

# Technical Specification Sheet for SunStone Products



The perfect heating solution for  
comfortable warm floors

## SunStone heating systems

SunStone electric underfloor heating is a portfolio of low-cost, high-performance heating solutions, specifically designed for use under stone and ceramic tiles. They are suitable for primary and secondary heating particularly in bathrooms, conservatories and kitchens.

The loose wire cable is offered in 150W/m<sup>2</sup> and offers flexibility when installing around fixed units, in irregular and small awkward areas.

The mat system is offered in a choice of 150W/m<sup>2</sup> and 200W/m<sup>2</sup> and is easier/faster to lay than loose wire. The wire is fixed to a glassfibre mesh. The mesh but not the wire can be cut to fit the shape of the room.

This system is flexible enough to follow the shapes of units, so that the maximum area of coverage is achieved. It will provide even heat distribution and is ideal for rooms with high heat loss such as conservatories – for such projects, it is highly recommended to choose the 200W/m<sup>2</sup> system with good insulation to ensure fast heat-up times and heat retention.

SunStone heating systems come with a 10 year warranty.

## SunStone Insulation Boards

Insulation boards are highly recommended to get the most from your SunStone heating system by reflecting the heat upwards into the floor tile instead of allowing heat to warm the concrete slabs below. In addition to complying with Building Regulations they also help to reduce the heating running costs by as much as 50% as 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 meet British Standards for tiling and Building Regulations for homes to be properly insulated. They are available in either cement coated (recommended as the best solution) or uncoated in a range of thicknesses.

Cement coated: 6mm, 10mm and 20mm.

Uncoated: 10mm and 20mm.

## Controls

To get the most from your heating system, you need precise heating controls. SunStone underfloor heating comes with a choice of 2 programmable thermostats use the exact floor and air temperature control to manage the heating system: a cost effective standard thermostat and a stylish touchscreen version.

SunStone controls are user friendly allowing home owners to program their settings to suit individual requirements, warmer when at home, lower when away or asleep.

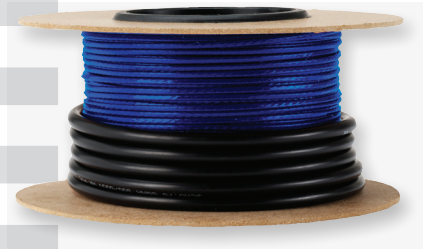
Controls come with a 2 year warranty.

Please refer to the detail below to provide further information. Should you require further information or send your quotation or drawings for an exact price, please contact SunStone on 0845 034 8272 or email [info@sunstone.co.uk](mailto:info@sunstone.co.uk)

## Loose Wire System - SSW 150W/m<sup>2</sup> - Size Guide

Area (m <sup>2</sup> ) at 80mm Spacing	Item name/Code	Total Wattage	Total wire length (m)	Amps	Resistance
1	SSW150	150	12.6	0.65	352.7
2	SSW300	300	25.5	1.30	176.3
3	SSW450	450	38.0	1.95	117.6
4	SSW600	600	51.0	2.60	88.2
5	SSW750	750	63.5	3.26	70.5
6	SSW900	900	76.0	3.92	58.8
10	SSW1500	1500	127.0	6.52	35.3

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### Technical data:

- Voltage 220-240V: 50Hz
- Wire Diameter: 3.5mm
- Outer Wire Insulation: PVC
- Wattage Density: 150W/m<sup>2</sup> @ 80mm spacing
- Cold Lead Length (m): 3m
- Warranty: 10 Year

## Cement Coated Insulation Boards

Board Type	Item name/Code	Quantity per pack	Board Dimensions
Cement Coated	SS-INSBOARD6(Pack8)	8	1,200 x 600 x 6mm
Cement Coated	SS-INSBOARD10 (Pack10)	6	1,200 x 600 x 10mm
Cement Coated	SS-INSBOARD20 (Pack20)	5	1,200 x 600 x 20mm

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## Uncoated Insulation Boards

Board Type	Item name/Code	Quantity per pack	Board Dimensions
Uncoated	SS-PlainINSBOARD10(Pack10)	10	1,245 x 600 x 10mm
Uncoated	SS-PlainINSBOARD20(Pack20)	5	1,245 x 600 x 20mm

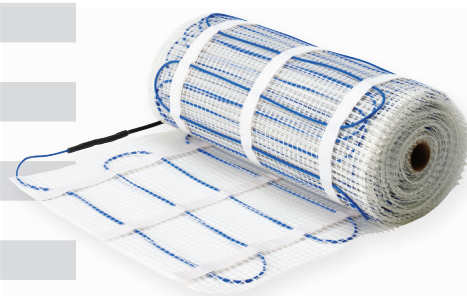
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## 150W/m<sup>2</sup> Mats - SSMAT - Size Guide

Area to be heated (m <sup>2</sup> )	Item name/Code	Total Wattage	Amps	Resistance	Mat length (m)
1	SSMAT1	150	0.7	352.7	2
1.5	SSMAT1.5	225	1.0	235.1	3
2	SSMAT2	300	1.3	176.3	4
2.5	SSMAT2.5	375	1.6	141.1	5
3	SSMAT3	450	2.0	117.6	6
3.5	SSMAT3.5	525	2.3	100.8	7
4	SSMAT4	600	2.6	88.2	8
4.5	SSMAT4.5	675	2.9	78.4	9
5	SSMAT5	750	3.3	70.5	10
6	SSMAT6	900	3.9	58.8	12
7	SSMAT7	1050	4.6	50.4	14
8	SSMAT8	1200	5.2	44.1	16
9	SSMAT9	1350	5.9	39.2	18
10	SSMAT10	1500	6.5	35.3	20
12	SSMAT12	1800	7.8	29.4	24
15	SSMAT15	2250	9.8	23.5	30

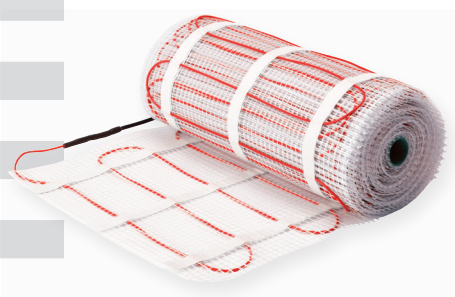
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## 200W/m<sup>2</sup> Mats - 2-SSMAT - Size Guide

Area to be heated (m <sup>2</sup> )	Item name/Code	Total Wattage	Amps	Resistance	Mat length (m)
1	2-SSMAT1	200	0.9	264.5	2
1.5	2-SSMAT1.5	300	1.3	176.3	3
2	2-SSMAT2	400	1.7	132.3	4
2.5	2-SSMAT2.5	500	2.2	105.8	5
3	2-SSMAT3	600	2.6	88.2	6
3.5	2-SSMAT3.5	700	3.0	75.6	7
4	2-SSMAT4	800	3.5	66.1	8
4.5	2-SSMAT4.5	900	3.9	58.8	9
5	2-SSMAT5	1000	4.3	52.9	10
6	2-SSMAT6	1200	5.2	44.1	12
7	2-SSMAT7	1400	6.1	37.8	14
8	2-SSMAT8	1600	7.0	33.1	16
9	2-SSMAT9	1800	7.8	29.4	18
10	2-SSMAT10	2000	8.7	26.5	20
15	2-SSMAT15	3000	13.0	17.6	30

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### Technical data:

- Voltage 220-240V: 50Hz
- Mat Width: 500mm
- Mat Thickness: 5mm
- Outer Wire Insulation: PVC
- Wattage Density: 150 W/m<sup>2</sup> or 200 W/m<sup>2</sup>
- Cold Lead Length (m): 3m
- Warranty: 10 Year

## Thermostats

**SunStone**  
electric underfloor heating

Type	Item name/Code	Product Description
Sunstone - Programmable	SS-PSTAT	Sunstone Thermostat - Including Probe
Sunstone - Touchscreen	SS-TOUCHSTAT	Sunstone Touchscreen Thermostat -Including Probe

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### 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:  $5^{\circ}\text{C} \sim 60^{\circ}\text{C}$

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Features (both):

- 7 Day Programmable
- 2 Year 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:  $5^{\circ}\text{C} \sim 60^{\circ}\text{C}$

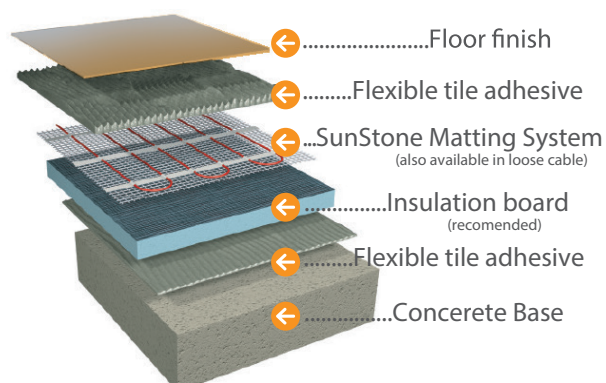
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### How to measure your room:

To calculate the SunStone underfloor heating you require for your room(s), determine the working floor space that is available. This is essentially the amount of floor space, less the area taken up by fixed objects, e.g bath or kitchen cupboards. We advise that you allow a 5cm gap between the walls and the area where you intend to install your heating system.

Floor build-up example



To receive further information or request a quotation, please contact SunStone sales support team at:

T: 0845 034 8272  
E: [info@sunstone.co.uk](mailto:info@sunstone.co.uk)  
W: [www.sunstone.co.uk](http://www.sunstone.co.uk)

Please see manuals for installation details

Tel 0845 034 8272 Email [info@sunstone.co.uk](mailto:info@sunstone.co.uk) Website [www.sunstone.co.uk](http://www.sunstone.co.uk)