1.1 **General**

1.2 **Design Requirements**

.1 Roofing is to be designed to meet Guarantee Standards of the Roofing Contractors Association of British Columbia Guarantee Corp. (RGC) as published in the "RGC Roofing Practices Manual" for a 5-Year guarantee.

.2 Roof covering to conform to CAN/ULC-S107-M "Standard Methods of Fire Tests of Roof Coverings" for a Class A, B or C classification.

.3 Roofing is to be designed to minimum Factory Mutual wind uplift standards, Class I90 windstorm.

.4 Sheet metal roofing systems are to be concealed fastener type.

.5 The design service life of sheet metal roofs is 30 years to first major maintenance/replacement.

.6 The air barrier system in a sheet metal roofing systems is to function as a secondary drainage plane. All fastener penetrations are to be sealed and clamped, and the air barrier plane is to be water tight over the design service life of the roofing.

.7 All sheet metal roofs must be designed to consider potential snow slumping hazards. Snow retention stops must be incorporated into roof slopes where there is the potential for public injury from sliding snow.

1.3 **Materials**

.1 Insulation to be rockwool or polyisocyanurate types.

.2 Sheet metal accessories for low slope roofs are to be a minimum 0.71 mm thick (24 ga), Z275 (G90) galvanized. Prefinished metal work to have Dofasco Series 5000 paint finish over galvanizing or equivalent.

.3 Sheet metal roofing is to be a minimum 0.71 mm thick (24 ga.), Z275 (G90) galvanized. Prefinished metal work to have Dofasco Series 5000 paint finish or equivalent applied over galvanizing.

.4 Other sheet metal roofing systems to be approved by Technical Services (Phone: 604-822-9510). If approved, other sheet metal roofing systems to be selected with design service life and maintenance considerations foremost.

.5 Metal work concealed in the roof assembly is to be at a minimum 18 gauge Z275 (G90) galvanized sheet metal, protected with a bituminous coating where in contact with damp materials.

.6 Metal work is to be provided with electrolytic isolation between dissimilar metals including fasteners.
.7 Air barrier/roof underlay membrane systems considered to have adequate design service lives for use under sheet steel roofing systems are:

.1 Single ply polyester-reinforced torch applied SBS modified bitumen roofing membrane; fully reinforced 180 g felt weight.

.2 Some high melting point, adhesively applied bitumen membranes, fully reinforced 180 g weight.

***END OF SECTION***