Step By Step Guide to Installing Your Slab Heating Kit

Before installation - check the following

1. Measure room area and compare back to 'Design Layout'.

2. Retaining mesh or rods should cover the entire heated area and be spaced at 200mm centers. If not, extra mesh/rods must be added.

3. Conduits should be installed in the wall cavity prior to pouring slab.

4. In your kit you will find a 'resistance card'. Check your resistance and compare with the factory reading. Resistance should be between -5% to +10% of the value noted on the factory resistance check.

5. When heating multiple areas, always compare back to your supplied 'Comfort Heat Design Layout', that you are installing the correct cable allocated for the area.

Important Notes

1. When turning on for the first time, increase the floor temperature gradually over 2-3 days.

2. After installation to avoid damage to the cable, we recommend **not** drilling into the floor.

3. The final connection of heating cables and thermostat must be carried out by a licenced electrician.

4. NEVER CUT THE HEATING CABLE (yellow cable) - Only the cold tail can be shortened (black cable)

5. The heating cable should never touch or cross over. Heating cables are spaced at 200mm apart unless you are otherwise advised on your 'Design Layout'.

6. Generally the thermostat set at 24-26 deg C will result in a comfortable floor temperature.

Step By Step Guide to Installing Your Slab Kit

Technical Data

Cable Type:	Single conductor heating cable with earth screen.
Construction:	Multi-strand heating wire wound around kevlar core with double insulation, earth screen & sheath.
Insulation Rating:	4000 V
Rated Voltage:	240 Volts AC
Rated Output:	160W/m2
Cold Tail Length:	4 metre with splice connection
Cable Diameter:	4.6 mm
Cable Standard:	IEC800 Class II

Installation

1. Measure room and allow 200mm clearance off walls and fixtures.

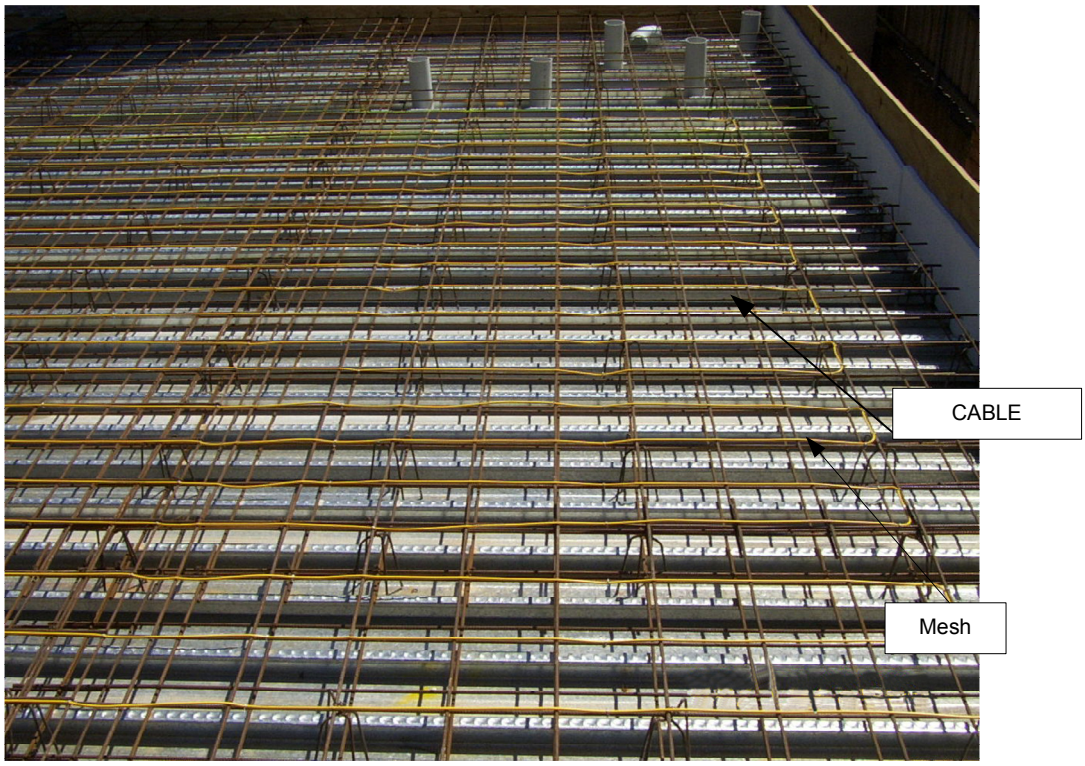
2. Connect cable to retaining mesh with supplied pliers and clips. Continue until all the cable is attached, always referring back to your 'Design Layout' for install measurements.

3. Attach sensor tube to the retaining mesh with clips and slide the end up the conduit. Install sensor, using supplied lubricant. Refer to "Sensor Tube Assembly" page.

4. Check the cable resistance and compare with 'resistance card' supplied.

5. In order to prevent damage to the cable while the slab is being poured, it is important to monitor the concrete pour.

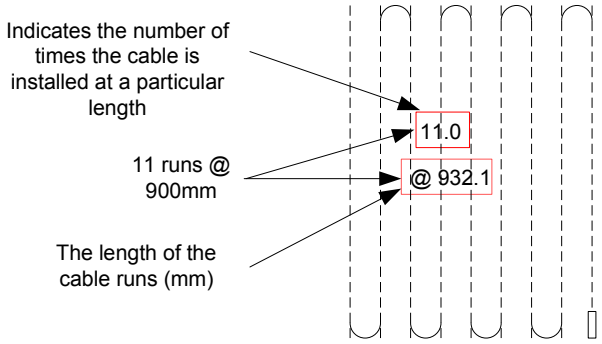
6. You will need to supply your electrician with the nominated loads for each area.



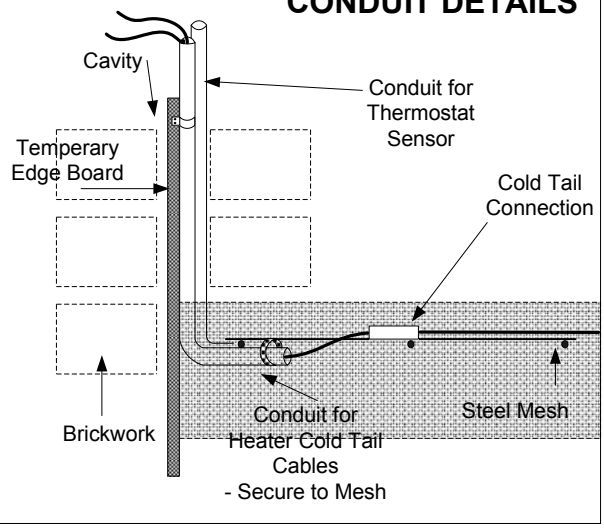
Cable Installation Guide
Slab Heating Cable

DRAWING DIMENSIONING DETAILS

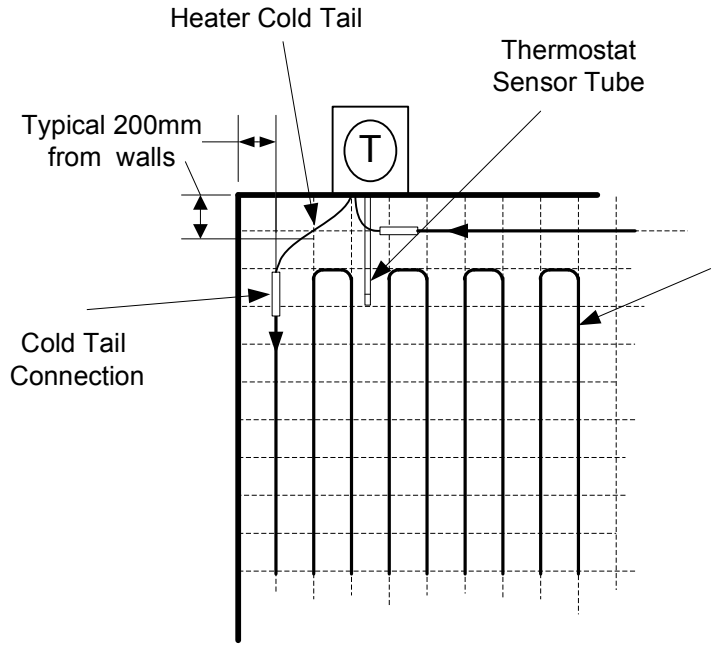
(Refer Comfort Heat Install Drawing)



CONDUIT DETAILS



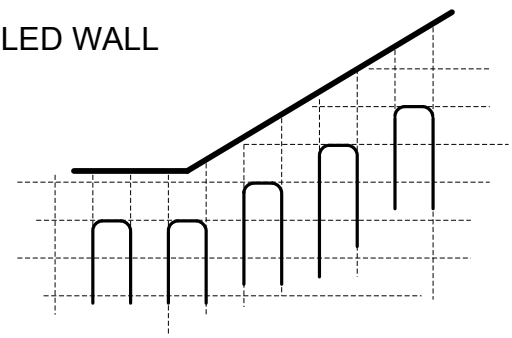
TYPICAL INSTALLATION DETAILS



- NEVER CUT THE HEATING CABLE

- NEVER OVERLAP OR CROSS THE HEATING CABLE

ANGLED WALL



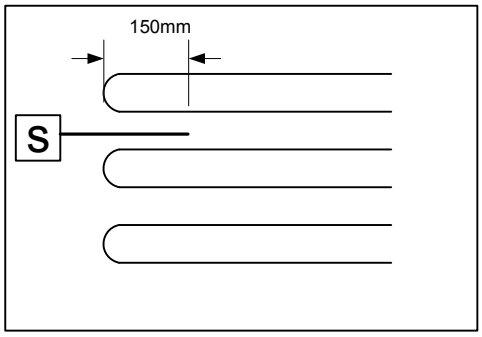
Sensor Tube Assembly For In-Slab

The sensor tube assembly allows for the easy installation & removal of the thermostat sensor. Should the sensor fail at some time or the thermostat replaced the sensor tube will allow for the sensor to be replaced.

LENGTH - 2.5m Outside Dia - 12mm

Location

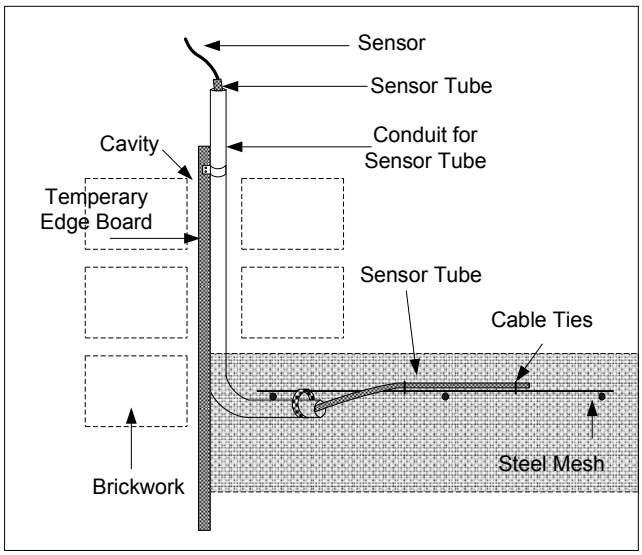
The sensor end should be located in the floor between the heating cables so that the thermostat sensor will measure a typical floor temperature.
Wherever possible the sensor tube should not pass over or under the heating cable.



CABLES - Between adjacent cables and min 150mm in from end.

Tube Installation

Install the sensor tube in conduit. Ensure all bends have a large, smooth radius to ensure the sensor will easily slide down. The capped tip of the sensor tube should be suitably located to allow the sensor to measure the typical floor temperature. Secure the sensor tube in place on the mesh with cable ties.



Sensor Installation

Prior to installing the thermostat sensor apply 2-3 drops of lubricant to the start of the sensor tube. Slide the sensor down the tube until reaches the sensors capped tip.

Tip

To make sure the sensor tip does not slid away from the end of the tube, once it is in place wrap some tape around the top of the tube. This will hold the sensor in place incase it moves or is accidentally pulled out.