

Electric Underfloor Heating



Tiles with Underfloor Heating



Introduction

Feel the glow from beneath your feet.

Our underfloor heating (UFH) is a quality product designed for those who require a reliable electric underfloor heating system.

Providing the ultimate feeling of comfort and luxury, it is inexpensive to install and run.

Available for a wide range of applications and floor finishes.

Benefits

Affordable luxury.

Underfloor heating doesn't have to be an expensive extravagance.

Our UFH range is an economical way to bring warmth to any room.

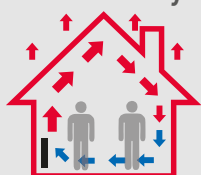
Standard radiator system

- Heat rises from floor to ceiling
- Heat loss through roof
- Creates draughts and uneven heat
- Cold floors and hot heads

Underfloor heating system

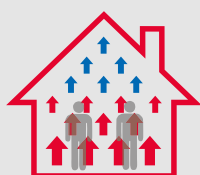
- Even heat spread
- Comfortable room temperature
- No draughts
- Warm floors

Standard radiator system



Convection causes drafts and uneven heat spread

Electric underfloor heating



Even spread of heat for maximum comfort

All dimensions are in mm

Running Costs

Our underfloor heating offers many economical advantages;

- Rapid heat up times
- Fully programmable touchscreen thermostat
- UFH can be programmed to allow for different times and temperatures in different rooms
- Heat a 2m² area for less than 7p day*

Running Costs*

Time (hours)	Heated Area						
	1m ²	2m ²	4m ²	5m ²	10m ²	15m ²	25m ²
1	1.8p	3.6p	7.2p	9p	18p	27p	45p
2	3.6p	7.2p	14.4p	18p	36p	54p	90p
3	5.4p	10.8p	21.6p	27p	54p	81	135p
4	7.2p	14.4p	28.8p	36	72p	108p	180p
5	9p	18p	36p	45p	90p	135p	225p
6	10.8p	21.6p	43.2p	54p	108p	162p	270p
7	12.6p	25.2p	50.4p	63p	126p	189p	315p
8	14.4p	28.8p	57.6p	72p	144p	216p	360p

*These running cost calculations assume an output of 150w/m² in a well insulated environment and an electricity tariff of 14p/kWh

Applications

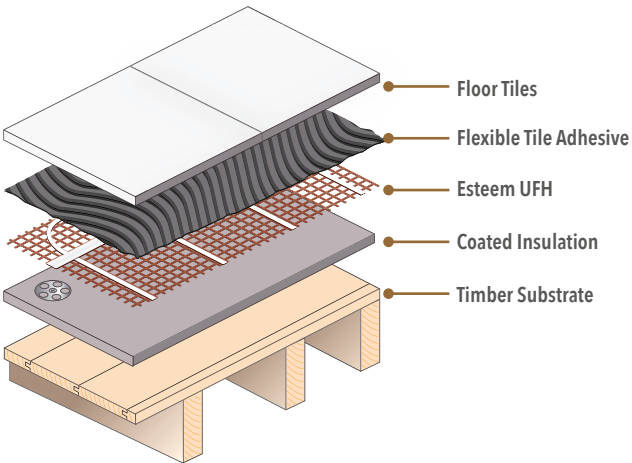
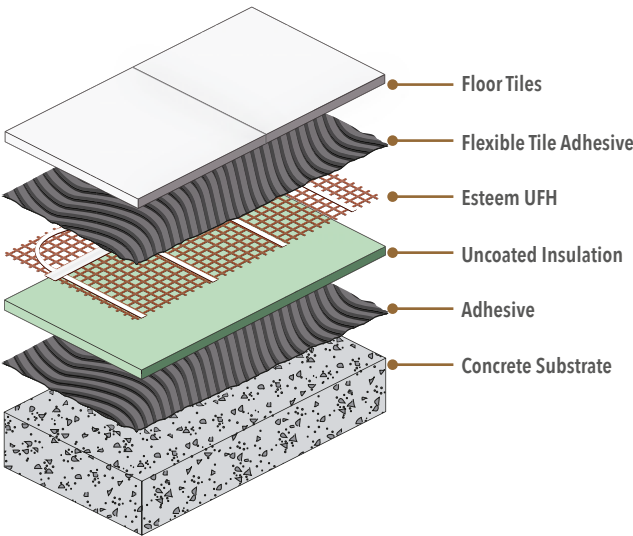
UFH products have a wide range of applications and can be installed on timber and concrete substrates.

Suitable for almost all floor finishes; here are some examples.

What type of UFH do I require?

Product	Tiles	Stone	Laminate	Porcelain	Carpet
150w/m ² Mat	•	•	•	•	•
200w/m ² Mat	•	•	•	•	•
Cable Kit	•	•	•	•	•

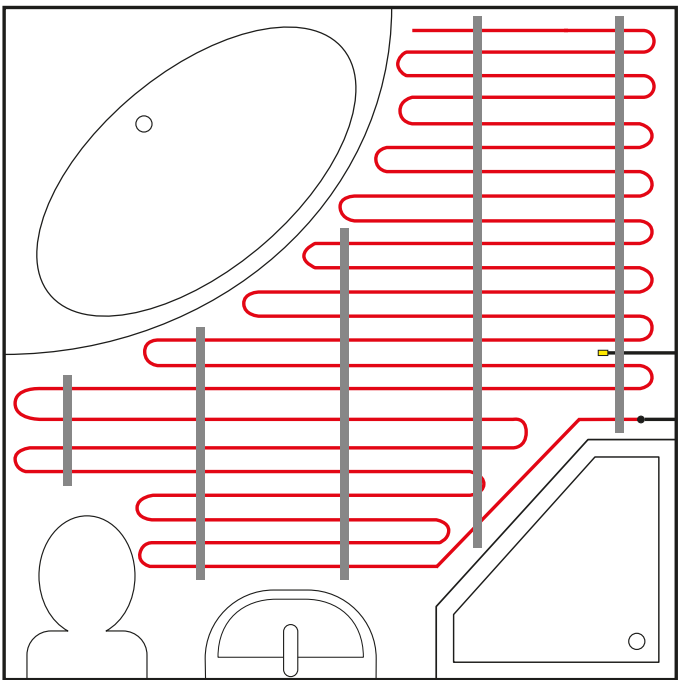
For small awkward areas use cable kit. For regular areas 1-24m² use 150w/m² mat. For high output use 200w/m² mat.



Always check with your flooring manufacturer before installing over an electrical underfloor heating system.

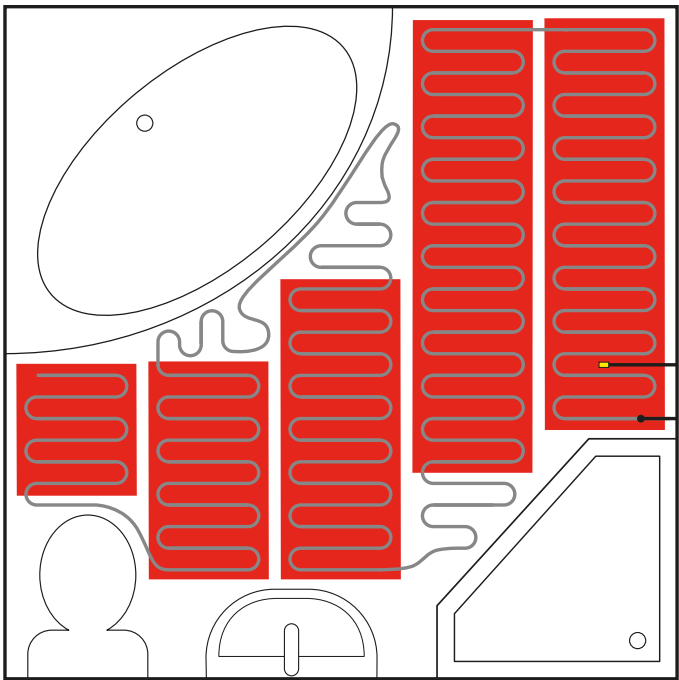
Cable Kit Layout

Simple installation in irregular areas
Diagram below shows a typical bathroom layout.



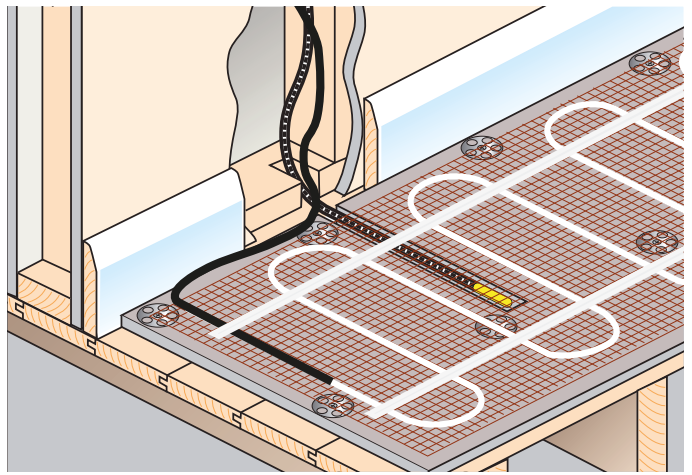
Mat System Layout

Simple, flexible installation
Diagram below shows a typical bathroom layout.



Conduit & Sensor Installation

Diagram opposite shows an insulated timber substrate.



Installation

Efficient underfloor heating.

UFH mats can be laid onto any substrate and we always recommend that you lay them onto insulation board for maximum efficiency and potentially reduced running costs.

There are two types of insulation board - Coated and Uncoated.

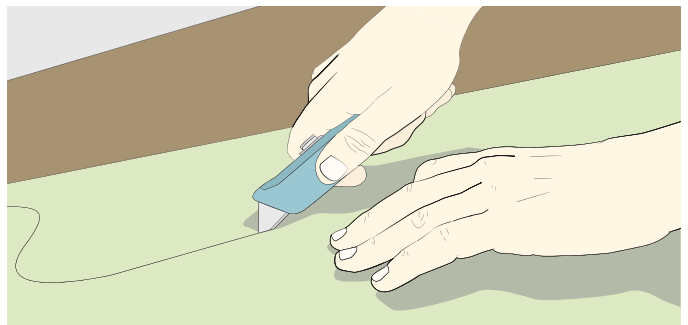
- Can make underfloor heating 50% more efficient
- From just 6mm thick
- Fast, simple installation
- 100% water and rot proof



For use with timber substrates



For use with concrete substrates



Cuts easily using a sharp blade

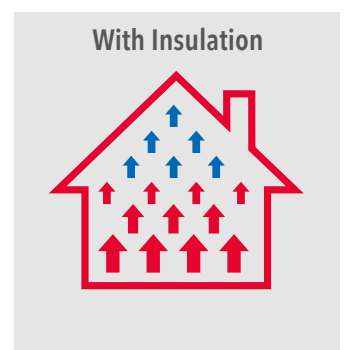
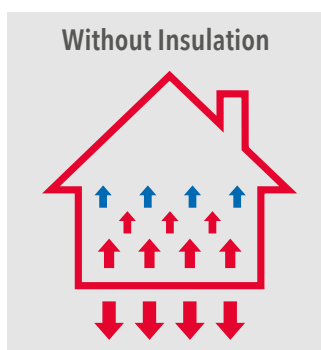
Vastly Reduce Heat Up Times

Floor construction and finish will govern heat up times.

Sufficient insulation will greatly reduce heat up times and you will notice the difference in your energy bills. A well-insulated UFH system can be up to 50% more efficient. Average heat up times can be seen in the table below:

Concrete & 50mm Insulation Board	0.5 hours
Concrete & 10mm Insulation Board	1.0 hour
Un-insulated Concrete	5.0 hours
Concrete & Sub Surface Insulation	3.0 hours
Chipboard & 10mm Insulation Board	0.5 hours
Un-insulated Chipboard	1.0 hour

All dimensions are in mm



Avoid heat loss and maximise the efficiency of your underfloor heating system



150W/m² Heating Mat

Code	Mat/Cable Length	Output (W)	Area (M ²)	Voltage (V)	Resistance (Ohms)	RRP
118500	2.0	150	1.0	230	353	£50.00
118503	3.0	225	1.5	230	231	£76.00
118506	4.0	300	2.0	230	176	£101.00
118509	5.0	375	2.5	230	141	£126.00
118512	6.0	450	3.0	230	118	£151.00
118515	8.0	600	4.0	230	88	£202.00
118518	10.0	750	5.0	230	70	£252.00
118521	12.0	900	6.0	230	59	£302.00
118524	16.0	1200	8.0	230	44	£403.00
118527	20.0	1500	10.0	230	35	£504.00
118530	24.0	1800	12.0	230	29	£605.00

200W/m² Heating Mat

Code	Mat/Cable Length	Output (W)	Area (M ²)	Voltage (V)	Resistance (Ohms)	RRP
118550	2.0	200	1	230	265	£54.00
118552	3.0	300	1.5	230	176	£81.00
118554	4.0	400	2	230	132	£108.00
118556	5.0	500	2.5	230	106	£135.00
118558	6.0	600	3	230	88	£162.00
118560	8.0	800	4	230	66	£216.00
118562	10.0	1000	5	230	53	£270.00
118564	12.0	1200	6	230	44	£324.00
118566	16.0	1600	8	230	33	£432.00
118568	20.0	2000	10	230	27	£540.00
118570	24.0	2400	12	230	22	£648.00

Programmable Thermostat

- Improved 7 day 6 event schedule
- 6 heating events at weekends
- Simplified settings menu
- Floor temperature sensor
- Ambient temperature sensor
- Available in Black Gloss or White Gloss



Programmable Glass Thermostat

Code	Description	RRP
5220	Thermotouch Programmable - White Glass	£129.00
5226	Thermotouch Programmable - Black Gloss	£129.00

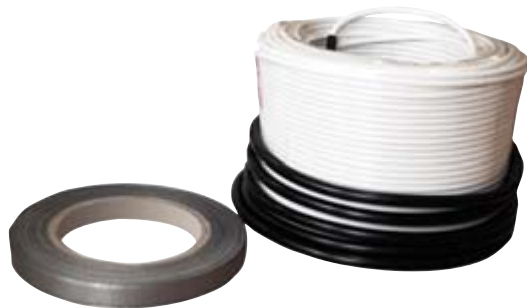
Manual Thermostat

- Simple on off controls
- Easy temperature adjustment
- Adjustable temperature limits
- Floor temperature sensor
- Ambient temperature sensor
- Available in Black Gloss or White Gloss



Manual Glass Thermostat

Code	Description	RRP
5215	Thermotouch Manual - White Glass	£95.00
5216	Thermotouch Manual - Black Gloss	£95.00



Underfloor Heating Cable Kit

Code	Mat/Cable Length	Output (W)	Area (M²)	Voltage (V)	Resistance (Ohms)	RRP
108602	18.8	225	1 to 2	230	235	£77.00
108604	25.0	300	2 to 3	230	176	£102.00
108606	31.3	375	3 to 4	230	141	£127.00
108612	50.0	600	4 to 6	230	88	£204.00
108616	62.5	750	5 to 7	230	71	£256.00
108620	87.5	1050	7 to 10	230	50	£284.00
108624	100.0	1200	8 to 12	230	44	£326.00
108628	125.0	1500	10 to 15	230	35	£408.00
108632	150.0	1800	12 to 18	230	29	£490.00
108634	175.0	2100	14 to 21	230	25	£571.00
108636	200.0	2400	16 to 24	230	22	£653.00

Cable Kit

- 6 Kit sizes available
- Costs less than 3p/m² per day
- Zero maintenance
- Simple installation
- Fully earthed

Heating Mat

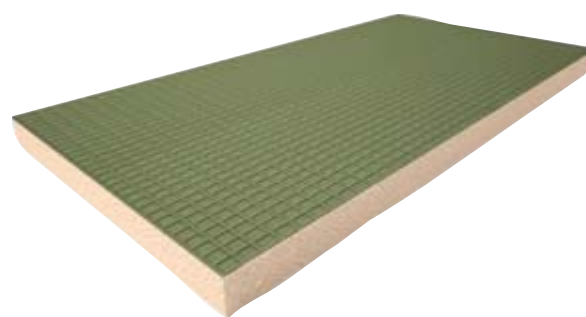
- Fully self adhesive
- Adds only 3mm build up
- Efficient heating
- 100% safe
- Costs less than 3p/m² per day

Thermostat

- Touchscreen control
- LED backlit display
- 7 day, 6 event program
- Comfort and Eco modes
- Floor sensor included

Insulation

- Coated or uncoated
- Makes UHF 50% more efficient
- From 6mm thick
- Cost effective
- Simple installation



Econoboard Uncoated

Code	Pack Size (Boards)	Thickness (mm)	Board Size (mm)	Board Area (M²)	Pack Area (M²)	RRP
6012	20	6	1.2 x 0.6m	0.72	14.4	£175.00
6014	10	10	1.2 x 0.6m	0.72	7.2	£129.00

Econoboard Coated

Code	Pack Size (Boards)	Thickness (mm)	Board Size (mm)	Board Area (M²)	Pack Area (M²)	RRP
6106	8	6	1.2m x 0.6m	0.72	5.76	£206.00
6110	6	10	1.2m x 0.6m	0.72	4.32	£168.00
6112	6	12	1.2m x 0.6m	0.72	4.32	£178.00
6120	6	20	1.2m x 0.6m	0.72	4.32	£208.00
6130	4	30	1.2m x 0.6m	0.72	2.88	£160.00
6140	3	40	1.2m x 0.6m	0.72	2.16	£139.00
6150	2	50	1.2m x 0.6m	0.72	1.44	£98.00

Dual Control Thermostat

- Dual relay for 2 in 1 control
- Control a towel rail or mirror heater
- 8 home screen colour options
- Ambient & floor sensors
- Portrait & landscape mode
- Available in Satin Black & Ice White



Dual Control Thermostat - Ice White

Code	Description	RRP
5245	Thermotouch Dual Control - Ice White	£218.00



Dual Control Thermostat - Satin Black

Code	Description	RRP
5246	Thermotouch Dual Control - Satin Black	£218.00