

MYSON Radiant Heating

Premium underfloor heating systems



RADIANT HEATING

More Comfort More Flexibility

Hydronic underfloor heating works by circulating warm water through a series of continuous pipe loops fitted underneath the floor. The pipework creates a large radiant surface which heats the room from the floor upwards.

Discreet & space-saving

Underfloor heating is invisible. It leaves the wall and floor space free to maximise every square metre and design space without compromise.

Even, gentle warmth

It delivers comfortable warmth across the entire room. Heat rises evenly from the floor up, creating a pleasant indoor climate with no cold spots.

Energy-saving by design

Ideal for use with low-temperature systems like heat pumps, solar panels, or condensing boilers, underfloor heating significantly reduces energy use and CO₂ emissions.

Efficient & sustainable

Modern underfloor heating operates at lower system temperatures, making it highly efficient and eco-friendly. With a larger surface area distributing heat gently, the system adapts to internal heat gains—minimising energy waste and preventing overheating.

Example: A heat pump supplying water at 35°C (for underfloor heating) can use up to 30% less energy than at 55°C (for radiators).



Sustainable (adj): meeting your needs without compromising anyone or anything from meeting theirs, today or tomorrow.



Key benefits of underfloor heating

- Energy-efficient and cost-effective heating solution.
- Flexible installation: full floors, partial areas, or individual rooms.
- Works as a standalone system or can be combined with radiators.
- Compatible with most floor types: tile, wood, stone, even carpet.
- Suitable for mixed floor applications on the same level.
- Reduces airborne allergens by avoiding forced air, helping allergy sufferers.

Harmonising Heat

Underfloor heating & radiators combined

You don't have to choose between underfloor heating and radiators—modern systems allow you to enjoy the benefits of both. Combining these solutions creates a flexible, energy-efficient heating system tailored to different needs and spaces.

Hybrid systems are increasingly popular in both new builds and renovations, offering optimal comfort, control, and design freedom.

Installation tips for best results

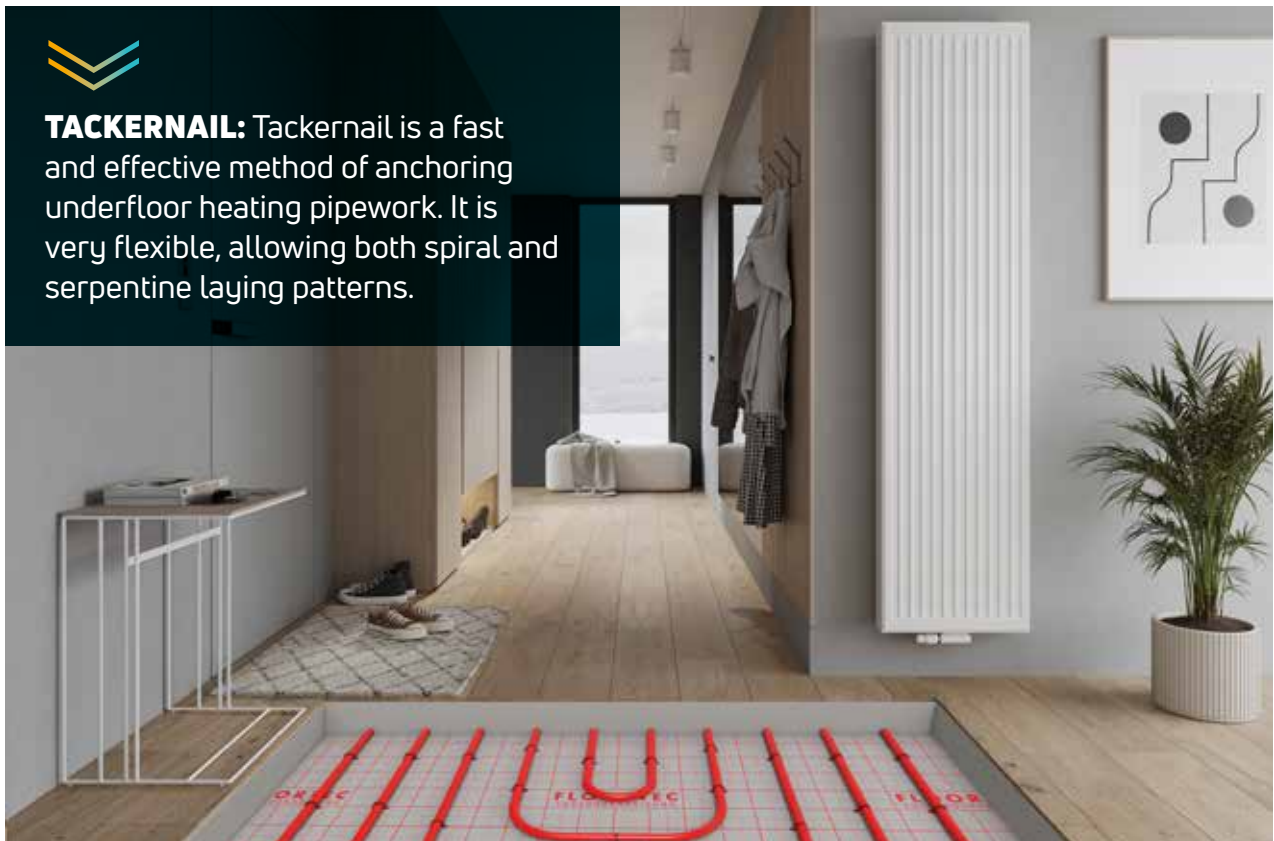
- Plan zones carefully for even heat distribution.
- Place manifolds near the zones they serve to minimise pipe lengths.
- Use quality insulation beneath the floor pipes to prevent heat loss and enhance efficiency.

Key benefits of a combined system

- **Enhanced Comfort**
Enjoy warm floors from underfloor heating and quick heat boosts from radiators—ideal for bathrooms and transitional spaces.
- **Energy Efficiency**
Pairing low-temperature underfloor heating and radiators with heat pumps or condensing boilers boosts system efficiency and lowers energy bills.
- **Design Flexibility**
Radiators work well in retrofits or compact rooms, while underfloor heating fits open-plan areas or bathrooms for seamless integration.
- **Zoned Heating Control**
Zoning and smart control systems—like Unisenza and Unisenza Plus—allow precise temperature management in different rooms and for each emitter type, reducing energy waste and improving comfort.



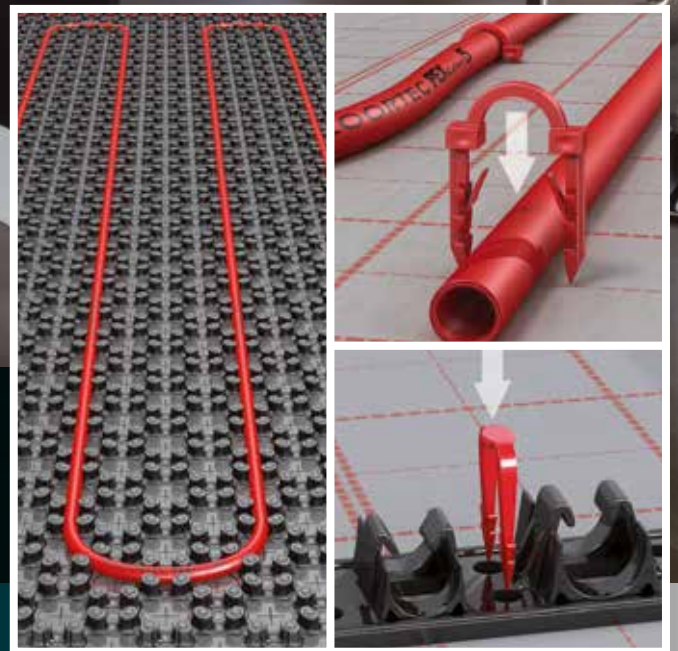
TACKERNAIL: Tackernail is a fast and effective method of anchoring underfloor heating pipework. It is very flexible, allowing both spiral and serpentine laying patterns.





FIXING SYSTEMS

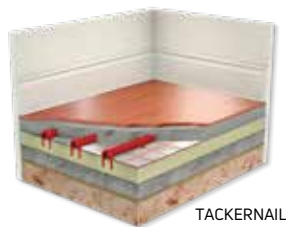
MYSON offers an extensive range of fixing systems to suit your project.



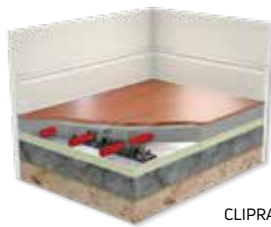
SCREEDED FLOOR SYSTEMS offer a wide variety of pipe fixing options, from simple but highly-effective clips to plastic tray systems.

DRY FLOOR SYSTEMS offer a variety of different fixing systems, and can be used on joisted floors or existing floors (making them ideal for renovation).

Screeded floor



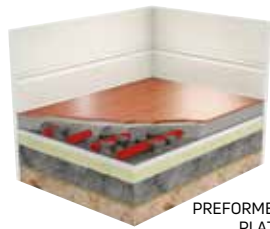
TACKERNAIL



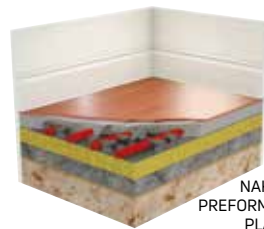
CLIPRAIL



MICROPLATE



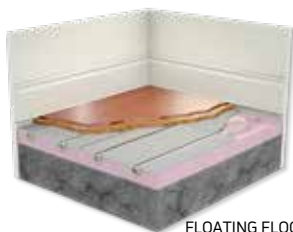
PREFORMED
PLATE



NAKED
PREFORMED
PLATE

| Applications | Tackernail | Cliprail | MicroPlate | Preformed Plate | Naked Preformed Plate |
|-----------------------|---|------------------------------|---|---|---|
| Solid Floor | ✓ | ✓ | ✓ | ✓ | ✓ |
| Specifications | | | | | |
| Features and Benefits | Cost effective fixing method Quick & easy to install | Perfect for large open areas | Ultra-low profile with only 15mm total floor height | Ideal for single person installation Insulated | Cost effective, streamlined version of PFP where space is a premium |
| Pipe | 16, 17 & 20mm | 16, 17 & 20mm | 12mm | 16 & 17mm | 16 & 17mm |
| Spacings | 100, 150, 200, 250, 300mm | 150, 200, 300mm | 100, 150mm | 120, 180, 240mm | 120, 180, 240mm |
| Pattern | Spiral or Serpentine | Serpentine | Spiral or Serpentine | Spiral or Serpentine | Spiral or Serpentine |

Dry system



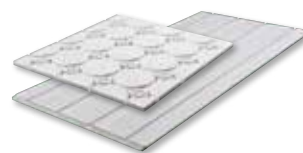
FLOATING FLOOR



PLATED FLOOR



SUBPLATE



MICROBOARD

| Applications | Floating | Plated 400mm Joist Centre | Plated 600mm Joist Centre | Subplate 150mm | Subplate 250mm | MicroBoard |
|-----------------------|---|--------------------------------|--------------------------------|---------------------------------------|---------------------------------------|-------------------------------------|
| Solid Floor | ✓ | - | - | - | - | ✓ |
| Suspended Floor | * | ✓ | ✓ | ✓ | ✓ | * |
| Renovations | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Specifications | | | | | | |
| Features and Benefits | Fast response Good acoustic properties | No floor lift Fast response | No floor lift Fast response | Installed from below Fast response | Installed from below Fast response | Minimal floor lift Fast response |
| Pipe | 16mm MLP | 16mm MLP | 16mm MLP | 17mm PEX | 17mm PEX | 12mm PEX |
| Spacings | 200mm | 150, 200mm | 200mm | 150mm | 250mm | 150mm |
| Pattern | Serpentine | Serpentine | Serpentine | Serpentine | Serpentine | Serpentine |

*only suitable when installed on top of a structural floor.



MANIFOLDS & PIPES

MYSON offers a wide range of premium high grade stainless steel manifolds, pump packs and pipe, all manufactured in-house.



Underfloor heating manifold

Features and benefits

- Pre-assembled stainless steel manifold
- Range includes 2-12 ports
- Automatic air vent and pressure gauge prefitted as standard
- Easy to use flow meters with locking facility and easy cleaning
- Supplied with 17mm adapters, pipe bend supports, isolation valves and temperature gauges
- Manufactured in-house to highest quality standards

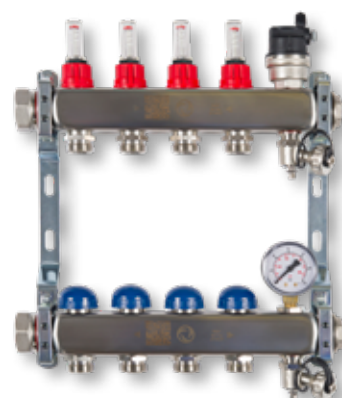
Underfloor heating pump pack

Features and benefits

- Supplied fully assembled
- Includes high efficiency circulating pump
- Precise temperature control
- Integral non-return valve and flow regulating valve ideal for balancing large systems
- Manufactured in-house to highest quality standards

Underfloor heating pipe

| | Pipe Type | Coil Sizes | Wall Thickness |
|------|-----------|--------------------|----------------|
| 12mm | Pex | 80, 120, 240m | 2mm |
| 16mm | MLCP | 100, 200, 400m | 2mm |
| 17mm | Pex | 80, 120, 200, 600m | 2mm |
| 20mm | Pex | 500m | 2mm |



MANIFOLD



PUMP PACK



PEX PIPE



CONTROLS & WIRING CENTRES

MYSON offers a range of energy-efficient easy-to-use controls and wiring centres.



Unisenza Plus UFH Thermostat RF



Control options



| | Thermostats | | | | | | Programmer |
|------------------------|--|---|---|---|--|--|--|
| | Unisenza Digital | Unisenza Wifi Programmable | Touch & Touch RS | Touch2 wifi | Unisenza Plus UFH Thermostat | Unisenza Plus UFH Thermostat RF | MEP1c |
| Description | Digital thermostat | Programmable thermostat | Programmable thermostat | Programmable thermostat | Programmable thermostat | Programmable thermostat | Single channel time switch |
| Wifi enabled | - | ✓ (without hub) | - | ✓ (when connected to hub) | ✓ (when connected to Gateway) | ✓ (when connected to Gateway) | - |
| Programming | - | 24hr/7 day | 24hr, 5/2 day or 7 day | 24hr, 5/2 day or 7 day | 24hr, 5/2 day or 7 day | 24hr, 5/2 day or 7 day | 24hr, 5/2 day or 7 day |
| Smart start technology | - | ✓ | ✓ | ✓ | ✓ | ✓ | - |
| Warranty | 5 years | 5 years | 2 years | 2 years | 5 years | 5 years | 2 years |
| Voltage | 230V (24V on request) | 230V (24V on request) | 230V | 230V | 230V (24V on request) | RF | 230V |
| Key features | LCD display. Can be controlled by App or voice (with Gateway). Ultra-flat design. Floor & air sensors available. | Can be controlled by App or voice (with Gateway). External sensors. | Touch screen. Temperature hold. Temperature override. Holiday function. | Easy to install and control. Flexible programming. Compact size. Floor & air sensors available. | Ultra slim design. Floor & air sensors available. Geolocation. | Wireless connection to wiring centre. Built-in humidity sensor and rechargeable Li-Ion battery. Geolocation. | Auto time change. Flexible scheduling options. Backlit screen. Energy efficient. |

Wiring centres



Unisenza wiring centre
10-way 230V (24V on request)



Unisenza Plus UFH wiring centre RF
8-way 230V

Wifi hubs & gateways



Touch2 Hub



Unisenza Plus Gateway

Actuator

Actuator
230V & 24V





PUNCH PACKS

MYSON's single room packs offer an easy-to-install option to complement the bespoke underfloor heating range.



Punch Packs are designed for a screeded floor, and include 16mm multi-layer pipe, an A-rated single zone control unit and a Unisenza Thermostat complete with floor sensor. They are available in 20m² and 40m² pack (based on 200mm spacings).



MYSON Punch Packs are simple to install using a variety of our fixing methods. There are no design requirements and the packs are competitively priced.

Please call 0330 041 5474 for further details.

Underfloor Heating

Common questions answered

Is underfloor heating only for new builds?

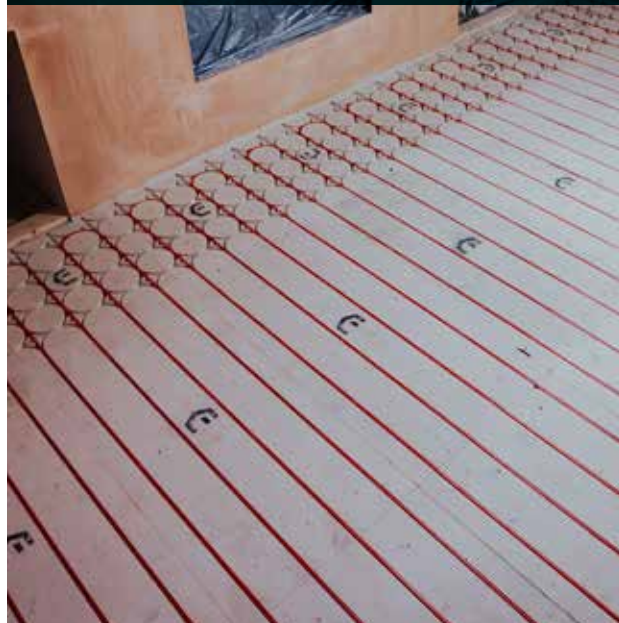
No. It's suitable for both new and existing buildings, but you must consider the project's specific requirements when choosing the most suitable system. Wet systems are ideal for new builds, while dry or thin-layer systems are better for renovations with limited floor height. Check insulation in older properties before installing.

Is it more expensive than radiators?

Installation may cost more, but underfloor heating is more energy-efficient and saves money over time. It also works well with heat pumps for lower energy use and reduced carbon emissions.



MICROBOARD: Microboard is a retrofit, low profile underfloor heating system. It can be installed over an existing floor or used as part of a new build project, making it our most flexible system yet.



PLATED FLOOR & SUBPLATE:

Suspended floor systems suit all types of joisted floors, including traditional, i-beam and eco joist. Our superior-grade aluminium plates diffuse heat efficiently.



Can you control room temperature precisely?

Yes. Modern digital systems like Unisenza and Unisenza Plus allow accurate zoned, or room-by-room, temperature control, with features like ECO mode, open window detection, and app-based control.

Does it take long to heat up?

Not anymore. With correct system design and using modern, smart controls, heat-up times can be reduced significantly. Heating programs can be set up and optimised to suit the user's routine.

Can it be used with wooden floors?

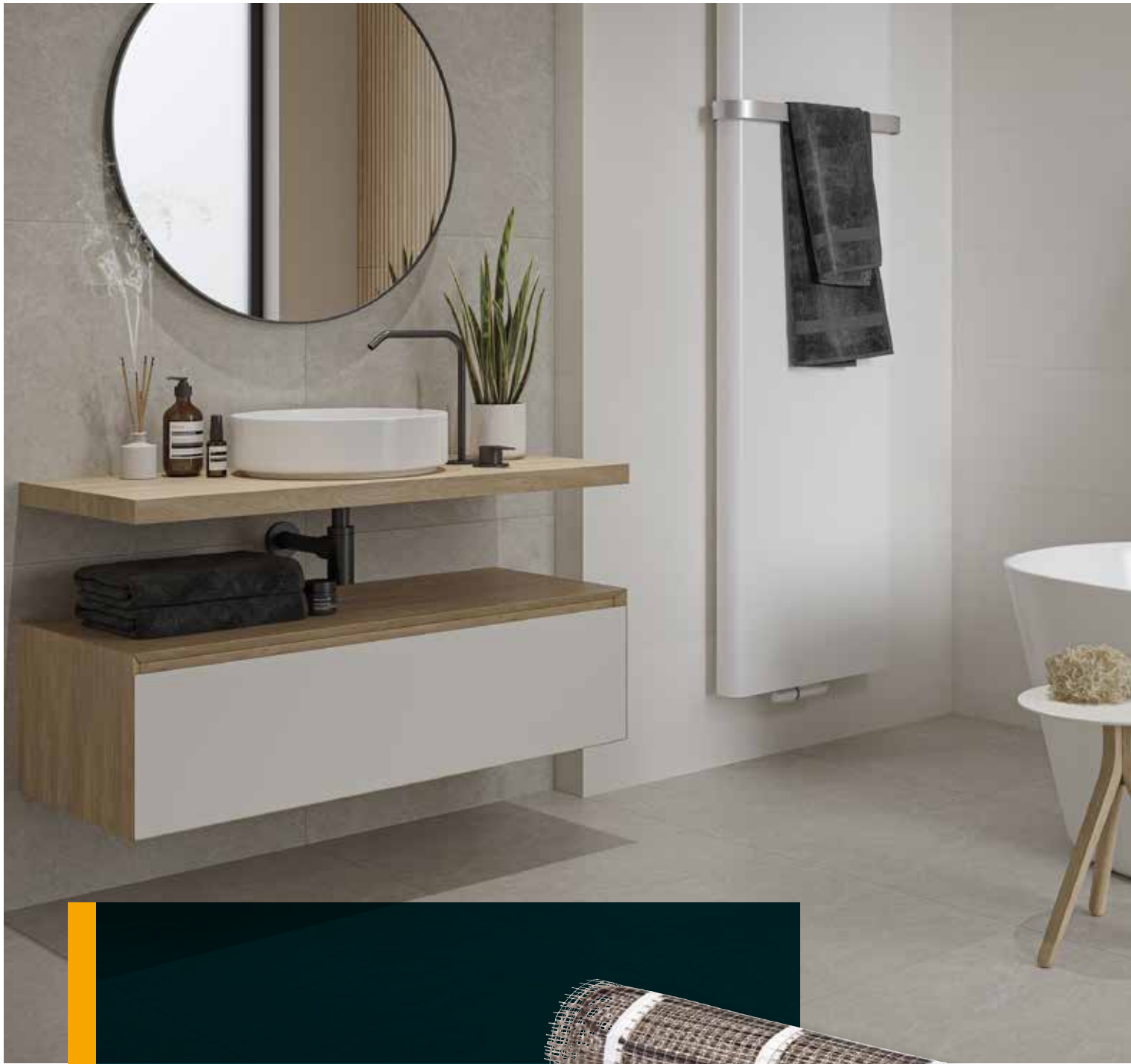
Yes. Just choose a stable wood like oak and ensure it's rated for surface heating. Use floor sensors for added protection.

Does it require a high construction height?

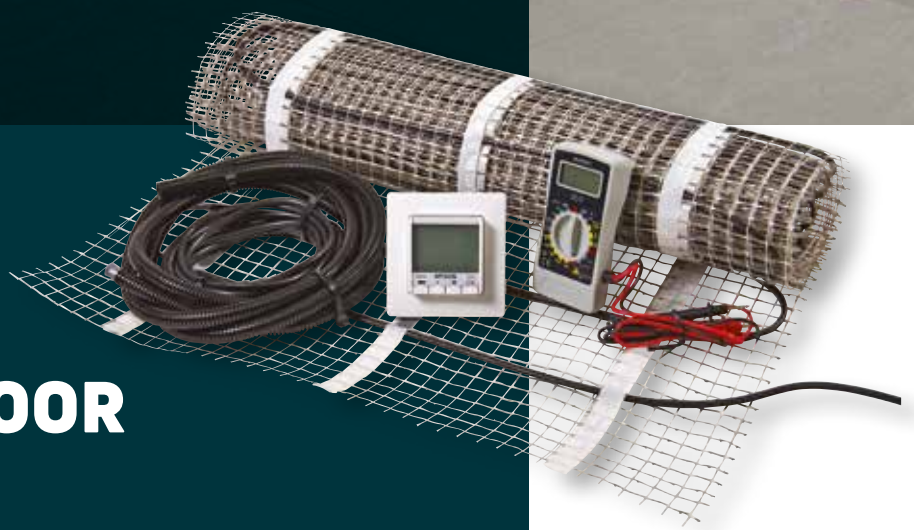
Not necessarily. While standard systems may need 100–120mm, low-profile solutions like the Microplate system require just 15–20mm.

Can it only be installed on the ground floor?

No. Underfloor heating works on any floor of a building. Just tailor the system design to the room's layout and insulation level.



ELECTRIC UNDERFLOOR HEATING





Electric underfloor heating can make a valuable addition to your heating system. It is simple, space saving, and provides instant heat. It's an ideal choice for individual rooms that need independent heat, such as conservatories and extensions, or for use in small rooms with limited space, such as kitchens, bathrooms, cloakrooms or walk-in areas.

MYSON's electric underfloor heating range is easy to install making it a great choice for self-build. There is no need for specialist tools, skills or groundwork and everything is supplied in one handy box.

It can be easily installed throughout the house, on one level only or in individual rooms. It can be used alone or combined with radiators or other heating systems elsewhere in the home.

A better form of heating

The MYSON electric underfloor heating mat is manufactured from high quality, durable materials. The installation of the electric mat must be performed by a qualified electrician and in accordance with the instructions that are supplied when the product is purchased.

| Type m ² | Wattage | Heat Outputs | |
|------------------------|---------|--------------|-----|
| | | Amps | Ohm |
| 1 | 150W | 0.65 | 353 |
| 1.5 | 225W | 0.97 | 235 |
| 2 | 300W | 1.30 | 176 |
| 2.5 | 375W | 1.63 | 141 |
| 3 | 450W | 1.95 | 117 |
| 3.5 | 525W | 2.28 | 100 |
| 4 | 600W | 2.61 | 88 |
| 4.5 | 675W | 2.93 | 78 |
| 5 | 750W | 3.26 | 70 |
| 6 | 900W | 3.91 | 59 |
| 7 | 1050W | 4.56 | 50 |
| 8 | 1200W | 5.22 | 44 |
| 9 | 1350W | 5.87 | 39 |
| 10 | 1500W | 6.52 | 35 |

Electric underfloor heating can be used under tile, stone, or wood floorings*.

MYSON electric underfloor heating boxes contain the heating mat with connecting wire, a control card, the thermostat and floor sensor, a sensor pipe, multimeter and the installation manual. It comes with a 10 year warranty for the electric mat, and a 2 year warranty for the thermostat.

The MYSON Programmable Floor Temperature Controller allows programming to your personal needs.

Key features:

- One line text display for simplified operation
- Back light
- Real time clock (setting of year, month, day and time)
- Automatic Summer/Winter time change over
- Max 9 events per day (each day independently)
- Pre-set and adjustable programmes
- Optimum Start
- Holiday mode

*Please check manufacturer's guidelines

Experts in underfloor heating



MYSON leads the way in underfloor heating technology. As the only manufacturer to offer fully integrated mixed heating systems, we provide complete solutions — from design to delivery. We don't just supply products; we deliver peace of mind with expert support, precision design, and a 10-year complete system guarantee.

Tailor-Made for Comfort & Efficiency

Our in-house design team creates bespoke underfloor heating systems for maximum comfort, efficiency, and durability. Every solution is carefully calculated to meet your project's specific needs.

Why Choose MYSON?



Full design service

Tailored to your project



In-house manufacturing

Quality you can trust



10-Year complete system guarantee

Comprehensive system coverage



Expert technical support

Guidance from start to finish



Onsite support

Available on request



Fast quotes

24-hour turnaround



Direct site delivery

By arrangement



BEAMA member

Committed to industry standards

Call us on 0330 041 5474 or contact us by email: underfloor.uk@purmogroup.com

Let's build your perfect heating solution – together.

August 2025

MYSON

Purmo Group (UK) Ltd.
Eastern Avenue
Team Valley
Gateshead
Tyne & Wear
NE11 0PG, UK
T: 0330 041 5474 (Option 3)
E: underfloor.uk@purmogroup.com
www.myson.co.uk



Every care has been taken in the creation of this document. No part of this document may be reproduced without the express written consent of Purmo Group. Purmo Group accepts no responsibility for any inaccuracies or consequences arising from the use or misuse of the information contained herein.

