



Mats

Cables

Control Units

Underfloor Heating Catalogue

& Buying Guide

THE
FUTURE
IS HERE!

Over 20 years of innovation, quality and service!

Underfloor heating is now an essential lifestyle choice so you will want to purchase the highest quality products, with a lifetime guarantee at a fair price.

Cosytoes® are a well-established British company that has been involved in the manufacture and sales of electric underfloor heating in the UK and Europe for two decades and we have built up an enviable reputation for product reliability.



Over the past couple of years, we have been able to completely eliminate plastic packaging so all of our product packaging is recyclable.

We pride ourselves on our depth of knowledge and excellent customer service. Cosytoes® products are probably the best on the market so you can have 100% peace of mind knowing that they are manufactured in a safe, regulated environment to exacting standards and approvals.

So confident are we in our consistent quality that all our cables and mats come with a lifetime guarantee.

Our latest smart timerstats include Wi-Fi programmable controllers to help keep energy costs to a minimum, e.g. heating a small bathroom can cost as little as 25p per day and TradeMat Plus will use just 1p per hour per sqm (approx.) in a modern insulated home.

Simply download the app on to your smartphone (Apple or Android) to control your heating from anywhere. Use Wi-Fi (e.g. home or office) or 4G to communicate through your home Wi-Fi router without the need for other interface devices.

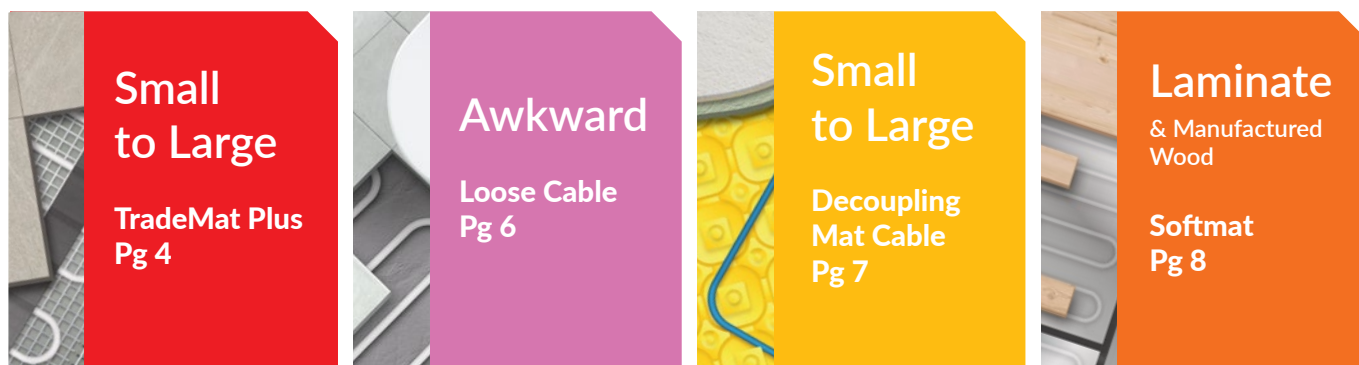


The Range

At Cosytoes, we provide everything you will need for an efficient, reliable and luxuriously warm underfloor heating system.

Use this Catalogue and Buying Guide to learn about the different systems we provide and choose the perfect heating system and control unit for your home.

Mats and Cable: Visit the relevant page for the type of area you want to heat:



Control Units: Visit pages 10 to 14 to choose a unit to suit your needs:



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TradeMat Plus

for Larger Areas



*...such as kitchens, dining rooms
and conservatories*

Mats are faster to install and have a fixed cable space that gives a pleasant even spread of heat over the floor surface. TradeMat Plus is powerful at 150w per square metre and is designed for general floor warming.

- ✓ Easy to install 'Tack n Stick' technology
- ✓ Ideal for larger areas
- ✓ 14 popular sizes (1 to 10sqm)
(Use multiple mats for larger areas)
- ✓ Only 3mm thick
- ✓ Tough outer insulation helps to withstand accidental damage
- ✓ Very safe - aluminium earth wrap protection
- ✓ Suitable for wet rooms - IPX7 rated



TradeMat Plus: The easy to install, repositional heating mat



Our new TradeMat Plus is incredibly well made and boasts a unique installation advantage; 'Tack n Stick' adhesive backing. The complete underside of the mat has a tacky adhesive. This enables you to accurately position (and reposition) the mat before cutting, without the risk of movement.

The underside also incorporates tape strips, which, when removed, expose

three strips of adhesive tape. This powerful adhesive then holds the mat in the final installed position ready for tiling. You will have no ends sticking up with this mat!

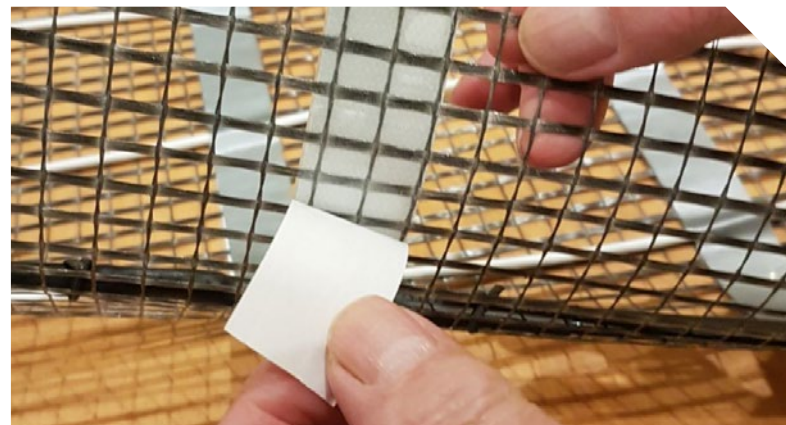
Mats are 500mm wide and when the mesh is cut, it can be turned 90 or 180 degrees to fit your floor area.



Only 3mm thick!

Technical Specification

Cable Output:	11.5w/m
Voltage:	230V
Outer Insulation:	Tough PVC
Inner Insulation:	High-Performance Teflon
Wire Thickness:	3mm
Protection Class:	IPX7 (Wet room Suitable)
Connections:	One connection 4m long
Cable:	Twin Element/White



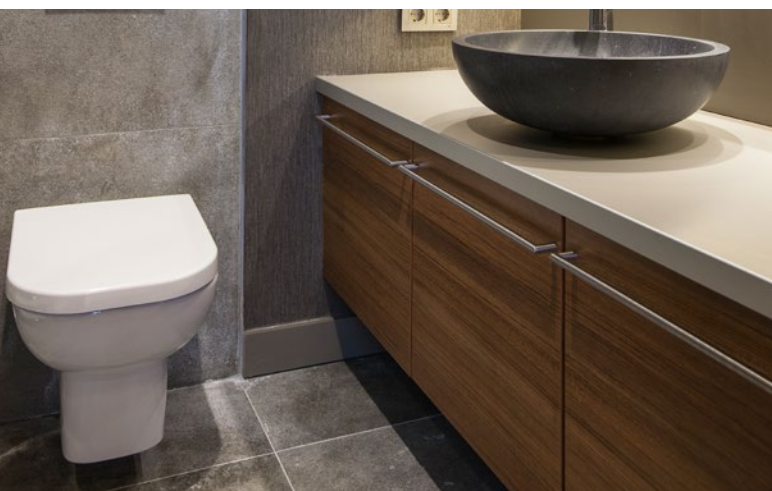
'Tack n Stick': Tacky Back & Adhesive Tape

Loose Cable for Awkward Areas



*...such as small bathrooms
and irregular shaped rooms*

- ✓ 6 popular sizes (0.75sq/m – 7.5sq/m)
- ✓ Only 3mm thick
- ✓ Very safe aluminium earth wrap protection
- ✓ Suitable for wet rooms - IPX7 rated
- ✓ One 4m long connection cable
- ✓ Tough outer insulation helps withstand accidental damage



The flexible solution for awkward installations

The loose cable is only 3mm thick and is simply adhered to the floor using fixing tape following the spacings given in the installation guide and then you can tile the floor.

Technical Specification

Cable Output:	11.5w/m
Voltage:	230V
Outer Insulation:	Tough PVC
Inner Insulation:	High-Performance Teflon
Wire Thickness:	3mm
Protection Class:	IPX7 (Wet room Suitable)
Connections:	One connection 4m long
Cable:	Twin Element/White



Only 3mm
thick!



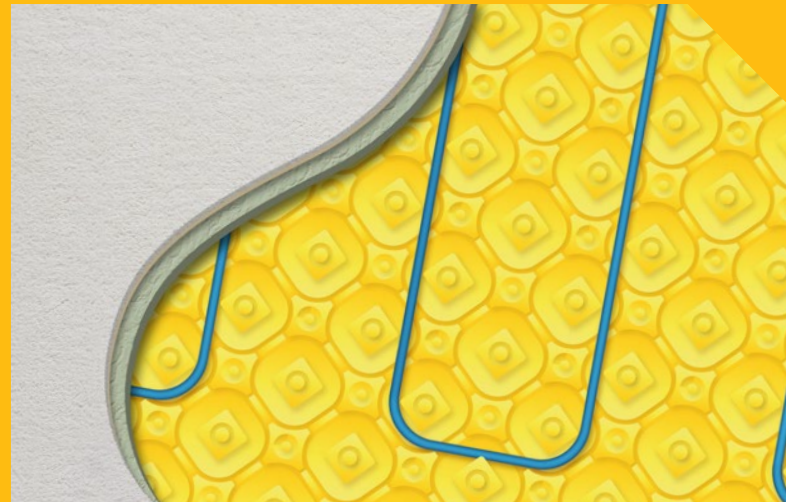
Decoupling Mat Cable

for Small to Large Areas



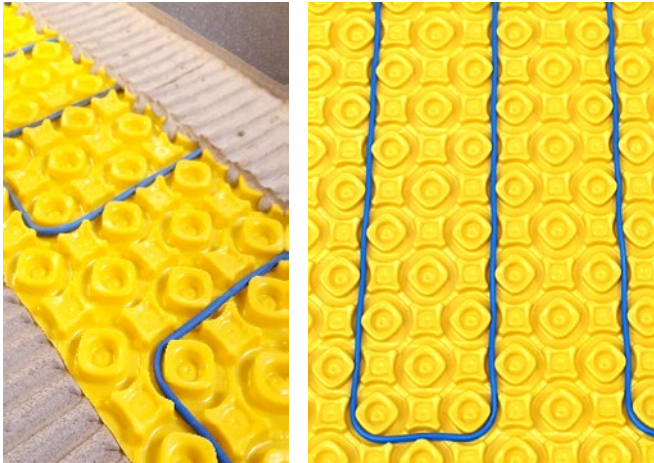
...such as conservatories

- ✓ Designed to fit Heating Carrier Mat
- ✓ 11 popular sizes (0.6sq/m – 12sq/m)
- ✓ Only 3mm thick
- ✓ Very safe aluminium earth wrap protection
- ✓ Suitable for wet rooms - IPX7 rated
- ✓ One 4m long connection cable
- ✓ Tough outer insulation helps withstand accidental damage



Designed to fit cable carrier decoupling mats

The cable is only 3mm thick and is installed using our Heating Carrier Mat which guards against sub floor movement and ensures even cable and heat distribution.



Technical Specification

Cable Output:	11.5w/m
Voltage:	230V
Outer Insulation:	Tough PVC
Inner Insulation:	High-Performance Teflon
Wire Thickness:	3mm
Protection Class:	IPX7 (Wet room Suitable)
Connections:	One connection 4m long
Cable:	Twin Element/White



Only 3mm thick!



Softmat

for Manufactured Wood and Laminate Flooring



...in all areas of the home

Softmat has been designed for use under laminate and manufactured hardwood flooring. This system has a foil heat exchanger for even distribution of heat through the floor surface.

- ✓ Best system for use under wooden floors on the market
- ✓ Easy to install
- ✓ Use a timerstat for efficient heating control
- ✓ Surpasses international safety standards
- ✓ Tough rugged construction
- ✓ Heating cables only 1.5mm thick
- ✓ Overall depth of system 6mm including 5mm Depron Board



Softmat: *The mat to choose for luxuriously warm wooden floors*



The thin heating cables are laminated to the underside of a foil heat-exchanger and bed into the 5mm Depron Foam Softmat Underlay.

The flooring is laid directly over the Softmat and the foil heat-exchanger distributes the 140w/sqm heat evenly over the floor area.

Softmat Underlay

When using Cosytoes® Softmat it is important to also install Softmat Underlay onto the floor prior to laying Softmat. Softmat Underlay is a 5mm thick Depron Foam board that is laid out and closely fitted over the entire floor area. The thin heating cables bed into the underlay with the foil heat exchanger uppermost. The flooring is then installed.

Technical Specification

Cable Output:	6.25w/m
Voltage:	230V
Outer Insulation:	Teflon
Inner Insulation:	Teflon
Wire Thickness:	1.5mm
Protection Class:	IPX7
Connections:	One connection 4m long
Cable:	2x Single Element



Softmat and Softmat Underlay

Control Units

for Energy Efficiency and Maximum Warmth



THE
FUTURE
IS HERE!

A timerstat is essential for the most efficient energy use as it controls when your heating will come on, go off and the temperature that you wish the floor to be. Our manual on/off thermostat also controls the temperature of the floor. Each timerstat or thermostat comes with a floor probe that is installed midway between 2 heating cables and comes with operating instructions, see our website www.cosytoes.co

Our timerstats and thermostats are rated at 15/16amps. This means you can fit up to 22sqm/3.3KW of matting or cable to each one:

Curve - up to 22m²

Mirage - up to 22m²

Manual Thermostat - up to 22m²

White

Reflection

Black



CURVE



Cosytoes App



The 'Curve Wi-Fi' connects to your home Wi-Fi router and can be accessed anywhere using the Android or iOS app.

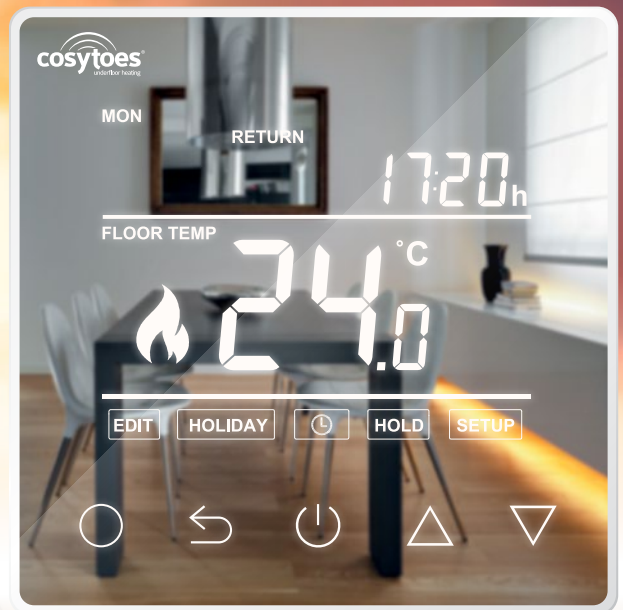
The 'Curve' can also be controlled via the unit itself, but you will always have the added flexibility of using the app to override settings, switching the heating on or off as required. Wi-Fi and Standard (non-Wi-Fi) versions are available in White, Black and Reflection housing,

Main Features:

- ✓ Wi-Fi control
- ✓ Time Display
- ✓ Holiday Function
- ✓ Key-lock
- ✓ Hold Function
- ✓ Internal and Floor Sensor Selection
- ✓ Floor High Temperature Protection
- ✓ Off Time Frost Protection

Technical Specification:

- ✓ 7 Day Programmable
- ✓ Supply voltage: 85-265V 50/60Hz
- ✓ Maximum switching current: 16A
- ✓ Standby power: < 1W
- ✓ IP rating: IP21
- ✓ Wire diameter 2.5mm
- ✓ Suitable for up to 22sqm of heating mat.



MIRAGE



Efficient and easy to use technology within a unique, contemporary and classy reflective housing.

The 'Mirage' is a smart Timerstat that will maintain comfortable temperatures whilst minimising energy use.

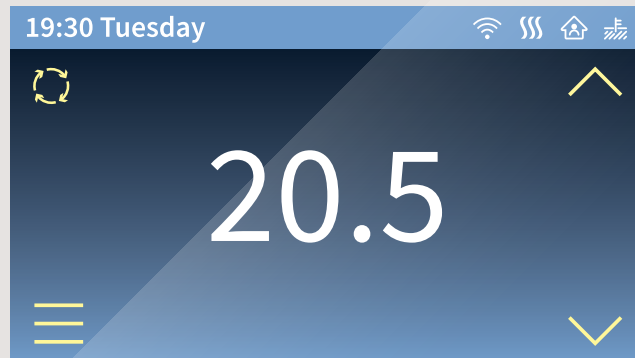
The 'Mirage' is available with either a black or white bezel surrounding its mirrored display (shown in stand-by mode left) so you have the option to choose the 'Mirage' Timerstat that best suits your decor.

Main Features:

- ✓ Time Display
- ✓ Holiday Function
- ✓ Key-lock
- ✓ Hold Function
- ✓ Internal and Floor Sensor Selection
- ✓ Floor High Temperature Protection
- ✓ Off Time Frost Protection

Technical Specification:

- ✓ Supply voltage: 85-265V 50/60Hz
- ✓ Maximum switching current: 16A
- ✓ Standby power: < 1W
- ✓ IP rating: IP21
- ✓ Wire diameter $\leq 2.5\text{mm}$
- ✓ Suitable for up to 22sqm of heating mat.



VISTA

The 'Vista' is our latest timerstat, with a colour widescreen display that connects to your WIFI router and can be accessed anywhere using the Anroid or iOS App. The perfect control unit for a stylish and contempory setting.

The 'Vista' can also be controlled via the unit itself, but you will always have the added flexibility of using the app to override settings, switching the heating on or off as required. Available in White and Black.

Main Features:

- ✓ Colour Screen
- ✓ WIFI Control
- ✓ Time Display
- ✓ Hold Function
- ✓ Key-Lock
- ✓ Internal and Floor Sensor Selection
- ✓ Floor High Temperature Protection
- ✓ Off Time Frost Protection

Technical Specification:

- ✓ 7 Day Programmable
- ✓ Supply Voltage: 85-265V 50/60Hz
- ✓ Maximum Switching Current: 15A
- ✓ Standby Power: < 1W
- ✓ IP Rating: IP21
- ✓ Wire Diameter: 2.5mm
- ✓ Suitable For Up To 22sqm/3.3KW of Heating Mat/Loose Cable



MT4 MANUAL THERMOSTAT

A good looking Thermostat that is very simple to operate!

Main Features:

- ✓ ON/OFF
Press the 'M' button for 3 seconds to turn the thermostat on/off. (On screen lit/off blank screen)
- ✓ Temperature Control
Press the + or - buttons to raise or lower the temperature.
- ✓ Key Lock
Press the 'M' button and the - button together for 3 seconds to lock/unlock the thermostat. (Stops little

- hands from changing things)
- ✓ Mode Selection
Press the 'M' button to switch between home mode and away mode. Home mode is defaulted to 22°C, and away mode is defaulted to 15°C which will turn off the underfloor heating as and when you wish to be away (these default temperatures can be changed in the advanced settings).

Specification:

- ✓ Supply Voltage: 220V-240V 50/60Hz
- ✓ Maximum Switching Current: 16A
- ✓ Standby Power: <1W
- ✓ IP Rating: IP30
- ✓ Colour: White
- ✓ Sensor: NTC 10K B 25/50:3950K
- ✓ Size: 86x86x11mm
- ✓ Accuracy: $\pm 1^{\circ}\text{C}$
- ✓ Temp Range: 5~35°C

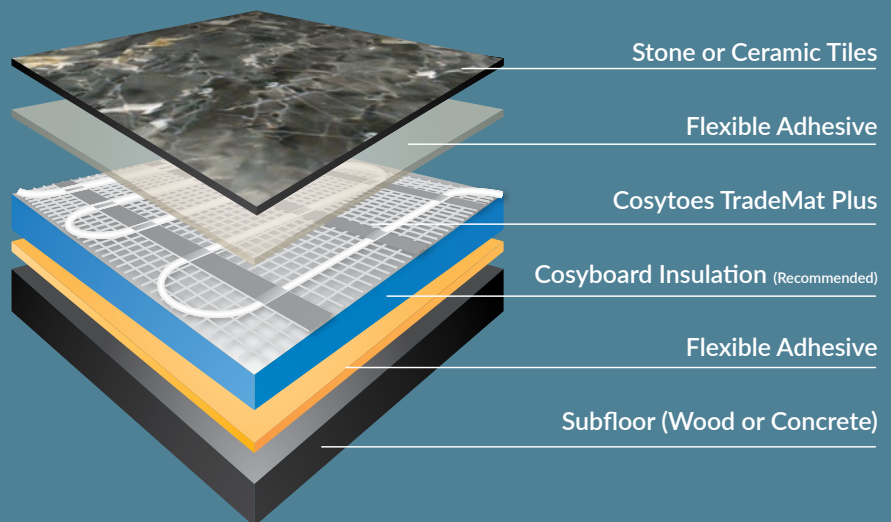
Cosyboard

Create the perfect base for your underfloor heating system

In tests with our underfloor heating products, the floor warming time on an uninsulated floor was cut from over one hour to less than 30 minutes. Simply fix the boards to a concrete or timber floor with tile adhesive. Please note that we do not sell cheaper foam boards, i.e. without the harder outer shell, as from our experience they crush during the tiling process. Cosyboard has an insulating polystyrene core, which is protected by a strong outer cement type coating.

Insulating Tile Backer Boards provide a perfect subfloor for tiling and we highly recommended them for underfloor heating, essential if you are installing on an old concrete subfloor.

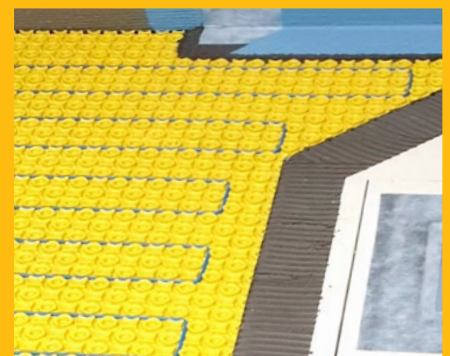
Cosyboard is available in 1200mm x 600mm with a 6mm thickness.



Loose Cable Carrier Mat

The professionals choice for loose cable installations

Cosytoes Underfloor Heating Carrier Mat is designed for ease of installing our loose cable system. The revolutionary system acts as two products in one. Firstly, the mat is a decoupling membrane which guards against sub floor movement and stress cracking tiles in the future. Secondly it acts as a cable carrier which ensures even wire and heat distribution, as well as reduced installation time. (Use above Cosyboard on concrete floors for correct performance). Available in 5sqm Rolls.



Help and Advice

1. Order the correct amount

It is important not to order too much as you cannot simply cut the end of the mat or cable off. Products can be combined (wired in parallel) if your surface area exceeds that provided in any single mat or cable.

2. Use mats where possible

Mats come with fixed cable spacings to provide uniform heat over the floor surface. Our Loose Cable Kits are designed for smaller and more awkward areas.

3. As a sole heat source

Generally, 150w per square metre mat is suitable for modern buildings for tile warming, or as a sole heat source, but older buildings and conservatories may need further heat in very cold weather. An old building will clearly have more heat escaping than a modern well insulated building. The floor space that is available for heating in relation to the room size is also important, e.g. a kitchen can be a large room with a relatively small floor area when fixed objects are deducted.

4. Insulate for the best results

We always advise the use of insulation to give the best performance, economy and quicker heat-up times. Do not install underfloor heating on an uninsulated concrete floor* as this will waste energy. Use Cosyboard over uninsulated concrete or on insulated concrete or timber floors for a quicker heat-up time.

5. Choosing a Control Unit

Choose a Cosytoes® Control Unit (timerstat) to regulate energy use for maximum efficiency. We offer a variety of units, so choose the one with the features that you require. Each Control Unit can handle 22sqm (or 26sqm for the Gloss Timerstat) of heating mat. Mats can be connected in parallel if the surface area exceeds any single mat, e.g. 20m² can be heated using two 10m² mats. Even larger areas can be controlled using a wireless timerstat where the transmitter can be set to communicate with multiple receivers. Each receiver can handle 22m², so two receivers can be used to control up to 44m² of mat and so on. Alternatively, two Control Units could be used with two heating zones.

6. Preparing the floor

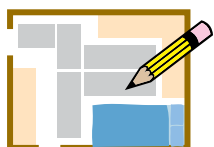
TradeMat Plus, Loose Cable Kits and Carrier Mat Systems should be laid on an insulated concrete or timber floor and then covered with self-levelling compound. Tiles or stone surfaces are then laid on a continuous screeded bed of adhesive in the normal way. For vinyl type floor finishes, the thickness of self levelling screed should be increased to at least 10mm thickness.

*Pre 1995 building regs

6-Step Installation Overview

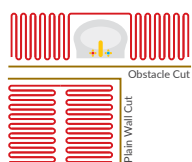
These diagrams show you the general steps for installing underfloor heating under a tiled floor.

Full step by step instructions are supplied with each product, but they can also be downloaded from www.cosytoes.co.



1. Plan and prepare the floor

To help you plan where to install your heating system it may be useful to sketch the layout of the room and mark the area to be heated. Ensure that the subfloor is prepared (smooth and flat) as required for the final floor finish.



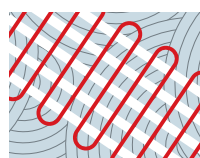
2. Lay the system efficiently

These diagrams show how easy it is to install the heating mats in any area and around any obstacle.



3. Start laying the system

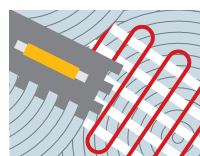
Cut the fabric backing and bend the heating cable to fit the room layout.



4. Fix the system in place

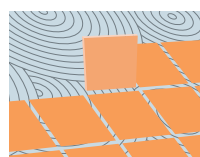
Stick your system to the prepared subfloor. We recommend that you prime a concrete subfloor with an acrylic primer before you stick the mats down. Also install the floor probe (supplied with timerstat) between two heating cables.

Note: The heating cable MUST always be tested prior to tiling.



5. Apply tile adhesive

Some tilers prefer to tile directly over the heating mat, or apply a thin layer of tile adhesive or self-levelling compound over the system using a non toothed spreader to protect the heating cable from damage.



6. Lay the flooring

Once the tile adhesive or self-levelling compound covering the heating mat has dried, apply flexible tile adhesive and tile.

Calculation Examples

Our Customer Service line is available for free advice should you have any sales or installation queries.

TradeMat Plus

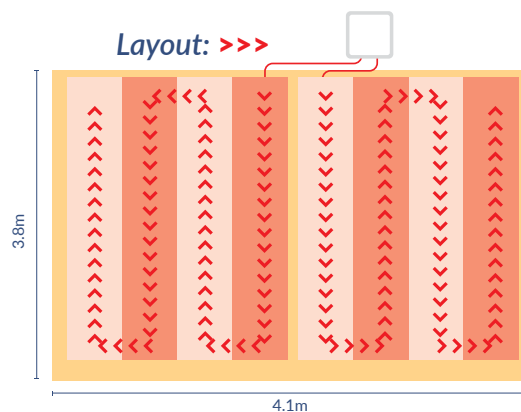
Calculate your surface area:

$$4.1\text{m} \times 3.8\text{m} = 15.58\text{m}^2$$

Deduct 10% (and for fixed objects if present) to leave the amount of mat required:

$$15.58\text{m}^2 \times 0.9 = 14\text{m}^2$$

14m² can be heated using 2x TM+7.0 mats.



Loose Cable

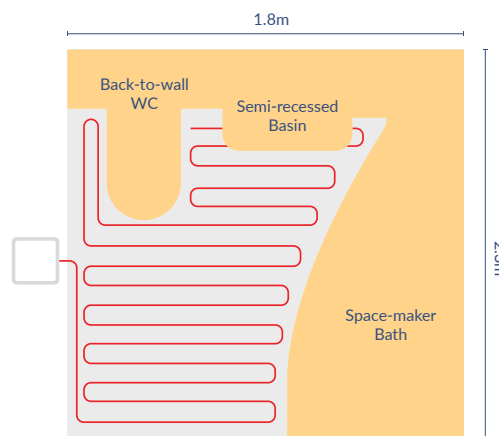
Calculate your total room (e.g. bathroom) dimensions:

$$2.3\text{m} \times 1.8\text{m} = 4.14\text{m}^2$$

Approximate the surface area of fixed units (e.g. bath, toilet and cabinets) and deduct:

$$4.14\text{m}^2 - 2.14\text{m}^2 = 1.73\text{m}^2$$

1.73m² can be heated using 1x B300 cable (1.5 - 2.5m²).



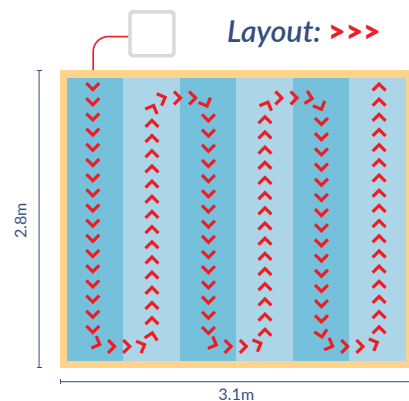
Softmat

Calculate your surface area: 3.1m x 2.8m = 8.68m²

Deduct 10% (and for fixed objects if present) to leave the amount of mat required: 8.84m² x 0.9 = 7.8m²

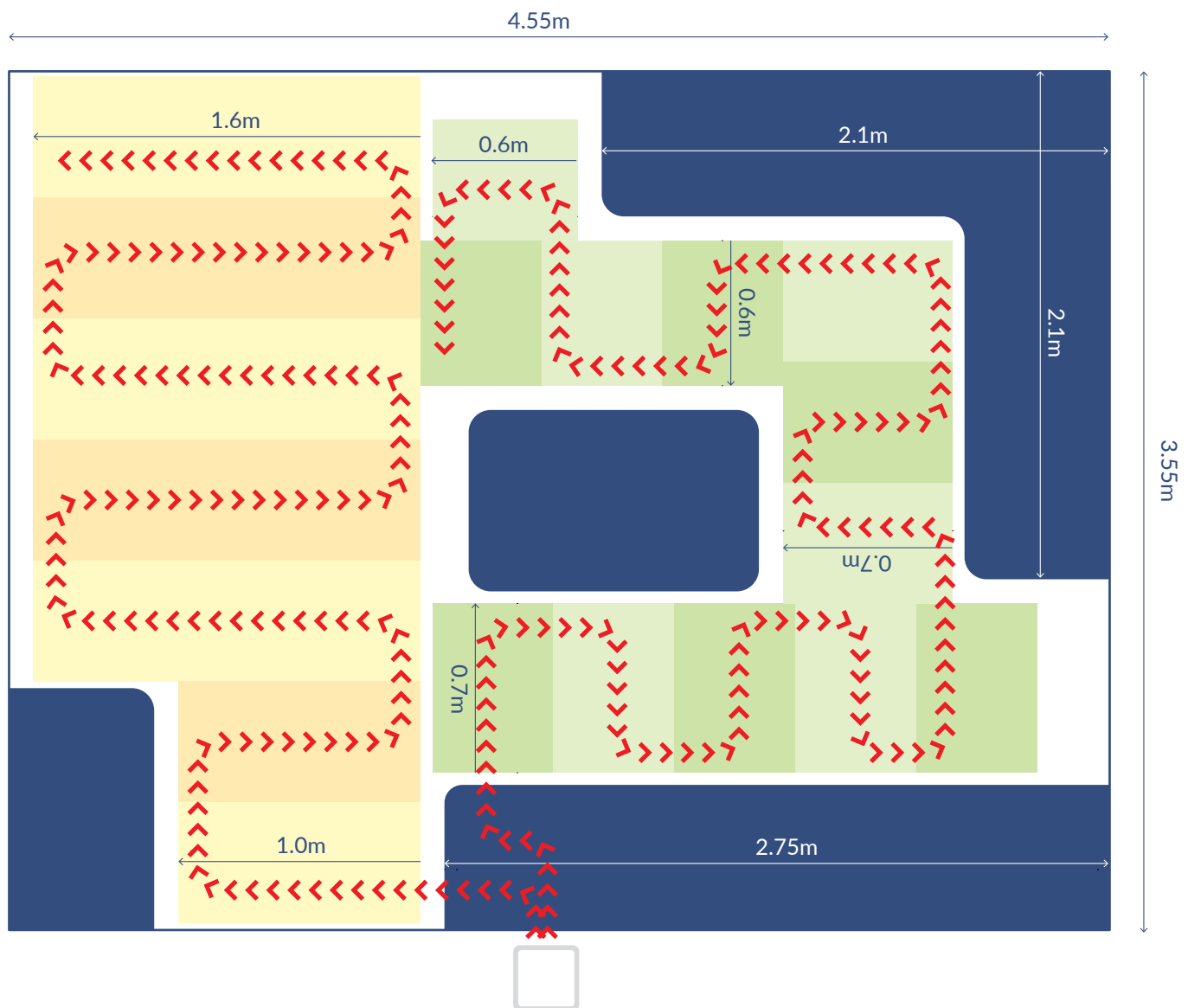
7.8m² can be heated using 1x SM7.0 and 10x SMU boards.

Note: Always make sure there is an RCD on the supply. If not, install an RCD spur.



Note: If your surface area is greater than any single product, you can combine sizes to total your requirements. Be sure to always choose the product(s) smaller than your requirements.

Typical Layout Example



The above illustration shows a typical layout for a TradeMat Plus system. The layout includes two sizes of TradeMat Plus, TMP4 (shown in green) and TMP5 (shown in yellow), a timerstat and works around fixed objects (shown in blue) within the room to be heated.

Requirements:

1x TMP4.0

1x TMP5.0

1x Cosytoes® Mirage Timerstat - White (Mir-W)

1350watts/6amps

The 10 Essentials of Underfloor Heating

1. Service

We are always happy to help our valued customers and especially the installer. We will exchange unused goods for a different size, send out replacements for probes free of charge and discuss any other problems that you have.

2. Lifetime Guarantee

Cosytoes' high performance, teflon insulated heating cable is manufactured to the highest standards and specifications, which is why we can confidently give a lifetime product guarantee. See www.cosytoes.co.

3. Timber floors

Cosytoes is suitable for fixing directly to timber floors. Boarding out the floor with a well fixed tile backer board will provide an excellent base for the heating cable and will improve efficiency.

4. New concrete floors

A concrete sub-floor that has been laid over an insulation layer (as required for new buildings - post 1994) acts as a storage radiator. It takes longer to heat up (hours) but also takes longer to cool down. Installing on a tile backer board will give a much faster heat-up time.

5. Old concrete floors

Non-insulated concrete floors will soak up the heat and you will end up with poor performance and high-energy costs! Only lay on these floors using a suitable tile backer board.

6. Sizing and laying

If you need help planning your underfloor heating system, please don't hesitate to contact us and we will be more than happy to assist you.

7. Controllers

Whilst giving you a luxurious warm floor, Cosytoes systems deliver the same results as conventional heating but operate at a much lower temperature giving you maximum economy and efficiency.

8. Laminate, timber or carpet

Cover the TradeMat Plus with a good thickness of self-levelling screed to fit a floating floor of laminate or timber as required. Always ensure there is free space around the edge of the room so the gripper fixings don't damage the heating cable. Or use Cosytoes Softmat system that has been specifically designed to fit under laminate or wood flooring.

9. Running Costs

Our combined time and temperature controllers help keep energy costs to a minimum, TradeMat Plus will use just 2p/hour/ sqm (approximately) in a modern home. Insulating the floor with tile backer board can improve the efficiency and heat-up time by up to 50%.

10. Wet Rooms

All Cosytoes heating cables conform to IPX7 and are suitable for installation in wet rooms, which means that our TradeMat Plus can help dry a bathroom floor in a matter of minutes.

All Cosytoes® products are manufactured to comply with UK and EU safety standards. Our underfloor heating cables are also manufactured to meet the underfloor heating standard EN 60335-2-96:2002 and are IPX7 rated for use in wet areas.



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