1.**1.1 GENERAL**

1.2 Related SFU Technical Requirements

.1 Section 07 00 10 Building Envelope – General Requirements

1.3 Coordination Requirements

.1 Coordinate design with BEP.
.2 Coordinate design with Structural Engineer.
.3 Coordinate design with Mechanical Consultant.

1.4 Performance Requirements

.1 Dampproofing and waterproofing must prevent leakage on new roofs.

.2 Plants and green roofs must have adequate dedicated service and maintenance access. Common problems with leakage and cleaning should also be considered.

1.5 Quality Control and Assurance

.1 Quality Assurance

.1 Initial testing of permeability, bond strength, material thickness, and flood testing *will be* carried out by the Owner at his expense. Subsequent test (hard and soft costs) will be borne by contractor.

.2 Applicator to provide material submittal and drawings showing any deviation from RCABC Waterproofing Standards.

.2 Quality Control

.1 Contractor to test moisture content of concrete substrate to verify that substrate moisture content does not exceed manufacturer’s specifications.

.2 Submit results to consultant prior to application of membrane.

.3 Flood testing and EFVM scans are to be performed prior to installation of overburden.

.3 Warranties

*The following warranties and guarantees are required:*

.1 First two years - Guarantee, secured by Performance Bond, commencing on the Final Holdback release due date.

.2 Third year to fifth year - Extended Guarantee, unsecured by Bond, commencing on the expiration of the Performance Bond. Joint and Sealant guarantee by Coating applicator and Manufacturer.

.3 20 year warranty (Tremco) is currently in place on most roofing systems at SFU and is the preferred choice – alternative products will be considered but should have equivalent parts and labor warranty.

.4 Submit signed certificates to Consultant.

.4 Commissioning

.1 Contractor to repair any defects found in membrane as a result of flood testing or *Electric Field Vector Mapping (EFVM)* scan.
2.1 MATERIALS

.1 Provide sub-grade waterproofing system for horizontal surfaces.

.2 Provide sub-grade waterproofing system for vertical surfaces.

.3 Drain bodies to have clamping ring to receive membrane.

3.1 EXECUTION

.1 All substrate cracks in concrete substrates to be pretreated by sawing out crack, installing bridging sealant, and reinforcing waterproofing system over the crack.

.2 Concrete bonding surfaces to be cleaned and prepared by shot-blasting, sand blasting, or water blasting.

***END OF SECTION***