Royden

Look how easy it is to roll out the heat…

6 good reasons to select Royden infloor heating foil

1. Easily installed

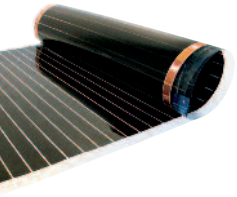
Royden heating foil comes on the roll, ready to fit. Whatever the room size or shape use Royden heating foil.

2. Convenient

A large heated surface area provides a uniform temperature distribution. Reduces air movement in the room.

3. Efficient

Low thermal inertia provides immediate warmth giving significant energy savings.



4. Maintenance free

Royden infloor heating foil is reliable, safe and built to last. Once it's installed it is completely maintenance free.

5. Warranty

Royden infloor heating foil comes with a 10 year warranty against any manufacturing defects as standard.

6. Flexible

Standard lengths up to 10m available (element length can be reduced on site if needed). Non standard lengths are available by special order.

Roydens infloor heating foil is designed to make installation of heating under engineered timber floors even easier. Royden foil comprises of 3 layers of polyester which encapsulates the copper bus bar and conductive heating strips creating an ultra thin heating system in outputs to suit the heating requirements of any building.

Whilst Royden foil is proven in flooring applications, it is important to ensure that the laminate or engineered board choice is approved for use in conjunction with underfloor heating and that the manufacturers guidelines concerning residual moisture content are observed.

It is essential to allow an expansion gap around the perimeter of the floor. Royden foil sections can be shortened to suit site conditions, please call our technical helpline for more information.

It is important that items of furniture used in rooms with underfloor heating have legs or 'bun feet' to ensure adequate airflow under the item of furniture to dissipate the heat.

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infloor heating foil

Installation couldn't be easier

Select from the chart the correct length of Royden infloor heating foil for the room to be heated and divide the room width by 500mm to work out the number of lengths required. Elements should be wired in parallel, preferably with all connecting wires at one end of the room for ease of connection.

Royden foil should be laid over an insulation material such as Stock No. 350014. This will ensure the necessary thermal insulation and will improve sound deadening. Two or more layers of insulation board can be used to further improve insulation.

Royden foil and the connecting wires are taped down to hold in position and all connecting wires run to an accessible junction box or connection point mounted in the wall or in a cupboard.

ROYDEN INFLOOR HEATING FOIL

STOCK CODE	CODE LENGTH (M)	AREA (M2)	OUTPUT (W)
350001	1.0	0.5	75
350002	2.0	1.0	150
350003	3.0	1.5	225
350004	4.0	2.0	300
350005	5.0	2.5	375
350006	6.0	3.0	450
350007	7.0	3.5	525
350008	8.0	4.0	600
350009	9.0	4.5	675
350010	10.0	5.0	750

ROYDEN ACCESSORIES

STOCK CODE	DESCRIPTION	QUANTITY
350014	Rigid insulation board	5m² pack
350015	Cold Tail Extension Kit	one per connection
350016	Cold Tail Extension Wire	per 1m
350017	Vapour Barrier	20m²
350018	Fixing Tape	50m

ROYDEN THERMOSTATS

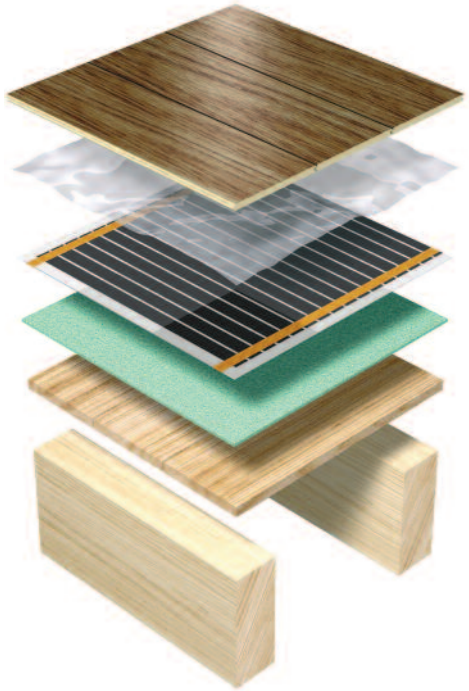
STOCK CODE	DESCRIPTION
350011	Standard Thermostat Kit
350012	Programmable Thermostat Kit
350013	Sensor Conduit Extension Kit 2m

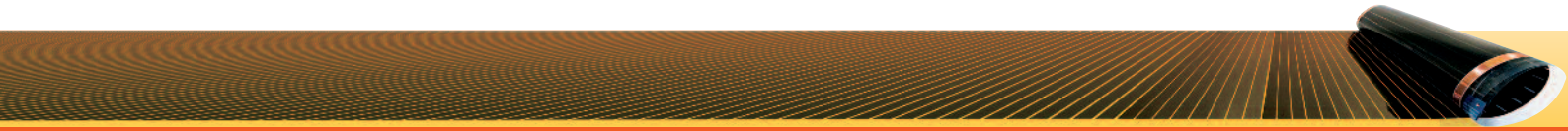
The thermostat floor sensor should be chased into the floor and laid in its conduit to facilitate removal should it become necessary.

The complete Royden foil heating installation should be covered by a vapour barrier (Stock No. 350017) and the engineered or laminate floor can be laid in the normal way.

TECHNICAL SPECIFICATION	
WIDTH	500mm (430mm heated)
LENGTH	See Table opposite
OUTPUT	40w/panel @ 230V AC
DIELECTRIC STRENGTH	3kv min
MAX OPERATING TEMPERATURE	80°C (unregulated)
MAX THICKNESS	450 microns
STANDARDS	EN 60335-1/1998 EN 60335-2-30/1992 DIN VDE 0700 Part 2+1 CE

1. Finished floor covering
2. 500g moisture barrier
3. Royden foil
4. Insulation board
5. Substrate, timber or screed





Installation instructions

Before installation always check the subfloor has adequate thermal insulation. This is particularly important where Royden foil is the primary heat source.

The sensor should be located underneath the foil in the heated area.

Entire installation should be covered with a 500g vapour barrier.

Make sure all relevant contractors, particularly bathroom and kitchen fitters, know that electrical underfloor heating is installed.

The use of mechanical floor fixings over the heating area is prohibited.

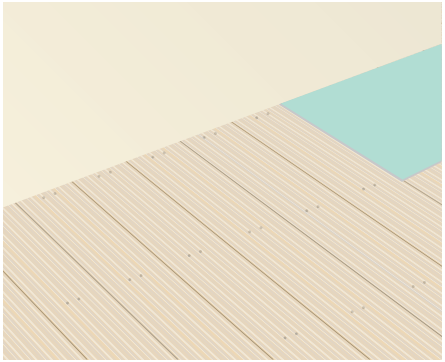
All electrical work must conform to current IEE wiring regulations and be checked or carried out by a qualified electrician. Electrical installation work in dwellings is subject to the building regulations Part P.

Turn off the electrical supply at the power distribution unit to avoid risk of electrical shock. The electrical supply to the installation must always be protected by a residual current device (RCD). The tripping current rating of the RCD must not exceed 30MA.

Always ensure that your flooring is suitable for use with underfloor heating.

1. Lay the insulation board

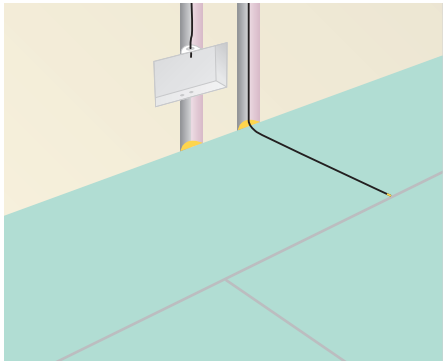
Lay insulation board (stock no. 350014) over entire subfloor (timber or screed).



All electrical connections should be carried out by a qualified electrician. In accordance with current regulations.

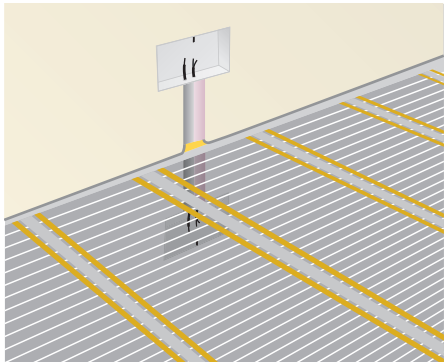
2. Install the thermostat

Lay thermostat sensor tube onto floor, cutting a groove in the insulation. Ensure the tube is flush with the top of the insulation.



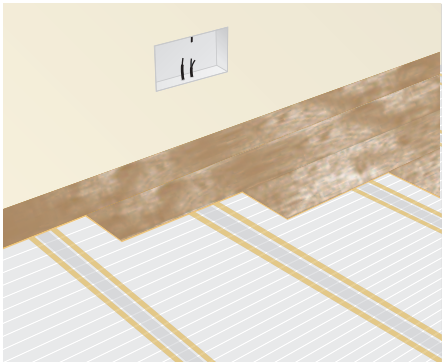
3. Lay Royden foil

Lay out the Royden foil sheets using fixing tape and run all lead wires back to junction box.



4. Lay flooring

Cover entire system with vapour barrier (Stock no. 350017) and lay laminate or engineered floor in the normal way.



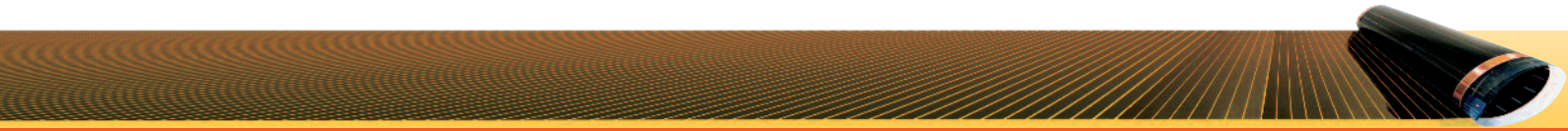


Photo courtesy of Junckers Ltd – Junckers Black Oak Variation, compatible with Royden Foil.

Royden

infloor heating foil

Your local stockists