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## **Product Guide Specification For 45/60/90-Minute Rated Panelled Wood Doors**

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Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) *MasterFormat*, *SectionFormat*, and *PageFormat*, from the CSI *Manual of Practice*. The section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate with other specification sections and drawings. Five-digit section numbers are from *MasterFormat*, 1995 edition. Delete all "Specifier Notes" when editing this section.

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### SECTION 08212

#### 45/60/90-MIN. PANELLED WOOD DOORS

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Specifier Notes: Doors can be manufactured to custom specifications. Consult with Woodtech Trading Company for assistance in editing this section for specific applications.

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#### PART 1 – GENERAL

##### 1.01 SECTION INCLUDES

- A. Raised or flat panel doors as shown on drawings and door schedule.
- B. Factory machining for hardware.

##### 1.02 QUALITY ASSURANCE

- A. Comply with AWI Quality Standards for material selection and grading.
- B. Conform to NFPA 80 & NFPA 252.
- C. Conform to Warnock Hersey/Intertek Testing Services Certification Listings for Fire Doors.
- D. All exposed wood and veneer products to be AWI Premium grade.

##### 1.03 DELIVERY, STORAGE AND HANDLING

- A. Delivery: Deliver doors to site in manufacturer's original, unopened containers and/or packaging.
- B. Storage:
  - 1. Store doors in accordance with manufacturer's instructions.
  - 2. Store doors in a clean, dry, well-ventilated building, in an area protected from damage and sunlight.
  - 3. Store flat on a level surface.
  - 4. Do not store directly on concrete.

5. Cover doors to keep clean and avoid discoloration. Use a covering which allows air circulation and does not permit light to penetrate.
  6. Do not subject doors to sudden changes in temperature or humidity.
  7. Relative Humidity: Between 30 and 60 percent.
- C. Handling:
1. Protect doors during handling and installation to prevent damage.
  2. Do not drag doors across one another or other surfaces.
  3. Handle doors with clean gloves to avoid smudging or staining.

#### 1.04 WARRANTY

- A. 45/60/90-minute doors carry a warranty for a period of 2 years from the date of delivery.

### PART 2 – PRODUCTS

#### 2.01 MANUFACTURER

- A. Woodtech Trading Company, 455 Fourth Avenue E.N., PO Box 2609, Columbia Falls, Montana 59912, phone (800) 775-1352, fax (800) 775-1353.

#### 2.02 CONSTRUCTION - DOORS

- A. Doors to have proprietary monolithic core with applied solid lumber stiles & rails.
- B. Provide hardwood stiles and rails applied to core on both sides with matching hardwood edges.
- C. Panels to be veneered and glued to core to prevent panel splitting and movement.
- D. All panel veneers 1/32" minimum premium grade.
- E. All adhesives to be Type II cross-linked PVA.
- F. Provide non-combustible multi-laminate fire-rated core as provided by Fyrewerks, Inc. for 45-min. & 60-min. doors.
- G. Provide non-combustible multi-laminate fire-rated core as provided by NGFL for 90-min. doors.
- H. Minimum flat panel thickness 7/8" at 45-min. & 60-min. doors
- I. Minimum flat panel thickness 1-1/8" at 90-min. doors.
- J. Metal edges not allowed at meeting edges of pairs.

#### 2.03 PERFORMANCE STANDARDS

- A. 45-minute, 60-minute & 90-minute ratings as required tested per follow standards:
1. ASTM E152
  2. UL 10(6)
  3. UL 10C (1998)
  4. ASTM E2074
  5. UBC 7-2-1997
  6. NFPA 252
- B. 2-year limited warranty for interior use.

## PART 3 - EXECUTION

- 3.01 Machine for hardware and fit to frames using guidelines of AWI & DHI.
- 3.02 Sand, seal, stain or apply finish paint as per warranty instruction.
- 3.03 Install doors using qualified craftsmen experienced in working with custom millwork.
- 3.04 Provide owner with necessary product brochures, warranty certificate and instructions for maintaining doors.
- 3.05 Repair or replace any doors deemed to be unacceptable due to manufacturing defects.

## PART 4 – FABRICATION

### 4.01 FABRICATION TOLERANCES

- A. Size:
  - 1. Thickness: +/- 1/16 inch.
  - 2. Length: +/- 1/16.
  - 3. Prefit Width: +/-1/32 inch.
- B. Squareness: 1/8 inch maximum, diagonal measurement difference.
- C. Factory Hardware Preparation: +/- inch on hinge preparation and lock preparation cutouts.
- D. Warp: ¼” maximum, in any 3 feet 6 inch width by 7 feet length of door.

## PART 5 - EXECUTION

### 5.01 EXAMINATION

- A. Inspect and verify frames are solidly anchored, allowing no deflection when doors are installed.
- B. Install doors in frame openings that are plumb, level, and within tolerance.
- C. Notify the Architect of conditions that would adversely affect the installation or subsequent utilization of the doors. Do not proceed with installation until unsatisfactory conditions are corrected.

### 5.02 PREPARATION

- A. Acclimate doors to project conditions for a minimum of 24 hours before installation.
- B. Do not remove labels from fire-rated doors.
- C. Field Finishing:
  - 1. Field finish doors in accordance with door manufacturer's instructions and as specified in Section 09930 – Stains and transparent Finishes.
  - 2. Final Block Sanding: Perform a final block sanding immediately before field finishing.

### 5.03 INSTALLATION

- A. Install doors at locations indicated on the drawings and in accordance with the manufacturer's instructions.
- B. Install doors in accordance with AWI Qualify Standards (NFPA 80) and to UL and Intertek Testing Services requirements.

- C. Install at least 2 hinges on doors up to 72 inches in height, and 1 additional hinge for each 30 inches of additional height. All screw holes must be pre-drilled.
- D. Install door hardware as specified in Section 08710 – Door Hardware.

#### 5.04 ADJUSTING

- A. Adjust doors for smooth operation without binding.

END OF SECTION