Type 1 - PVA Cross link (UFF).
  - 8. Faces: Refer to Door Characteristics.
- B. Commercial Hollow Core Wood Door:
  - Product: 9100-MO (5 ply - Honeycomb Core) as manufactured by Baillargeon WoodDoor Manufacturer. 3 Year Warranty.
  - 1. Stiles: 1-3/16 inches (30 mm) clear, finger-jointed, low-density wood.
  - 2. Top and bottom rails: 1-3/16 inches (30 mm) low-density wood or SCL, manufacturer's choice (LVL or LSL).
  - 3. Core: 4-3/4 inches (121 mm) honeycomb (100 percent recycled).
  - 4. Glue: Type 1 PVA Cross-link (UFF).
  - 5. Lock Block: 4 1/4 inches (108 mm) by 20 inches (508 mm) long (stile width included) low-density wood pieces.
    - a. One side only.
    - b. Both sides.
  - 6. Faces: Refer to Door Characteristics.

## 2.6 FLUSH WOOD INTERIOR FIRE DOORS

- A. Fire Rated Wood Door - Mineral Core:
  - 1. Product: 5045 (5 ply - Mineral Core) as manufactured by Baillargeon Wood Door Manufacturer. Lifetime Warranty.
    - a. Fire Rating: 45 minutes, in compliance with NFPA 80.
  - 2. Product: 5060 (5 ply - Mineral Core) as manufactured by Baillargeon Wood Door Manufacturer. Lifetime Warranty.
    - a. Fire Rating: 60 minutes, in compliance with NFPA 80.
  - 3. Product: 5090 (5 ply - Mineral Core) as manufactured by Baillargeon Wood Door Manufacturer. Lifetime Warranty.
    - a. Fire Rating: 90 minutes, in compliance with NFPA 80.
  - 4. Stiles: Special construction compliant with W/H label requirements. High-density mineral and untreated hardwood (minimum of 3/4 inch (19 mm)), bonded to core.
    - a. MO: Manufacturer's choice.
    - b. VE: Covered with 1/32 inch (0.7938 mm) of wood veneer, matched with faces.
  - 5. Top and Bottom Rails: Special construction compliant with W/H label requirements. Mineral or untreated hardwood, manufacturer's choice (minimum of 1-3/8 inches (35



- mm)). Bonded to core.
  - 6. Core: Non-combustible mineral.
  - 7. Glue: Type 1 PVA.
  - 8. Faces: Refer to Door Characteristics.
  - 9. Pressure Provision: Neutral pressure in accordance with UL 10B/ UBC 7-2.
  - 10. Pressure Provision: Positive pressure in accordance with UL 10C/ UBC 7-2, Category A: Fire doors that do not required the addition of other components such as edge seals. Intumescent being incorporated in the door construction.
  - 11. Pressure Provision: Positive pressure in accordance with UL 10C/ UBC 7-2, Category B: Fire doors that required the addition of an edge seal. Edge seal may be intumescent and /or gasketing. Edge seals are typically added to the frame.
- B. Fire Rated Wood Door - Agrifiber Core:
- 1. Product: AF 45 as manufactured by Baillargeon Wood Door Manufacturer. Lifetime Warranty. Fire Rating: 45 minutes, in compliance with NFPA 80. Maximum Dimensions: 4 feet by 10 feet (single), 8 feet by 8 feet (double). Stile bonded to core.
  - 2. Product: AF 60 as manufactured by Baillargeon Wood Door Manufacturer. Lifetime Warranty. Fire Rating: 60 minutes, in compliance with NFPA 80. Maximum Dimensions: 4 feet by 8 feet (single). Stile bonded to core.
  - 3. Stiles (45 Minute Rated): Special construction compliant with W/H label requirements. High-density mineral and/or SCL and untreated hardwood (minimum of 1-7/16 inches (37 mm)). Bonded to core.
    - a. MO: Manufacturer's choice.
    - b. VE: Covered with 1/32 inch (0.7938 mm) of wood veneer, matched with faces.
  - 4. Stiles (60 Minute Rated): Special construction compliant with W/H label requirements. High-density mineral and untreated hardwood (minimum of 1-3/8 inches (35 mm)). Bonded to core.
    - a. MO: Manufacturer's choice.
    - b. VE: Covered with 1/32 inch (0.7938 mm) of wood veneer, matched with faces.
  - 5. Top and Bottom Rails: Special construction compliant with W/H label requirements. Mineral or SCL, manufacturer's choice (minimum of 2 inches (51 mm)). Bonded to core.
  - 6. Core: Low combustible Agrifiber. Density of 34-38 lbs per cubic foot. Neutral FSC (UFF).
  - 7. Glue: Type 1 PVA cross link (UFF).
  - 8. Faces: Refer to Door Characteristics.
  - 9. Pressure Provision: Neutral pressure in accordance with UL 10B/ UBC 7-2.
  - 10. Pressure Provision: Positive pressure in accordance with UL 10C/ UBC 7-2, Category A: fire doors that do not require the addition of other components such as edge seals. Intumescent being incorporated in the door construction.
  - 11. Pressure Provision: Positive pressure in accordance with UL 10C/ UBC 7-2, Category B: fire doors that require the addition of an edge seal. Edge seal may be intumescent and /or gasketing. Edge seals are typically added to the frame.

## 2.7 FIRE RATED INTERIOR WOOD FRAMES

- A. Fire Rated Wood Frames: Fire-rated interior door and sidelight frames as manufactured by Baillargeon Doors Inc.
- 1. Fire Rating: Comply with NFPA 80 and be listed and labeled by testing and inspecting agency acceptable to authorities having jurisdiction, based on testing per NFPA 252.
  - 2. Frame Type: Solid wood fire-rated interior door frames.
  - 3. Frame Type: Solid wood fire-rated interior sidelight frames.
  - 4. Frame Type: 45 pcf density particleboard fire-rated interior door frames.
  - 5. Frame Type: 45 pcf density particleboard fire-rated interior sidelight frames.
  - 6. Frame Type: 45 pcf density MDF fire-rated interior door frames.
  - 7. Frame Type: 45 pcf density MDF fire-rated interior sidelight frames.
  - 8. Frame Type: Intumescent wood fire-rated interior door frames.
  - 9. Frame Type: Intumescent wood fire-rated interior sidelight frames.

10. Fire Rating: 20 minutes.
11. Fire Rating: 45 minutes.
12. Fire Rating: 60 minutes.
13. Fire Rating: 90 minutes.
14. Facing: Medium Density Overlay (MDO).
15. Veneer Species: Alder.
16. Veneer Species: Birch.
17. Veneer Species: Cherry.
18. Veneer Species: Hickory.
19. Veneer Species: Mahogany.
20. Veneer Species: Maple.
21. Veneer Species: Oak.
22. Veneer Species: Poplar.
23. Veneer Species: Walnut.
24. Finish Location: Factory finishing.
25. Finish Location: Field finishing.
26. Finish Type: Factory primed.
27. Finish Type: Transparent (clear).
28. Finish Type: Opaque paint.
29. Finish Type: Opaque stain.

B. Frame Characteristics:

1. Edgebanding: Solid wood with minimum specific gravity of 0.40 at 12 percent moisture content. Solid piece or finger jointed with minimum distance of 8 inches (203 mm) on center between finger joints.
  - a. Minimum Thickness: 3/16 inch (4.75 mm).
2. Veneer: Solid wood with minimum specific gravity of 0.40 at 12 percent moisture content.
  - a. Minimum Thickness: 1/50 inch (0.5 mm).
3. Applied "T" Stop: Solid wood with minimum specific gravity of 0.40 at 12 percent moisture content.
4. Veneer Species: Meeting minimum specific gravity of 0.40 at 12 percent moisture content.
5. Jamb Thickness: Nominal 3/4 inch (19 mm), plus/minus 1/16 inch (1.6 mm).
6. Opening Size: Maximum opening of 96 inches (2438 mm) wide by 96 inches (2438 mm) high.
7. Sidelite and Borrowed Lites:
  - a. Frames Material: Match adjacent door frame material.
  - b. Glass: Nominal 1/4 inch (6 mm) rated glass complying with Section 08810.
  - c. Glazing Clips: Frame manufacturer's proprietary 0.0179 inch (0.045 mm) galvanized steel.
  - d. Sealants: Comply with section 07920.
8. Jamb Thickness: Nominal 3/4 inch (19 mm), plus/minus 1/16 inch ( mm).
9. Opening Size: Maximum opening of 48 inches ( mm) wide by 96 inches high( mm). Please consult manufacturer specifications grid for maximum approved dimensions.

C. Fabrication:

1. Factory-machine frames for hardware that is not surface applied. Locate hardware to comply with DHI-WDHS-3. Comply with final hardware schedules, door frame Shop Drawings, DHI A115-W series standards, and hardware templates as furnished by door hardware supplier.
  - a. Comply with requirements in NFPA 80 for fire-rated doors.
2. Manufacturer's Label: Do not remove, cover, or paint over label. After completion of machining frame, apply Warnock Hersey (WH) certification label to finished frame with screw-type nails a minimum length of 5/8 inch (16 mm) or with minimum 18 gage staples with 1/4 inch (6 mm) crown and 5/8 inch (16 mm) leg length. If staples are used, Use 2 staples, 1 at each end of label.
3. Gasket Type: Machine frames for smoke gaskets by company registered with

- Warnock Hersey (Intertek Testing).
- 4. Gasket Type: Machine frames for draft gaskets by company registered with Warnock Hersey (Intertek Testing).
- 5. Gasket Attachment: Pressure-sensitive.
- 6. Gasket Attachment: Kerf type (Category H) attached to machined frame per manufacturer's requirements in order to give frame an "S" label rating.
- 7. Positive Pressure Certification: Apply edge sealing gasket (Category G) to achieve certification.

## 2.8 SPECIALTY FLUSH WOOD INTERIOR DOORS

- A. Reduced-Projection Folding Wood Interior Doors: Door hinged at 2/3 door width and at door jamb, with gear hinge, adjustable stainless steel pivots on ball bearings, and a finger guard.
  - 1. Product: Autonomy Door 8513-ME (5-ply - Particle Core) as manufactured by Baillargeon Wood Door Manufacturer. Lifetime Warranty.
  - 2. Stiles: 1/8 inch (3 mm) thick veneer, longitudinally laminated by hot pressing with type 1 structural glue, as per ASTM-D5456-93 (LVL), including a 7/8 inch (22 mm) piece of hardwood, matched with faces, for a total width of 4-3/16 inches (107 mm).
  - 3. Top and bottom rails: 1/8 inch (3 mm) thick veneer, longitudinally laminated by hot pressing with type 1 structural glue, as per ASTM-D5456-93 (LVL), for a total width of 3-5/16 inches (85 mm).
  - 4. Core: Agrifiber (UFF). Neutral FSC.
  - 5. Core: Particleboard. Solid particleboard. Density of 28-32 lb per cubic foot. Complies with ANSI A208-1 standards (LD-1/LD-2).
  - 6. Lock Block: Integrated.
  - 7. Glue: Type1 PVA Cross-link.
  - 8. Faces: Refer to Door Characteristics.
- B. Ultra-Heavy Duty - High Impact Wood Interior Doors:
  - 1. Product: 7600-ME (3-ply - LVL Core) as manufactured by Baillargeon Wood Door Manufacturer. Lifetime Warranty.
  - 2. Product: 7620-ME (3-ply - LVL Core) as manufactured by Baillargeon Wood Door Manufacturer. Lifetime Warranty.
    - a. Fire Rating: 20-minutes, in compliance with NFPA 80.
  - 3. Stiles: 7/8 inch (22 mm) hardwood stiles bonded to core, matched with faces.
  - 4. Top and bottom rails: Integrated.
  - 5. Core: 3 ply, with 2 vertical plies composed of 1/8 inch (3 mm) thick veneer, longitudinally laminated by hot pressing with type 1 structural glue, as per ASTM-D5456-93 (LVL), rotary-cut poplar veneer with horizontal crossbanding of the same material. LVL (UFF).
  - 6. Glue: Type1 PVA Cross-link (UFF).
  - 7. Faces: Refer to Door Characteristics.
  - 8. High impact wood or steel moulding.
- C. Ultra-Heavy Duty - French Wood Interior Doors:
  - 1. Product: FR00-ME French Door (5-ply - LVL Core) as manufactured by Baillargeon Wood Door Manufacturer. Lifetime Warranty.
  - 2. Design:
    - a. Glass Pattern Model Number: FR5 (5 glass units per leaf).
    - b. Glass Pattern Model Number: FR10 (10 glass units per leaf).
    - c. Glass Pattern Model Number: FR12 (12 glass units per leaf).
    - d. Glass Pattern Model Number: FR15 (15 glass units per leaf).
    - e. Glass Pattern Model Number: FR18 (18 glass units per leaf).
    - f. Glass Pattern Model Number: FR20 (20 glass units per leaf).
    - g. Glass Pattern Model Number: FR24 (24 glass units per leaf).
    - h. Glass: 1/8 inch (3 mm) clear glass.
    - i. Glass: 1/4 inch (6 mm) clear glass with 1 inch (25 mm) side bevel.
    - j. Glass: 1/8 inch (3 mm) frosted GLUE-CHIP.
    - k. Glass: 1/8 inch (3 mm) frosted MOROCCO.

- l. Glass Stops: #S - Sloped.
    - m. Glass Stops: #F - Flat.
  - 3. Provide glass coated with temporary transparent protective film for finishing.
  - 4. Stiles: 1/8 inch (3 mm) thick veneer, longitudinally laminated by hot pressing with type 1 structural glue, as per ASTM-D5456-93 (LVL), including a 7/8 inch (22 mm) piece of hardwood, matched with faces, for a total width of 4-3/16 inches (107 mm).
  - 5. Top and bottom rails: 1/8 inch (3 mm) thick veneer, longitudinally laminated by hot pressing with type 1 structural glue, as per ASTM-D5456-93 (LVL), for a total width of 3-5/16 inches (85 mm).
  - 6. Core: 1/8 inch (3 mm) thick veneer, longitudinally laminated by hot pressing with type 1 structural glue, as per ASTM-D5456-93 (LVL). LVL (UFF).
  - 7. Glue: Type1 PVA Cross-link (UFF).
  - 8. Faces: Refer to Door Characteristics.
- D. Sound Retardant Wood Doors:
- 1. Product: SR00 - ME as manufactured by Baillargeon Wood Door Manufacturer. 3 Year Warranty. Gaskets included as tested.
  - 2. Sound retardant 35 STC: Model SR35 (weight: 6.5 lb per sq. feet).
  - 3. Sound retardant 39 STC: Model SR39 (weight: 7.4 lb per sq. feet).
  - 4. Sound retardant 40 STC: Model SR40 (weight: 7.4 lb per sq. feet).
  - 5. Sound retardant 41 STC: Model SR41 (weight: 8.8 lb per sq. feet).
  - 6. Sound retardant 42 STC: Model SR42 (weight: 8.8 lb per sq. feet).
  - 7. Sound retardant 43 STC: Model SR43 (weight: 8.8 lb per sq. feet).
  - 8. Sound retardant 44 STC: Model SR44 (weight: 10.6 lb per sq. feet).
  - 9. Sound retardant 45 STC: Model SR45 (weight: 10.6 lb per sq. feet).
  - 10. Sound retardant 46 STC: Model SR46 (weight: 10.6 lb per sq. feet).
  - 11. Vision light opening not to exceed to 100 sq. inches (64516 sq. mm).
  - 12. Stiles: LVL of 1/8 inch (3 mm) thick veneer, longitudinally laminated by hot pressing with type 1 structural glue (phenol formaldehyde), in compliance with ASTM D 5456, including a 7/8 inch (22mm) piece of hardwood, matched with faces, for a total width of 1-3/16 inches (30 mm).
  - 13. Bottom Rails: LVL or LSL, for a total width of 3-5/16 inches (85 mm)
  - 14. Top Rails: LVL or LSL, for a total width of 1-3/16 inches (30 mm).
  - 15. Core: Certified sound dampening.
  - 16. Lock Block: Lock materials manufacturer's choice
  - 17. Glue: Type1 PVA Cross-link (UFF).
  - 18. Faces: Refer to Door Characteristics.
- E. Radiation Protection Doors:
- 1. Product: 8512 ME (Particleboard Core) as manufactured by Baillargeon Wood Door Manufacturer. Lifetime Warranty.
    - a. Radiation Protection: One 1/32 inch (0.8 mm) lead sheet pressure bonded in center of the core covering the entire surface of the door.
    - b. Radiation Protection: One 1/16 inch (1.6 mm) lead sheet pressure bonded in center of the core covering the entire surface of the door.
    - c. Radiation Protection: Custom thickness lead sheet as indicated pressure bonded in center of the core covering the entire surface of the door.
  - 2. Product: 8516 ME (Particleboard Core) as manufactured by Baillargeon Wood Door Manufacturer. Lifetime Warranty.
    - a. Radiation Protection: One 1/32 inch (0.8 mm) lead sheet pressure bonded in center of the core covering the entire surface of the door.
    - b. Radiation Protection: One 1/16 inch (1.6 mm) lead sheet pressure bonded in center of the core covering the entire surface of the door.
    - c. Radiation Protection: Custom thickness lead sheet as indicated pressure bonded in center of the core covering the entire surface of the door.
  - 3. Product: 8522 ME (Particleboard Core) as manufactured by Baillargeon Wood Door Manufacturer. Lifetime Warranty.
    - a. Radiation Protection: Two 1/32 inch (0.8 mm) lead sheets pressure bonded to

- each face of the core covering the entire surface of the door.
  - b. Radiation Protection: Two 1/16 inch (1.6 mm) lead sheets pressure bonded to each face of the center covering the entire surface of the door.
  - c. Radiation Protection: Custom thickness lead sheet as indicated pressure bonded to each face of the core covering the entire surface of the door.
- 4. Product: 8526 ME (Particleboard Core) as manufactured by Baillargeon Wood Door Manufacturer. Lifetime Warranty.
  - a. Radiation Protection: Two 1/32 inch (0.8 mm) lead sheets pressure bonded to each face of the core covering the entire surface of the door.
  - b. Radiation Protection: Two 1/16 inch (1.6 mm) lead sheets pressure bonded to each face of the center covering the entire surface of the door.
  - c. Radiation Protection: Custom thickness lead sheet as indicated pressure bonded to each face of the core covering the entire surface of the door.
- 5. Stiles: LVL of 1/8 inch (3 mm) thick veneer, longitudinally laminated by hot pressing with type 1 structural glue (phenol formaldehyde), in compliance with ASTM D 5456, including a 7/8 inch (22 mm) piece of hardwood matched with faces for a total width of 4-3/16 inches (107 mm).
  - a. Material: Hardwood 7/8 inches (22 mm) matched with faces.
- 6. Top and Bottom Rails: LVL of 1/8 inch (3 mm) thick veneer, longitudinally laminated by hot pressing with type 1 structural glue (phenol formaldehyde), in compliance with ASTM D 5456 for a total width of 3-5/16 inches (85 mm).
- 7. Stiles and Rails: Bonded to core.
- 8. Core: Solid particleboard in compliance with ANSI A208-1, 45 lbs per cubic foot (722 kg per cubic meter) density.
- 9. Lock Block: Integrated.
- 10. Faces: Refer to Door Characteristics.

## 2.9 INTERIOR DOOR TYPES

- A. Door Characteristics:
  - 1. Door Thickness: 1-3/8 inches (35 mm).
  - 2. Door Thickness: 1-3/4 inches (44 mm).
  - 3. Door Thickness: Custom as indicated.
  - 4. Face Material: Hardboard panel.
  - 5. Face Material: Plastic laminate glued to veneer plywood.
  - 6. Face Material: Wood veneer, standard 2 ply.
  - 7. Face Material: Wood veneer, 2 ply, FSC certified.
  - 8. Face Material: Wood veneer, 2 ply, urea formaldehyde free.
  - 9. Face Material: Wood veneer, standard 3 ply.
  - 10. Face Material: Wood veneer, 3 ply, FSC certified.
  - 11. Face Material: Wood veneer, 3 ply, urea formaldehyde free.
  - 12. Facing: Medium Density Overlay (MDO).
  - 13. Aesthetic Grade: AWI Premium/ AWMAC Premium.
  - 14. Aesthetic Grade: AWI Custom/ AWMAC Custom.
  - 15. Face Grade: AA.
  - 16. Face Grade: A.
  - 17. Face Grade: B.
  - 18. Veneer Cut: Quartered.
  - 19. Veneer Cut: Rift.
  - 20. Veneer Cut: Rotary.
  - 21. Veneer Cut: Plain Sliced.
  - 22. Species and Cut: White birch, rotary cut.
  - 23. Species and Cut: Natural birch, rotary cut.
  - 24. Species and Cut: Red oak, flat cut.
  - 25. Species and Cut: Red oak, rift cut.
  - 26. Species and Cut: White oak, flat cut.
  - 27. Species and Cut: White maple, flat cut.
  - 28. Species and Cut: Mahogany, flat cut.

29. Species and Cut: Cherry, flat cut.
30. Species and Cut: White ash, flat cut.
31. Species and Cut: Walnut, flat cut.
32. Species and Cut: White Birch, flat cut.
33. Species and Cut: White Maple, rotary cut.
34. Species and Cut: Maple, quarter cut.
35. Species and Cut: Natural Maple, plain sliced.
36. Species and Cut: White Oak, plain sliced.
37. Species and Cut: White Oak, quarter cut.
38. Species and Cut: Red Oak, plain sliced.
39. Species and Cut: Red Oak, rotary cut.
40. Species and Cut: African Mahogany, plain sliced.
41. Species and Cut: African Mahogany, quarter cut.
42. Species and Cut: Sapele, quarter cut.
43. Species and Cut: American Sycamore, quarter cut.
44. Species and Cut: Teak, plain sliced.
45. Species and Cut: VG Fir, quarter cut.
46. Species and Cut: Walnut, quarter cut.
47. Species and Cut: Wenge.
48. Species and Cut: Anigre, quarter cut.
49. Species and Cut: White Ash, plain sliced.
50. Species and Cut: White Ash, Quarter cut.
51. Species and Cut: European Steem Beach, plain sliced.
52. Species and Cut: Natural Birch, plain sliced.
53. Species and Cut: White Birch, plain sliced.
54. Species and Cut: Hemlock, quarter cut.
55. Species and Cut: Cherry plain sliced.
56. Species and Cut: Cherry quarter cut.
57. Species and Cut: Ebony Macassar, quarter cut.
58. Species and Cut: Hickory, plain sliced.
59. Species and Cut: Honduras Mahogany, quarter cut.
60. Species and Cut: Jotoba, plain sliced.
61. Species and Cut: Makore, quarter cut.
62. Veneer Match: Book match.
63. Veneer Match: Random match.
64. Veneer Match: Slip match.
65. Veneer Assembly: Balanced.
66. Veneer Assembly: Center.
67. Veneer Assembly: Running.
68. Matching Requirements: Not matching.
69. Matching Requirements: Color only.
70. Matching Requirements: Pattern only.
71. Matching Requirements: Color and pattern.
72. Appearance of Doors in Pairs or Sets: No matching required.
73. Appearance of Doors in Pairs or Sets: Color matched.
74. Appearance of Doors in Pairs or Sets: Pattern matched.
75. Appearance of Doors in Pairs or Sets: Color and pattern matched.
76. Appearance of Transoms: Continuous match.
77. Appearance of Transoms: End match.
78. Appearance of Transoms: Color match.
79. Appearance of Transoms: No matching required.

B. Finishes:

1. General: Complete fabrication, including fitting doors for openings and machining for hardware that is not surface applied, before finishing. Finish faces, all 4 edges if back is visible or 3 edges if back not visible, edges of cut-outs, and mortises. Stains and fillers may be omitted on bottom edges, edges of cutouts, and mortises.
2. Field Applied Finish: Refer to Section 5 painting specifications.

3. Factory Applied Finish: Transparent finish.
  - a. Grade: Premium.
  - b. Grade: Custom.
  - c. Finish System: AWS 2009 system 1.
  - d. Finish System: AWS 2009 system 2.
  - e. Finish System: AWS 2009 system 3.
  - f. Finish System: AWS 2009 system 4.
  - g. Finish System: AWS 2009 system 5.
  - h. Finish System: AWS 2009 system 6.
  - i. Finish System: AWS 2009 system 7.
  - j. Finish System: AWS 2009 system 8.
  - k. Finish System: AWS 2009 system 9.
  - l. Finish System: AWS 2009 system 10.
  - m. Finish System: AWS 2009 system 11.
  - n. Finish System: AWS 2009 system 12.
  - o. Finish System: AWS 2009 system 13.
  - p. Finish System: Manufacturer's standard system.
  - q. Staining: Match Architect's sample.
  - r. Staining: Selected by Architect from manufacturer's full range.
  - s. Staining: Clear.
  - t. Staining: Golden Oak.
  - u. Staining: Dark Brown.
  - v. Staining: Medium Brown.
  - w. Staining: Dark Mahogany.
  - x. Staining: Medium Mahogany.
  - y. Staining: Wild Cherry.
  - z. Staining: Cognac Brown.
  - aa. Staining: Mocha Brown.
  - bb. Staining: None required.
  - cc. Effect: Open-grain finish.
  - dd. Effect: Filled finish.
  - ee. Effect: Semifilled finish, produced by applying an additional finish coat to partially fill the wood pores.
  - ff. Sheen: Satin.
  - gg. Sheen: Semigloss.
  - hh. Sheen: Manufacturer's standard sheen.
4. Factory Applied Finish: Opaque finish.
  - a. Grade: Premium.
  - b. Grade: Custom.
  - c. Finish System: AWS 2009 system 1.
  - d. Finish System: AWS 2009 system 2.
  - e. Finish System: AWS 2009 system 3.
  - f. Finish System: AWS 2009 system 4.
  - g. Finish System: AWS 2009 system 5.
  - h. Finish System: AWS 2009 system 6.
  - i. Finish System: AWS 2009 system 7.
  - j. Finish System: AWS 2009 system 8.
  - k. Finish System: AWS 2009 system 9.
  - l. Finish System: AWS 2009 system 10.
  - m. Finish System: AWS 2009 system 11.
  - n. Finish System: AWS 2009 system 12.
  - o. Finish System: AWS 2009 system 13.
  - p. Finish System: Manufacturer's standard system.
  - q. Staining: Match Architect's sample.
  - r. Staining: Selected by Architect from manufacturer's full range.
  - s. Staining: Clear.
  - t. Staining: Golden Oak.
  - u. Staining: Dark Brown.

- v. Staining: Medium Brown.
- w. Staining: Dark Mahogany.
- x. Staining: Medium Mahogany.
- y. Staining: Wild Cherry.
- z. Staining: Cognac Brown.
- aa. Staining: Mocha Brown.
- bb. Color: Selected by Architect from manufacturer's full range.
- cc. Sheen: Satin.
- dd. Sheen: Semigloss.
- ee. Sheen: Gloss.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Do not begin installation until adjacent construction has been properly prepared.
- B. If adjacent construction preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- C. Examine substrates, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.
- D. Examine finish carpentry materials before installation. Reject materials that are wet, moisture damaged, and mold damaged.
- E. Do not proceed with installation until substrates and materials have been properly prepared and deviations from manufacturer's recommended tolerances are corrected. Prepare surfaces and materials using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- F. Proceed with installation only after unsatisfactory conditions have been corrected. Commencement of installation constitutes acceptance of conditions.

### 3.2 PREPARATION

- A. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
  - 1. Before installing interior finish carpentry, condition materials to average prevailing humidity in installation areas for a minimum of 24 hours unless longer conditioning is recommended by manufacturer.

### 3.3 WOOD DOOR INSTALLATION

- A. Install wood doors in accordance with manufacturer's instructions.
- B. Install wood door hardware in accordance with door and hardware manufacturer's instructions. Adjust hardware for proper door function and latching, and for smooth operation without excessive force or excessive clearance.
- C. Install fire rated doors in corresponding fire rated frames in accordance with the requirements of the labeling agency and NFPA 80.

### 3.4 INTERIOR FRAME INSTALLATION

- A. Install wood frame in accordance with manufacturer's instructions.
- B. Do not use materials that are unsound, warped, improperly finished, or with defective



surfaces, sizes, or patterns.

- C. Install wood frames level, plumb, true, and aligned with adjacent materials. Use concealed shims where necessary for alignment.
  - 1. Scribe and cut interior finish carpentry to fit adjoining Work. Refinish and seal cuts as recommended by manufacturer.
  - 2. Coordinate wood frames with materials and systems in or adjacent to it. Provide cutouts for mechanical and electrical items that penetrate interior finish carpentry.
  - 3. Install frames after gypsum-board joint finishing operations are completed.
  - 4. Install without splitting; drill pilot holes before fastening where necessary to prevent splitting. Fasten to prevent movement or warping. Countersink fastener heads on exposed frame Work and fill holes.
- D. Field Modifications: Per NFPA 80, site modifications are restricted to the following:
  - 1. Circular or rectangular function holes for latch bolts.
  - 2. Prepping area around function holes for strike plates.
  - 3. Installing gasketing or seals to frame if required.

### 3.5 CLEANING AND PROTECTION

- A. Clean exposed and semi exposed surfaces. Touch up finishes to restore damaged or soiled areas.
- B. Protect installed products until completion of project.
- C. Touch-up, repair, or replace damaged products before Substantial Completion.
  - 1. Remove and replace frame material that is wet, moisture damaged, and mold damaged. Indications that materials are wet or moisture damaged include discoloration, sagging, or irregular shape. Indications that materials are mold damaged include fuzzy or splotchy surface contamination and discoloration.

### 3.6 SCHEDULES

- A. Door Schedule: (Insert)

END OF SECTION