

Thermafloor NZ

Installation Instructions For Thermafloor under-tile heating cables

Prepare the subfloor

Chisel 3 channels below flush box. Scrape & sweep floor removing all protrusions and dust.

Measure and mark floor

Mark out a perimeter of the floor area to be heated. This will be 100mm from each wall and fixture. Then calculate in square metres the total area to be heated.

Calculate spacing for the cable runs

Take the total floor area to be heated

And divide by the cable length

Then multiply by 1000

This gives you spacing in millimetres



Mark spacing and spray adhesive

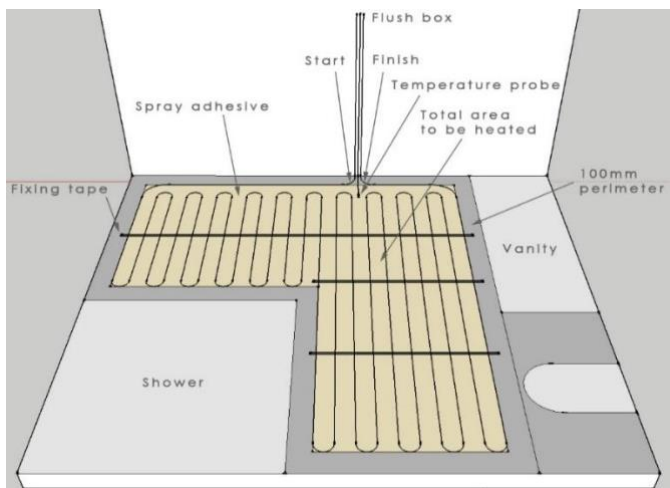
Mark out the spacing along the perimeter on opposing sides of the room. Remember to leave room at one end for the cable to return to the start point. Spray adhesive over the markings where the cable will loop.

Lay the element

Run the cable up and down in line with the markings, pulling each run tight and fixing loops as you go. Fix temperature probe in the middle channel at least 150 mm from the wall. Spray adhesive at 500mm intervals perpendicular to the cable runs and apply tape.

Pull wires up and connect the damage alarm

Tape each wire to the draw wire and pull through to flush box. Twist together the shielding wires and attach the green clip. Attach the black and red clamps to either end of the element wire. Switch on. The red light will show when the monitor is on, and alarm will sound if the element gets damaged.



Important!

In New Zealand, the thermostat must be connected by a licensed electrician.

All floor systems must be connected to an RCD protected circuit.

Cables cannot be cut to length or extended by adding other cable.

The gap between any two parts of the element can never be less than 50mm.

If laying directly under carpet/vinyl/timber, levelling compound must be used.

Size guide

Size (watt)	Coverage (m ²)	Approx Length (m)	Resistance (Ω/m)
200	1.0 – 1.5	17.4	264.5
300	1.5 – 2.2	26.1	176.3
400	2.2 – 3.0	34.8	132.3
500	3.0 – 3.6	43.5	105.8
600	3.6 – 4.2	52.2	88.2
700	4.2 – 5.0	60.9	75.6
800	5.0 – 5.6	69.9	66.1
900	5.6 – 6.3	78.3	58.8
1000	6.3 – 7.0	87	52.9
1250	7.0 – 8.5	108.7	42.3
1500	8.5 – 10	130.4	35.3
1750	10 – 12.5	152.2	30.2
2000	12.5 – 14.5	173.9	26.5
2500	14.5 – 17.5	217.4	21.2
3000	17.5 – 22	260.9	17.6