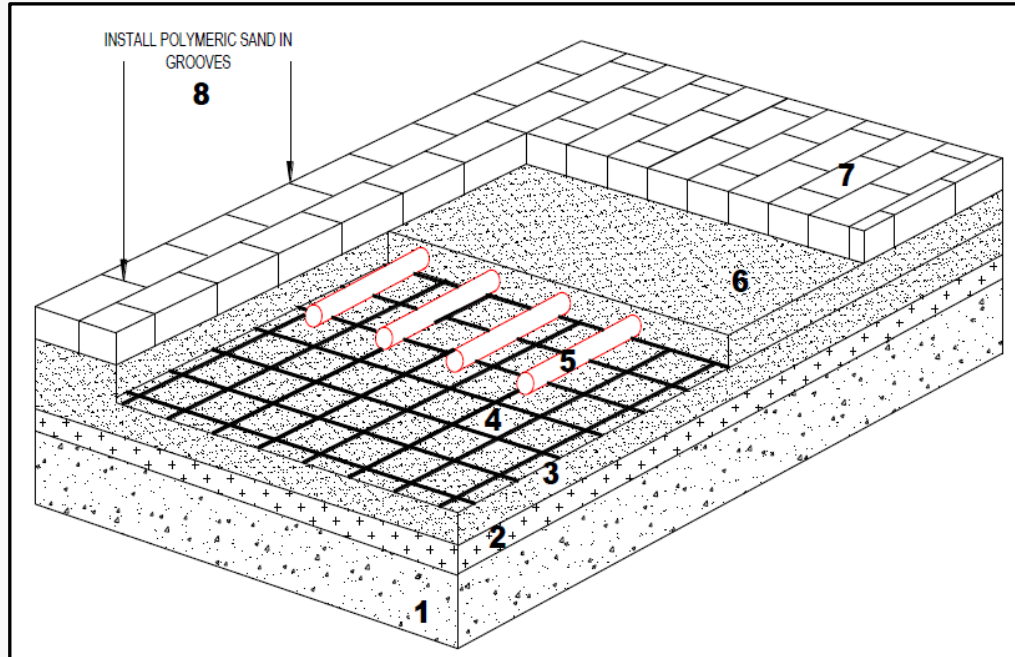




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## MI Heating Cable – Typical Pavers on Sand with Mesh Cross Section



### Pavers on Sand with Mesh Notes

1. For sloped areas, do not use sand as it may be washed away thus exposing and damaging the heating cables
2. Above the sub base material lay a filter cloth and compact 1" - 1.5" of limestone screenings or sand
3. Lay a 6" x 6" mesh over the previous layer and secure the heating cable to this mesh using plastic zip ties
4. If using a slab sensing thermostat, install a 0.5" metal conduit between two runs of heating cable and away from high concentrations of heating cable. *You may install the thermostat at this time.*
5. Compact a 1" layer of sand or screenings above the heating cables
6. Lay the 2" – 2.25" (maximum thickness recommended for optimal cable performance) concrete pavers on top of the compacted limestone screenings
7. Install polymeric sand in the paving grooves

#### NOTES:

- 1) GRANULAR SUB-BASE MATERIAL
- 2) FILTER CLOTH
- 3) 1 TO 1.5 INCH (25 TO 38 mm) OF COMPACTED LIMESTONE SCREENINGS IN GRAINS AS FINE AS SAND OR SAND
- 4) 6X6 #8 FLAT WELD SHEET MESH
- 5) ZIP TIE TRM HEATING CABLES ON 6X6 MESH
- 6) 1 INCH (25mm) (ABOVE CABLES) LIMESTONE SCREENINGS IN GRAINS AS FINE AS SAND OR SAND
- 7) CONCRETE PAVERS – 2" – 2.25" THICK MAXIMUM FOR OPTIMAL PERFORMANCE OF SNOW MELTING CABLES
- 8) INSTALL POLYMERIC SAND IN GROOVES

**MESH TO BE SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR**

<b>Cross Sectional Drawing</b>	Scale: N.T.S.	Project Status: Construction
<b>Thermal Resources Management</b> <b>TRM Heating Cables</b>	Drawn by: RG	Approved: _____
	Cross Section for Paving Stones above sand with cables affixed to Mesh	Date of issue: April 7, 2020
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**\*\*IMPORTANT NOTES ABOUT PAVING STONE SNOW MELTING SYSTEMS:\*\***

Paving stones are a very difficult medium to provide snow melting for and it is 100% imperative that our cross sectional detail is followed

Item 1) Cables must not be embedded more than 3" beneath the finished surface level – if cables are embedded more than 3" away from the finished surface level, performance of the cables will be compromised and may not melt snow at all

Item 2) Pavers must not be thicker than 2.25"

Item 3) Gravel, pea stone, and HPB are not suitable mediums to embed heating cables as there are air gaps between these mediums and heating cables that lead to cables burning themselves up and premature cable failures. In paving stone cross sections, cables MUST be embedded in limestone screenings in fine screenings the size of sand granules, sand, concrete, or mortar. Stones or aggregates with chunks are not approved to embed snow melting cables. If cables are embedded in HPB, TRM's would not offer a warranty for our products and would not guarantee system performance at all.

Item 4) The grooves between paving stones MUST be backfilled with polymeric sand to make the cross section impermeable. Permeability can lead to sand or limestone screenings washing away. If cables are exposed to free air or air gaps between the cables and the heat transferring medium, cables burn up their own jackets and fault prematurely

Item 5) 6" x 6" grids of wire mesh MUST be supplied and installed by the GC above the base layer of compacted sand for EC and TRM to zip tie the heating cables to.