



REHAU

Unlimited Polymer Solutions



REHAU SOLELEC

ELECTRIC UNDERFLOOR HEATING

REHAU

HAS THE RIGHT BUILDING SOLUTION FOR YOU!



From windows and doors to underfloor heating, pipes and fittings and cable management, REHAU is a leading global manufacturer and innovator of building products.

With our reputation for robust high quality engineered products, reliability and excellent customer service, as well as a fully resourced technical department, REHAU is the ideal partner to talk to for innovative Building Solutions

SOLELEC Electric Underfloor Heating is the result of significant investment by REHAU to meet the ever increasing design and installation requirements of Architects, Specifiers, and Contractors, including space saving heating systems that are fast and easy to install.

Complementing our 'Wet' Underfloor Heating range REHAU now offers you a choice of cost effective solutions suitable to your individual heating requirements.

SOLELEC is simple and cost effective to install. Electrical energy is used efficiently providing a comfortable level of heat at relatively low temperatures, which together with state of the art intelligent controls, helps compliance to the latest Building Regulations.

Ideal for installation as a main heating source in blocks of new build and refurbished projects or simply for warming purposes in bathrooms and conservatories SOLELEC can be used above or below the screed according to end users needs.

- | | |
|-----------|------------|
| 1 Stone | 4 Wood |
| 2 Ceramic | 5 Laminate |
| 3 Marble | 6 Carpet |

For specific floor finish installations please refer to the Technical brochures



REHAU SOLELEC

THE BENEFITS

The digital thermostat has an elegant compact and simple design, which can be wall mounted in a standard 35mm box.



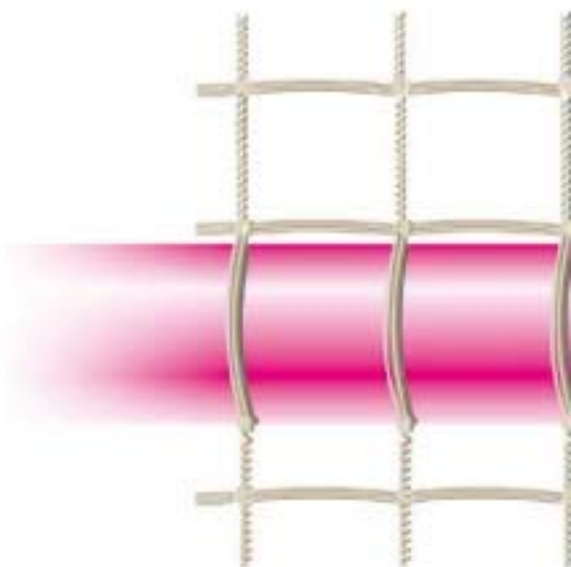
REHAU are proud to introduce SOLELEC, a quality proven Electric Underfloor Heating range to meet evolving market demands.

Whether you are planning to install Underfloor Heating in houses, flats, public buildings, large commercial sites or conservatories you will benefit from the following features of the REHAU SOLELEC system:

- Freedom of design in room layout, with no obstacles such as radiators, taking up large amounts of valuable space.
- Reduction in investment compared to alternative heating systems with fewer components to purchase and install.
- Low cost rapid installation with easy to use lightweight materials.
- Absence of wear and tear means virtually no maintenance is necessary and therefore no maintenance costs.
- Ideal room temperature distribution providing warm feet and cool head rather than vice-versa.
- Even temperature distribution giving the user comfortable heating levels with a temperature 2 to 3 degrees lower than traditional heating systems.
- SOLELEC can help prevent mould formation and creates conditions less favourable to dust mites, to the relief of allergy sufferers.
- By its nature SOLELEC keeps floors dry thereby helping to keep carpets and furnishings in top condition.
- SOLELEC's intelligent controls provide a flexible and efficient way of regulating room and floor temperature according to user requirements.

The REHAU SOLELEC range

- SOLELEC consists of woven high quality mats, strong resistant cables and capable simple to use controls.
- Mats are available in widths of 0.30m & 0.50m and between 2 and 16 meters in length. The cables come in lengths from 10 to 120 meters. Both cables and mats are available in different power outputs. (For further details please refer to REHAU SOLELEC's Technical brochure).
- For fast control the system uses a fully programmable digital thermostat which thanks to its intelligent features keeps power consumption to a minimum.
- SOLELEC is compatible with most common types of flooring and insulation systems. In order to achieve the best results out of the heating system we recommend the use of insulation materials according to the latest Building Regulations.



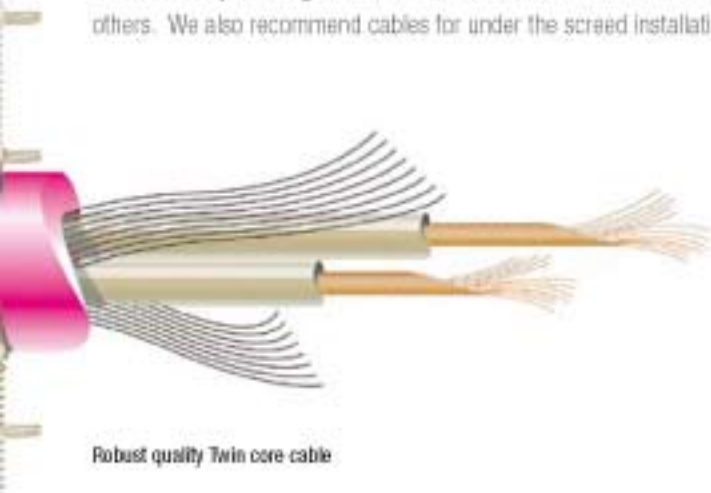
REHAU SOLELEC

IDEAL HEATING SOURCE



SOLELEC is ideal as a complimentary or main heating source and thus is very versatile in its applications from keeping conservatories at an ambient temperature to providing a full heating system in houses and commercial buildings. Heat loss calculations are advised when the system is used as a main heating source.

SOLELEC heating mats are very easy to install, the unique textile woven mats giving greater flexibility and tolerance. Cables without the mats can be used when you want to vary the distance between cables thereby creating warmer areas in some areas of a room than others. We also recommend cables for under the screed installations.



Robust quality Twin core cable

For heat on demand which provides heating when and where you want it, installation is recommended above the screed. Depending on the thickness of the screed Solelec can be used as a heat storage system and can also be installed below the screed.

The fully programmable thermostat enables users to keep power consumption bills to a minimum unlike Electric underfloor heating systems of the past.

With floor temperatures upto 29° in sitting rooms and permanently occupied rooms and upto 34° in bathrooms and hallways SOLELEC will provide users with a comfortable level of heating with a minimum of fuss.

REHAU SOLELEC

INSTALLATION REQUIREMENTS

All the heating cables in the SOLELEC range meet and exceed the requirements set out in standard IEC800.

SOLELEC heating cables have twin core construction which means only one cable per heating unit has to be connected to the junction box making the installation very simple. The heating cables incorporate earthed metallic braid, making the cables safe and suitable for use in bathrooms.

REHAU's SOLELEC mats are manufactured using a textile net where the cable is interwoven. This helps to keep cables securely fixed in place ensuring even heat distribution.

SOLELEC's interwoven cables can be installed upside or downside (front or back) simplifying installation. The textile mat integrates easily into tile glue/screed, helping to adapt the mat to floor irregularities thereby reducing the risk of air bubbles.

Standards and Warranty

SOLELEC has been designed to meet BS EN 60335-2-96 and exceeds the latest Electromagnetic Compatibility (EMC) European directives.

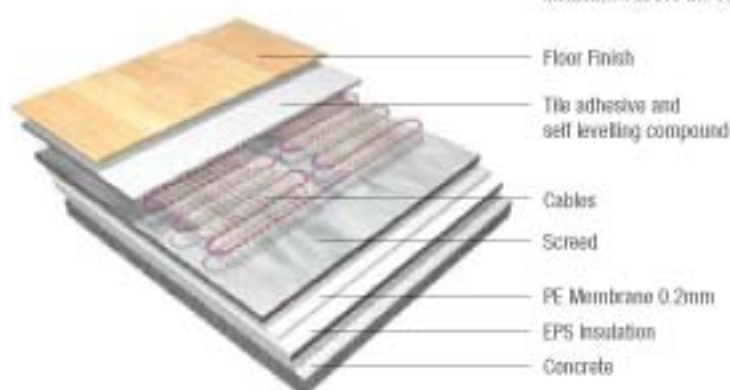
REHAU offers a warranty of 10 years for the heating elements –cables and mats- and 2 years for digital controls.

SAFETY

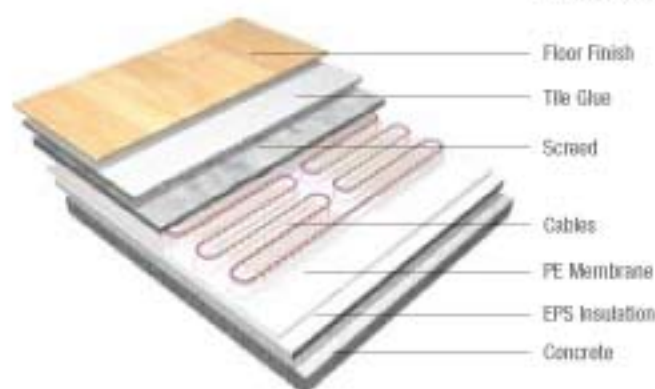
A competent and qualified person must install - SOLELEC Electric underfloor heating in accordance to the wiring regulations.

All installations require a Residual Current Device (RCD) for safe operation.

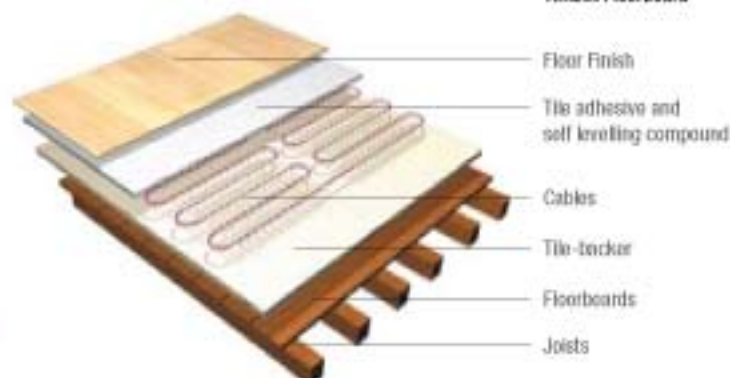
Installation above the screed



Installation below the screed



Timber/Floorboard



Standard SOLELEC Range

Article	Description	Total Watts per Unit
MAT: 120W/m ² width 0.30m (J/PV S TWIN 120W)		
228100	MAT 120W/m ² 0.30X2m	72
228110	MAT 120W/m ² 0.30X4m	144
228120	MAT 120W/m ² 0.30X6m	216
228130	MAT 120W/m ² 0.30X8m	288
228140	MAT 120W/m ² 0.30X10m	360
228150	MAT 120W/m ² 0.30X12m	432
228160	MAT 120W/m ² 0.30X14m	504
228170	MAT 120W/m ² 0.30X16m	576

MAT: 120W/m ² width 0.50m (J/PV S TWIN 120W)		
228005	MAT 120W/m ² 0.50X2m	120
228015	MAT 120W/m ² 0.50X4m	240
228025	MAT 120W/m ² 0.50X6m	360
228035	MAT 120W/m ² 0.50X8m	480
228045	MAT 120W/m ² 0.50X10m	600
228055	MAT 120W/m ² 0.50X12m	720
228065	MAT 120W/m ² 0.50X14m	840
228075	MAT 120W/m ² 0.50X16m	960

MAT: 160W/m ² width 0.30m (J/PV S TWIN 160W)		
229030	MAT 160W/m ² 0.30X2m	96
229040	MAT 160W/m ² 0.30X4m	192
229050	MAT 160W/m ² 0.30X6m	288
229060	MAT 160W/m ² 0.30X8m	384
229070	MAT 160W/m ² 0.30X10m	480
229080	MAT 160W/m ² 0.30X12m	576
229090	MAT 160W/m ² 0.30X14m	672
229100	MAT 160W/m ² 0.30X16m	768

Article	Description	Total Watts per Unit
MAT: 160W/m ² width 0.50m (J/PV S TWIN 160W)		
229005	MAT 160W/m ² 0.50X2m	160
229015	MAT 160W/m ² 0.50X4m	320
229025	MAT 160W/m ² 0.50X6m	480
229035	MAT 160W/m ² 0.50X8m	640
229045	MAT 160W/m ² 0.50X10m	800
229055	MAT 160W/m ² 0.50X12m	960
229065	MAT 160W/m ² 0.50X14m	1120
229075	MAT 160W/m ² 0.50X16m	1280

CABLE: 10W/m (J/C TWIN BR VC 10W)		
227003	CABLE 10W/m X 10m	100
227004	CABLE 10W/m X 20m	200
227005	CABLE 10W/m X 30m	300
227006	CABLE 10W/m X 40m	400
227007	CABLE 10W/m X 50m	500
227008	CABLE 10W/m X 60m	600
227009	CABLE 10W/m X 80m	800
227013	CABLE 10W/m X 100m	1000
227014	CABLE 10W/m X 120m	1200

CABLE: 17W/m (J/C TWIN BR VC 17W)		
227015	CABLE 17W/m X 10m	170
227016	CABLE 17W/m X 20m	340
227017	CABLE 17W/m X 30m	510
227018	CABLE 17W/m X 40m	680
227019	CABLE 17W/m X 50m	850
227023	CABLE 17W/m X 60m	1020
227024	CABLE 17W/m X 80m	1360
227025	CABLE 17W/m X 100m	1700
227026	CABLE 17W/m X 120m	2040

CONTROLS

210022	4-event Clock Thermostat
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- | | |
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| 2 Slough | 5 Glasgow |
| 3 Birmingham | 6 Dublin |

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