

**PART 1. General**

**1.1 REFERENCE DOCUMENTS**

- .1 Architectural Woodwork Manufacturers Association of Canada (AWMAC) and Architectural Woodwork Institute (AWI):
  - .1 North American Architectural Woodwork Standards<sup>9</sup>
- .2 American National Standards Institute (ANSI):
  - .1 ANSI/NPA A208.1-2009 Particleboard
  - .2 ANSI A208.2-2009 Medium Density Fiberboard (MDF) for Interior Applications
- .3 Canadian Standards Association (CSA):
  - .1 CSA O115-M1982 Hardwood and Decorative Plywood (R2001)
  - .2 CAN/CSA O132.2 Series Wood Flush Doors 90(R1998)
- .4 National Fire Protection Association (NFPA):
  - .1 NFPA 80-99 Fire Doors and Windows
  - .2 NFPA 252-08 Fire Tests of Door Assemblies
- .5 NLGA National Lumber Grading Authority:
  - .1 NLGA07 Standard Grading Rules for Canadian Lumber
- .6 Underwriters' Laboratories of Canada (ULC):
  - .1 CAN4 S104M-M83 Fire Tests of Door Assemblies
  - .2 CAN4 S105M-M85 Fire Door Frames

**1.2 SUBMITTALS**

- .1 Comply with requirements of Section 01 33 00.
- .2 Product Data:
  - .1 Submit manufacturer's printed product literature, specifications and data sheets.
  - .2 Submit two copies of WHMIS MSDS Material Safety Data Sheets for:
    - .1 Finishes
    - .2 Adhesives
    - .3 Sealants

- .3 Shop Drawings:
  - .1 Clearly indicate door construction and cutouts for lights and louvres.
  - .2 Clearly indicate reinforcement for door hardware in mineral core fire rated doors.
  - .3 Reference door types to Door Schedule; indicate door and frame numbers as applicable.

### **1.3 DELIVERY, STORAGE, AND HANDLING**

- .1 Delivery and Acceptance Requirements:
  - .1 Deliver doors and panels to minimize storage on site and when site conditions conform to requirements for storage.
- .2 Storage and Handling Requirements:
  - .1 Store and handle doors and panels in accordance with AWMAC requirements, and as follows:
    - .1 Arrange delivery after work causing abnormal humidity has been completed.
    - .2 Protect doors from dampness.
    - .3 Store doors in well ventilated area, off floor.
    - .4 Protect doors from scratches, handling marks and other damage.

## **PART 2. Products**

### **2.1 MATERIALS**

- .1 Door materials: to meet AWMAC requirements and requirements specified in this Section.

### **2.1 SOLID CORE DOORS**

- .1 Flush wood doors: solid core to AWMAC Standard.
  - .1 Construction:
    - .1 Solid Particleboard Core: with minimum 57 mm stile and rail frame bonded to particleboard core and as follows:
      - .1 Reinforcement: with wood lock blocks.
      - .2 Construction: 5-ply
      - .3 Use: interior use.
    - .2 Door Thickness: 45 mm overall.
  - .2 Face Panels: Hardboard composition face
  - .3 Adhesive: Type II (water resistant)] for interior use.
  - .4 Provide metal label for rated doors.

## **2.2 HOLLOW CORE DOORS**

- .1 Flush wood doors: hollow core to AWMAC Standard.
  - .1 Construction: ladder core surrounded by 57 mm minimum wood stiles and rails, with lock blocks, 3-ply construction, 38 mm overall thickness.
  - .2 Face Panels: Hardboard composition face
  - .3 Adhesive: Type II (water resistant).

## **2.3 FABRICATION**

- .1 Fabricate doors in accordance with AWMAC Standards specified in this Section.
- .2 Fabricate fire rated doors to sizes required to allow clearances specified in NFPA 80 and as follows. Coordinate with door frames and door hardware to be utilized.
  - .1 Between door and jamb or head: 3 mm maximum.
  - .2 Between meeting edges of paired doors: 3 mm maximum.
  - .3 Between door and noncombustible finished floor: 19 mm maximum.
  - .4 Between door and floor coverings: 13 mm maximum.
  - .5 Between door and raised noncombustible sill or threshold: 10 mm maximum.
- .3 Door Edges: provide 13 mm thick vertical edge strips matching face veneer, to AWMAC Edge Detail No 3, and edge profiles at strike side as follows:
  - .1 Single Acting Swing Doors: bevel 3 mm in 50 mm.
  - .2 Double Acting Swing Doors: radius of 55 mm.
- .4 Factory seal top and bottom of doors and edges of glazed openings.
- .5 Prepare doors for glazing. Provide hardwood glazing stops with mitered corners. No cutouts permitted within 125 mm of sides and top of door or 200 mm from bottom of door.
- .6 Prepare doors to receive hardware using templates provided.

## **2.4 FINISHING**

- .1 Finish doors using materials specified in Section 09 91 00.
- .2 Doors shall be factory finished or finished off-site, at the Contractor's option.

## **PART 3. Execution**

### **3.1 INSTALLATION**

- .1 Protect doors in accordance with AWMAC Standards.
- .2 Install labelled fire rated doors in accordance with NFPA 80 and to provide specified clearances. Do not site modify labeled fire rated doors.
- .3 Install doors and hardware in accordance with templates and hardware manufacturer's instructions.

- .4 Adjust hardware for correct function.
- .5 Seal top or bottom of doors and edges of glazed openings, modified when installing doors. Do not modify rated doors.
- .6 If applicable, install glazing stops
- .7 Prepare doors for specified finish. Protect labels for rated doors from finish.

**3.2 ADJUSTMENT**

- .1 Re-adjust doors and hardware to function freely and properly just prior to completion of work.

**END OF SECTION**