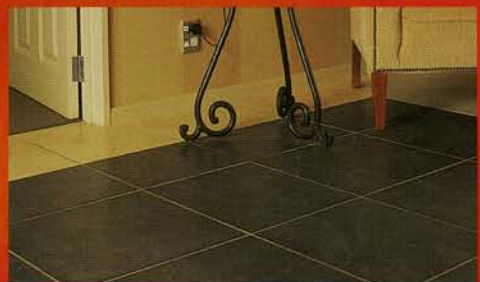


TILETHERM

UNDER-TILE HEATING



Smart heat – warm feet



TILETHERM

UNDER-TILE HEATING

*Natural cost-effective warmth
for wooden or concrete tiled floors*

TileTherm is the natural choice for warming tiled areas around your house, such as bathrooms, kitchens and hallways. These floors can be cool in summer but very cold in winter if left unheated. *TileTherm* is the ideal solution, especially in small to medium floor areas where tiles will be laid over timber or concrete floors. It also has the added benefit of preventing mould and mildew in utility areas where moistness may cause problems.

TileTherm uses a slim heating element (3mm) which is fixed to a flexible fibreglass grid. This is then laid and evenly-spaced over the area to be tiled. The grid has excellent bond capabilities for easy installation and provides an even heat distribution.

TileTherm is maintenance-free and provides a gentle even warmth without stuffiness. It's extremely economical to operate and can be made even more so with the addition of thermostats or timers.

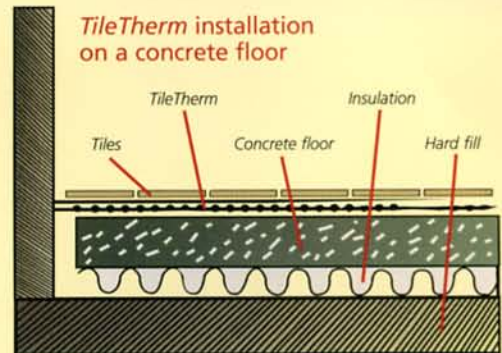
Safety

TileTherm is completely hidden, with no exposed elements or hot surfaces. There are no plugs, cables or switches. The single-conductor heating element is insulated and is copper-braided. Each end is fitted with cold leads. A separate earth braid acts as an additional safeguard.

Efficiency

TileTherm is 100% efficient – all the energy it produces will help to heat the area in which it has been installed. However, as with any heating system, the ability to heat is limited by the amount of insulation, glazing and building construction which has been utilised. Generally, 100W/m² to 120W/m² is needed to compensate for heat loss and give a degree of comfort.

A bathroom, for instance, will possibly have only 40-50% of the floor area available for heating and, in this situation, *TileTherm* will maintain tile warming but not necessarily room heating.





Installation

TileTherm is available in over 16 different factory-made element sizes (or multiples thereof) for installation into areas from 0.5m² to 15m². This range of sizes, each with constant grid spacing, gives overall heating comfort unlike some systems, which rely on site fixing and the possibility of cold spots.



TileTherm is very simple to install – it is rolled out in the area to be heated and then fitted by cutting the flexible plastic grid to suit that particular floor space. It can also be laid in different directions to give maximum coverage.

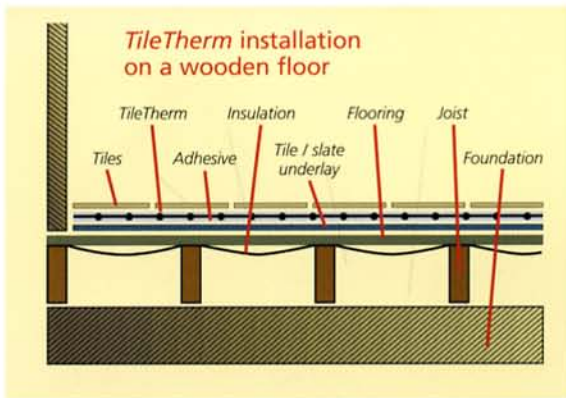
Because of *TileTherm's* ultra-thin element construction (3mm) and open-weave fixing mesh, no special primer sealers or self-levelling screeds are required as with other systems.

Response

TileTherm is designed to respond quickly to your heating needs and, whilst in most typical situations this may take only 30-40 minutes, there are times when a longer period will be needed. These include adverse weather conditions, prolonged cold spells and a lack of heating in surrounding areas.

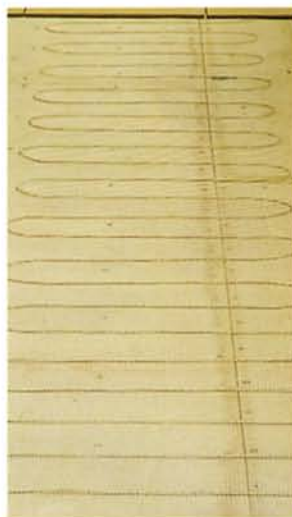
TileTherm is mainly used in bathrooms, kitchens and ensuites – areas that have a predictable time of use. They can be pre-heated by installing one of the Enersave range of thermostats, timers and regulators (see back cover) which, once set, will individually monitor the heating needs for that particular area.

Note: TileTherm is usually operated at a floor temperature (not room temperature) higher than 25°C. The reason is that normal foot temperature is approximately 34°C and any heating under 25°C would feel cold. The higher temperature therefore gives you the comfort needed.



benefits

- Simple installation - simply roll out
- Completely hidden - no hot surfaces
- 16 different element sizes
- Versatile laying options
- Suitable for concrete or wooden floors
- Excellent bonding to floor surface
- No plugs, cables or exposed switches
- Noiseless and draught-free
- No concentrated heat source
- Prevents mould and dampness
- No lost floor and room space
- No service or maintenance costs
- 10 year manufacturer's warranty



TileTherm elements meet NZ / Aus approvals and have a 10 year manufacturer's warranty.

Comfort Control

TileTherm is a demand heating system that offers a number of options for controlling your comfort level. Optimum control is achieved by using an MCC-1991 thermostat with 7-day clock and floor sensor. If a time clock is not required, or you have an existing time clock, then Model MTC-1991 with a floor sensor would be an ideal choice.

Generally, areas with installations greater than 6m² should be controlled by a sensor to regulate temperature and running costs. Large areas which attract solar heat through ranchsliders or windows will also benefit from the use of a sensor, positioned to maximise the natural radiant effect.

For areas smaller than 6m², choose the MRC-16 regulator, which is not a thermostat but a simmerstat, similar to a cooktop control. It can be set to a comfort level from 1-10 and left to operate permanently.



MCC-1991 3600W
Clock Thermostat with Floor Sensor

State-of-the-art technology with set-back function (ie. automatic set-back from 20°C-15°C during day or night), 7-day clock, energy-use recall, minimum/maximum limits, LED indicator, over-ride facility, on/off switch, floor sensor. Accurate to within 0.4°C. Fits standard NZ/AUS vertical flush box.



MTC-1991 3600W
Standard Thermostat with Floor Sensor

The latest electronic technology. Accurate to within 0.4°C. On/off switch, range-lockable (sets maximum/minimum limits), LED indicator, floor sensor. Fits standard NZ/AUS vertical flush box. Tamperproof cover available.



MRC-16 3600W
Heating Regulator

Fully electronic. Range-lockable, (sets minimum/maximum limits), on/off switch. Fits standard NZ/AUS vertical flush box.

Tamperproof cover available.

Note:

These ultra-slim thermostats and regulator are designed to blend with modern lighting and power switchplates. No special fixing boxes are required.



ETV-1991-P 3600W
Thermostat with Floor Sensor

Din rail mount. Fitted to switchboard for larger installations, or where controls are not to be visible. Accurate to within 0.4°C. LED indicator, floor sensor.



ETF-144/99
Heat sensor

Note:

TileTherm should not be controlled by a room air sensing thermostat. This would result in poor control of temperature rises, leading to higher running costs and heating discomfort.

Your **TileTherm** Stockist:



ENERSAVE™

Due to a policy of continuous improvement, TileTherm Under-tile Heating product specifications may change without notice.

© ENERSAVE PRODUCTS LIMITED 2002

New Zealand:

Enersave Products Limited
P O Box 8867 Christchurch
Telephone 64 3 377 9450
Fax 64 3 377 9460
www.enersave.co.nz
Branches at Wellington and Auckland

Australia:

Enersave Products Limited
P O Box 1232 Huntingdale
Victoria 3166
Telephone 61 3 9544 9907
Fax 61 3 9544 3320
www.enersave.com.au
ARBN 13 093 247 413