

**Part 1 General**

**1.1 RELATED SECTIONS**

- .1 Section 01 33 00 – Submittal Procedures
- .2 Section 01 74 19 – Construction/Demolition Waste Management And Disposal
- .3 Section 06 40 00 – Architectural Woodwork
- .4 Section 08 11 14 – Metal Doors and Frames
- .5 Section 08 71 10 – Door Hardware
- .6 Section 08 80 50 – Glazing

**1.2 REFERENCE**

- .1 Architectural Woodwork Institute (AWI) in conjunction with Architectural Woodwork Manufacturers Association of Canada (AWMAC) and Woodwork Institute (WI):
  - .1 2009 AWI/AWMAC/WI Architectural Woodwork Standards.

**1.3 SUBMITTALS**

- .1 Submit product data and shop drawings in accordance with Section 01 33 00.
- .2 Product Data:
  - .1 Manufacturer's printed product literature, specifications and data sheets.
- .3 Shop Drawings:
  - .1 Indicate construction details, sizes and species of components. In addition:
    - .1 Show construction and materials used in cores, size and species of edge strip, thickness and species of cross-banding, and thickness and species of face veneer.
    - .2 Indicate elevation of each kind of door, details of construction, location and extent of hardware blocking, requirements for factory finishing and other pertinent data.
    - .3 Include finishing specifications for factory-applied finish.

**1.4 DELIVERY, STORAGE, AND HANDLING**

- .1 Storage and Protection:
  - .1 Protect doors from dampness. Arrange for delivery after work causing abnormal humidity has been completed.
  - .2 Store doors in well ventilated room, off floor, in accordance with manufacturer's recommendations.
  - .3 Protect doors from scratches, handling marks and other damage.

- .4 Apply a plastic wrapping on doors in shop prior to delivering them to site. Do not remove plastic wrapping until doors are hung.
- .5 Store doors away from direct sunlight.
- .6 When moving doors, lift straight up. Do not drag them across one another.

## **1.5 WASTE MANAGEMENT AND DISPOSAL**

- .1 Separate and recycle waste materials in accordance with Section 01 74 19.
- .2 Remove from site and dispose of packaging materials at appropriate recycling facilities.
- .3 Collect and separate for disposal paper, plastic, polystyrene, corrugated cardboard, and other packaging material in appropriate on-site bins for recycling in accordance with Waste Management Plan.

## **Part 2 Products**

### **2.1 WOOD FLUSH DOORS**

- .1 Face veneers: flat-cut and book matched Birch in grade A quality acceptable for transparent finish.
- .2 Backing for face veneers: hardwood plywood; minimum 5 ply.
- .3 Cores: mat formed wood particleboard with a density of 449 kg/m<sup>3</sup>, meeting or exceeding ANSI A208.1.
- .4 Stiles: minimum 125 mm; laminated and glued solid wood construction.
- .5 Rails: minimum 100 mm; laminated and glued solid wood construction.
- .6 Side edge strips: minimum 12 mm thick hardwood with veneer facing to match face book face veneers.
- .7 Glass stops: solid wood to match door face veneers; free of open defects, pin knots and sappy sections; mitered at corners.
- .8 Glass: specified in Section 08 80 50.
- .9 Adhesive: Type 1 water-resistance, using hot pressed construction; cold press type doors will not be accepted.

### **2.2 FABRICATION**

- .1 Fabricate doors to "Custom" grade quality in accordance with AWI/AWMAC/WI Architectural Woodwork Standards.
- .2 Fabricate wood doors in flush face construction. Fabricate doors with flat faces, and provisions for glass openings as indicated and scheduled.
- .3 Fit doors with AWI/AWMAC/WI Type A edge strips.

- .4 Bevel strike edge of doors approximately 3 mm in 50 mm.
- .5 Pre-fit, bevel and machine doors for all hardware items, per templates and approved hardware schedules provided. Requirements for door hardware are specified in Section 08 71 00. Machine cut, core and mortise doors for hardware. Pilot drill holes for screws and bolts.
- .6 Fabricate doors with maximum distortion and warp of 4 mm, when measured diagonally from corner to corner or when measured from top to bottom.
- .7 Fabricate doors to allow fitting to frames and floor finishes as follows:
  - .1 Clearance between door and frame at jambs and head: 2 mm to 3 mm.
  - .2 Clearance between door bottom and floor finishes: approximately 20 mm.

### **2.3 SHOP FINISHING**

- .1 Finish doors prior to delivery to site.
- .2 Shop finish wood doors using transparent finish material. As a minimum, use AWI/AWMAC/WI Custom finish system, catalyzed polyurethane in clear color and satin finish, or post-catalyzed lacquer in clear color and satin finish.
- .3 Individually plastic wrap each door prior to shipping to site.

## **Part 3 Execution**

### **3.1 INSTALLATION**

- .1 Install doors plumb and square, with maximum distortion and warp of 4 mm.
- .2 Keep plastic wrapping on doors until they are being installed to eliminate damage to door finish.
- .3 Install doors and hardware in accordance with manufacturer's printed instructions. Adjust hardware for correct function.
- .4 Install glazing in accordance with Section 08 80 50.
- .5 If door trimming is necessary:
  - .1 Trim door height by cutting equally on top and bottom edges, to a maximum clearance of 20 mm.
  - .2 Trim door width by cutting equally on both edges.
  - .3 Refinish all cut or planed surfaces immediately to match shop applied finish, to acceptance of Departmental Representative.

### **3.2 ADJUSTMENT**

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

**3.3 CLEANING**

- .1 Perform cleaning as soon as possible after installation to remove construction and accumulated environmental dirt.
- .2 Clean glass and glazing materials with approved non-abrasive cleaner.
- .3 On completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

**END OF SECTION**