



the **underfloor**  
**heating** store

Warming life's stories without limits





# Affordable luxury

## ProWarm™ Underfloor Heating Systems

If you're planning a new build, extension or major refurbishment on your property, it may be the perfect time to seriously consider ProWarm™ underfloor heating as an efficient way to heat your home.

The ProWarm™ range of underfloor heating products offer the home owner and installer, flexible solutions to suit any project and budget. Easy to install water systems are available, perfect for new builds, or electric systems, which are ideal for retro fits as they create minimal disruption. All ProWarm™ electric systems come with a Lifetime Warranty giving you total peace of mind.



Products in this catalogue may change in appearance due to our continued research and development. Prices reflect current RRP and are subject to change at any time.

# for any room & every budget



## Contents

<b>Why have underfloor heating</b>	<b>1</b>
<b>Why use ProWarm™</b>	<b>3</b>
<b>Which System &amp; Why?</b>	<b>7</b>
<b>Water Underfloor Heating</b>	<b>9</b>
<b>Under Concrete / Screed Floors</b>	11
Clip Staple	12
Clip Rail	13
ProCrate	14
<b>Over Existing floors</b>	15
LoFlo™ Max	16
LoFlo™ Lite	17
<b>Between Joists / Suspended Floors</b>	19
Spreader Plates	20
ProFloor System	21
Foil Boards	22
Pipe Options	23
Manifold & Mixer Packs	27
Pipe Fixings	30
Water UFH Room Controls	31
<b>Electric Underfloor Heating</b>	<b>34</b>
<b>Calculating the heating area</b>	35
Heating Mats	37
Loose Cables	39
ProGrid+ Cable System	41
Foil Heating Mats	43
Insulation	45
Electric UFH Temp Controls	46
Electric UFH Accessories	47
<b>Adhesives &amp; Levellers</b>	<b>48</b>
<b>Wetroom Shower Trays</b>	<b>49</b>
<b>Warranty</b>	<b>51</b>

# Why have underfloor

Underfloor heating is not a new concept, it's been around since the Roman times. In Scandinavia 80% of homes are already heated by underfloor heating and the UK market is catching up fast.

It's no surprise that underfloor heating is growing in popularity. It's relatively cheap to install, economical to run and with little maintenance required. It also frees up wall space, normally dedicated to radiators, and can now be installed under virtually any type of floor. It's generally considered to be a more eco-friendly option than radiators too, because of the way it heats the space.



**Water Underfloor heating** is a system of pipes which are connected to an existing heating system, where warm water is circulated throughout the floor to heat the space. Because the heat emitted from an underfloor system is more evenly distributed than a single radiator, the system can use water at a lower temperature. So it's a more efficient way of heating your home.

**Electric Underfloor heating** is a series of cables in a loose format or spaced on a mat. Loose cables are flexible enough to fit into small or awkward spaces. Heating mats are quicker to install, as they are simply rolled out, making them ideal for covering large areas.

Both heating mats and cables are connected to a power supply, via an RCD, and are wired to a thermostat to control the temperature of the floor.

# heating?

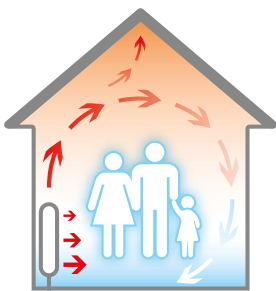
Save on  
energy bills!



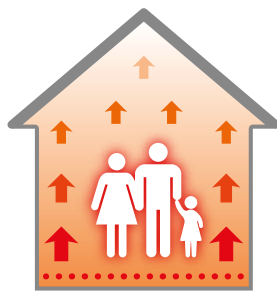
‘ underfloor heating is up to **25% more efficient** than conventional radiators ’

## Efficient even heat distribution

The radiant form of underfloor heating with even heat distribution is far more comfortable and efficient than the convected heat provided by radiators, which draws cold air across the floor, heating it and then convecting it upwards towards the ceiling.



Typical Central Heating



Radiant underfloor heating

- ✓ Energy efficient
- ✓ Even heating for the whole room
- ✓ Easy to install
- ✓ No more cold floors
- ✓ Individual room control
- ✓ More efficient than radiators



# Why use ProWarm™

The ProWarm™ brand of underfloor heating is the best online seller in the UK. All ProWarm™ underfloor heating systems are technologically advanced and are among the best on the market. All our products are manufactured to the highest standards and our electric systems come with a Lifetime Warranty giving you total peace of mind. Our dedicated technical team are available to answer any questions that you may have, giving you total support.



## Free Delivery

As standard we include free delivery to all UK & European addresses



## Lifetime Warranty

All Electric Underfloor Heating Systems come with a Lifetime Warranty



## Bespoke Design

Full CAD design service from start to finish on UFH Water Systems



## 5 Star Reviews

We are an award winning company with over 100,000+ positive reviews



## Quality Products

All our products are manufactured to the highest standards



## UFH Experts

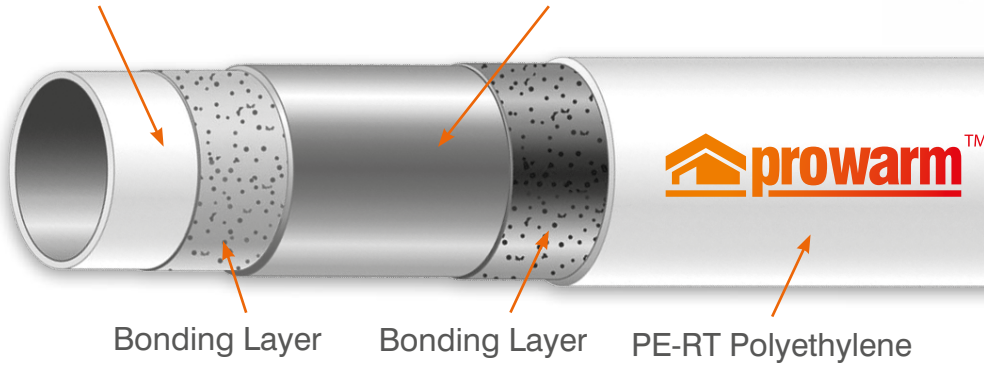
We have a fully qualified technical team to provide expert advice on your project needs

High quality multi layered pipe (Pert-Al-Pert) in all our ProWarm™ water systems



Polyethylene PE-RT

Anti-diffusion Aluminium Layer



- ✔ PERT/AL/PERT
- ✔ 100% OXYGEN IMPERMEABLE
- ✔ MAX PRESSURE & TEMPERATURE 10BAR, 95°C  
(Actual working pressure & temperature 1-1.5 Bar, 35-50°C)

Excellent rating  
100,000+ satisfied customers

★ Trustpilot



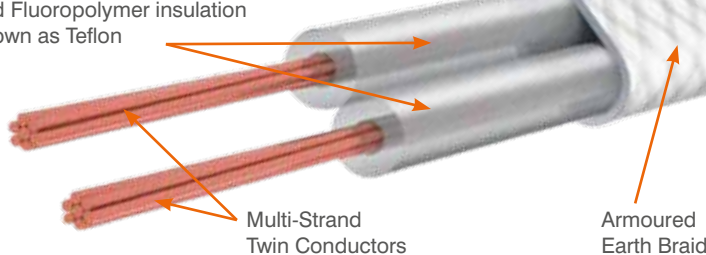
We have such confidence in the quality of our products that we offer a Lifetime Warranty on all our electric underfloor heating systems and thermostats.



ProWarm™ ultra thin electric cable.  
Maximum quality, minimum floor height

Damage your underfloor heating cable or mat during the installation process and we'll replace it free of charge under our CableSafe™ Warranty

Advanced Fluoropolymer insulation (FEP) known as Teflon



UK  
CA CE  
APPROVED

- ✔ ULTRA THIN CABLE
- ✔ ONLY 2MM THICK
- ✔ MINIMUM FLOOR HEIGHT
- ✔ PEACE OF MIND WARRANTY

Technical support & advice

☎ 01268 567019



Get a quote in  
just 24 hours



## Bespoke systems designed FREE

For Water Systems - Full CAD design service from start to finish

We have dedicated design teams, comprising experts who are able to provide quotes including CAD drawings from customers' own plans. In addition to being experts for electric and water underfloor heating systems, we are also the most proactive when it comes to advice on suitable floor coverings, structural sub floors and installation of the chosen systems.

ProWarm™ has the complete solution for both existing and new construction homes, with a selection of systems to suit all scenarios; suspended floors, floating floors, low profile over floor and screed applications.

## FREE Bespoke Design Service for your unique project...

- ✓ Full service from start to finish
- ✓ Expert advice from a qualified team
- ✓ FREE bespoke design including CAD drawings
- ✓ Get your quotes back within 24 hours
- ✓ Upload your files easily and quickly







## Technical Advice

Technical support by our qualified team

We have a dedicated technical team to offer expert advice on your underfloor heating project needs or any issues you may have.

Our in-depth knowledge of structural sub floors, floor coverings and different installation methods makes us the industry's leading experts in both water and electric underfloor heating systems.

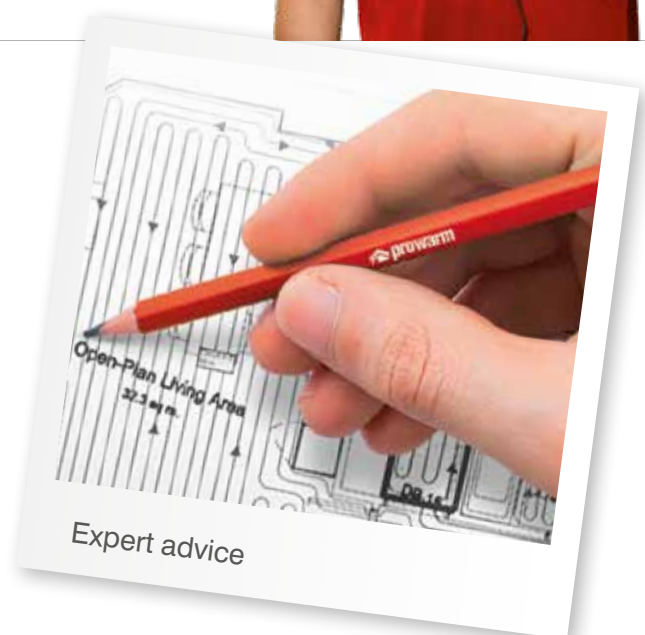


Total support for any technical issues you may have:

- ✓ Technical advice
- ✓ Product specification
- ✓ Installation support
- ✓ Warranty information

[support@prowarm.com](mailto:support@prowarm.com)





☎ **01268 567019**



# Which ProWarm™ system

## Water

### UNDERFLOOR HEATING

-  For major renovations and new builds
-  Generally cheaper to run than electric heating
-  Perfect for large areas and multiple rooms
-  Can be run using air and ground source heat pumps for efficiency



#### UNDER NEW CONCRETE OR SCREED FLOORS



A cost effective solution for installing water underfloor heating into new build properties or new extensions

See Page 14

#### OVER EXISTING FLOORS



Installing water underfloor heating over existing floors is simple using our New LoFlo™ range.

See Page 18

#### BETWEEN JOISTS OR SUSPENDED FLOORS



Installing water underfloor heating between joists is easy using our 4 different installation solutions

See Page 22



#### CLIP STAPLE

See Page 12



#### LOFLO MAX

for tiled floors

See Page 16



#### SPREADER / HEAT PLATE

See Page 20



#### CLIP RAIL

See Page 13



#### NEW LOFLO LITE

for wood / laminated floors

See Page 17



#### PRO FLOOR

See Page 21



#### PRO CRATE

See Page 14



#### IN JOIST FOIL BOARDS

See Page 22





**Low Profile**  
Minimal impact on floor height



# and why?

## Electric

### UNDERFLOOR HEATING

-  Can be retro fitted into existing rooms without too much disruption - easy to install
-  Cheaper to install in smaller areas i.e. kitchens/bathrooms
-  Will only increase floor height by as little as 3mm
-  Wattage output options available for different room scenarios



### TILED FLOORS



There are 2 different types of suitable systems for tiled floors, **heating mats and loose cables**

### WOODEN FLOORS

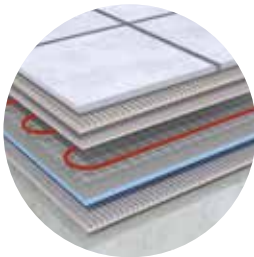


We recommend underwood **foil heating mats** for wood / laminated floors. It's possible to use mats & loose cables, providing the mat / cable is covered with a minimum of 10mm self levelling

### CARPET or VINYL FLOORS

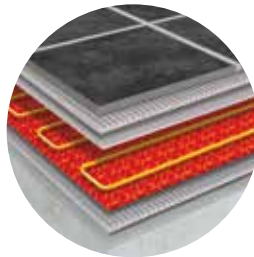


We recommend underwood **foil heating mats** for carpet & vinyl floors. These **MUST** be used with our dual overlay Heat-Pak system



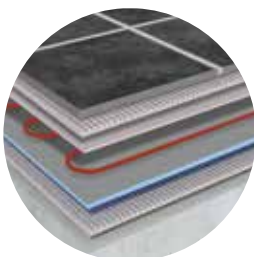
#### HEATING MATS

Best suited for tiled floors  
See Page 37



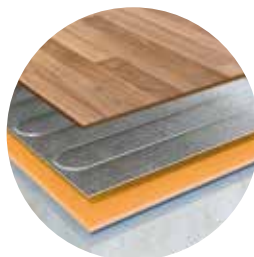
#### NEW PROGRID SYSTEM

Best suited for tiled floors  
See Page 41



#### LOOSE CABLES

Best suited for tiled floors  
See Page 39



#### FOIL MATS

For use with wood / laminated, vinyl\* & carpet\* floors  
See Page 43

\*Use with Heat-Pak dual overlay

# water underfloor heating

## ProWarm™ Underfloor Heating Systems

With a water-based underfloor heating system, a series of pipes are connected to an existing heating system, where warm water is circulated throughout the floor to heat the space. Because the heat emitted from an underfloor system is more evenly distributed than a single radiator, the system can use water at a lower temperature. So it's a more efficient way of heating your home.

Underfloor heating is generally associated with tiled and wood laminated floors. It is possible to install in a carpeted room, providing the combined carpet and underlay isn't too dense which would prevent the system operating properly (a combined tog of no more than 2.5 is ideal). With vinyl floors we'd recommend checking with the flooring manufacturer to ensure the chosen vinyl is suitable for underfloor heating.

### Standard output system

A standard output system is suitable for internal well insulated areas such as a living room, dining room and bedroom, controlled by a single thermostat.



Pipe	16mm
Spaced	200mm



Pipe	16mm
Spaced	250mm

### High output system

A high output system is suitable for areas of high heat loss, ideal for kitchens, bathrooms, conservatories, extensions and external buildings with lots of glass.

### Multi-room system

A multi zone system is suitable when you want to control different rooms at different temperatures and times, ideal for complete new builds.



Pipe	10, 12 or 16mm
Spaced	150mm



Pipe	16mm
Spaced	200mm

### Low profile system

A low profile system uses a smaller pipe diameter which attains a lower floor height. These systems can be used on existing floors with minimal disruption. Pipes are fitted into our 15, 16, 18 or 20mm low profile insulation panels which are set to 150mm spacings

## Floor construction

Underfloor heating can be installed within a variety of different floor constructions. The different floor constructions comprise of solid screed floors, floating floors and suspended floors. The insulation below the underfloor heating should be of an adequate thickness and resistance to restrict any downward heat loss.

### Screed Systems

Screed systems rely on thermal conductivity to transfer heat from the pipes within the screed to the finished floor level. The makeup of a screed system consists of slab or over site base, edge insulation around the perimeter of all walls to allow for expansion and contraction and to prevent heat conduction from the floor to the walls. A suitable insulation is then laid on top of the over site and the underfloor heating pipes are fixed to the insulation with screed encasing the pipes.



### Existing Floors

Our LoFlo™ overlay range makes it possible to install a low profile water underfloor heating system over your existing floor. Our overlay range uses pre routed flooring panels with a minimal increase to the floor height.



### Suspended Floor

Suspended underfloor heating systems regularly use heat diffusion plates to dissipate the heat evenly. Insulation is tightly fixed between the joists and then the aluminium heat spreader plates are then laid on top of the joists and securely pinned. The underfloor heating pipe work is then fixed in to the plates according to the floor plan layout provided.



## Floor coverings

Most floor coverings are suitable for use with underfloor heating systems, below is a general overview of each floor covering.

### Tiled / LVT floor

Tiled or LVT flooring offers the least resistance to heat transfer which makes these coverings the ideal partner for underfloor heating. When fitting these products a flexible adhesive must be used to allow for expansion and contraction to restrict the possibility of the finished floor from cracking or coming loose.

### Vinyl floor

Vinyl flooring offers a low heat resistance and whilst most vinyl and plastic flooring is suitable for use with underfloor heating, we advise checking with the flooring manufacturer to ensure the chosen vinyl is suitable.

### Wood / laminate floors





Wood / laminate floors work well with underfloor heating. You will find that most underfloor heating should not exceed 27°C when wood flooring is laid.

### Carpets

Carpet and underlay provides the highest heat resistance. You should make sure the underlay is suitable for the use with underfloor heating and has a low TOG value, the combined carpet and underlay should not exceed 2.5 TOG.

## Under Concrete / Screed Floors

If you are planning a new build or extension, an under concrete / screed system is often the best solution both from an installer and homeowner perspective. This installation method needs forward planning in your project but is very simple and quick to install. All our ProWarm™ systems provides a solution with the following benefits

-  Cost effective to purchase with no additional insulation or substantial flooring system is required
-  Cost effective to run because the insulation ensures that heat is projected up into the concrete/screed and warms up to create an energy store that releases the heat into the floor covering over a prolonged period of time.
-  Suitable for all floor coverings
-  No impact on floor height

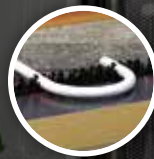
### Which Under concrete / screed system to choose?

ProWarm™ supply 3 under concrete / screed underfloor heating systems. The following information is useful to help identify the most appropriate system for your project. More information about each product is available in the following pages.

### 3 systems to choose from:



CLIP STAPLE



CLIP RAIL



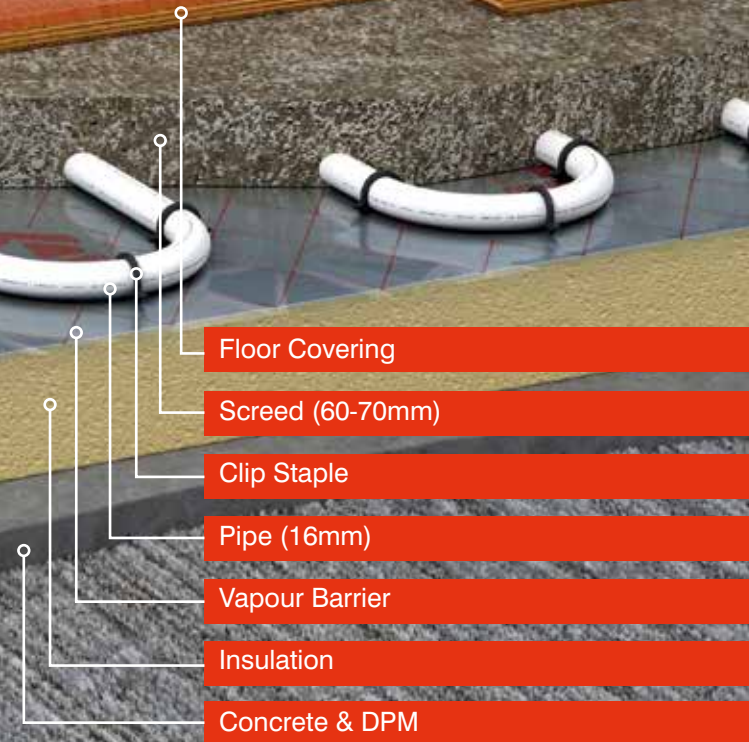
PRO CRATE

Installation	Quick & simple		
Suitable project types	New build and extension. Typically ground floor levels		
Suitable floor coverings	Suitable for all floor coverings types		
Ideal for rooms with the following shape	Irregular	Regular	Regular
Ready-made pipe spacing	No	Yes	Yes
Suitable screed types	Traditional & liquid		
Additional levelling compound required	Not required		
Available in low profile	Not required, due to in-screed construct		
Pipe options	16mm		
Floor height elevation	No increase to floor height		
Lay floor directly onto the underfloor heating	Yes, directly onto screeded floor		



# Clip Staple

A Clip Staple system attaches 16mm pipe to a foil faced insulation board (ie. Kingspan or Celotex). It is quick to install whilst offering great flexibility on pipe routing to fit all room shapes.



Clip Staple is a very simple and cost effective installation method offering flexibility on pipe routing to suite all room shapes. This system achieves excellent heat output because pipe is laid directly onto a foil covered insulation board and the concrete/screed acts as a conductor and energy store projecting the heat up into the floor covering over a prolonged period.



## Pipework Layout Suitability



### Installer benefits

- Quick & easy installation
- Flexibility of pipe routing and spacing



### Homeowner benefits

- Excellent heat output
- Suitable for all floor coverings
- No increase to floor height
- Cost effective solution



### Floor Heat Output

Tile	★★★★★
Wood	★★★★☆
Carpet	★★★☆☆

Description	UOM
40mm Pipe Staples	300pcs / pk
60mm Pipe Staples	300pcs / pk
Perimeter Edge Insulation 100mm x 5mm x 50m	Each
Pipe Tacker Gun	Each

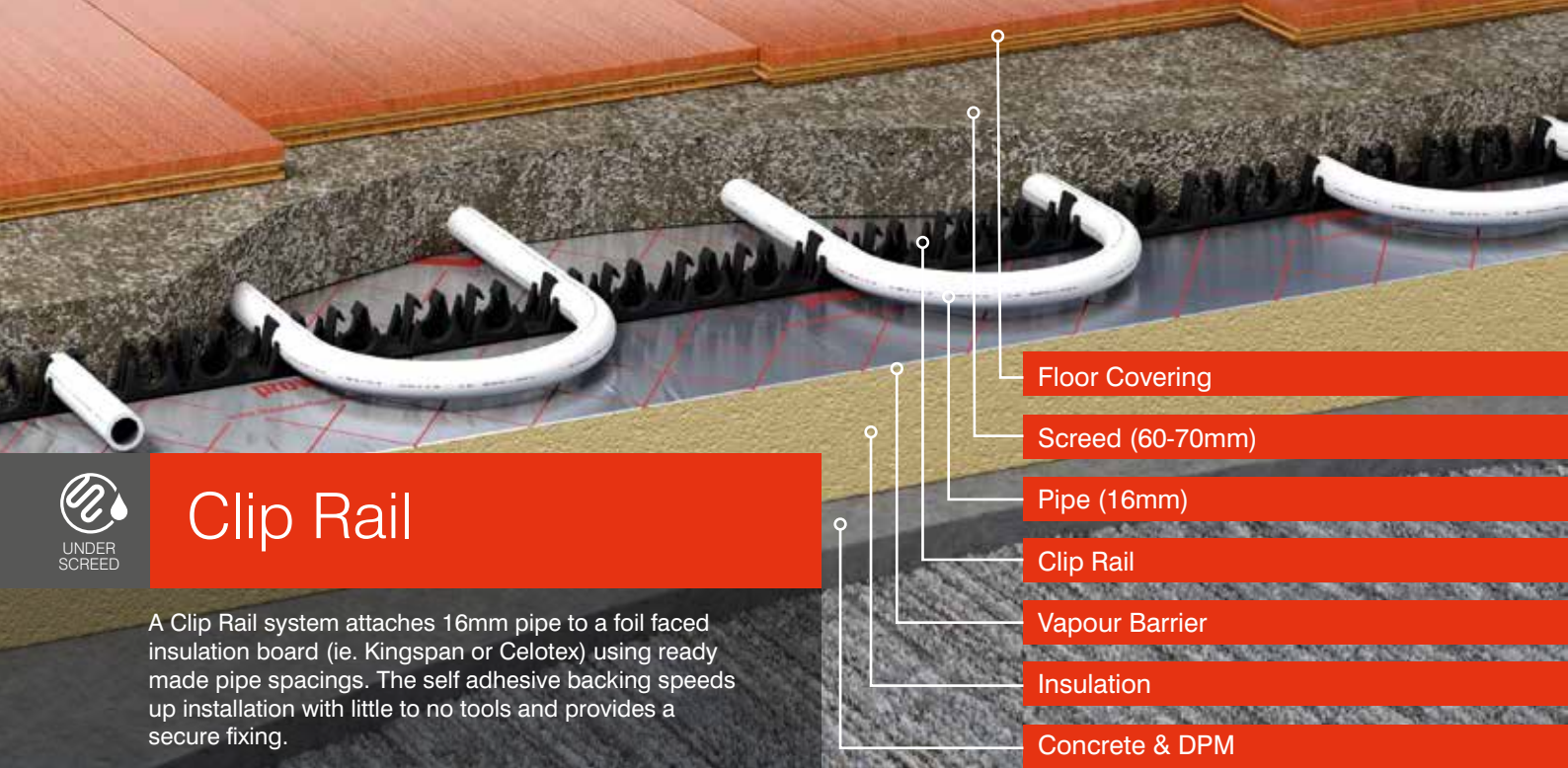


Request a quotation early in your project. Our ProWarm™ Design Consultants can help select the most appropriate system, which will speed up the installation, reduce costs and provide a better heat output.



### Installation video

Scan QR code to watch this installation video giving you step-by-step guidance for a successful installation.



## Clip Rail

A Clip Rail system attaches 16mm pipe to a foil faced insulation board (ie. Kingspan or Celotex) using ready made pipe spacings. The self adhesive backing speeds up installation with little to no tools and provides a secure fixing.

Floor Covering

Screed (60-70mm)

Pipe (16mm)

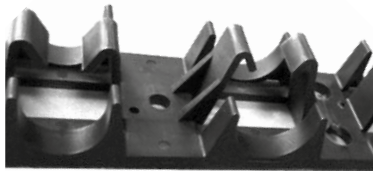
Clip Rail

Vapour Barrier

Insulation

Concrete & DPM

Clip Rail is a very simple and cost effective installation method. The self adhesive backed strip with regular pipe spacings enables a quick installation process saving time and money. This system achieves excellent heat output because pipe is laid directly onto a foil covered insulation board and the concrete/screed acts as a conductor and energy store projecting the heat up into the floor covering over a prolonged period.



### Installer benefits

- ✓ Quick & easy installation
- ✓ Regular pipe spacings
- ✓ Self adhesive backed rails



### Homeowner benefits

- ✓ Excellent heat output
- ✓ Suitable for all floor coverings
- ✓ No increase to floor height
- ✓ Cost effective solution

### Pipework Layout Suitability



### Floor Heat Output

Tile	★★★★★
Wood	★★★★☆
Carpet	★★★☆☆

#### Description

1m Clip Rail with adhesive backing

Perimeter Edge Insulation 100mm x 5mm x 50m



Installing underfloor heating within a concrete / screed floor creates a storage heat effect. The screed floor absorbs and stores the heat reducing the demand on the heating system, thus saving energy.



### Installation video

Scan QR code to watch this installation video giving you step-by-step guidance for a successful installation.





## ProCrate

The ProCrate system is ideal when pipes cannot be fixed into insulation. The pipe can be easily clipped into place using the ready-made pipe spacings. The ProCrate is self adhesive backed to provide a secure floor fixing.

Floor Covering

Screed (60mm)

Pipe

ProCrate

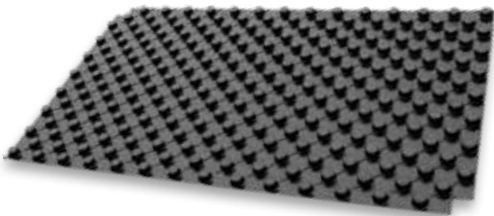
Vapour Barrier

Insulation

Concrete & DPM

ProCrate floor panels are easily cut to the room shape forming a simple grid for the quickest possible pipe laying with a precise guide for minimum bending radius. The pipe is securely set at the required centres preventing movement when screeding.

This system achieves an excellent heat output as the pipe is installed above foil faced insulation and the concrete/screed acts as a conductor and energy store projecting the heat up into the floor covering over a prolonged period.



### Pipework Layout Suitability



### Installer benefits

- ✓ Quick & easy installation
- ✓ Ready made pipe spacings
- ✓ Self adhesive backed crate



### Homeowner benefits

- ✓ Excellent heat output
- ✓ Suitable for all floor coverings
- ✓ No increase to floor height
- ✓ Cost effective solution



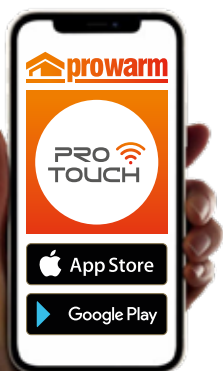
### Floor Heat Output

Tile	★★★★★
Wood	★★★★☆
Carpet	★★★☆☆

#### Description

ProCrate -1450mm x 850mm x 21mm (for use with 14-17mm) pipe

Perimeter Edge Insulation 100mm x 5mm x 50m



**TOP TIP**

Upgrade to ProWarm™ ProTouch Wifi (only £74.99 ex vat) allowing you to control your heating system from your mobile or tablet anywhere in the world. See page 31

## Over Existing Floors

If you are approaching a major renovation or extension, our LoFlo™ overlay range makes it possible to install a low profile water underfloor heating system over your existing floor. Our overlay range uses pre routed flooring panels with a minimal increase to the floor height.

- ✔ Simple to install. No screeding or levelling compounds are required, lay the flooring panels over existing floor and apply your flooring finish over the top.
- ✔ Cost effective to run. Water underfloor heating is an efficient way to provide an even distribution of heat across the entire floor area.
- ✔ Suitable for all floor coverings
- ✔ 15-20mm increase to floor height

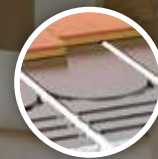
### Which Over Existing Floor system to choose?

ProWarm™ supply 2 overlay systems: LoFlo™ Max and LoFlo™ Lite. The following information is useful to help identify the most appropriate system for your project. More information about each product is available in the following pages.

### 2 systems to choose from:



LOFLO™ Max



LOFLO™ Lite

Installation	Quick & simple overlay panel	
Suitable project types	New build, extension and retro-fit. Ground or upper floor levels	
Suitable floor coverings	All floor coverings types	Wood / Tile
Ideal for rooms with the following shape	Regular	Regular
Ready-made pipe spacing	Yes	Yes
Suitable screed types	No screed required	
Additional levelling compound required	Not required	
Available in low profile	Yes	Yes
Pipe options	10mm / 12mm	12mm / 16mm
Floor height elevation	15mm / 18mm	16mm / 20mm
Lay floor directly onto the underfloor heating	Yes, directly onto panels	

LOW PROFILE SYSTEM



# LoFlo™ Max Panels

The LoFlo™ Max is a low profile system that utilises a 10mm or 12mm ProWarm™ pipe within pre routed high density dry screed boards laid directly onto existing subfloor. Our patented LoFlo End Return offers a secure housing for the pipe and flexibility for pipe routing.

- Tile Floor Covering
- Tile Adhesive
- Pipe
- LoFlo™ Max Panels (15mm or 18mm)
- Warm Panels End Support
- On top of Existing Subfloor

LoFlo™ Max is a low profile solid floor system that will increase floor height by as little as 15-18mm. The dry screed board acts as a heat conducting surface transferring heat from the pipe to the floor covering achieving excellent heat output.



Pipework Layout Suitability



### Installer benefits

- ✓ Quick & easy installation
- ✓ Ready made pipe spacings
- ✓ Robust floor panel



### Homeowner benefits

- ✓ Excellent heat output
- ✓ Suitable for all floor coverings
- ✓ 15-18mm increase to floor height
- ✓ Cost effective retro fit solution



### Floor Heat Output

Tile	★★★★★
Wood	★★★★☆
Carpet	★★★☆☆

Description	Dimensions	Pipe Suitability
15mm LoFlo Max Panel	800mm x 600mm x 15mm	10mm Pipe
18mm LoFlo Max Panel	800mm x 600mm x 18mm	12mm Pipe
15mm End Support	300mm x 320mm x 15mm	10mm Pipe
18mm End Support	300mm x 320mm x 18mm	12mm Pipe
LoFlo Max Jointing Glue	310ml Tube	-



**Low Profile**  
Minimal impact on floor height

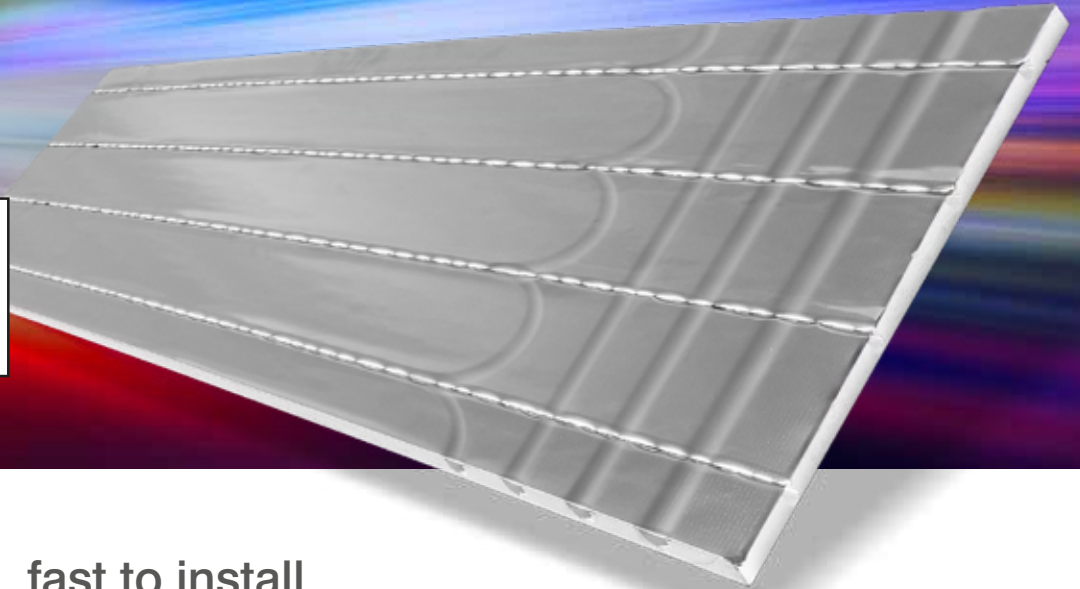
**TOP TIP** LoFlo™ Range increases the floor height by as little as 15-20mm. Perfect for a renovation project.

HOT  
PRODUCT



# DUAL PURPOSE OVERLAY


✓ for Tiled floors  ✓ for Wood floors 




## Lite to handle, fast to install

ProWarm™ LoFlo™ Lite is simple, quick to install and a cost effective overlay system offering a standard and low profile option. The system is designed to overlay existing floors and is suitable for tile and wood floor coverings with no requirement for screeds or levelling compounds.

The system achieves excellent heat output from the high density 400 EPS insulation boards covered with an aluminium foil to project the heat into the floor covering and distribute the heat evenly.

 For tiled floor Coverings

 For wood floor Coverings

## Features & benefits

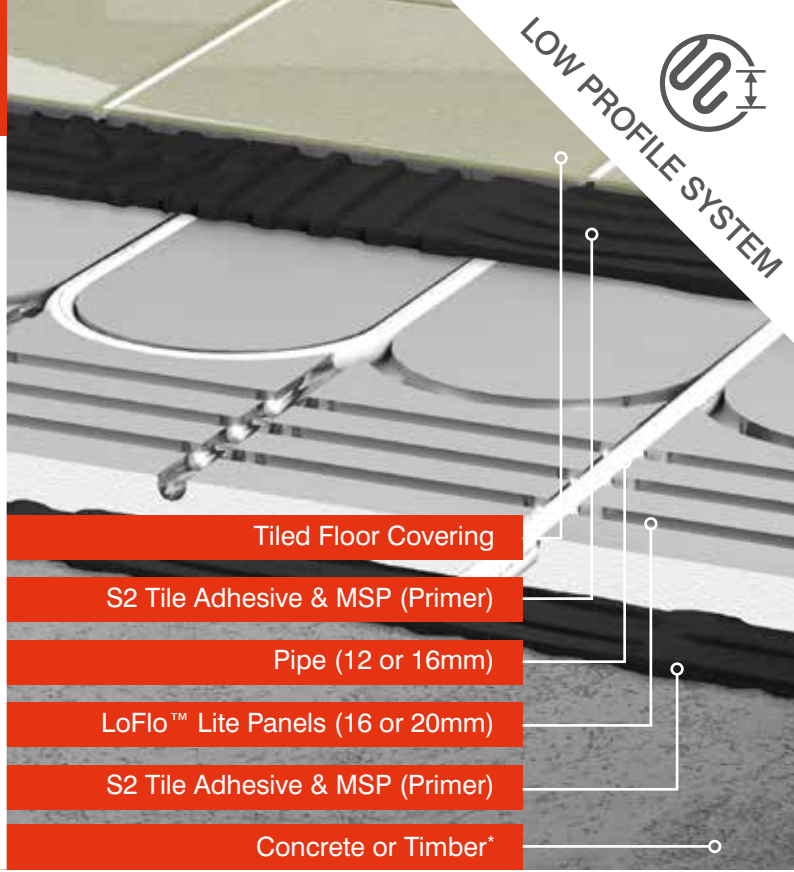
- ✓ Provides ready-made pipe securing & spacing using pre grooved insulated boards
- ✓ High compressive strength insulation, for the direct application of engineered wood floors
- ✓ Offers a combined floating floor and underfloor heating solution
- ✓ Typical outputs up to 122w/m<sup>2</sup>
- ✓ 600 x 1200 x 20mm (for 16mm pipe)
- ✓ 600 x 1200 x 16mm (for 12mm pipe)



Scan QR code to watch this installation video giving you step-by-step guidance for a successful installation.

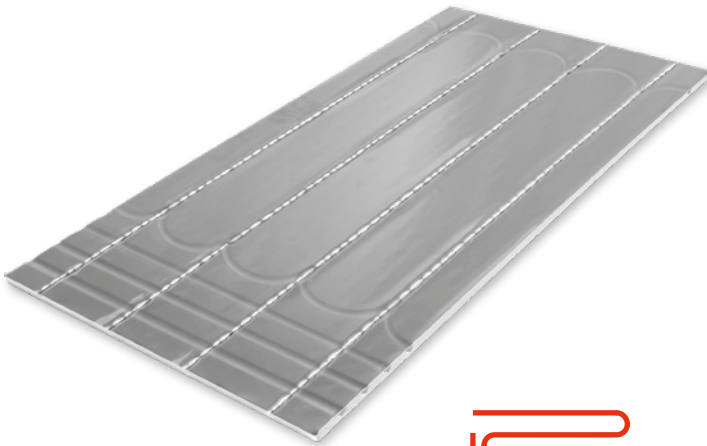


 Installation video for wood floors



\*For Timber floor Screws and washers are also required

ProWarm™ LoFlo™ Lite panels utilise high compressive strength through expanded polystyrene, with a high tech aluminium foil covering. This acts as a heat conducting surface to transfer the heat from the pipes to the finished floor above.



Pipework Layout Suitability



### Installer benefits

- ✓ Quick & easy
- ✓ Pre routed board
- ✓ Robust floor panel (400 EPS)
- ✓ Lay the floor directly onto the board



### Homeowner benefits

- ✓ Excellent heat output
- ✓ Suitable for wood & tile floor coverings
- ✓ 16-20mm increase to floor height
- ✓ Cost effective retro fit solution



### Floor Heat Output

- Tile ★★★★★
- Wood ★★★☆☆
- Carpet ★★★★★

Description	Pipe Suitability
LoFlo LITE - 600mm x 1200mm x 20mm	16mm Pipe
LoFlo LITE - 600mm x 1200mm x 16mm	12mm Pipe
ULTRA ProFlex S2 - Flexible Fibre Reinforced Tile Adhesive (Grey)	-
Ultra MSP (Multi Surface Primer) 5Ltr	-



**Low Profile**  
Minimal impact on floor height



LoFlo Lite is a light weight superior grade polystyrene insulation panel simplifying the installation process.

## Between Joists / Suspended Floors

If you are considering underfloor heating upstairs, then your first decision is do you select an overlay system, which would increase your floor height by 15-20mm or a between joist / suspended floor system, which would not increase floor height.

ProWarm™ offer a range of systems to suit between joists / suspended floors designed to suit the circumstances of your project, which may be a retro fit or new build.

### Which Between Joists to choose?

ProWarm™ supply 3 between joist / suspension floor systems. The following information is useful to help identify the most appropriate system for your project. More information about each product is available in the following pages.

### 3 systems to choose from:



**SPREADER / HEAT PLATE SYSTEM**



**PRO FLOOR SYSTEM**



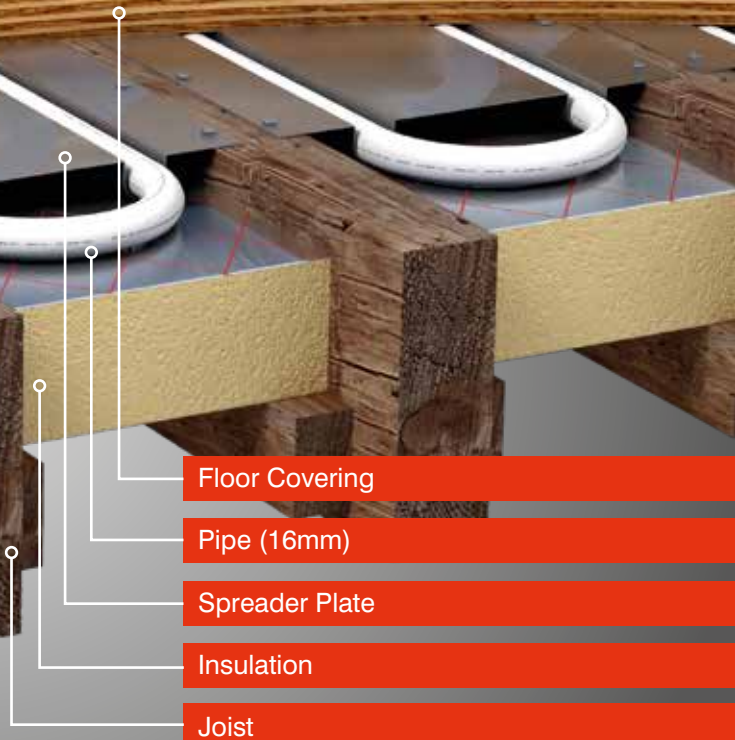
**IN JOIST FOIL BOARDS**

Installation	Quick & simple		
Suitable project types	New build and extension. Typically upper floor levels		
Suitable floor coverings	Suitable for all floor coverings types		
Ideal for rooms with the following shape	Regular		
Ready-made pipe spacing	Yes	Yes	Yes
Suitable screed types	No screed required		
Additional levelling compound required	Not required		
Available in low profile	Not available		
Pipe options	16mm		
Floor height elevation	No increase to floor height		
Lay floor directly onto the underfloor heating	Floor covering layed over floorboards	Yes, acts as the structural floor board.	Floor covering layed over floorboards



# Spreader Plates

Spreader plates are simple and quick to install. The aluminium plate is fixed to the joists with nails, screws or clips. Pipe is then laid into the pre routed grooves and the floor boards are then placed directly on top.



Floor Covering

Pipe (16mm)

Spreader Plate

Insulation

Joist

Spreader plates are an easy and cost effective method to installing underfloor heating into an existing suspended floor.

The aluminium spreader plate evenly distributes the heat across the floor, whilst the insulation projects the heat up into the room.



Pipework Layout Suitability



## Installer benefits

- ✓ Quick & easy installation
- ✓ Ready made pipe spacings



## Homeowner benefits

- ✓ Cost effective retro fit solution
- ✓ Suitable for all floor coverings
- ✓ No increase to floor height



## Floor Heat Output

Tile	★★★★★
Wood	★★★★★
Carpet	★★★★★

Description	Dimensions	Pipe Centers
2 Groove Spreader Plate	390mm x 1000mm x 0.3mm	200mm
3 Groove Spreader Plate	390mm x 1000mm x 0.3mm	133mm

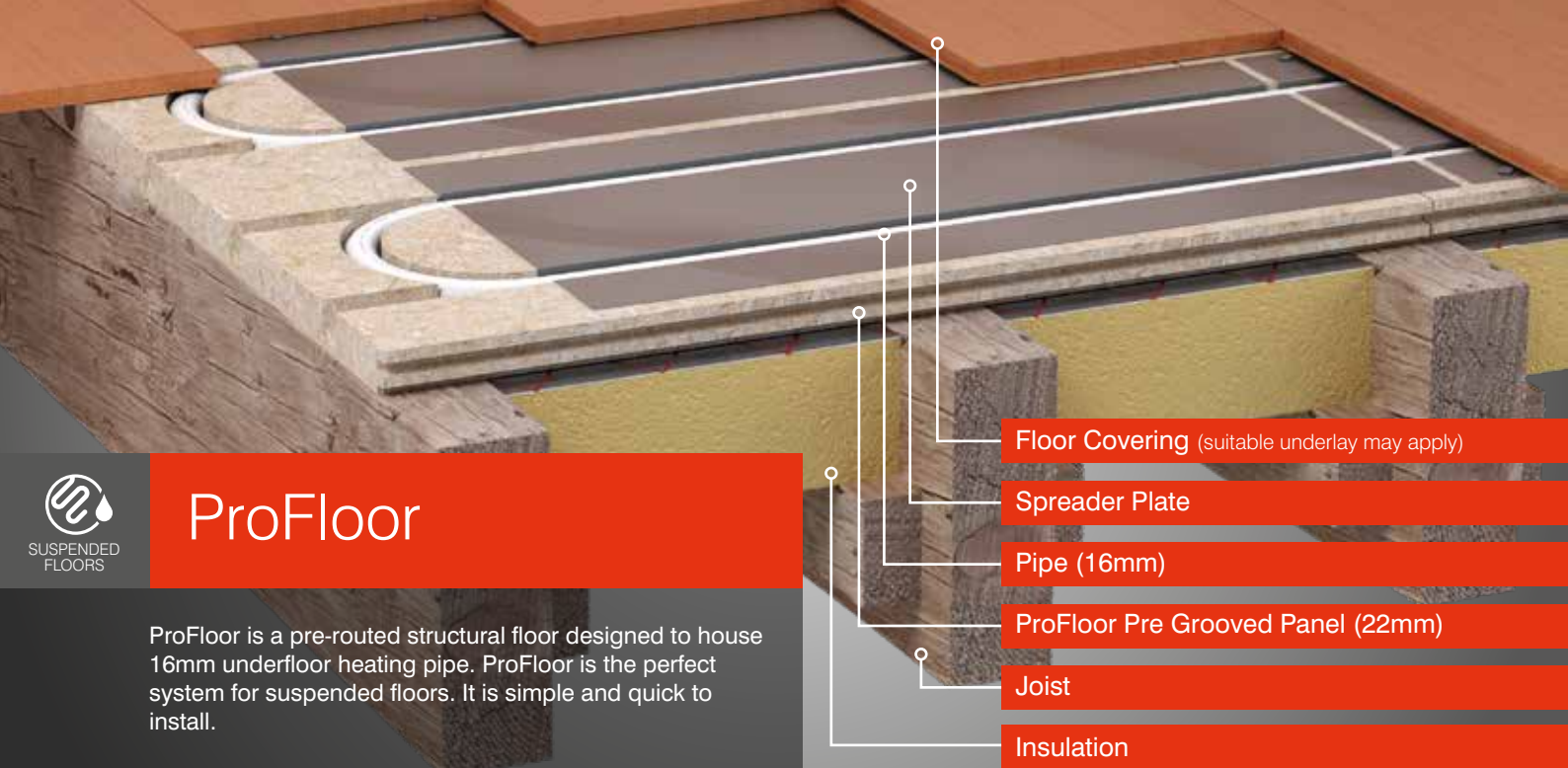


An aluminium face to the floor panel conducts the heat from the pipe to spread the heat more evenly across the floor covering. This increases efficiency and reduces the likelihood of cold floor areas.



## Installation video

Scan QR code to watch this installation video giving you step-by-step guidance for a successful installation.



# ProFloor

ProFloor is a pre-routed structural floor designed to house 16mm underfloor heating pipe. ProFloor is the perfect system for suspended floors. It is simple and quick to install.

The pipe is laid directly in the pre-routed floor board on an aluminium spreader plate projecting the heat up directly into the floor covering thus creating the highest heat output of all our between joists / suspended floor systems.



Used with our 2 Groove Spreader Plate (200mm centres)

## Pipework Layout Suitability



### Installer benefits

- ✓ Quick & easy installation
- ✓ Ready made pipe spacings
- ✓ No additional levelling compound required, therefore no drying time
- ✓ Board operates as a structural floor



### Homeowner benefits

- ✓ Excellent heat output
- ✓ Suitable for all floor coverings
- ✓ No increase to floor height
- ✓ Board operates as a structural floor



### Floor Heat Output

- Tile ★★★★★
- Wood ★★★★★
- Carpet ★★★★★

Description	Dimensions	Pipe Centers
ProFloor Straight Panel	600mm x 1200mm x 22mm	200mm
ProFloor End Return Panel	600mm x 800mm x 22mm	200mm
2 Groove Spreader Plate	390mm x 1000mm x 0.3mm	200mm
ProFloor wood glue	-	-
ProFloor Pozi Screws	-	-



Our ProFloor board is an all encompassing P5/ P6 grade structural floor panel with pre routed grooves to house the underfloor heating pipe.





# Foil Boards

Foil Boards are laid on to fixed batons to the sides of the joists (about 50mm from the top of the joist). The pipes can then be laid directly into the grooves, designed for 400mm centred Joists.

Floor Covering

Joist

Pipe (16mm)

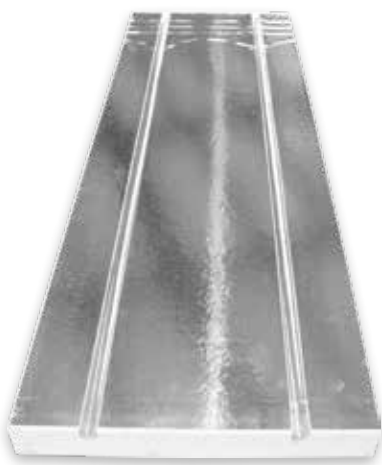
Foil board

These unique boards combined the idea of both the spreader plate and insulation in one system, the 50mm thick EPS insulation panel has the grooves pre formed in them at 200mm centres the whole board is then covered with an aluminium foil designed to dissipate the heat evenly over the floor above.



### Installer benefits

- ✓ Quick & easy installation
- ✓ Ready made pipe spacings



### Pipework Layout Suitability



### Homeowner benefits

- ✓ Cost effective retro fit solution
- ✓ Suitable for all floor coverings
- ✓ No increase to floor height



### Floor Heat Output

- Tile ★★★★★
- Wood ★★★★★
- Carpet ★★★★★

Description	Dimensions	Pipe Centers
In joist/Batten Panels	1200mm x 350mm x 50mm	200mm



ProWarm™ offer a choice of underfloor heating pipe to meet installer preferences. ProWarm™ pipes include up to a 50 year pipe warranty. See T&Cs at [www.prowarm.com](http://www.prowarm.com)



## PERT-AL-PERT

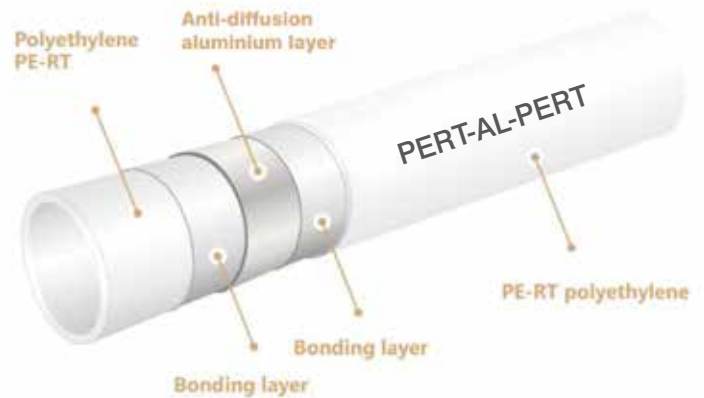
ProWarm™ PERT-AL-PERT Underfloor Heating Pipe is an ultra-high quality, safe and reliable European manufactured product with a 50 year pipe warranty. The pipe consists of; polyethylene raised temperature inner; a central core of aluminium alloy which also acts as an oxygen barrier, and Polyethylene raised temperature outer layer (PERT).

The layers of adhesive bind the inner and outer polyethylene layers to the central core of aluminium alloy oxygen barrier layer, by a thermal reaction. The oxygen barrier layer is right in the centre of the pipe wall which prevents it being damaged from foot traffic during installation.



## Features & benefits

- ✓ Flexible premium pipe
- ✓ Made with fully recycled materials
- ✓ Raised temperature polyethylene
- ✓ High heat output
- ✓ Holds its shape when bent
- ✓ Oxygen barrier
- ✓ Tight bending radius
- ✓ 50 Year warranty



Description	Coil Size	Pipe Diameter
PERT-AL-PERT MULTI-LAYER PIPE 16mm x 2.0mm	50m	16mm
PERT-AL-PERT MULTI-LAYER PIPE 16mm x 2.0mm	60m	16mm
PERT-AL-PERT MULTI-LAYER PIPE 16mm x 2.0mm	70m	16mm
PERT-AL-PERT MULTI-LAYER PIPE 16mm x 2.0mm	80m	16mm
PERT-AL-PERT MULTI-LAYER PIPE 16mm x 2.0mm	90m	16mm
PERT-AL-PERT MULTI-LAYER PIPE 16mm x 2.0mm	100m	16mm
PERT-AL-PERT MULTI-LAYER PIPE 16mm x 2.0mm	110m	16mm
PERT-AL-PERT MULTI-LAYER PIPE 16mm x 2.0mm	120m	16mm
PERT-AL-PERT MULTI-LAYER PIPE 16mm x 2.0mm	150m	16mm
PERT-AL-PERT MULTI-LAYER PIPE 16mm x 2.0mm	200m	16mm
PERT-AL-PERT MULTI-LAYER PIPE 16mm x 2.0mm	500m	16mm

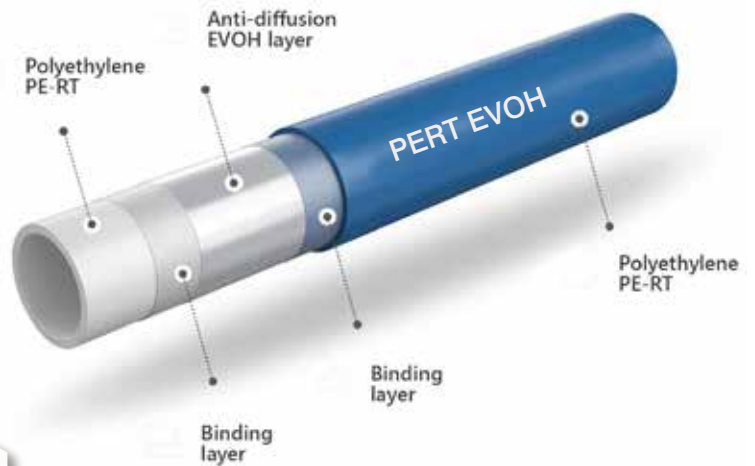
## PERT EVOH PERT

ProWarm™ multilayer pipe PE-RT/EVOH/PE-RT is designed and manufactured for surface heating/cooling systems. Thanks to its flexibility and high performance, the pipe is ideal for manifold systems.

The inner and outer pipes are made of Type II PE-RT. The anti-diffusion EVOH layer prevents oxygen ingress. Thanks to its 5-layer design, the EVOH barrier is protected against environmental conditions such as water seepage and mechanical damage. Made entirely of plastics, the pipe has a uniform structure, which makes it durable, corrosion-resistant, and non-reactive with metals.

## Features & benefits

- ✓ Ultra flexible pipe
- ✓ Oxygen barrier
- ✓ Max working pressure 6bar
- ✓ Max temperature 70degc
- ✓ Low cost
- ✓ 10 Year warranty



Description	Coil Size	Pipe Diameter
PERT EVOH PERT PIPE 16mm x 2mm	80m	16mm
PERT EVOH PERT PIPE 16mm x 2mm	100m	16mm
PERT EVOH PERT PIPE 16mm x 2mm	110m	16mm
PERT EVOH PERT PIPE 16mm x 2mm	200m	16mm

## PEX-AL-PEX

ProWarm™ PEX-AL-PEX Underfloor Heating Pipe is an ultra-high quality, safe and reliable European manufactured product with a 50 year pipe warranty. The pipe consists of; cross linked polyethylene inner, a central core of aluminium alloy which also acts as an oxygen barrier, another layer of adhesive is then added before another layer of cross linked polyethylene.

The layers of adhesive bind the two layers of cross linked polyethylene to the central core of aluminium alloy oxygen barrier layer by a thermal reaction; the oxygen barrier layer is right in the centre of the pipe wall which prevents it being damaged from foot traffic during installation.



## Features & benefits

- ✓ WRAS approved premium pipe
- ✓ Made with fully recycled materials
- ✓ Crosslinked polyethylene
- ✓ High heat output
- ✓ Holds its shape when bent
- ✓ Oxygen barrier
- ✓ Tight bending radius
- ✓ 50 Year warranty



Description	Coil Size	Pipe Diameter
PEX-AL-PEX MULTI-LAYER PIPE 12mm x 1.8mm	50m	12mm
PEX-AL-PEX MULTI-LAYER PIPE 12mm x 1.8mm	80m	12mm

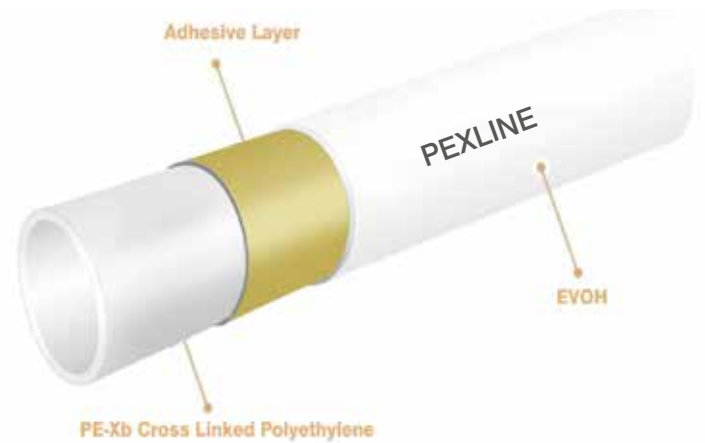
## PEXLINE

ProWarm™ PEXLINE Underfloor heating pipe is an ultra-high quality, safe and reliable European manufactured product with a 50 year pipe warranty. The pipe consists of; cross linked polyethylene; EVOH gas-diffusion oxygen barrier and cross linked polyethylene.

The layers of adhesive bind the two layers of cross linked polyethylene to the central oxygen barrier layer by a thermal reaction. The oxygen barrier layer is right in the centre of the pipe wall which prevents it being damaged from foot traffic during installation.

## Features & benefits

- ✓ Crosslinked polyethylene
- ✓ Max working pressure 10bar
- ✓ Max temp 100degc
- ✓ Ultra flexible pipe
- ✓ Oxygen barrier
- ✓ 50 Year warranty



Description	Coil Size	Pipe Diameter
PEXLINE 3 LAYER PIPE 10mm x 1.3mm	60m	10mm

## ProWarm™ Manifolds

ProWarm™ underfloor heating manifolds distribute the primary warm heating water from your boiler, heat pump, buffer tank or thermal store evenly into each underfloor heating circuit, if there is a demand for heat within that relevant zone. ProWarm™ underfloor heating manifolds are available from 2-12 ports and are manufactured from high grade 304 stainless steel installation and commissioning couldn't be any simpler. \*Manifolds are supplied individually with multiple options for isolation ball valves and fill/drain valves. Each individual circuit can

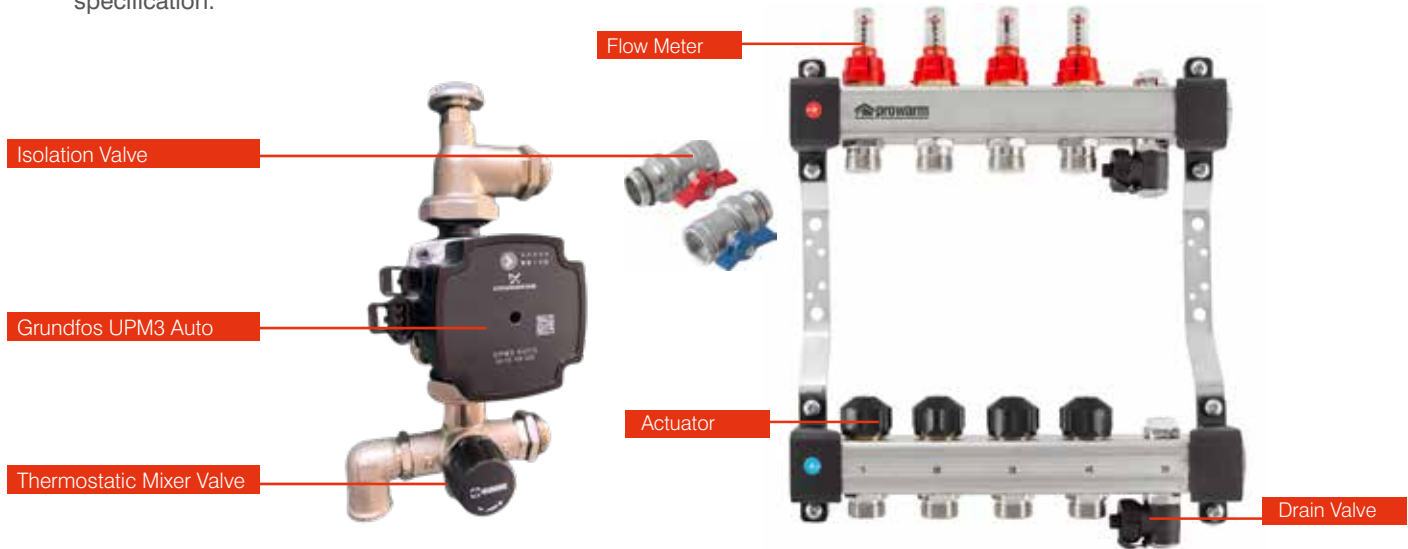
be isolated without disruption to the balancing setting, the manifold also incorporates market leading Taconova flow meters, individual circuit isolating valves and wall mounting brackets.

ProWarm™ dedicated UFH technical & sales division can provide detailed manifold specifications according to bespoke design requirements.

\* Isolation and filling / draining valves sold separately.

## Features & benefits

- ✔ High Quality produced product manufactured to BS EN 1264-4.
- ✔ ProWarm™ manifolds come with a 10 year warranty.
- ✔ Available in various sizes for any design type or specification.
- ✔ Main body produced from high grade 304 stainless steel.
- ✔ Patented pipe connections for various pipe types and sizes.
- ✔ No scheduled maintenance.



Description	Dimensions	Weight
2 Port Manifold	342mm x 276mm x 90mm	4.11 Kg
3 Port Manifold	342mm x 326mm x 90mm	4.60 Kg
4 Port Manifold	342mm x 376mm x 90mm	5.09 Kg
5 Port Manifold	342mm x 426mm x 90mm	5.57 Kg
6 Port Manifold	342mm x 476mm x 90mm	6.25 Kg
7 Port Manifold	342mm x 526mm x 90mm	6.79 Kg
8 Port Manifold	342mm x 576mm x 90mm	7.28 Kg
9 Port Manifold	342mm x 626mm x 90mm	7.63 Kg
10 Port Manifold	342mm x 676mm x 90mm	8.39 Kg
11 Port Manifold	342mm x 726mm x 90mm	8.87 Kg
12 Port Manifold	342mm x 776mm x 90mm	9.29 Kg

## ProWarm™ 230v Actuator

With their sophisticated engineering, first-rate reliability and high-quality design, the ProWarm™ actuator boasts an impressive low energy consumption of just 1 watt per actuator. The normally closed actuator has a 4mm stroke and is suitable for use with all our manifolds and wiring centres.

## ProWarm™ Manifold Control Kit

The ProWarm™ underfloor heating control pack provides safe temperature controlled mixed water to an underfloor heating system with a heat output up to 14KW. Designed to be lightweight and compact in order to connect directly onto a standard manifold without the need for extra brackets or supports. The Control Pack consists of a temperature mixing valve; an A rated high efficiency Grundfos circulator, return elbow, manifold adapters and all necessary seals. ProWarm™ dedicated underfloor heating technical and sales teams can provide detailed specifications according to bespoke design requirements.

## Features & benefits

- ✓ A rated high efficiency Grundfos circulator as standard for lower energy use and running cost.
- ✓ High Quality produced product manufactured to BS EN 1264-4, Nickel plated to match stainless steel manifold.
- ✓ Compact bolt on unit providing quick and simple installation.
- ✓ For Space heating applications up to 14KW
- ✓ Easy set up within the adjustable range of 25°C to 60°C.
- ✓ Controls flow temperature to +/- 2°C even with changing boiler flow and return temperatures.
- ✓ Flow and return connections can be adjusted to enter from horizontal or vertical.
- ✓ No scheduled maintenance.



Description
Grundfos Manifold Pump & ESBE Mixing Valve Unit
230v 2 Wire Thermal Actuator
Filling / Draining Valve Pair
Filling / Draining Valve Pair w/ Auto Air Vents
Ball (Isolation) Valve Pair
Ball (Isolation) Valve Pair w/ Temperature Gauge
Manifold Extension Coupling Pair
Manifold Brass Blanking Cap
Manifold Flow Meter

## ProWarm™ single room control & mixing pack

The ProWarm™ single room underfloor heating control pack provides safe temperature controlled mixed water to an underfloor heating system with a heat output up to 3KW, a perfect solution for retro fitting underfloor heating into an additional room or conservatory.

### Features & benefits

- ✔ A rated high efficiency Grundfos circulator as standard for lower energy use and running cost.
- ✔ High Quality produced product manufactured to BS EN 1264-4.
- ✔ Compact bolt on unit providing quick and simple installation.
- ✔ For space heating applications up to 3KW.
- ✔ Easy set up within the adjustable range of 35°C to 65°C.
- ✔ Controls flow temperature to +/-2°C even with changing boiler flow and return temperatures.
- ✔ No scheduled maintenance.

Designed to be lightweight and compact in order to connect directly onto pipe work without the need for extra brackets or supports. The Control Pack consists of a temperature mixing valve; an A rated high efficiency Grundfos circulator, isolation valves, flow and return connections and fixing kit. ProWarm™ dedicated Underfloor Heating technical and Sales teams can provide detailed specifications according to bespoke design requirements. Single room mixer packs require a dedicated flow and return.



#### Description

Grundfos Single Circuit Pump & ESBE Mixing Valve Unit

### Manifold Accessories

#### Description

12mm Euroconus Fitting Pack x 1/2" Male Iron

16mm x 1/2" Male Iron Pump Connector

22mm 2 port Motorised valve





## Pipe Fittings & Accessories

Description
<b>Euroconus Fittings</b>
3/4 Double Nipple (Body)
10mm x 1.3mm Eurocone Connector
12mm x 1.8mm Eurocone Connector
15mm x 2mm Eurocone Connector
15mm Nut and Rubber insert
16mm x 2mm Eurocone Connector
<b>Pipe Leading Bends to Manifold</b>
Pipe leading bend to manifold - 10-12mm pipe
Pipe leading bend to manifold - 14-18mm pipe
<b>Tools</b>
Pipe De-coiler
Pipe Tacker Gun
Pipe Rounding Tool
Rothenberger Pressure Tester
Pipe Cutter



## Underfloor heating controls

An underfloor heating system is controlled via wiring centre and a thermostat. At ProWarm™ we provide a wide variety of controls to fit every scenario, whether it is WiFi, wired or wireless. We will advise you at every stage of the project and deliver a control solution to fit every application.

### Stylish room thermostats

ProWarm™ offer a wide range of thermostats including electronic dial type, button, touch-screen and WiFi. The majority of our room thermostats are designed to be flush mounted, resulting in a slim profile on the wall after installation.

### Easy to install wiring centres

The ProWarm™ central wiring switch box, has been designed to be used with wired, wireless and networked thermostats.

The Wiring Centre offers the following functionality;

- ✓ Central wiring for up to 8 zones
- ✓ Output for underfloor heating valve and pump, activated when any thermostats calls for heat
- ✓ Output for a single radiator zone
- ✓ Output for domestic hot water
- ✓ Three options available; WiFi, Wireless and Wired

## WiFi controls

### PRO TOUCH Smart Thermostat



- ✓ WiFi Control
- ✓ Double Temperature Control
- ✓ Programmable
- ✓ Large Screen
- ✓ Professional Design
- ✓ Lifetime Warranty



ProTouch Smart WiFi Thermostat enables control of your underfloor heating via your home WiFi using the easy to use application available on both Android and IOS platforms. Designed to enhance the experience of the end user with a 7-day programmer, optimal start features, multi temperature display and easy to read displays.

Description	Colour
ProTouch WiFi Smart Thermostat	White
ProTouch WiFi Smart Thermostat	Black



## 230v Controls

### DS1 Dial Thermostat

- ✓ Power On & Heat On Indication
- ✓ Single Temperature Control
- ✓ Built In Air Sensor



### Slimline Thermostat

- ✓ Self Learning Preheat
- ✓ Temperature Hold Facility
- ✓ Key Locking
- ✓ Flexible Programming
- ✓ Blue Back Light



### Touchscreen

- ✓ Easy Touch Screen Display
- ✓ Self Learning Preheat
- ✓ Temperature Hold Facility
- ✓ Key Locking
- ✓ Flexible Programming
- ✓ Blue Back Light



### NeoStat Smart Thermostat

- ✓ Networking with NeoHub
- ✓ Easy Navigation
- ✓ Self Learning Preheat
- ✓ App Control



### Wiring Centres

- ✓ Radiator Option
- ✓ Din Rail Mounting
- ✓ Output Indication



Description	For use with
DS1 Dial Thermostat	UH4 / UH8
Slimline Digital Programmable Room Thermostat	UH4 / UH8
Touchscreen	UH4 / UH8
NeoStat - Glacier White	UH4 / UH8
NeoStat - Sapphire Black	UH4 / UH8
NeoStat - Platinum Silver	UH4/UH8
Neo Hub Gen 2	Neo Thermostats
UH4 4 Zone Wiring Centre	230v Thermostats
UH8 8 Zone Wiring Centre	230v Thermostats

## Wireless Controls

### SLIMLINE-RF Programmable Wireless Thermostat

- ✓ Key Lock Facility
- ✓ Self Learning Preheat
- ✓ Temperature Hold Facility
- ✓ Key Locking
- ✓ Remote Air Sensor Connection
- ✓ Compatible with UH8-RF, RF Switch



### NeoAir Wireless Programmable Smart Thermostat

- ✓ Self Learning Preheat
- ✓ Mesh Networking
- ✓ Easy Navigation
- ✓ Remote Air Sensor Connection
- ✓ Wireless Switching to UH8-RF RF Switch



### UH8-RF - Wireless Wiring Centre

- ✓ RF Switch Compatible
- ✓ Slimline-RF, NeoAir and NeoStat Compatible\*
- ✓ Neon Indication
- ✓ Din Rail Mounting

\*When used with NeoHub



### RF SWITCH Two Zone Wireless Receiver

- ✓ Controls 1 Heating Zone
- ✓ 1 Hot Water Zone
- ✓ Pairable With UH8-RF
- ✓ Volt Free Output for the Boiler



Description	For use with
NeoAir - Glacier White	UH8-RF V2 / RF-Switch
NeoAir - Sapphire Black	UH-RF V2 / RF-Switch
NeoAir - Platinum Silver	UH-RF V2 / RF-Switch
NeoHub Gen 2	Neo Thermostats
Slimline RF Programmable Room Thermostat	UH8-RF V2 / RF-Switch
UH8-RF 8 Zone Wiring Centre	Wireless Thermostats
RF Switch Wireless Receiver	Wireless Thermostats

Controls Accessories
ProWarm™ Floor Probe
Remote Sensor Probe Housing
Motorised Valves
22mm 2 port Motorised valve




# electric underfloor heating


## ProWarm™ Underfloor Heating Systems


There are 2 main types of electric underfloor heating systems; loose cables and mats. Loose cables are flexible enough to fit into small or awkward spaces. Heating mats are quicker to install, as they are simply rolled out, making them ideal for covering large areas. Both heating mats and cables are connected to a power supply, via an RCD, and are wired to a thermostat to control the temperature of the floor.

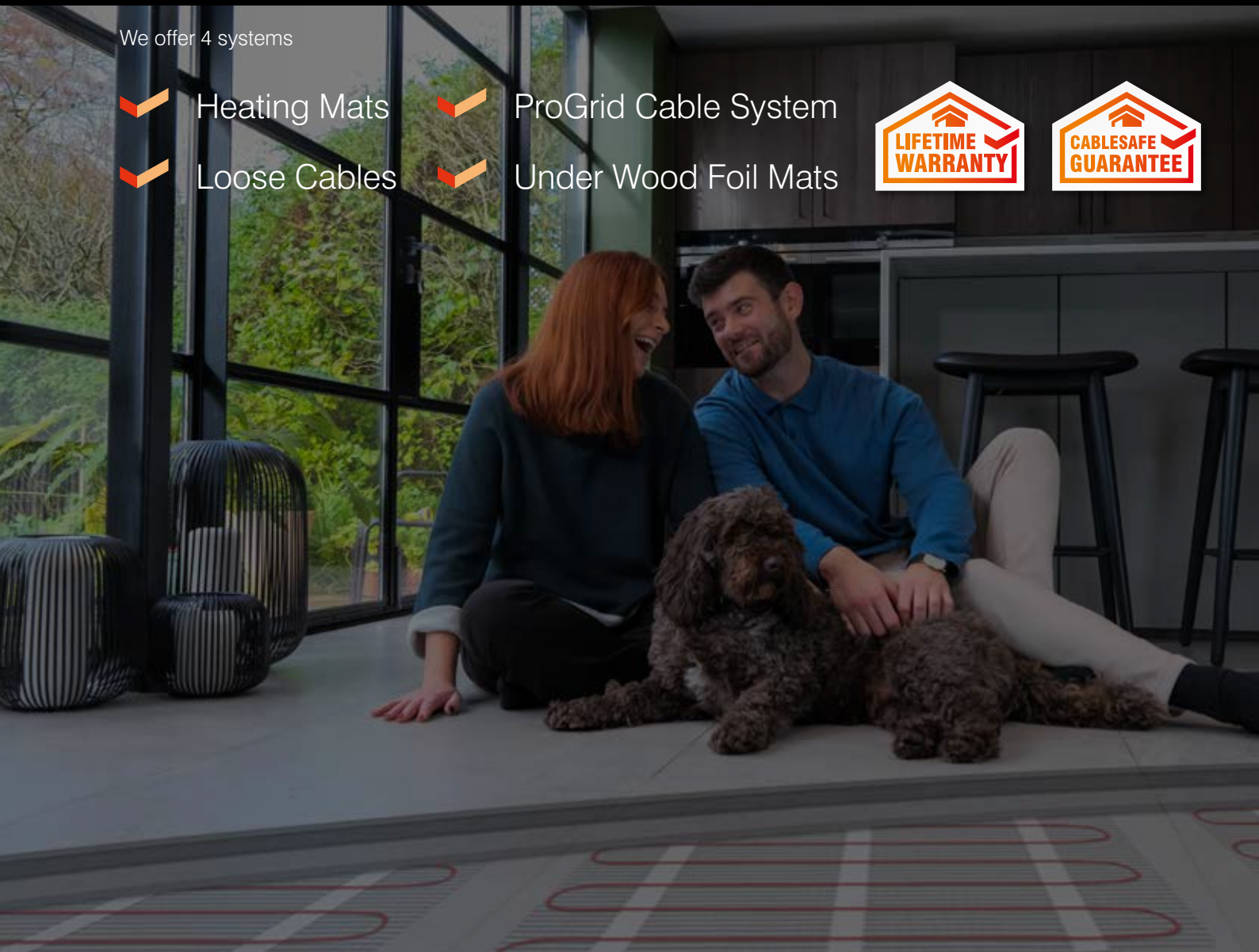
We offer 4 systems

 Heating Mats

 ProGrid Cable System

 Loose Cables

 Under Wood Foil Mats

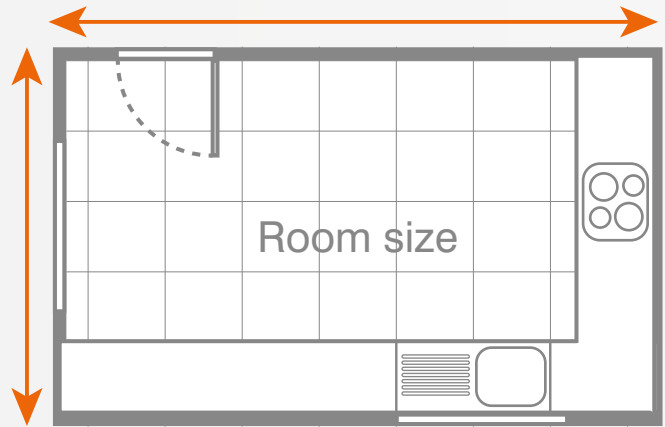


# Calculating the Heating Area

1

## MEASURING ROOM DIMENSIONS

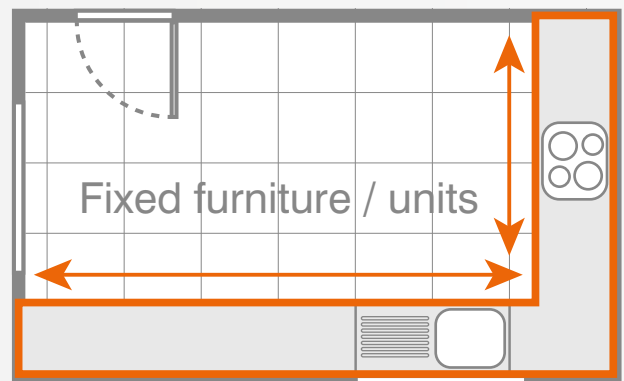
Measure the length and width of your room.



2

## MEASURING UNHEATED AREAS

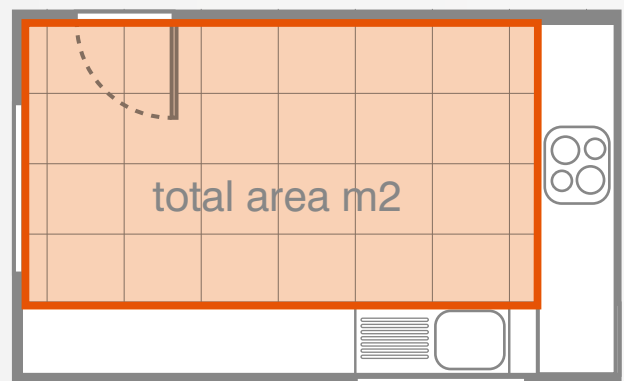
Measure any permanent / fixed furniture items as these will block the heated areas.



3

## CALCULATING TOTAL HEAT AREA

Calculate approximately **10% less** than the total heating area to allow for fitting.





When measuring up for an electric underfloor heating system, care must be taken to correctly size the heat mat/cable as it must not be cut short.

For example

Length (m2)		Width (m2)		Total room size (m2)
5.5	x	4.0	=	22.00

Fixture Length (m2)		Fixture Width (m2)
5.5	x	0.6
3.4	x	0.6

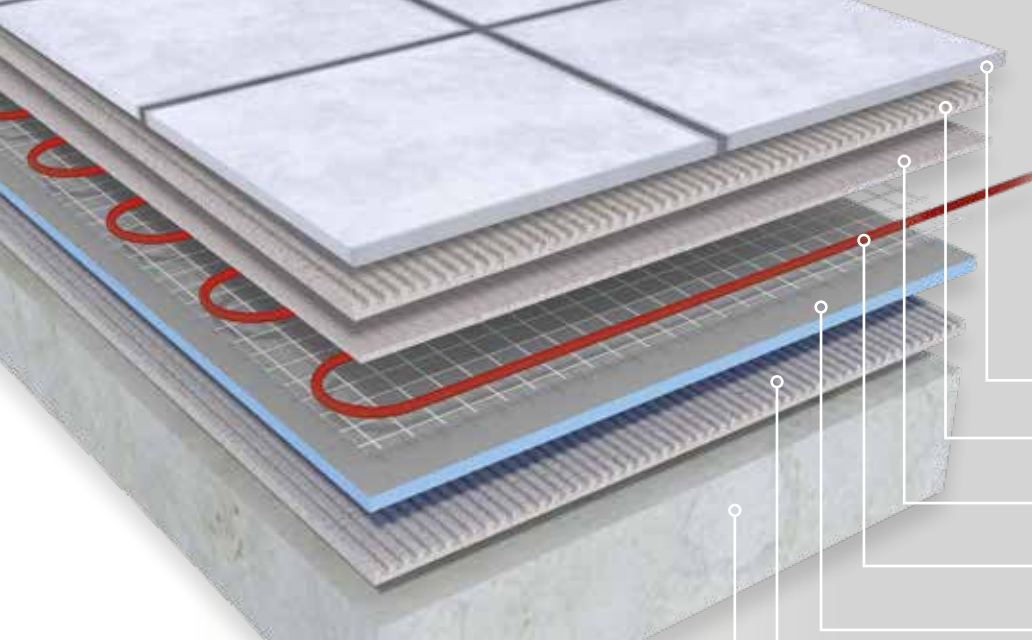
NB: Once you have deducted the furniture sizes from the total floor area you are left with the total heatable floor space. Deduct 10% from this figure to allow for a gap around the perimeter (and to prevent over measuring!!) this will give you the size of the kit, rounding down to the closest suitable kit size.

Space (m2)		Footprint (m2)		Total fitted area (10% deducted)
22.00	-	5.34	=	15.00 m2

This formula shows the basics you need to calculate a system for around 70 -80% of standard installations.

However if the customer is tiling under the bath or the kitchen units then you need to make sure you have enough insulation boards to cover this. (Helping to maintain the same floor height). The same calculation applies to supplying insulation boards as it does tiles.

Total tiled area + 10% wastage = insulation board area



- Flooring
- Flexible adhesive
- Levelling compound (optional - for tiles)
- Heat mat
- Insulation board
- Flexible adhesive
- Subfloor



## Heating Mats

Our ProWarm™ heating mats are simple and trouble free to install. They are suited to large regular shaped areas where their installation will be quicker than loose cable kits.

Our ProWarm™ 2mm mat is our most popular system. It uses exactly the same cable as the loose system except the cable spacing has already been predetermined in our factory. All you need to do is roll the sticky mat out over the floor, until it's used up. The cable can be removed from the mat to shape into any awkward spaces.

This system is ideal for kitchens, lounges, dining rooms and most other areas. It comes in 3 different power outputs, 100w-150w-200w. The mats are 500mm wide but can be cut and turned to suit most shapes, and range from 1m2 to 12m2.

Must be protected via an RCD

### Floor Type Suitability



\*Provided cable is covered in a minimum of 10mm self levelling

## Features & benefits

- ✓ Retro fit over existing floors
- ✓ Easy to install
- ✓ Ideal for large regular shape rooms
- ✓ Minimal effect in floor height
- ✓ Even heat distribution

Available in 3 power options for different scenarios i.e. tile warming or primary heating.

- 100 watt
- 150 watt
- 200 watt



### Installation video

Scan QR code to watch this installation video giving you step-by-step guidance for a successful installation.



ProWarm™ electric underfloor heating systems include a Lifetime Warranty giving you total peace of mind.

See T&Cs at [www.prowarm.com](http://www.prowarm.com)



## 100W MATS

- ✓ 100w mats provide a highly economical floor warming system and are used to cover larger areas. They are not suitable as a primary heating source, only to be used as secondary heating for under tiled floors.

Size m <sup>2</sup>	Description
1	100w 1m <sup>2</sup> mat
1.5	100w 1.5m <sup>2</sup> mat
2	100w 2m <sup>2</sup> mat
2.5	100w 2.5m <sup>2</sup> mat
3	100w 3m <sup>2</sup> mat
3.5	100w 3.5m <sup>2</sup> mat
4	100w 4m <sup>2</sup> mat
4.5	100w 4.5m <sup>2</sup> mat

Size m <sup>2</sup>	Description
5	100w 5m <sup>2</sup> mat
6	100w 6m <sup>2</sup> mat
7	100w 7m <sup>2</sup> mat
8	100w 8m <sup>2</sup> mat
9	100w 9m <sup>2</sup> mat
10	100w 10m <sup>2</sup> mat
11	100w 11m <sup>2</sup> mat
12	100w 12m <sup>2</sup> mat

## 150W MATS

- ✓ 150w mats can be used for most applications and are suitable for use as a primary heating source (providing adequate insulation is in place and sufficient floor area is covered)

Size m <sup>2</sup>	Description
1	150w 1m <sup>2</sup> mat
1.5	150w 1.5m <sup>2</sup> mat
2	150w 2m <sup>2</sup> mat
2.5	150w 2.5m <sup>2</sup> mat
3	150w 3m <sup>2</sup> mat
3.5	150w 3.5m <sup>2</sup> mat
4	150w 4m <sup>2</sup> mat
4.5	150w 4.5m <sup>2</sup> mat

Size m <sup>2</sup>	Description
5	150w 5m <sup>2</sup> mat
6	150w 6m <sup>2</sup> mat
7	150w 7m <sup>2</sup> mat
8	150w 8m <sup>2</sup> mat
9	150w 9m <sup>2</sup> mat
10	150w 10m <sup>2</sup> mat
11	150w 11m <sup>2</sup> mat
12	150w 12m <sup>2</sup> mat

## 200W MATS

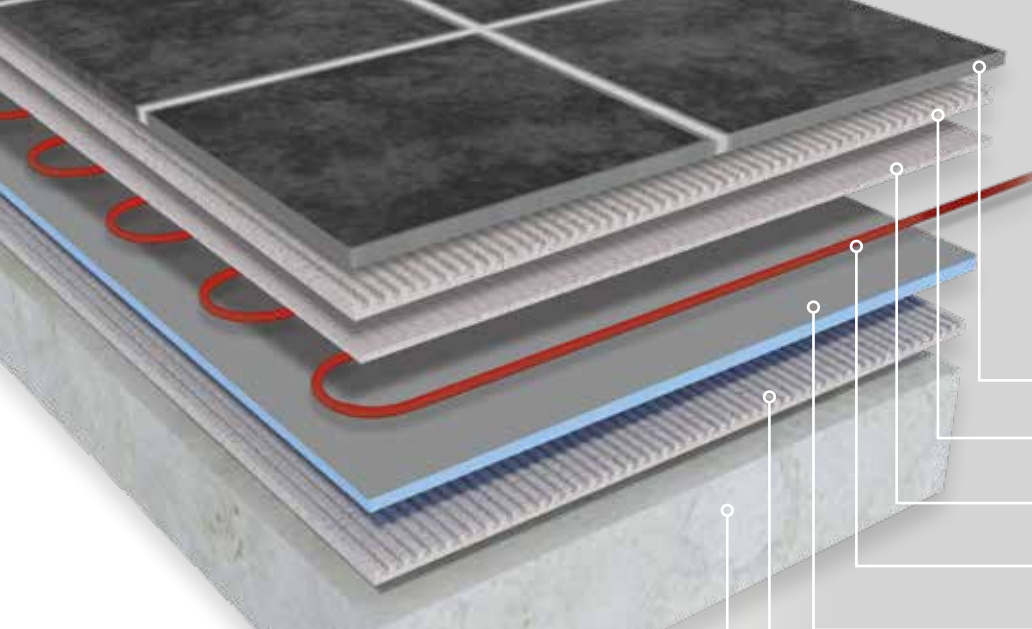
- ✓ 200w mats are normally used in areas of high heat loss such as conservatories. They provide a primary heat source (providing adequate insulation is in place)

Size m <sup>2</sup>	Description
1	200w 1m <sup>2</sup> mat
1.5	200w 1.5m <sup>2</sup> mat
2	200w 2m <sup>2</sup> mat
2.5	200w 2.5m <sup>2</sup> mat
3	200w 3m <sup>2</sup> mat
3.5	200w 3.5m <sup>2</sup> mat
4	200w 4m <sup>2</sup> mat
4.5	200w 4.5m <sup>2</sup> mat

Size m <sup>2</sup>	Description
5	200w 5m <sup>2</sup> mat
6	200w 6m <sup>2</sup> mat
7	200w 7m <sup>2</sup> mat
8	200w 8m <sup>2</sup> mat
9	200w 9m <sup>2</sup> mat
10	200w 10m <sup>2</sup> mat
11	200w 11m <sup>2</sup> mat
12	200w 12m <sup>2</sup> mat



Size m <sup>2</sup>	Description
6	ACCESSORY KIT UP TO 6m <sup>2</sup>
12	ACCESSORY KIT UP TO 12m <sup>2</sup>



- Flooring
- Flexible adhesive
- Levelling compound (optional - for tiles)
- Loose Cable
- Insulation board
- Flexible adhesive
- Subfloor



## Loose Cables

Our ProWarm™ loose cable systems are the ideal solution for those complicated floor areas where a mat is not suitable. Cables are rated at 10w per linear metre, this means the closer you space the cable the higher the output.

Our ProWarm™ 2mm Loose Cables are ideal for small bathrooms with awkward fixed objects to work around such as curved shower trays, toilets and basins.

Anything under 3m<sup>2</sup> is normally suited to a loose wire system where there is furniture or sanitary ware in situ. The cable comes as one long continuous roll on a drum, which should be spaced out evenly over the floor. The benefit of it being loose means it can be adjusted to suit any awkward areas.

Must be protected via an RCD

## Features & benefits

- ✓ Retro fit over existing floors
- ✓ Easy to install
- ✓ Ideal for small irregular shape rooms
- ✓ Minimal effect in floor height
- ✓ Even heat distribution

Cable spacing will affect power options for different scenarios i.e. tile warming or primary heating.

- 100 watt
- 150 watt
- 200 watt

### Floor Type Suitability



\*Provided cable is covered in a minimum of 10mm self levelling



### Installation video

Scan QR code to watch this installation video giving you step-by-step guidance for a successful installation.



ProWarm™ electric underfloor heating systems include a CableSafe Guarantee. Should you cut the cable on installation, a replacement will be supplied free of charge. See T&Cs at [www.prowarm.com](http://www.prowarm.com)

- ✓ Space at 10cm apart for output of 100w/m<sup>2</sup> - Tile warming and secondary heating.
- ✓ Space at 6.5cm apart for output of 150w/m<sup>2</sup> - Suitable primary heating source for most areas.
- ✓ Space at 5cm apart for output of 200w/m<sup>2</sup> - Conservatories and high heat loss areas.

Coverage m <sup>2</sup>	Description
0.9	150w 0.9m loose cable (11.5m)
1.1	150w 1.1m loose cable (14m)
1.3	150w 1.3m loose cable (17m)
1.7	150w 1.7m loose cable (22.5m)
2.2	150w 2.2m loose cable (29m)
2.7	150w 2.7m loose cable (35m)
3.1	150w 3.1m loose cable (40m)
3.7	150w 3.7m loose cable (48m)
4.3	150w 4.3m loose cable (56m)
5.0	150w 5.0m loose cable (64m)

Coverage m <sup>2</sup>	Description
5.4	150w 5.4m loose cable (70m)
5.8	150w 5.8m loose cable (76m)
6.3	150w 6.3m loose cable (82m)
6.9	150w 6.9m loose cable (92m)
8.0	150w 8.0m loose cable (104m)
8.8	150w 8.8m loose cable (114m)
9.6	150w 9.6m loose cable (125m)
11.2	150w 11.2m loose cable (145m)
12.3	150w 12.3m loose cable (160m)
13.8	150w 13.8m loose cable (180m)

NB: Prices illustrate spacing at 6.5cm for output of 150w/m<sup>2</sup>

- ✓ It is best to order slightly less than you need than have too much cable as the cables CAN NOT be cut or shortened in any way.
- ✓ Loose cable systems are the ideal solution for those complicated floor areas where a mat is not suitable. Systems are rated at 10w per linear metre, this means the closer you space the cable the higher the output. Cables are 10w per linear metre.

Size m <sup>2</sup>	Description
6	ACCESSORY KIT UP TO 6m <sup>2</sup>
12	ACCESSORY KIT UP TO 12m <sup>2</sup>



Planning a wetroom? Check out our ProWarm™ Wetroom range of 30mm trays and drains. See page 49

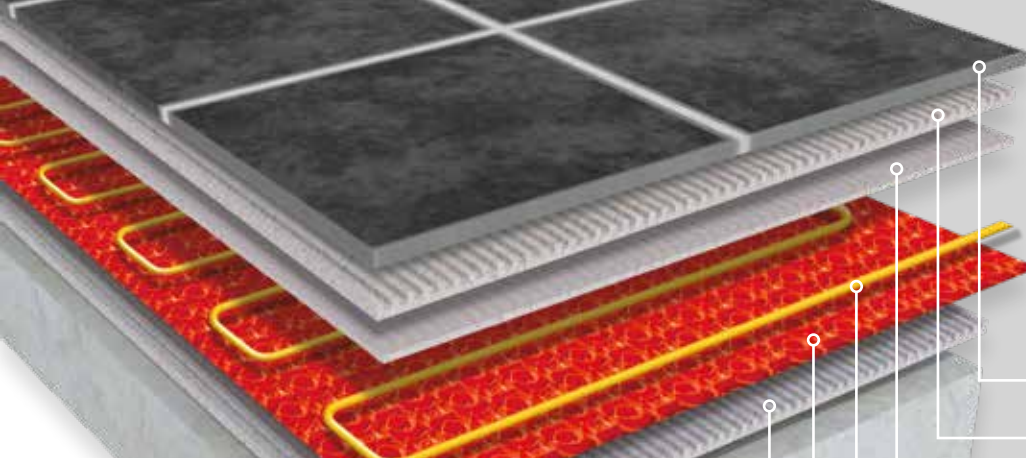
NEW

# proGrid+

EASY FIT PRE-SPACED  
LOOSE CABLE SYSTEM

- ✓ Anti-fracture decoupling matting
- ✓ Quick and easy to install
- ✓ Pre-spaced grid system, ideal for multiple heat outputs
- ✓ Easy to cut in awkward areas
- ✓ No specialist tools required





- Flooring
- Flexible adhesive
- Levelling compound (optional - for tiles)
- ProGrid+ Loose cable
- ProGrid+ Matting
- Flexible adhesive
- Insulated Subfloor



## ProGrid+

The ProWarm™ ProGrid+ matting and cable system is designed to make the installation of loose laid electric underfloor heating cable more efficient and less time consuming. The pre-spaced matting grid makes the installation easy and quick.

The innovate grid system allows for the cable to be placed within the grooves and the pre-spaced design enables the user to install with the desired heat output per m2 without any additional need for tape or fixings.

The ProGrid+ matting acts as housing for the cable and a decoupling membrane which prevents reflective cracking caused by shrinkage cracks, board joints and lateral movement

ProWarm™ Electric Underfloor Heating cable kits provide a reliable and effective underfloor heating system that can work with tiles and many other floor coverings (installation methods differ, please call us for advice).

Must be protected via an RCD

## Features & benefits

- ✓ Pre-space grid system
- ✓ Quick & easy to install
- ✓ Retro fit over existing floors
- ✓ Ideal for irregular shaped rooms
- ✓ Even heat distribution
- ✓ Decoupling membrane floor protection

Coverage m <sup>2</sup>	Description
1.0	150w ProGrid+ Matting
1.0	150w ProGrid+ cable (10.9m)
1.5	150w ProGrid+ cable (16.4m)
2.0	150w ProGrid+ cable (21.9m)
2.5	150w ProGrid+ cable (27.4m)
3.0	150w ProGrid+ cable (32.8m)
3.5	150w ProGrid+ cable (38.3m)
4.0	150w ProGrid+ cable (43.8m)
4.5	150w ProGrid+ cable (49.3m)

Coverage m <sup>2</sup>	Description
5.0	150w ProGrid+ cable (54.7m)
6.0	150w ProGrid+ cable (65.7m)
7.0	150w ProGrid+ cable (76.6m)
8.0	150w ProGrid+ cable (87.6m)
9.0	150w ProGrid+ cable (98.5m)
10.0	150w ProGrid+ cable (109.5m)
12.0	150w ProGrid+ cable (131.4m)
14.0	150w ProGrid+ cable (153.3m)
16.0	150w ProGrid+ cable (175.2m)

NB: Prices illustrate spacing at 9cm for output of 150w/m2

### Floor Type Suitability



\*Provided cable is covered in a minimum of 10mm self levelling



Need tile adhesive or levelling compound? We recommend and sell ULTR at competitive prices. See page 48



- Flooring
- Heat mat
- Insulation board
- Subfloor



# Foil Heating Mats


With the huge increase in popularity, wooden floors are fast becoming the biggest selling type of flooring in the UK, but they sometimes seem cold or uninviting. Thanks to our system, this is no longer the case.

Our superior range of ProWarm™ state-of-the art foil heating mats are for use beneath laminate/engineered and most floating hardwood floors. These heating mats must be used in conjunction with our XPS insulation boards instead of standard underlay, designed to produce a heat output of 140w per m2.

Our aluminium foil mats are all designed to be cut and turned on site to fit the shape of your room.

## Features & benefits

- ✓ Retro fit over existing floors
- ✓ Easy to install
- ✓ Ideal for large regular shape rooms
- ✓ Minimal effect in floor height
- ✓ Even heat distribution

Power output  140 watt

### Floor Type Suitability



\*MUST be used with Heat-Pak dual overlay



### Wood Floors



### Carpet / Vinyl



### Installation video

Scan QR code to watch this installation video giving you step-by-step guidance for a successful installation.

**TOP TIP** A Dual overlay Heat-Pak system **MUST** be used with carpet or vinyl floor coverings

- ✓ Designed for use with engineered, laminate and most solid wood floating floors.
- ✓ Either 1 or 2 Electric 230v underfloor heating mats depending on size of kit, all mats are 500mm wide and are rated at 140w per m2.
- ✓ It is best to order slightly less than you need than have too much mat as the cables CAN NOT be cut or shortened in any way.

Size m <sup>2</sup>	Description
1	140w 1m wood mat
1.5	140w 1.5m wood mat
2	140w 2m wood mat
2.5	140w 2.5m wood mat
3	140w 3m wood mat
3.5	140w 3.5m wood mat
4	140w 4m wood mat
4.5	140w 4.5m wood mat

Size m <sup>2</sup>	Description
5	140w 5m wood mat
6	140w 6m wood mat
7	140w 7m wood mat
8	140w 8m wood mat
9	140w 9m wood mat
10	140w 10m wood mat
11	140w 10m wood mat
12	140w 12m wood mat

## ProWarm™ ultra thin Foil Heating Cable

Maximum quality, minimum floor height

Damage your underfloor heating cable or mat during the installation process and we'll replace it free of charge under our CableSafe™ Guarantee.

Multi-Strand  
Twin Conductors



Advanced Fluoropolymer insulation (FEP) known as Teflon

- ✓ ULTRA THIN CABLE
- ✓ ONLY 2MM THICK
- ✓ MINIMUM FLOOR HEIGHT
- ✓ PEACE OF MIND WARRANTY

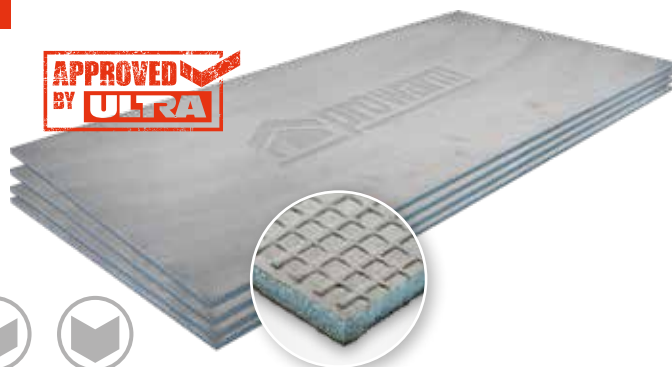
Size m <sup>2</sup>	Description
2.8	HeatPak DUAL OVERLAY



## Backer-Pro

Our ProWarm™ Premium Backer-Pro boards are the professional choice for use with our under tile heating cables and mats (not suitable for our underwood systems).

Various thickness sizes available:

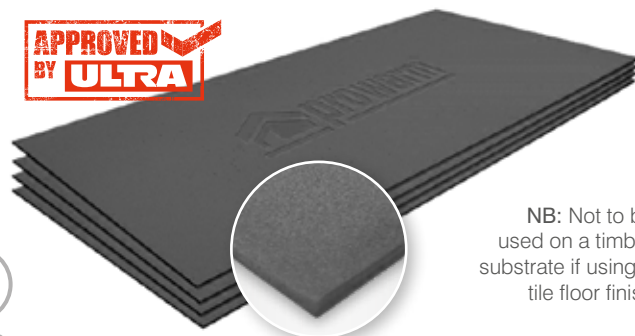


Description	Dimensions
Backer Pro Tile Backer Board 6mm	600mm x 1200mm x 6mm
Backer Pro Tile Backer Board 10mm	600mm x 1200mm x 10mm
Backer Pro Tile Backer Board 12.5mm	600mm x 1200mm x 12.5mm
Backer Pro Tile Backer Board 20mm	600mm x 1200mm x 20mm
Backer Pro Tile Backer Board 30mm	600mm x 1200mm x 30mm
Backer Pro Tile Backer Board 50mm	600mm x 1200mm x 50mm

## XP-PRO

Our ProWarm™ XP-PRO Premium boards are the professional choice for use under tile heating cables, mats and underwood systems, offering a balance between cost and durability.

Various thickness sizes available:



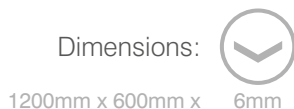
NB: Not to be used on a timber substrate if using a tile floor finish

Description	Dimensions
XP-PRO Premium Board 6mm	600mm x 1200mm x 6mm
XP-PRO Premium Board 10mm	600mm x 1200mm x 10mm
XP-PRO Premium Board 20mm	600mm x 1200mm x 20mm
XP-PRO Premium Board 30mm	600mm x 1200mm x 30mm
XP-PRO Premium Board 50mm	600mm x 1200mm x 50mm

## ProFoam™

Our economy insulation board is specifically designed for use with our underwood heating and carpet heating mat systems, it can also be used as a wooden floor underlay.

One size available:



Description	Dimensions
ProFoam Insulation 10m2 Pack	850mm x 600mm x 6mm



## PRODIGITAL Digital Thermostat

- ✓ Energy Saving Optimum Start
- ✓ Touch Key Design
- ✓ Cool White Back Light
- ✓ Key Lock Function
- ✓ Holiday Programming
- ✓ Air & Floor Temperature Sensors
- ✓ Lifetime Warranty



## PRO TOUCH Touchscreen Thermostat

- ✓ Dual Temperature Control
- ✓ Programmable
- ✓ Large Screen
- ✓ Professional Design
- ✓ Lifetime Warranty



## PRO TOUCH Smart Thermostat

- ✓ WiFi Control
- ✓ Double Temperature Control
- ✓ Programmable
- ✓ Large Screen
- ✓ Professional Design
- ✓ Lifetime Warranty



Description	Colour
ProDigital Thermostat	White
ProTouch Screen Thermostat	White
ProTouch Screen Thermostat	Black
ProTouch-E Wi-Fi Thermostat	White
ProTouch-E Wi-Fi Thermostat	Black



## Installation kit

The ProWarm™ Installers kit is the all in one product for an underfloor heating installation.

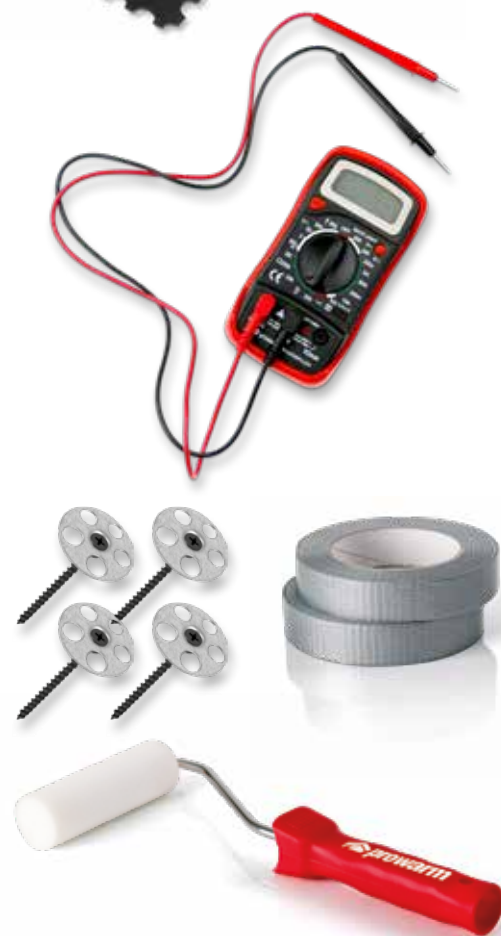
The installation kit includes the following:

- ✓ 1 x 40L Mixing Bucket
- ✓ 1 x Float with Hydro Sponge
- ✓ 1 x Plastic Trowel
- ✓ 1 x Digital Multimeter
- ✓ 1 x Floor Damage Sensor
- ✓ 1 x 5m Measuring Tape
- ✓ 1 x Bahco Carpenters Pencil



Everything you need  
in a bucket!

Description
Digital Multimeter
Floor Damage Sensor
ProWarm™ Floor Probe
Insulation Fixing Pack 25mm
Insulation Fixing Pack 30mm
Insulation Fixing Pack 42mm
Insulation Fixing Pack 60mm
Duct Tape
Roller
Installation kit
Enclosure for both 20amp & 40amp contactors
25a 230v twin pole contactor
40a 230v contactor
Contact Suppressor
Basictrowel
Fastheat 0.5L
Fastheat 1L
Float hydro sponge
Prowarm repair kit
Square notch trowel 3mm



## Adhesives



## Grouts



## Levellers

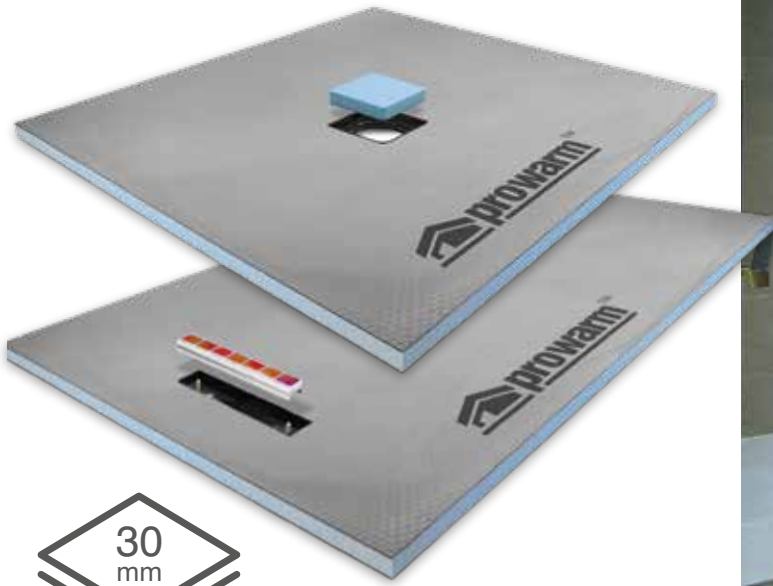


## Primers



Description	Size
ULTRA Rapid Set Flexible Tile Adhesive (Grey)	20kg
ULTRA Rapid Set Flexible Tile Adhesive (White)	20kg
ULTRA Proflex Extended Set Tile Adhesive (Grey)	20kg
ULTRA Proflex Extended Set Tile Adhesive (White)	20kg
ULTRA ProFlex SP - Flexible Tile adhesive (Grey)	20kg
ULTRA ProFlex SP - Flexible Tile adhesive (White)	20kg
ULTRA ProFlex S2 - Flexible Fibre Reinforced Tile Adhesive (Grey)	20kg
ULTRA ProFlex S2 - Flexible Fibre Reinforced Tile Adhesive (White)	20kg
ULTRA Pro Level One - Self Levelling Compound	20kg
ULTRA Pro Level Two - Self Levelling Compound	20kg
ULTRA Level Fibre	20kg
ULTRA Flexible Grout (Cream)	3kg
ULTRA Flexible Grout (Grey)	3kg
ULTRA Flexible Grout (White)	3kg
ULTRA Pro-Prime IT	5L
ProWarm™ Ultra Prime	0.5L
ProWarm™ Ultra Prime	1L
Ultra MSP (Multi Surface Primer)	5L
Ultra Pro Level Ultimate - Self Levelling Compound	20kg

# Wetroom Shower trays











## 30mm Wetroom Shower Trays

ProWarm™ Wet Room Shower Tray is the perfect shower tray to install in a new wet room.

The wet room tray is lightweight, and can be cut easily using a fine tooth hand saw, the tray is designed to accept most tiles including porcelain, stone and ceramic tiles.

These wet room trays are not suitable for use with Vinyl or Altro resin floor coverings.



-  Suitable for Underfloor Heating
-  Lightweight XPS construction
-  Suitable for tiles only NOT vinyl
-  Best Thermal Properties
-  Can be trimmed easily
-  Available drain options
-  Glass fibre reinforcement
-  10 Year Warranty



Horizontal Drain  
Standard



Horizontal Drain  
Stainless Steel Grate



Horizontal Drain  
Tileable cover



Linear Drain  
Stainless Steel



Linear Drain  
Tileable cover



 **Installation video**

Scan QR code to watch this installation video giving you step-by-step guidance for a successful installation.

Description	Size
30mm Shower Tray - Centre Drain	800 x 800 x 30mm
30mm Shower Tray - Centre Drain	900 x 900 x 30mm
30mm Shower Tray - Centre Drain	1000 x 1000 x 30mm
30mm Shower Tray - Centre Drain	1200 x 900 x 30mm
30mm Shower Tray - Centre Drain	1500 x 800 x 30mm
30mm Shower Tray - Centre Drain	1600 x 900 x 30mm
30mm Shower Tray - Centre Drain	1200 x 1200 x 30mm
30mm Shower Tray - Centre Drain	1850 x 900 x 30mm
30mm Shower Tray - Corner Drain	800 x 800 x 30mm
30mm Shower Tray - Corner Drain	900 x 900 x 30mm
30mm Shower Tray - Corner Drain	1000 x 1000 x 30mm
30mm Shower Tray - Corner Drain	1200 x 1200 x 30mm
30mm Shower Tray - End Drain	1200 x 900 x 30mm
30mm Shower Tray - End Drain	1500 x 800 x 30mm
30mm Shower Tray - End Drain	1600 x 900 x 30mm
Drain Horizontal - standard cover	120x120mm cover
Drain Horizontal - tileable grate cover	120x120mm cover
Drain Horizontal - stainless steel cover	120x120mm cover
30mm Shower Tray - Linear Centre Drain	900 x 900 x 30mm
30mm Shower Tray - Linear Centre Drain	1200 x 900 x 30mm
30mm Shower Tray - Linear Centre Drain	1400 x 900 x 30mm
30mm Shower Tray - Linear Centre Drain	1600 x 900 x 30mm
30mm Shower Tray - Linear End Drain	900 x 900 x 30mm
30mm Shower Tray - Linear End Drain	1200 x 900 x 30mm
30mm Shower Tray - Linear End Drain	1400 x 900 x 30mm
30mm Shower Tray - Linear End Drain	1600 x 900 x 30mm
Drain Linear - stainless steel cover	50mm seal trap
Drain Linear - tileable grate cover	50mm seal trap
Wet Room Installation Kit	-
Tape Sealing Compound	0.5L
Tape Sealing Compound	1L
Waterproof Tape	5m
Waterproof Tape	10m
Waterproof Internal Corner	-
Waterproof External Corner	-



Tape Sealing











Waterproof  
Tape



Waterproof  
Corners



#### Installation Kit

-  5m waterproofing tape
-  2 x Internal Corners
-  Tape sealing compound 0.5L
-  5kg KST flexible tile adhesive
-  Wood floor Primer
-  Paint Brush
-  Notched Trowel
-  Nylon Gloves

Supplied in a plastic bucket which can be used for mixing

# Total peace of mind...



## **ProWarm™ floor heating mats come with a full lifetime warranty.**

The warranty does not cover installations made by unauthorized persons or faults caused by incorrect design by others / misuse / damage caused by others / damage in transit / incorrect installation and any other subsequent damage that may occur. Replacement will be fully chargeable if the damage is because of any of the above reasons.



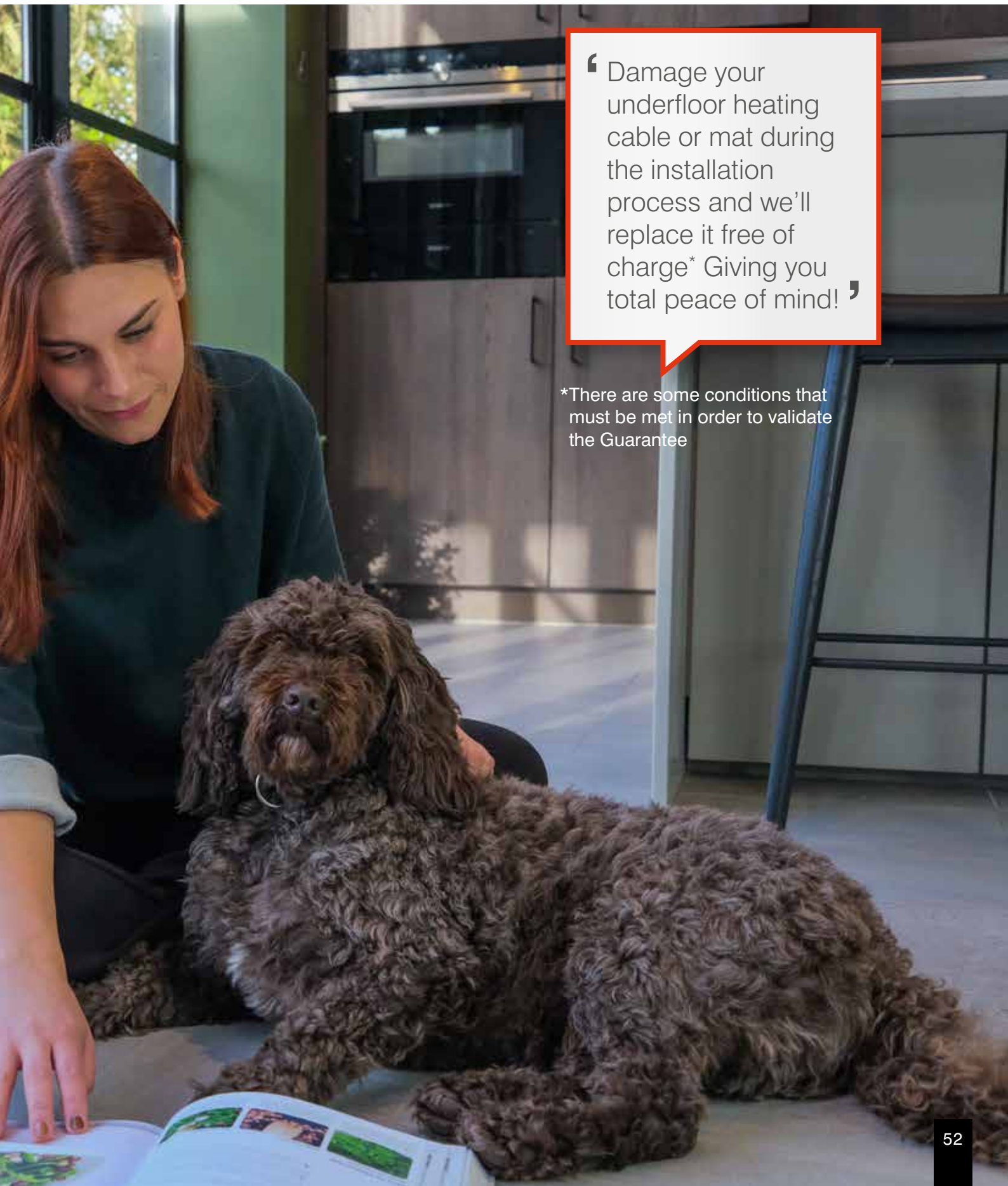
## **CableSafe™ Guarantee**

ProWarm™ is the only company that offers you a no quibble exchange on a damaged cable. If you damage your heating cable during installation then on receipt of the damaged cable/mat we will send you a new one of the same size free of charge. Only one cable/mat per Invoice. This amazing free peace-of-mind insurance is only offered by ProWarm™. No waiting for a repair engineer to come out and no more expensive mistakes - as soon as we receive your returned cable/mat we will send you a new one on next working day delivery.


Please visit our website for full terms and conditions.  
[www.ProWarm.com](http://www.ProWarm.com)

“ Damage your underfloor heating cable or mat during the installation process and we’ll replace it free of charge\* Giving you total peace of mind! ”

\*There are some conditions that must be met in order to validate the Guarantee





Official supplier of  
 **prowarm**<sup>™</sup> underfloor heating



Unit 12, Carnival Park, Basildon, Essex, SS14 3WN

Tell: 01268 567019

[www.theunderfloorheatingstore.com](http://www.theunderfloorheatingstore.com)

[sales@theunderfloorheatingstore.com](mailto:sales@theunderfloorheatingstore.com)

