
PART 1 **GENERAL**

1.1 **RELATED SECTIONS**

- .1 Section 01 33 00 - Submittal Procedures.
- .2 Section 01 74 21 – Construction/Demolition Waste Management and Disposal.
- .3 Section 06 20 00 - Finish Carpentry.
- .4 Section 08 11 14 - Metal Doors and Frames.
- .5 Section 08 71 00 - Door Hardware.
- .6 Section 08 80 50 - Glazing.
- .7 Section 23 37 13 - Diffusers, Registers and Grilles.

1.2 **REFERENCES**

- .1 Architectural Woodwork Manufacturers Association of Canada (AWMAC).
 - .1 Quality Standards for Architectural Woodwork.
- .2 Canadian General Standards Board (CGSB).
 - .1 CAN/CGSB-71.19, Adhesive, Contact, Sprayable.
 - .2 CAN/CGSB-71.20, Adhesive, Contact, Brushable.
- .3 Canadian Standards Association (CSA).
 - .1 CSA O115, Hardwood and Decorative Plywood.
 - .2 CAN/CSA O132.2 Series, Wood Flush Doors.
 - .3 CAN/CSA-O132.5, Stile and Rail Wood Doors.
- .4 National Fire Protection Association (NFPA).
 - .1 NFPA 80, Standard for Fire Doors and Fire Windows.
 - .2 NFPA 252, Standard Method of Fire Tests of Door Assemblies.
- .5 Underwriters' Laboratories of Canada (ULC).
 - .1 CAN-4S104M, Fire Tests of Door Assemblies.
 - .2 CAN4-S105M, Fire Door Frames Meeting the Performance Required by CAN4-S104.

1.3 **SUBMITTALS**

- .1 Product Data:

- .1 Submit manufacturer's printed product literature, specifications and data sheet
- .2 Submit two copies of WHMIS MSDS Safety Data Sheets. Indicate VOC's:
 - .1 For caulking materials during application and curing.
 - .2 For door materials and adhesives.
- .2 Shop Drawings:
 - .1 Indicate door types and cutouts for lights and louvres, sizes, core construction, transom panel construction and cutouts.
- .3 Submit one 300 x 300 mm corner sample of each type wood door.
- .4 Show door construction, core, glazing detail and faces.
- .5 Manufacturer's Instructions:
 - .1 Submit manufacturer's installation instructions.

1.4 REGULATORY REQUIREMENTS

- .1 Wood fire rated doors: labelled and listed by an organization accredited by Standards Council of Canada.

1.5 DELIVERY, STORAGE AND HANDLING

- .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 Store doors away from direct sunlight.

1.6 WARRANTY

- .1 Provide a written guarantee, signed and issued in the name of the owner, covering the wood doors for both material and workmanship for the Lifetime of the door (Interior Doors only).
- .2 Areas which prove to be defective in any way shall be repaired or replaced and any damage to other work as a result of such defects shall be repaired at no cost to the Departmental Representative.

PART 2 **PRODUCTS**

2.1 **FIRE RATED WOOD DOORS**

- .1 Wood doors: tested in accordance with CAN4-S104 NFPA 252 to achieve rating as scheduled exceeding 45 minutes shall have an incombustible mineral core (asbestos free).
 - .1 Face panels: Hardboard.
 - .2 Acceptable product: AF45/VE Fire-Resistant Doors by Baillargeon Doors Inc., Lambton or approved equal. Doors to be factory machined. Doors to have lock and closer reinforcements.

2.2 **WOOD FLUSH DOORS**

- .1 Solid core: to CAN/CSA-O132.2.1.
 - .1 Construction:
 - .1 Solid particleboard core: stile and rail frame bonded to particleboard core with wood lock blocks 7-ply construction.
 - .2 Solid wood core:
 - .1 Glued block core with wood edge band.
 - .2 Framed block glued core.
 - .3 Framed block nonglued core.
 - .4 Stile and rail core.
 - .5 7-ply construction.
 - .2 Face Panels:
 - .1 Hardwood; veneer grades: Grade II (Good), Sound Grade for sound-rated doors, Birch species.
 - .3 Adhesive: Type II (Water resistant) For interior doors.
 - .4 Acceptable product: Baillargeon Doors Inc. # 8500-ME, Lambton Doors or approved equal. All doors to be Hardboard.and factory machined.
- .2 Sound Resistant Doors.
 - .1 Sound rated doors and frames shall be installed at ratings as indicated in the door and frame schedule.
 - .2 Door assembly to manufacturer's standards, will include all necessary materials to obtain the required sound rating.
 - .3 Sound stripping and door bottoms shall be included by the door manufacturer.
 - .4 Lock, hinges and closers and miscellaneous items shall be supplied under Finished Hardware Section 08710.
 - .5 Hardwood; veneer grades: Grade II (Good), Sound Grade for sound-rated doors, Birch species.
 - .6 Refer to installation specifications for each gasket system.

2.3 GLAZING

- .1 Glass: to Section 08 80 50 – Glazing.

2.4 FABRICATION

- .1 Vertical edge strips to match face veneer.
- .2 Prepare doors for louvres and glazing. Provide hardwood species to match face veneer glazing stops with mitred corners.
- .3 Bevel vertical edges of single acting doors 3 mm in 50 mm on lock side and 1.5 mm in 50 mm on hinge side.
- .4 Radius vertical edges of double acting doors to 60 mm radius.
- .5 Provide waterproof non-staining membrane at cutouts on exterior doors to exclude moisture from core.
- .6 Pre-machine doors for finish hardware in accordance with templates supplied by Section 08 71 00 – Door Hardware. Include for extra reinforcing of concealed overhead stops, concealed door bottoms, exit devices and closers where required. Wire chase for doors requiring wire through the doors.

PART 3 EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.

3.2 INSTALLATION

- .1 Unwrap and protect doors in accordance with CAN/CSA-O132.2 Series, Appendix A.
- .2 Install labelled fire rated doors to NFPA- 80.
- .3 Install doors and hardware in accordance with manufacturer's printed instructions and CAN/CSA-O132.2 Series, Appendix A.
- .4 Adjust hardware for correct function.
- .5 Install glazing in accordance with Section 08 80 50 - Glazing.
- .6 Install louvres and stops.
- .7 Secure transom and side panels by means of concealed fasteners or countersunk screws concealed by means of wood plugs matching panel in grain and colour.

3.3 ADJUSTMENT

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

3.4 CLEANING

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

3.5 COMMISSIONING

- .1 Contractor to instruct maintenance personnel in operation and maintenance of doors and hardware.
- .2 Confirm operation and function for all doors and hardware.
- .3 Commissioning will be witnessed by Departmental Representative and certificate will be signed by Contractor and Departmental Representative.

END OF SECTION