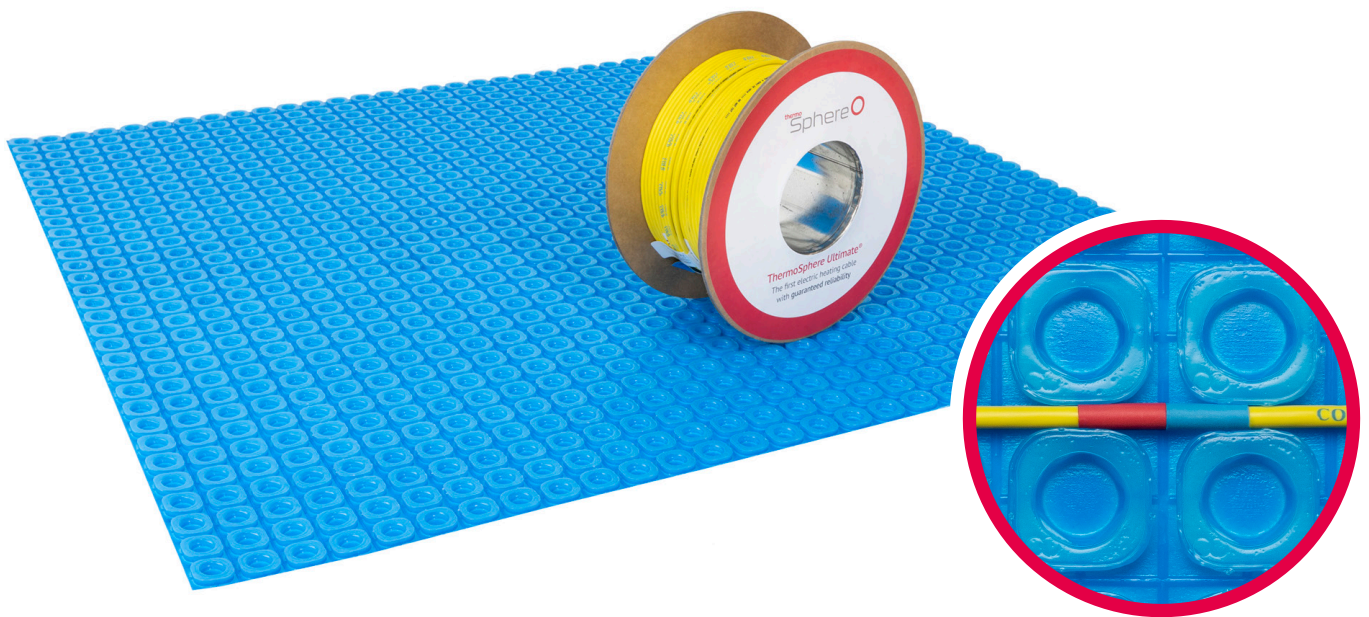


ThermoSphere Ultimate®

The first electric heating cable with guaranteed reliability



ThermoSphere Ultimate® is quick and easy to install, plus it's the most reliable underfloor heating cable.

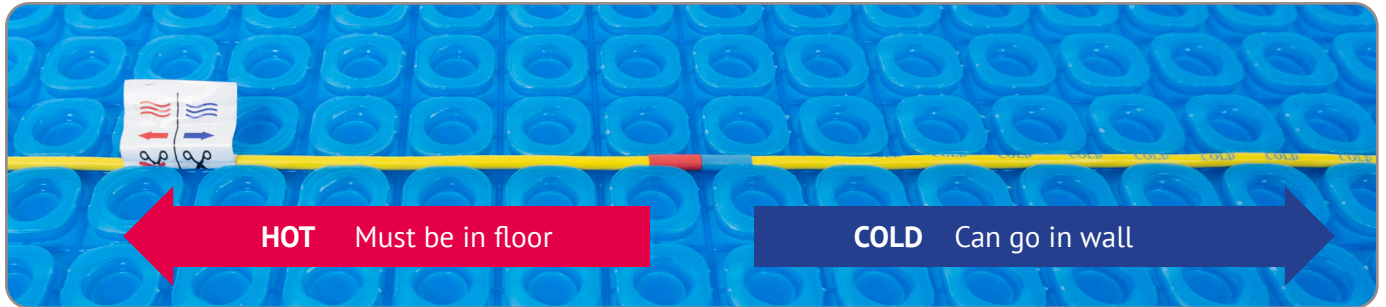
ThermoSphere Ultimate combines a TwistedTwin cable, and in-line joint technology. This removes the risk of damaging the cable during installation, as cutting into the membrane and substrate is no longer required.

- ThermoSphere Ultimate is compatible with popular heating and decoupling membrane mats so you can use your preferred brand of decoupling mat with the easiest to install and most reliable heating cable.
- There is no bulky hot/cold joint that needs cutting into the floor - Installation is quick and easy.
- Install ThermoSphere Ultimate into ThermoSphere Membrane or Self-adhesive Membrane at either 130W/m² or 195W/m².
- ThermoSphere Membrane's decoupling properties neutralise lateral movement in the floor and minimise the risk of cracking and delamination.
- Creates a waterproof layer within the floor when used with waterproofing products.
- Fleece backed membrane is adhered with a flexible tile adhesive, and self-adhesive membrane can be laid directly onto a clean plywood sub floor.

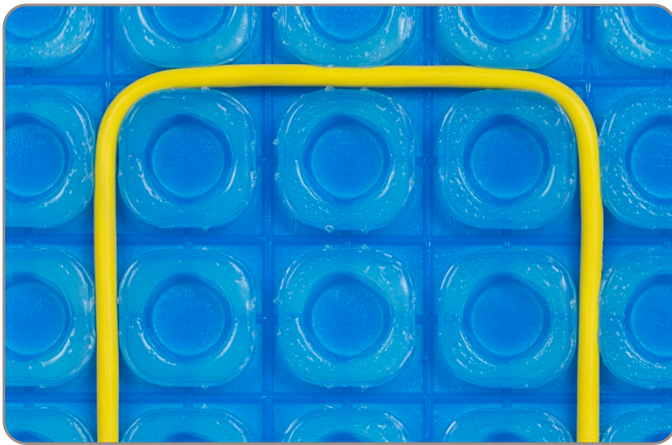
Technical data

Voltage	230V
Outputs	130W/m ² or 195W/m ²
Membrane thickness	5.5mm
Cable length	12 to 200m
Protection rating	IP68
Membrane material	Polyethylene
Cable insulation	FEP and HR-PVC
Robinson test rating	Extra heavy use
Recommended max temp	27°C (limited by controls)
Warranty	Lifetime
Cable made in	India
Membrane made in	Italy

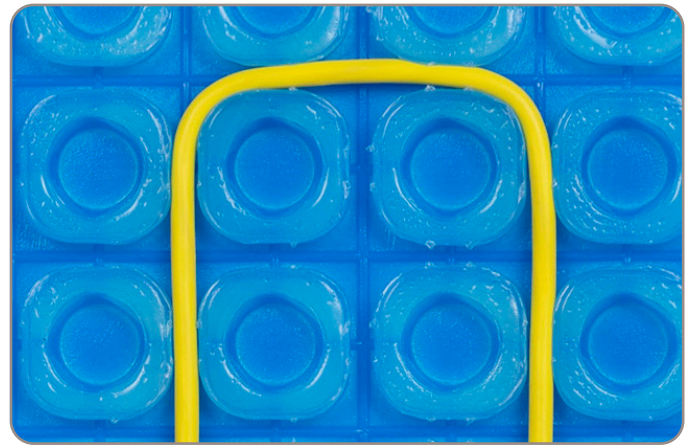
ThermoSphere Ultimate's in-line joint technology removes bulky joints for easier, faster installation



Variable spacing and output per m² in ThermoSphere Membrane

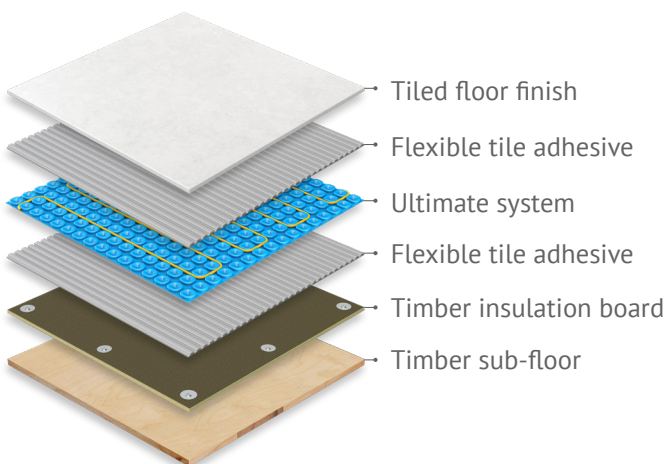


130W/m² at 3 dimple spacing

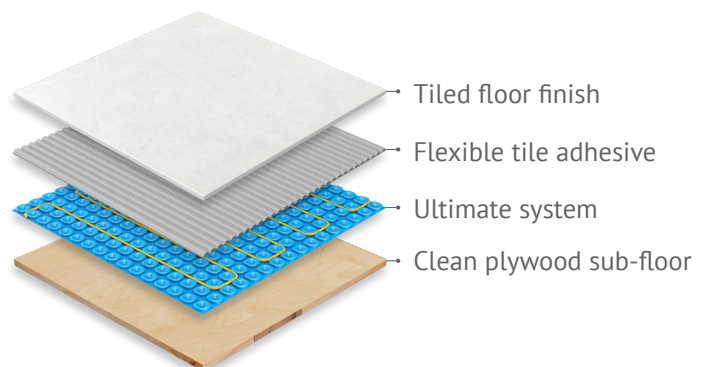


195W/m² at 2 dimple spacing

Fleece backed membrane example build up



Self-adhesive membrane example build up



Cable sizes and outputs

Code	Length (m)	Area (m ²) 130W/m ²	Area (m ²) 195W/m ²	Output (W)	Resistance (Ω)
HDMC-012-0150J	12	1.15	0.77	150	352.67
HDMC-018-0225J	18	1.73	1.15	225	235.11
HDMC-025-0300J	25	2.31	1.54	300	176.33
HDMC-031-0375J	31	2.88	1.92	375	141.07
HDMC-037-0450J	37	3.46	2.31	450	117.56
HDMC-042-525J	42	3.90	2.60	525	100.76
HDMC-050-0600J	50	4.62	3.08	600	88.17
HDMC-055-675J	55	5.10	3.40	675	78.37
HDMC-061-0750J	61	5.77	3.85	750	70.53
HDMC-075-0900J	75	6.92	4.62	900	58.78
HDMC-090-1080J	90	8.32	4.99	1080	48.98
HDMC-100-1200J	100	9.23	6.15	1200	44.08
HDMC-125-1500J	125	11.54	7.69	1500	35.27
HDMC-150-1800J	150	13.85	9.23	1800	29.39
HDMC-175-2100J	175	16.17	10.78	2100	25.19
HDMC-200-2400J	200	18.46	12.31	2400	22.04

Membrane sizes

Code	Description	Area (m ²)	Size (M)	Unit
HDM-001	Fleece backed membrane 1m ²	1	1 x 1	Panel
HDM-005	Fleece backed membrane 5m ²	5	5 x 1	Roll
HDM-015	Fleece backed membrane 15m ²	15	15 x 1	Roll
HDM-SA-001	Self-adhesive membrane 1m ²	1	1 x 1	Panel
HDM-SA-015	Self-adhesive membrane 15m ²	15	15 x 1	Roll

Technical Data

Appearance	Polimeric membrane
Colour	White / Cyan blue
Shelf life	24 months in dry environment avoiding direct sunlight and heat sources
Total thickness	5.5mm (EN 1849 - 2)
Width	1m
Width of non-woven PP	70g / m ² (EN 1849 - 2)
Weight of PP sheet	700g / m ² (EN 1849 - 2)
Rounded square shaped reliefs number	1024 m ²
Compressive strength	600KN / m ²
Longitudinal breaking load	620N / 50 mm (EN 12311 - 1)
Transversal breaking load	550N / 50 mm (EN 12311 - 1)
Longitudinal ultimate elongation	50% (EN 12311 - 1)
Transversal ultimate elongation	50% (EN 12311 - 1)
Crack-bridging ability	1mm
Air volume for vapor management	2,2lt / m ²