

## **SECTION 08215**

### **One Piece Composite Wood Doors**

#### **PART 1 – GENERAL**

##### **1.01 SUMMARY**

- A. Related Documents –  
Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification sections, apply to the work specified in this section.
- B. Section Includes:
  - 1. Composite Wood Doors
  - 2. Factory Fitting and Machining
  - 3. Factory Priming of Composite Wood Doors
  - 4. Factory Glazing
- C. Related Sections
  - 1. Section 01300 – Submittals
  - 2. Section 01600 – Material and Equipment
  - 3. Section 06200 – Finish Carpentry
  - 4. Section 06275 – Custom Wood Door Frames
  - 5. Section 08110 – Steel Door Frames
  - 6. Section 08210 – Wood Doors
  - 7. Section 08710 – Finish Hardware
  - 8. Section 08800 – Glass and Glazing (Delete if factory glazing specified)
  - 9. Section 09900 – Painting

##### **1.02 REFERENCES**

- A. ASTM D-1037 –91 American Society for Testing and Materials: Standard Methods for Evaluating the Properties of Wood-Based Fiber and Particle Board Panel Materials.
- B. ASTM E 152-81a – Standard Methods of Fire Tests of Door Assemblies.
- C. NFPA 80 – Fire Doors and Windows
- D. NFPA 252 – Standard Methods of Fire Tests for fire Door Assemblies
- E. (Insert Local Building codes enforced by the authority having jurisdiction (AHJ))
- F. UL10-B/ UBC – 43-2 / UBC 7-2-94 (neutral pressure) and UL10-C / UBC – 7-2-97 (positive pressure)(choose either neutral or positive pressure, based on local codes) – Fire Tests of Door Assemblies as enforced by the local authority having jurisdiction (AHJ)
- G. ITS – Certification Listings for Fire Doors
- H. ADA

### 1.03 SUBMITTALS

1. Shop Drawings: Submit in accordance with Section 01300. Indicate:
  1. Door number
  2. Door Type
  3. Door Sizes
  4. Handing
  5. Fire rating (choose one)
    1. Neutral Pressure – UL10-B/ UBC – 43-2/ UBC – 7-2-94
    2. Positive Pressure – UL10-C / UBC 7-2-97.
  6. Door elevations
  7. Hardware Set Numbers
  8. Details of construction
2. Samples :
  1. Submit door construction samples as required by the architect showing door construction, panel and sticking details as specified
3. Product Data: Submit door manufacturer's product construction data including, construction, door details, panel and sticking details and any trim or glazing details as appropriate for doors specified. Product data should indicate compliance with specifications.
4. Quality Assurance:
  1. Manufacturer: Shall be a company specializing in the manufacture of doors for a minimum of 10 years. All composite wood doors specified in this section shall be supplied and manufactured by one company.
  2. Fire Ratings: Fire rated doors shall comply with local building codes. Doors shall be installed in accordance with NFPA 80. All doors shall bear the appropriate certification labels.
  3. Storage and Handling: Doors shall be stored and handled in accordance with the manufacturer's recommendations and the WDMA – Appendix Section – “Care and Installation at Job Site”.
    1. Doors shall be stored on a flat and level surface in a well ventilated dry building. Doors shall not be stored on edge and shall be protected from dirt, water and abuse.
    2. Doors shall not be subjected to extreme heat or humidity. HVAC systems should be set to provide a temperature range of 50 -90 degrees F and 30-60% relative humidity.
    3. Handle doors with clean hands or gloves. Do not drag doors across floors or other surfaces.
    4. Each Door shall be marked with the opening number /and or type
    5. Warranty: Submit in accordance with Section 01700. For factory finished or primed doors, warranty shall be in effect of the Life of the Installation.

## **PART 2 – PRODUCTS**

### **2.01 MANUFACTURERS**

1. Acceptable Manufacturers:
  1. Carte Blanche™ by Marshfield DoorSystems®.
  2. Approved equal products, subject to compliance with the design and performance of this specification and as approved by owner and architect

### **2.02 DOOR CONSTRUCTION – COMPOSITE WOOD DOORS**

Edit as required. If more than one type is required, indicated on drawings.

1. Description:
  1. Type: Carte Blanche™ Composite Wood Doors.
  2. Size and Panel Types: See Drawings and specifications.
  3. Door Thickness: 1-3/8", 1-3/4".
  4. Finish: [No primer] [Factory primed.]
  5. Profiles and dimensions shall be Carte Blanche™ standards unless otherwise noted in the drawings and elevations.
2. Louver Type : select one
  1. Vented, False.
  2. Louver blades to be plantation type 1/4" x 2".
3. Stile Construction
  1. Hinge stile to be modified for improved screw holding by use of wood inserts or modified MDF edge.

### **2.03 FIRE RATED DOORS (20 minute)**

1. Type: Carte Blanche™ Composite Wood Doors.
2. Size and Panel Types: See Drawings and specifications.
3. Door Thickness: 1-3/4".
4. Finish: [No primer] [Factory primed.]
5. Profiles and dimensions shall be Carte Blanche™ standards unless otherwise noted in the drawings and elevations
6. Fire doors to be Category A when positive pressure is required by code.

### **2.04 FIRE RATED DOORS (45, 60 or 90 minute)**

1. Type: Carte Blanche™ Composite Wood Doors.
2. Size and Panel Types: See Drawings and specifications.
3. Door Thickness: 1-3/4".
4. Finish: [No primer] [Factory primed.]

5. Profiles and dimensions shall be [Carte Blanche™ standards unless otherwise noted in the drawings and elevations] or [Flush wood doors with Medium Density Overlay faces with Marshfield DoorSystems standard applied moldings]
6. Fire doors to be Category A when positive pressure is required by code.

## **2.05 FACTORY FITTING AND MACHINING**

1. Doors: Fit and machine doors at factory.
  1. Provide accurate measurements of hardware locations in wood or metal frames before proceeding with factory machining.
  2. Bevel, hand and undercut doors are required.
  3. Comply with accepted hardware schedules, door frame shop drawings and with hardware templates to ensure proper fit of doors and hardware.
2. Tolerances: Comply with WDMA tolerance requirements for fitting.

## **2.06 DOOR FABRICATION**

1. Machining for door hardware: All doors shall be machined for specified hardware that is not surface applied. Installation holes are not provided.
2. Fit and Bevel Doors 1/8" in 2 inches. Ensure proper gaps are maintained on fire doors to comply with NFPA 80 requirements.
3. Doors shall be factory glazed as specified.

## **2.07 FACTORY PRIMING**

1. Composite wood doors to be factory primed.

# **PART 3 - EXECUTION**

## **3.01 EXAMINATION**

1. Verification of Conditions: Comply with Section 01600:
  1. Before installation, verify that frames are proper size and type for door and are plumb and square as required for proper installation of doors. Correct improperly installed frames before hanging doors.
  2. Inspect doors for any damage, manufacturing defects or finish inconsistency prior to installation.
  3. Notification: Notify General Contractor of unsatisfactory conditions in writing with copy to Architect.
2. Acceptance: Beginning of work will indicate acceptance of existing conditions by installer.

## **3.02 PREPARATION**

1. Conditioning: Condition doors to average humidity in installation area prior to hanging.
2. For Field Fitting: Fit doors to frames and machine for hardware to whatever extent not previously worked at factory as required for proper fit and uniform clearance at each edge.
3. Sealing: Before installation of hardware brush apply primer to all job site cut or planed surfaces.

### **3.03 INSTALLATION**

1. General: Install doors in accordance with manufacturer's recommendations and to comply with WDMA IS 1A 04 and NFPA 80.
  1. Installation: By skilled finish carpenters.
  2. Installer: Thoroughly familiar with the requirements of the manufacturer's door warranty as currently in effect and assure compliance with all provisions.
2. Hanging:
  1. After sizing doors, fit for hardware as scheduled.
  2. Hang doors to be free of binding with hardware functioning properly.

### **3.04 ADJUSTING AND PROTECTION**

1. Adjustment: At completion of job, adjust doors and hardware as required and leave in proper operating condition.
2. Protection: Advise General Contractor of proper procedures required to protect installed doors from damages or deterioration until acceptance of entire project.
3. Replacement: Refinish or replace doors damaged during installation.

### **3.05 Warranty**

1. Limited life-time

### **END OF SECTION**