

HEAVENLY HEAT INC.

EasyMat Loose Wire Installation Instructions

General

Our product, EasyMat, is intended to bring up the floor temperature to a comfortable condition (no cold feet).

Read instructions carefully

- I. No modifications may be made to the product.
- II. **Never cut the heating wire. EasyMat loose wire run in electrical parallel. Do not connect the loose wire in series.**
- III. Do not install the product if the temperature is below -41° F.

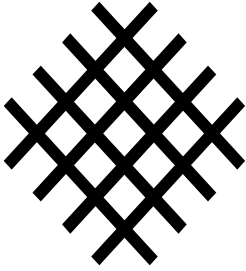
FLOOR STRUCTURES

Preparations

- I. All preparations are essential to ensure a quality installation.
- II. Remove all obstacles from the sub-floor and make sure that the sub-floor is free from all dirt, nails, sawdust and other construction residue.
- III. Plan the heating wire layout, thermostat location, rough-in, and power supply from the main panel. The wire should be installed about 3 to 4 inches away from the walls.
- IV. Minimum banding radius (where needed) $R = 5$ cm.
- V. Ensure the wire size fits the applicable area in accordance with your plan.

For any inquiry, please contact us:
Tel: 1-877-52-FLOOR

www.heavenly-heat.ca



HEAVENLY HEAT INC.

Installation Steps

1. Mark Thermostat and conduit location.
2. Install thermostat electrical box and conduit (by approved electrician)
3. Clean floor surface



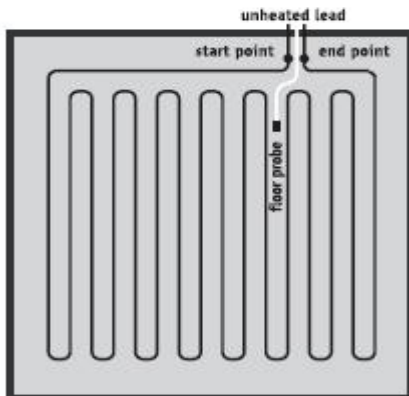
4. Mark heating wire location on the sub-floor in accordance with your plan. Ensure heating cable does not extend beyond the room or the area for which it was designated

5. Test No. 1: Test the heating wire, before rolling it out, with an ohmmeter (the results should be $\pm 10\%$ of the tag value). If the resistance is above or below 10% please call us. The calculation for the expected resistance is voltage squared divided by the wattage of the wire. ($V^2/W = \text{Ohms}$).



The heating wire is terminated by three cold lead (two line wires and ground) wires. The wires are 14 AWG, and the length is about 12 feet long. If the **cold lead wires** are too long they can be trimmed to the required size.

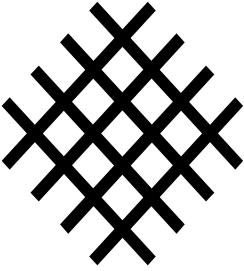
6. Place heating wires at the marked area 3" apart in accordance with your plan. Make sure the heating wires (black wires) do not cross each other at any point (as shown below).



Standard room

For any inquiry, please contact us:
Tel: 1-877-52-FLOOR

www.heavenly-heat.ca



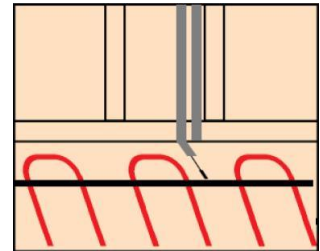
HEAVENLY HEAT INC.

Standard approved electrical tools and measuring equipment such as multimeter, cutters, measuring tape, adhesive tape, wire stripper, pliers etc. are to be used.

WARNING:

“RISK OF ELECTRIC SHOCK AND FIRE DAMAGE TO SUPPLY CONDUCTOR INSULATION MAY OCCUR IF CONDUCTORS ARE ROUTED LESS THAN 2 INCHES (51 MM) FROM THIS HEATING PRODUCT. REFER TO INSTALLATION INSTRUCTIONS FOR RECOMMENDED MEANS OF ROUTING SUPPLY CONDUCTORS”.

7. Pull the cold lead through the conduit to the thermostat box. Pull the sensor cable from the floor to the thermostat box through a separate tube. The sensor is low voltage and does not go in the same tube as the power leads. (All connections should be performed by a licensed electrician), who is familiar with the construction and operation of the heat mat. Place the sensor between the heating cables without allowing the sensor to contact the heating wire.

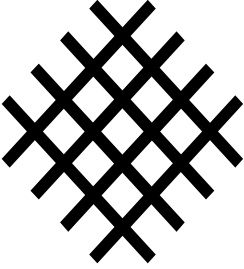


Installation of this heating wire should be performed in accordance with this installation instruction manual. The installation should be in accordance with Article 424, Part IX, of the National Electrical Safety Code Book.

8. Ensure all the adhesive tapes are well glued. If any wire wants to stick up use a small piece of foil tape to hold it down.
9. Test No. 2 Test according to step 5.
10. The floor is now ready for tiling. After the heating wire is laid out, cover it by a cement layer with minimum ¼” thickness.

For any inquiry, please contact us:
Tel: 1-877-52-FLOOR

www.heavenly-heat.ca



HEAVENLY HEAT INC

11. A qualified electrician should carry this step.

- Test No. 3: Test according to step 5.
- Install thermostat in accordance to the manufacture instructions and IEE regulation.
- Carry out the GFCI test.
- Ensure product load (Amp) does not exceed the thermostat switching rating.
- Label the panel circuit in accordance with the local code.

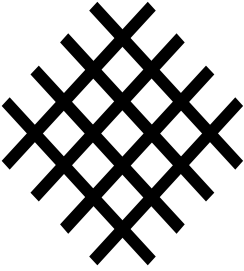
“THIS EQUIPMENT SHALL BE INSTALLED ONLY BY QUALIFIED PERSONNEL WHO ARE FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE APPARATUS AND THE RISKS INVOLVED”.

“THE INSTALLATION OF THIS HEATING PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE MOST CURRENT AND APPLICABLE NEC AND LOCAL ELECTRICAL CODES”.

12. Switch on breaker and thermostat and follow thermostat instruction for programming. Ensure mortar/screed/leveling compound is cured in accordance with the manufacturer’s specification prior energizing the mats.

After the installation of the wires is completed affix labels to the service panel board and affix labels in each room with heating controls stating “RADIANT FLOOR HEATING’.

- **Affix label “WARNING’ “RISK OF ELECTRIC SHOCK – ELECTRIC WIRING AND HEATING PANELS CONTAINED BELOW THE FLOOR. DO NOT PENETRATE FLOOR WITH NAILS, SCREWS, OR SIMILAR DEVICES”.**
- **Affix the following label adjacent to points of access to canceled areas in which installed heating products are accessible, “CAUTION” “RADIANT HEATING PRODUCTS INSTALLED IN THIS AREA. AVOID ACTIONS WHICH MAY RESULT IN MECHANICAL DAMAGE TO THE PRODUCT”.**



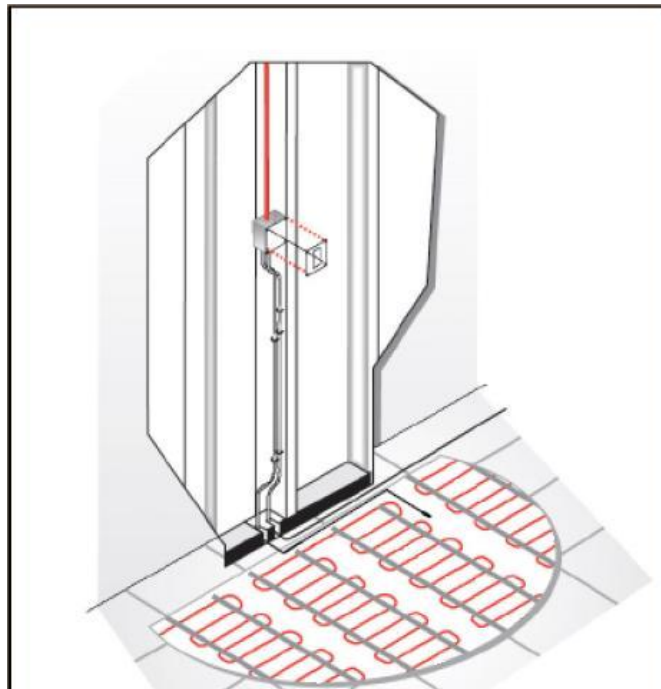
HEAVENLY HEAT INC.

Electrical preparation – to be carried out by a qualified electrician

- I. Install all the necessary rough-in for the thermostat (illustration #1).
- II. Power leads must be protected by local code.
- III. A breaker with G.F.C.I. or thermostat that is equipped with a G.F.C.I. **must protect the circuit.**
- IV. Install and programmable thermostat in accordance with the installation instructions. According to the American Society of Heating, Refrigerating and Air-Conditioning Engineers the upper level of comfort is 85° F.

After the heating wire is installed on subfloor and tested electronically, apply finished floor or top ¼ inch of thinset if required in cases where coverings are combustible. For noncombustible floor covering materials use the necessary amount of thinset.

Illustration 1



Warning: Ensure heating wire is not connected to the power supply until all installations is completed and tested

For any inquiry, please contact us:
Tel: 1-877-52-FLOOR

www.heavenly-heat.ca