# Product Specification – Drexan™HeatTracer/TRM Brand Mineral Insulated Snow Melting Cables:

## Section 1 – General Introduction

The supplier/contractor shall supply and install a complete snow melting system, including, but not limited to, heating cables, electrical wiring and distribution, controls, sensors, and steel strapping as required.

## Section 2 – Products

2.1 The products shall be approved for Snow Melting installations, in accordance with the latest CSA standards.

2.2 The heating cables are to be Drexan™ HeatTracer/TRM Brand Copper sheathed, MI Mineral Insulated type.
Construction of the cable is to be: Mgo Magnesium Oxide insulated, with a copper or stainless steel seamless outer sheath. In the case of a copper sheath, there shall also be an outer HDPE jacket for corrosion protection when embedded.

2.3 In accordance with CSA standards, the heating element should not be altered in the field, and should be supplied as a finished heating unit, complete with cold leads and end terminations. Typical cold leads are 15’ in length, but could be supplied as custom lengths if required.

2.4 Operational voltage of the heating cables shall be up to 600 Volts.

## Section 3 – Installation Notes

3.1 All components of the snow melting system, should be installed in accordance with local electrical codes, as applicable to each location.

3.2 All heating cables should be installed so not to cross one another. Spacing of 4” should be maintained between all heating runs.

3.3 Crossing of control joints, heating the trench drain, slab entry and junction box installation, should be done in accordance with the Drexan™ HeatTracer/TRM package of drawings entitled “Snow Melting Installation Drawings – Cross Sections”

3.4 Cable spacing should be a maximum of:

3.4.1 8” for installation in concrete or mastic asphalt

3.4.2 6” for installation in asphalt or sand (brick pavers)

3.5 The cable spacing calculation is as follows:
Spacing inches = (Area in square feet x 12) / cable length in feet

## Section 4 – Control and Operation

4.1 As a bare minimum, a high limit slab sensing thermostat should be installed.
4.2 Beyond this, an automatic snow controller, with a remote snow sensor, can be installed, for automatic control and operation, and energy efficiency.
4.3 It is recommended to always install a contactor to directly control the heating cable load, and not connect the heating cables direct to the controller.

## Section 5 – Testing, Verification and Inspection

5.1 Before, during, and after installation, the heating cable should be tested with an insulation resistance meter, and an ohms meter. The insulation resistance meter shall be 500 Vdc, with a test result of no less than 20 Meg ohms. The ohms meter readings shall be within the values as stated on the cable tags.
5.2 After the system has been completed, the contractor must have the installation approved and inspected by the local electrical safety inspector. A copy of the inspection 'passed' report should be supplied to the customer, engineer, as requested.

## Section 6 – Warranty

6.1 The standard warranty should be a minimum of 2 years, after substantial completion of the snow melting system.