1.1 **GENERAL**

1.2 **Related SFU Technical Requirements**

   .1 Section 06 40 00 Architectural Woodwork
   .2 Section 07 00 10 Building Envelope – General Requirements
   .3 Section 08 00 10 Openings – General Requirements
   .4 Division 27

1.3 **Co-ordination Requirements**

   .1 Coordinate Exterior Door Design with BEP
   .2 Coordinate design with Division 16 - Electrical Consultant.
   .3 Coordinate design with SFU IT
   .4 Coordinate design with SFU Facilities

1.4 **Performance Requirements**


   .2 CAN/CSA-0132.2 Wood Doors.

   .3 CAN 3-0188.1 Particle Cores.

   .4 Hollow core doors are unacceptable.

   .5 *In buildings of 3 stories or less, exterior wood doors to be installed under the cover of an overhang with a minimum 1:2 overhang ratio.*

   .6 *In the case that Site built exterior wood doors are required, they must be field tested for water infiltration to ASTM E1105 at 300 Pa without water infiltration and have the following:*
     .1 Drip flashing at head
     .2 Open out
     .3 Interior perimeter air seal rubber gasket at head, jamb and sill
     .4 Step threshold with integral bulb gasket at sill
     .5 Weather resistant astragal to be provided at meeting rails of a pair of door leafs
     .6 Exterior door sweep gasket at sill
     .7 Hardware – corrosion resistance, multi-point for doors over 80”

1.5 **Quality Control and Assurance**

   .1 Submittals
     .1 Provide a list of all proposed materials for review, and color samples for selection plus for final approval.
     .2 Submit shop drawings.
     .3 Provide manufacturer installation instructions and test data, for fire rated doors.
     .4 Submit 8”x12” top corner sample of each type of door proposed for acceptance of construction and veneer.
.2 Quality Assurance
   .1 Follow AWMAC Quality Assurance Program. *All doors to have an AWMAC guarantee and follow* the AWMAC Inspection and Guarantee Program.

.3 Quality Control
   .1 Trade contractor shall be a member of AWMAC – BC.
   .2 All work to be inspected both at the plant and on site by an AWMAC approved/appointed Inspection Agency, acceptable to the Consultant and AWMAC, and paid by the Trade Contractor.
   .3 An AWMAC appointed inspector to review and approve all shop drawings and inspect all work at both the plant and the site.

.4 Warranties
   .1 2-Year AWMAC Guarantee Certificate to include replacing and refinishing due to defects or faulty workmanship.
   .2 3-Year manufacturer warranty against deformation (bow, twist, cup, twist) and against core, stile, and rail show-through (telegraphing, as determined by AWMAC Standards Manual.

2.1 MATERIALS

2.2 Performance Requirements
   .1 Environmental – Source
      .1 Endangered wood species *must not be used in the manufacturing of wood doors.*
      *Recommended species:*
      .1 Veneer shall be Birch, Oak, or Maple.
      .2 Trim shall be Birch, Oak or maple.

   .2 Manufacture
      .1 Avoid adhesives, preservatives, hardeners, and synthesizing agents and finish coatings that contain formaldehyde and high V.O.C. content.

2.3 Prescriptive Requirements
   .1 Materials
      .1 Wood doors with a mineral core are not recommended for maintenance reasons but are acceptable under some circumstance.

   .2 Components
      .1 Standard and minimum door size: 915 mm x 2,134 mm x 44 mm (3'-0" x 7'-0" x 1 ¾").
      .2 Maximum door height: 2,438 mm (8'-0").
      .3 Glazed doors shall have stile width of 152 mm (6") typical, 127 mm (5") minimum.

   .3 Provide solid wood backing for all hardware installation.

   .4 Fabrication
      .1 *All doors to be solid core.*

   .5 Execution
      .1 Seal *hinge gains*, top and bottom of doors before installation.

***END OF SECTION***