

SunStone

electric underfloor heating

The perfect heating solution for comfortable, warm floors

Suitable for new-build, retrofits and refurbishments



SunStone offers an electric underfloor heating system that delivers luxury, comfort and warmth. Better still, it will reduce energy usage and costs.



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Underfloor heating is widely acknowledged as one of the most effective methods of heating. It is the fastest growing market for domestic and commercial heating sectors.

SunStone underfloor heating is suitable for new-build and the vast majority of homes, so whether you want heating for a small apartment or a large detached house, SunStone provides energy efficient heating.

When looking at a new-build, retrofit or refurbishment project, individuals and trade professionals are looking at ways of making their properties more energy efficient and comfortable whilst keeping expenditure to a minimum. This is due to low initial capital outlay, low installation and zero maintenance costs.

It is imperative to have a clear vision how the new-build or room(s) will be used to ensure once the project is finished, it justifies energy efficiency. This need is built around the guiding principle of minimising the amount of heat required and the energy used to create it. This need is led by legislation, including changes to Part L of the Building Regulations (England).

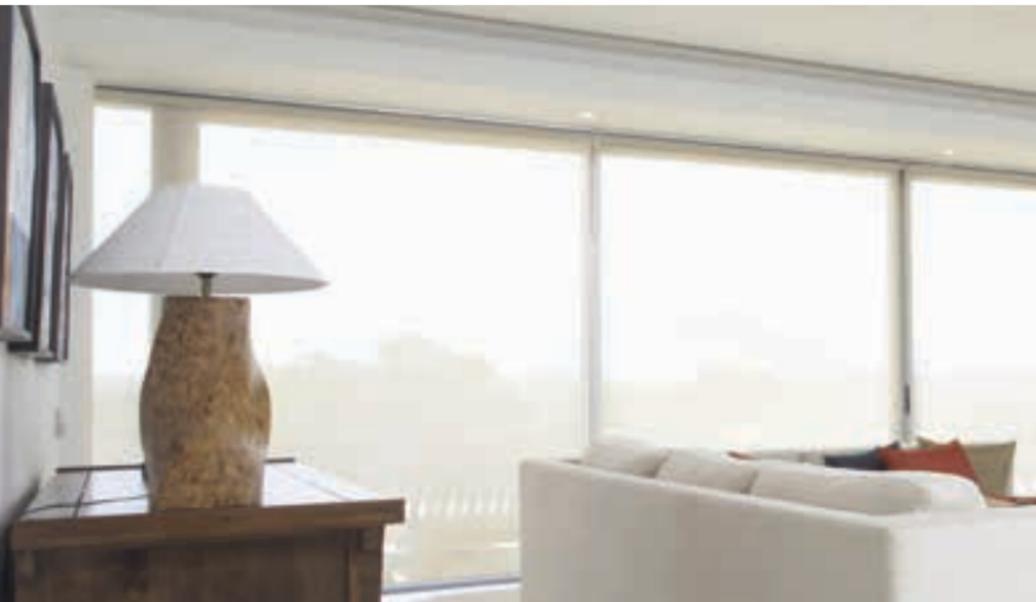


Why choose SunStone underfloor heating?

SunStone is suitable for all forms of construction and can be incorporated into any type of subfloor structure. Compared with other forms of heating, i.e. radiators, it offers a cost effective solution in terms of one-off cost with little or no maintenance.

SunStone underfloor heating works through conductive wiring, which is either supplied as matting or loose wire cable. It is very easy to install - simply lay onto SunStone insulation, secure to the subfloor and lay the natural stone or tile floor finish of choice, then connect to the power supply. This offers many benefits including faster installation times and you will see an improvement in your project cash flow as you do not need to purchase products or labour until later in the finishing programme.

Electric underfloor heating systems heat-up quickly and because they are not embedded within a sub-strait construction floor, they are very responsive. When it comes to efficiency, electric is 100% efficient at the point of use as all electricity is converted directly into heat, unlike boiler based systems where energy can be wasted through the flue and heating fluid.



The heating is managed and controlled by a thermostat. There are two thermostats to choose from; a Programmable or Touchscreen version, which must be connected by a qualified electrician. (Reference should be made to your local authority building control for certification under the Building Regulation amendments, April 2013).

Another advantage of SunStone electric underfloor heating is that once the heating is purchased and installed, there is no further maintenance and the system comes with a 10 year warranty.

SunStone gives added value and cost savings on the regular service and maintenance costs you would incur with other systems, i.e., radiators. Finally, when it comes to management of risk, underfloor heating offers additional security, i.e. there are no radiators to leak.



SunStone Loose Wire Cable

SunStone Loose Wire Cable is specifically designed for use under stone and ceramic tiles. It is suitable for primary and secondary heating particularly in bathrooms, conservatories and kitchens. It offers flexibility when installing around fixed units, in irregular and small awkward areas.

Technical Data

- ☼ Voltage 220~240V: 50Hz
- ☼ Wire Diameter: 3.5mm
- ☼ Outer Wire Insulation: PVC
- ☼ Wattage Density: 150W/m² @ 80mm spacing
- ☼ Cold Lead Length (m): 3m
- ☼ 10 Year Warranty



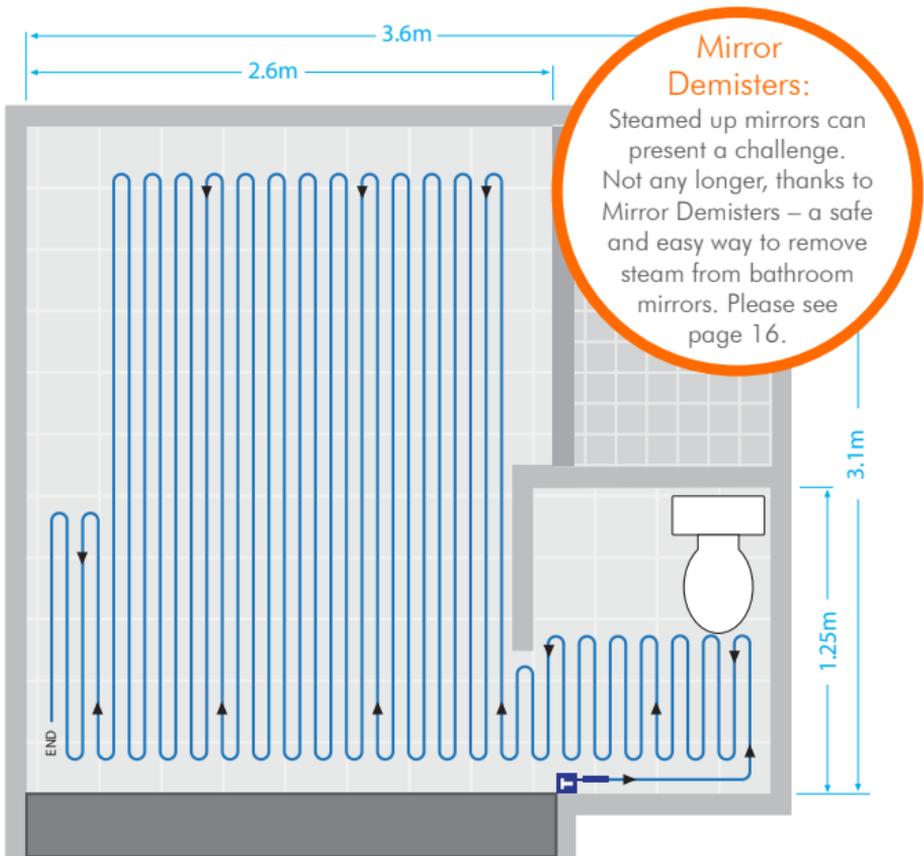
10 Year
SunStone
Limited
Warranty

CE

£ For pricing, please see page 21

Design Guide

Layout and cost of a 12.12m² bathroom with 150W/m² SunStone Loose Wire Cable.



Bathroom with 150W/m² Loose Wire Cable System

Size	Price		Type
12.12m²	£310.10		150W/m² Loose Wire Cable System
Total Room Area	12.12m ²		Specifications
Surface to be Heated	9.23m ²		Voltage
Heating System	SSW900 + SSW450	£243.40	Amps
Thermostat	SS-TOUCHSTAT	£66.70	Watts per m ²
	Total	£310.10	

Did You Know?

The Loose Wire Cable system provides the flexibility to accommodate custom layouts, turns, odd shapes and the ability to avoid fixed objects providing complete coverage of your heated area.

SunStone Mat

SunStone Mat is also designed for use under stone and ceramic tiles. The wire is fixed to a glassfibre mesh and is the ideal solution for regular shaped rooms.

The mesh (but **not** the wire), can be cut to fit the shape of the room.

The 200W/m² Mat features a red wire to differentiate it from the blue used with the 150W/m².

Technical Data

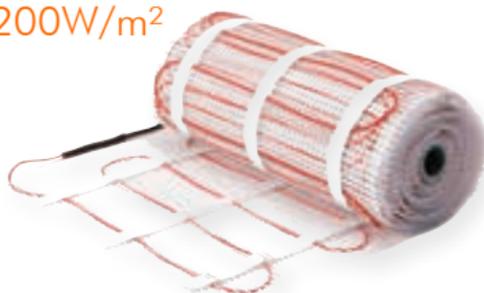
- ☀ Voltage 220~240V: 50Hz
- ☀ Mat Width: 500mm
- ☀ Mat Thickness: 5mm
- ☀ Outer Wire Insulation: PVC
- ☀ Wattage Density: 150W/m² or 200 W/m²
- ☀ Cold Lead Length: 3m
- ☀ 10 Year Warranty

150W/m²



10 Year
SunStone
Limited
Warranty

200W/m²



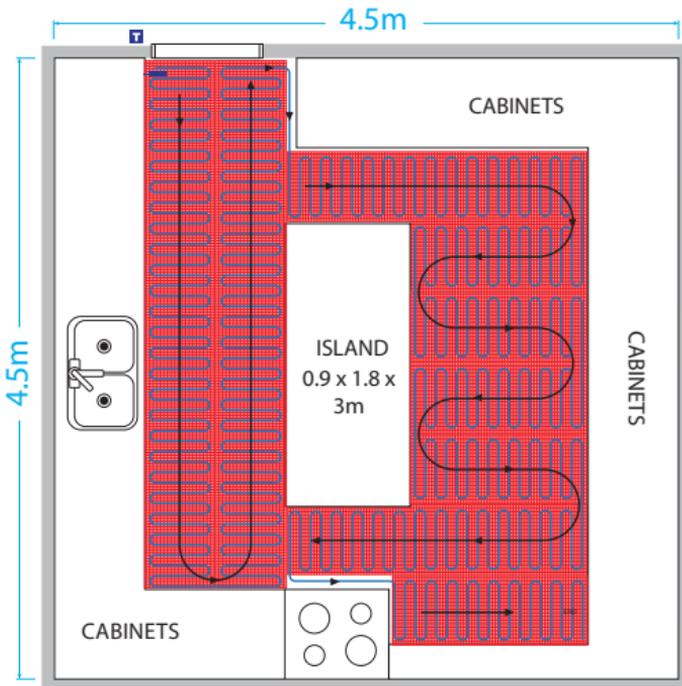
CE



For pricing, please see page 21

Design Guide

Layout and cost of a 22.89m² kitchen with 200W/m² SunStone Mat.



Kitchen with 200W/m² Mat System

Size	Price	Type
22.89m²	£437.20	200W/m² Mat System
Total Room Area	22.89m ²	Specifications
Surface to be Heated	10.94m ²	Voltage
Heating System	2-SSMAT1.5 + 2-SSMAT8	Amps
Thermostat	SS-TOUCHSTAT	Watts per m ²
	£370.50	200
	£66.70	
Total	£437.20	

Did You Know?

The Mat System will provide even distribution of heat and is easier/faster to lay than loose wire. The Mat System is suitable for large or regular shaped rooms.

The SunStone Mat System is ideal for rooms with high heat loss such as conservatories and in most cases we would recommend you choose the 200W/m² option with good insulation to ensure fast heat-up times and heat retention.

Insulation Boards

At first, adding insulation can appear to be an extra cost and work for you but this is far from the truth. Using insulation boards in conjunction with SunStone underfloor heating reduces the running costs of the heating by as much as 50%.

Insulation boards reflect the heat upwards into the floor tile instead of allowing heat to warm the concrete slabs below. Heat up time (for the heated floor to reach the desired temperature) can be cut from as much as 2.5 hours to just 20 minutes – the thicker the insulation, the quicker the heat-up time.

SunStone insulation boards are available in either cement coated (recommended as best solution) or uncoated in a range of thicknesses (Cement coated: 6mm, 10mm & 20mm. Uncoated: 10mm & 20mm) and meets British Standards for tiling. Building Regulations require homes to be properly insulated and should be referred to when determining the required thickness.

£ For pricing, please see page 22



CE

Image shows close up of cement coated insulation board

SunStone recommends cement coated Insulation boards as the best solution to get the most effective result from your SunStone heating system.

Features

- ☀ Easy to cut and shape around fixtures with a knife or saw
- ☀ Comes in a range of thicknesses to suit floor and wall applications
- ☀ Can be fixed to solid or stud floors
- ☀ High thermal insulation, resisting heat loss and increasing the heating system's efficiency
- ☀ Offers sound proofing properties
- ☀ Cement coated boards: ready for tile/plaster – no additional prep work needed

Technical Data

- ☀ Cement coated board size: 1,200mm (L) x 600mm (W)
- ☀ Uncoated board size: 1,245mm (L) x 600mm (W)
- ☀ Cement coated board thickness: 6mm, 10mm, 20mm
- ☀ Uncoated board thickness: 10mm & 20mm
- ☀ Load bearing - 30 tonnes/m²
- ☀ Composition: Extruded polystyrene, each side faced with a nominal 0.5mm thick glassfibre mesh reinforced polymer-modified cement mortar
- ☀ Composition: Extruded polystyrene, each side faced with a nominal 0.5mm thick glassfibre mesh reinforced polymer-modified cement mortar
- ☀ R Value: (6mm) 0.16; (10mm) 0.28; (20mm) Class "0" / "B1" fire rated
- ☀ No primer required when used in conjunction with underfloor heating
- ☀ European compliant and CE marked

£ Insulation Board accessories available, please see page 23 for range and prices

Controls

To get the best from your heating system, you need precise heating controls. SunStone underfloor heating comes with a choice of 2 programmable thermostats: a cost-effective standard thermostat and a stylish touchscreen version.

Both thermostats use precise floor and air temperature control to provide you with a simple and efficient way to manage your system, providing comfort and reduced energy costs. This means that homeowners can program their settings to suit individual requirements, warmer when at home, lower when away or asleep.

Features (Both)

- ☀ 7-Day Programmable
- ☀ 2 Year Warranty



Standard Programmable Thermostat

- ☉ Voltage: AC100~240V 50/60Hz
- ☉ Power load: 16A
- ☉ Switching differential: $\pm 0.5^{\circ}\text{C}$
- ☉ Protective housing: IP20
- ☉ Ambient temperature control range: $0^{\circ}\text{C} \sim 50^{\circ}\text{C}$
- ☉ Floor temperature control range: $5^{\circ}\text{C} \sim 60^{\circ}\text{C}$

CE



2 Year
SunStone
Limited
Warranty

Touchscreen Thermostat

- ☉ Touchscreen interface
- ☉ Voltage: AC220~230V
- ☉ Power Load: 16A
- ☉ Switching differential: $\pm 0.5\text{K}$
- ☉ Protective housing: IP20
- ☉ Ambient temperature control range: $5^{\circ}\text{C} \sim 60^{\circ}\text{C}$

CE



2 Year
SunStone
Limited
Warranty

£ For pricing, please see page 23



SunStone Accessories

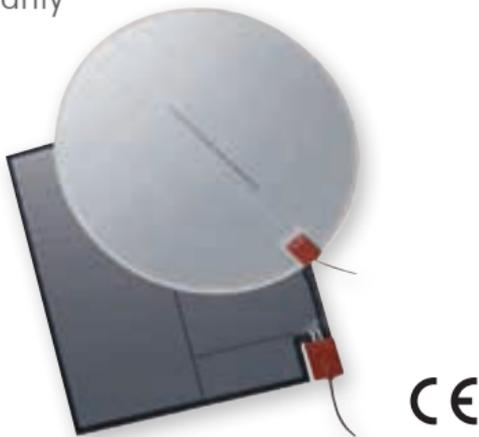
Mirror Demisters

Mirrors are revealing and lighten all rooms, including the bathroom. Steamed-up bathroom mirrors can present a challenge. Not any longer, thanks to Mirror Demisters, the luxury of steam free mirrors - a must for all bathrooms.

Mirror Demisters allow end users to have a clear view at all times, are safe and better still, energy efficient due to their low energy consumption. Costs c.1p per day to use.

Features

- ☺ Self-adhesive for convenient installation directly onto the back of the mirror
- ☺ Connects to existing room light circuit for automatic operation when the light is switched on
- ☺ Suitable with most types of mirrors, existing or newly installed
- ☺ Resistant to moisture, vibration, shock, dust and ageing
- ☺ Can be used in combination for large mirrors
- ☺ Flat film does not take up space
- ☺ 1 Year Warranty



£ For pricing, please see page 23

Technical Data

- ☀ IP57 Rated
- ☀ Suitable for zones 1 & 2 according to BS7671:2012
- ☀ Operating voltage: 230V: 50Hz
- ☀ 1 m cold tail
- ☀ Double insulated
- ☀ No transformers or thermostats necessary
- ☀ European compliant and CE marked



SunStone Accessories

Heated Towel Rails

When it comes to luxury, nothing beats the comfort of a soft, warm towel. Heated towel rails not only bring comfort, they also help to heat a bathroom.

Committed to innovation, whilst at the same time being energy efficient, these traditional and contemporary towel rails offer a solution to cater for all preferences, lifestyles and budget.

- ☀ Sleek contemporary design
- ☀ Versatile and easy to install
- ☀ Comprehensive kit with all fixing accessories, including a diamond drill bit (for use on tiles)
- ☀ Discreet with concealed cable kit
- ☀ Even heat
- ☀ 5 Year Warranty



HTR 680x450



HTR 800x600



HTR 800x600-curved



For pricing, please see page 23



Heated Towel Rails

Features	Technical Data	HTR 680x450	HTR 800x600	HTR 800x600C
Sleek contemporary design	Concealed Wiring Adaptor available	✓	✓	✓
Even heat all at once and energy efficient	Number of Bars	6	7	7
Discreet with concealed cable kit	Height mm	680	800	800
Versatile and easily installed into new or existing homes	Width mm	450	600	600
Fixing accessories kit, including a diamond drill bit (for tiles), for installation convenience	Depth mm	120	120	150
European compliant and CE marked	BTU output	188	341	341
5-Year Warranty	Wattage	55	100	100
	Amps @ 230V	0.23	0.43	0.43
	IP Rating	IP34	IP34	IP34



Purchasing SunStone

You can only buy SunStone products through one of our certified suppliers. To find details of your nearest stockist, please call our sales team on 0845 034 8272 or email info@sunstone.co.uk

Installing SunStone

It is recommended that you carefully read our installation instructions prior to installing your SunStone heating system.

This helps to ensure that your system is optimised to suit your individual property and consistently delivers the highest possible performance. You will need an electrician to install your thermostat.

Price Guide

Loose Wire Cable System

Area (m ²) at 80mm Spacing	Item name/ Code	Wattage	Amps	RRP (Excl. VAT)
1	SSW150	150	0.65	£38.00
2	SSW300	300	1.30	£76.30
3	SSW450	450	1.95	£93.40
4	SSW600	600	2.60	£114.10
5	SSW750	750	3.26	£130.30
6	SSW900	900	3.92	£150.00
10	SSW1500	1500	6.52	£250.00

150W/m² Mat System

Area covered (m ²)	Item name/ Code	Wattage	Amps	RRP (Excl. VAT)
1	SSMAT1	150	0.7	£34.50
1.5	SSMAT1.5	225	1.0	£51.80
2	SSMAT2	300	1.3	£69.00
2.5	SSMAT2.5	375	1.6	£86.30
3	SSMAT3	450	2.0	£103.50
3.5	SSMAT3.5	525	2.3	£120.80
4	SSMAT4	600	2.6	£138.00
4.5	SSMAT4.5	675	2.9	£155.30
5	SSMAT5	750	3.3	£172.50
6	SSMAT6	900	3.9	£207.00
7	SSMAT7	1050	4.6	£241.50
8	SSMAT8	1200	5.2	£276.00
9	SSMAT9	1350	5.9	£310.50
10	SSMAT10	1500	6.5	£345.00
12	SSMAT12	1800	7.8	£414.00
15	SSMAT15	2250	9.8	£517.50

200W/m² Mat System

Area covered (m ²)	Item name/Code	Wattage	Amps	RRP (Excl. VAT)
1	2-SSMAT1	200	0.9	£39.00
1.5	2-SSMAT1.5	300	1.3	£58.50
2	2-SSMAT2	400	1.7	£78.00
2.5	2-SSMAT2.5	500	2.2	£97.50
3	2-SSMAT3	600	2.6	£117.00
3.5	2-SSMAT3.5	700	3.0	£136.50
4	2-SSMAT4	800	3.5	£156.00
4.5	2-SSMAT4.5	900	3.9	£175.50
5	2-SSMAT5	1000	4.3	£195.00
6	2-SSMAT6	1200	5.2	£234.00
7	2-SSMAT7	1400	6.1	£273.00
8	2-SSMAT8	1600	7.0	£312.00
9	2-SSMAT9	1800	7.8	£351.00
10	2-SSMAT10	2000	8.7	£390.00
15	2-SSMAT15	3000	13.0	£585.00

Insulation Boards - sold per pack

Board Type	Item name/Code	Qty per pack	Board Dimensions	RRP (Excl. VAT)
Cement Coated	SS-INSBOARD6	8	1,200 x 600 x 6mm	£104.80
Cement Coated	SS-INSBOARD10	6	1,200 x 600 x 10mm	£85.20
Cement Coated	SS-INSBOARD20	5	1,200 x 600 x 20mm	£96.00
Uncoated	SS-PlainINS-BOARD10	10	1,245 x 600 x 10mm	£94.00
Uncoated	SS-PlainINS-BOARD20	5	1,245 x 600 x 20mm	£88.00

Insulation Board Accessories

	Accessories	Items Required	RRP (Excl. VAT)
TAPEINS90M	Glassfibre tape - prevents movement and covers the joints between boards	One roll per 25 boards	£3.33
WIBS40MM	Wooden Screws - 40mm	100 per pack to fix approximately 5 boards	£3.33
WIBW36MM	Penny Washers - 36mm diameter	50 per pack to fix approximately 2 boards	£4.99

Thermostats

Item name/ Code	Product Description	RRP (Excl. VAT)
SS-PSTAT	SunStone Thermostat - Including Probe	£41.70
SS-TOUCHSTAT	SunStone Touchscreen Thermostat - Including Probe	£66.70

Mirror Demisters

Size & Description	Wattage	RRP (Excl. VAT)
WMD1 - 400mm x 450mm	18W	£47.49
WMD2 - 600mm circular	55W	£64.99
WMD3 - 290mm x 290mm	27W	£34.99
WMD4 - 600mm x 1100mm	132W	£90.83

Heated Towel Rails

Size & Description	RRP (Excl. VAT)
HTR 680 x 450	£187.49
HTR 800 x 600	£233.33
HTR 800 x 600 - Curved bars	£266.66
Concealed Wiring Adaptor	£9.99

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for comfortable, warm floors

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