Technical Specification Sheet for SunStone Products

SunStone
electric underfloor heating

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 System** provides 150W/m² at its default spacing and can be installed to provide any power from 100W/m² to 200W/m². It's ideal for awkward and irregular areas, making it easier to achieve a fully heated floor.

The **Mat System** is offered in a choice of 150W/m² and 200W/m² 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/m² 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. They can help properties comply with Building Regulations and they ensure more of the heat flows upwards into the room, reducing the amount that warms the floor below. This helps to reduce the heating running costs by as much as 50%, as preheat time for the floor can be cut from as much as 2.5 hours to as little as 20 minutes - the thicker the insulation, the quicker the heat-up time.

SunStone insulation boards meet British Standards for tiling and compliment the insulation requirements of Building Regulations. 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 that use 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 and allow 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 wish to send your drawings for an exact price, please contact SunStone on 0845 034 8272 or email info@sunstone.co.uk

Tel 0345 034 8272 Email info@sunstone.co.uk Website www.sunstone.co.uk

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Loose Wire System - SSW 150W/m² - Size Guide

Area (m²) 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

CE
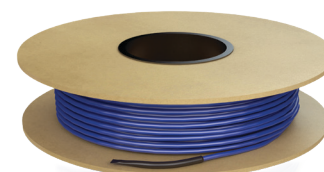
Technical data:

- Voltage 220-240V: 50Hz
- Wire Diameter: 3.5mm
- Outer Wire Insulation: PVC

- Wattage Density: 150W/m^2 @ 80mm spacing
- Cold Lead Length (m): 3m
- Warranty: 10 Year

CE

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

CE

Uncoated Insulation Boards

Board Type	Item name/Code	Quantity per pack	Board Dimensions
Uncoated	SS-PlainINSBOARD10(Pack10)	10	1,245 x 600 x10mm
Uncoated	SS-PlainINSBOARD20(Pack20)	5	1,245 x 600 x 20mm

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150W/m² Mats - SSMAT - Size Guide

| Area to be heated (m²)	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
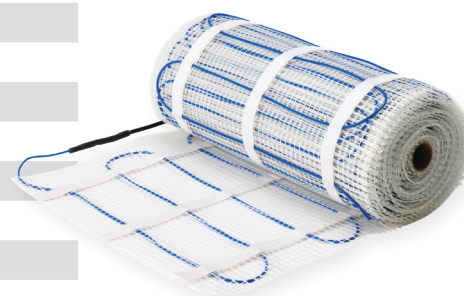
200W/m² Mats - 2-SSMAT - Size Guide

Area to be heated (m²)	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
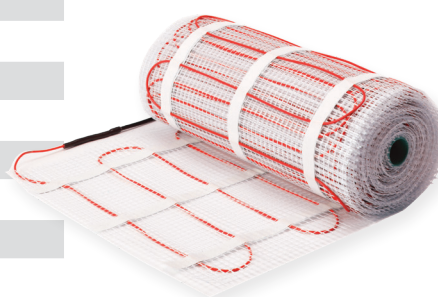
Technical data:

- 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 (m): 3m
- Warranty: 10 Year

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Thermostats

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

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SunStone TouchStat
### Mirror Finish (Including Probe - New)

- Touchscreen interface Voltage: AC220~230V
- Power Load: 16A
- Switching differential: +/- 0.5K
- Protective housing: IP20
- Ambient temperature control range: -5°c~60°c
- Dimensions 86 x 86 x 45mm

SunStone TouchStat
White Finish (Including Probe)

- Touchscreen interface Voltage: AC220~230V
- Power Load: 16A
- Switching differential: +/- 0.5K
- Protective housing: IP20
- Ambient temperature control range: 5°c~60°c
- Dimensions 89 x 89 x 49mm
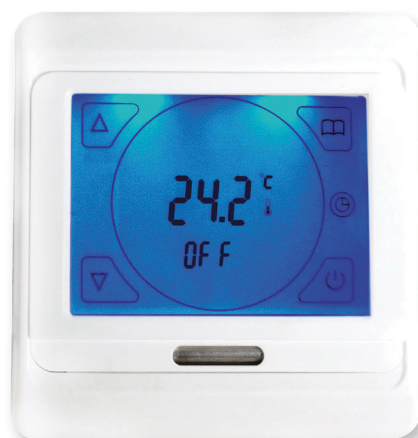
SunStone Programmable
Thermostat (Including Probe)

- Voltage: 100~240V 50/60Hz
- Power load: 16A
- Switching differential: ±0.5°C
- Protective housing: IP21
- Ambient temperature control range: 5°c ~ 35°c
- Floor temperature control range: 5°C~ 45°C
- 7-Day Programmable
- 2 Year Warranty
- 81 x 81 x 25mm (From wall surface)

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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

←..Floor finish

←............................Flexible tile adhesive

←.......................SunStone Matting System
(also available in loose cable)

←..................................Insulation board
(recomended)

←.............................Flexible tile adhesive

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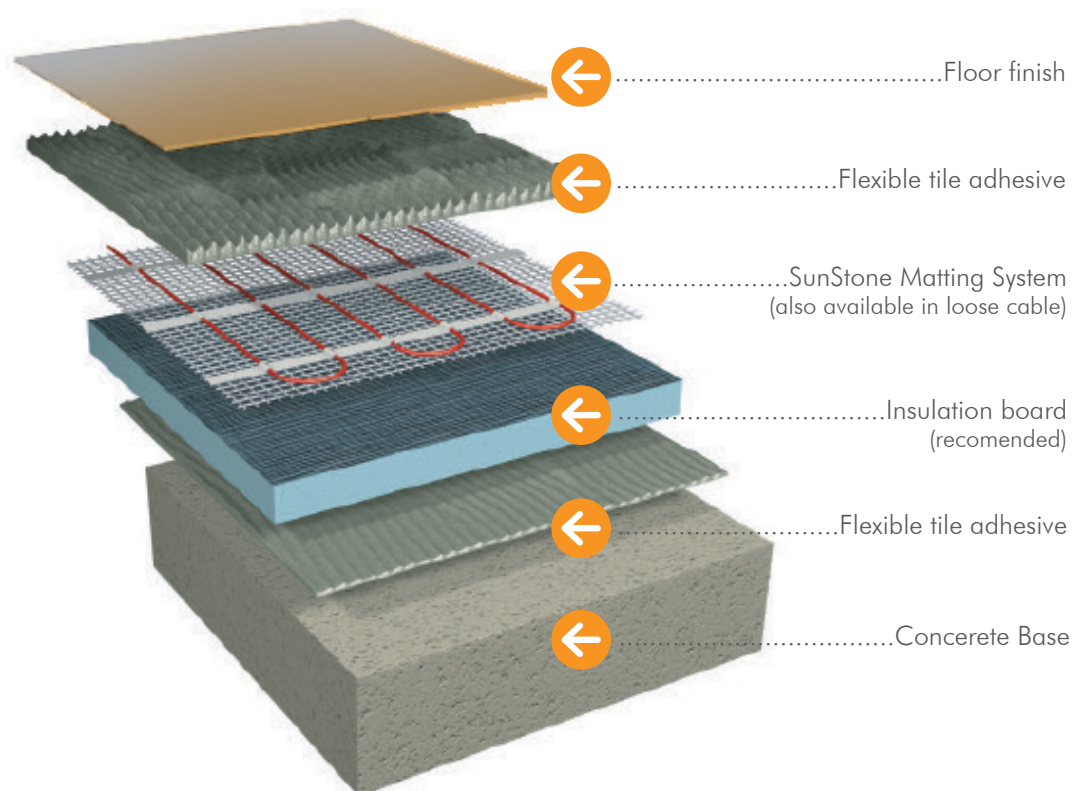
To receive further information or request a quotation, please contact SunStone sales support team at:

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E: info@sunstone.co.uk
W: www.sunstone.co.uk

Please see manuals for installation details