

Underfloor Heating

Why Choose Underfloor Heating?

It can be summed up in one word... comfort.

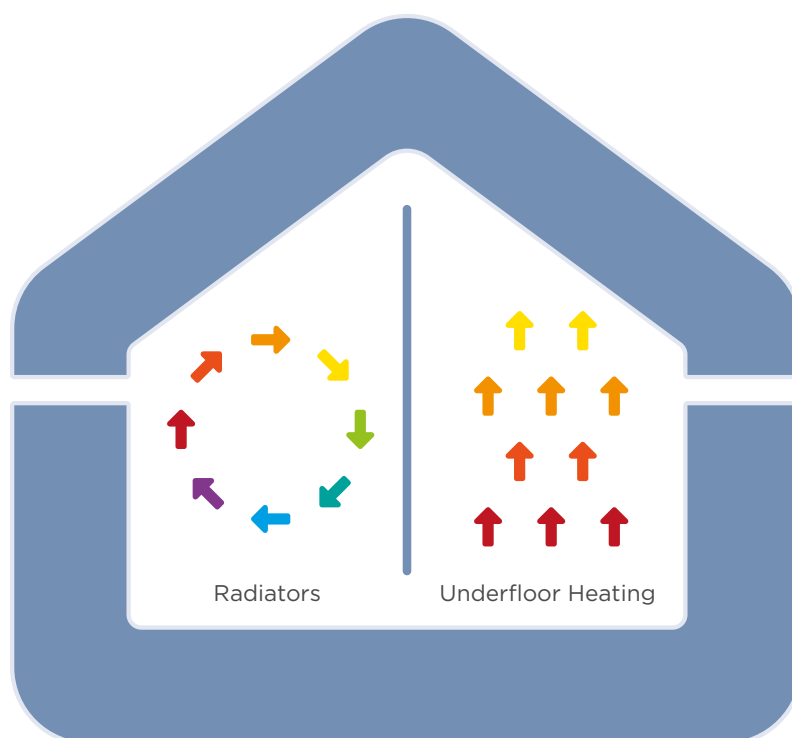
Your body is at its most comfortable with warm feet and a cool, temperate head. Luxusheat Underfloor Heating gives you just that, comfort.

In addition to matching the optimum requirements of the human body there are other key advantages to be gained:

- Extremely efficient to run
- Offers energy cost saving over traditional radiator systems
- Requires very little maintenance
- Even heat distribution without hot/cold spots
- Frees up wall space (no radiators required)
- Reduces dust & airborne allergens
- Perceived value & luxury added to your home

Underfloor heating is compatible with homes old and new, and can be installed in any type of floor structure. With a wealth of configurations available, let our experts advise on the best solution for you.

Underfloor heating is an extremely efficient way to warm a room, and gives a more pleasant heat than radiators, stoves or traditional solid-fuel fires. Heat is emitted gently. There are no cold spots and, as most of the heat is concentrated in the lower part of the room, very little heat is wasted.



Heat distribution radiators vs underfloor heating

Why Choose Luxusheat?

Luxusheat brings together a wealth of knowledge and industry insight

With over 30 years of experience within the underfloor heating industry we are ideally placed to provide you with expert advice on your project from conception to commissioning.

From our bespoke quotations all the way through to pipe layout designs, electrical and mechanical installation schematics, we are all about offering high standards of service and quality products.

All our chosen systems carry extensive product guarantees and certification, our designs are covered with Professional Indemnity Insurance, so you can feel confident choosing us as your underfloor heating partner.

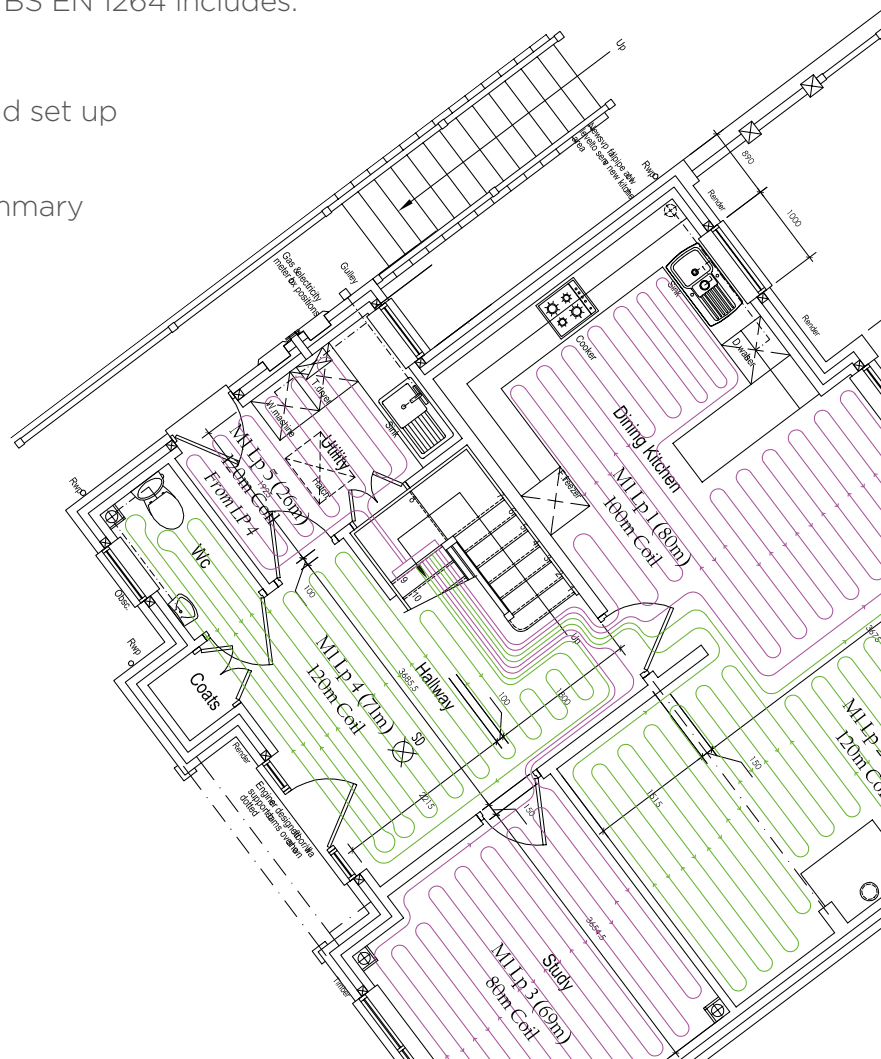
Luxusheat is all about high standards in our service and products offered. Contact us today to discuss your project and see how we can help you towards a life of luxury.

Should you wish to bring in your plans or discuss your individual project with one of our engineers, give us a call and make an appointment.

Luxusheat Design Services

When requested and on placement of an order Luxusheat will provide you with a full design package that will include a detailed drawing as a guide to the installation, and if required a comprehensive design that conforms to BS EN 1264 includes:

- Manifold design data
- Commissioning information for manifold set up
- Flow temperatures
- MCS heat pump emitter star rating summary
- Flow rates
- Pressure drop
- Mechanical and electrical schematics



Luxusheat Controls – Heatmiser

At Luxusheat rather than confuse the situation with a myriad of controls options we've selected the best available and made that our primary product offering. If you really feel that our selection doesn't satisfy your requirements then just give us a call and we'll be able to discuss alternative solutions.



Control from Anywhere

Neo is the Smart Way to Control your Heating and Hot Water from Anywhere. Up to 32 Rooms can be controlled from your iPhone, Android and Windows Phone. NeoStat's are stylish, feature-rich and are perfect for controlling underfloor heating, electric floor heating and conventional radiator heating systems.



Discreet Not Disruptive

Neo has been designed to ensure that upgrading is as easy as possible and surprisingly affordable. If you already have a wired thermostat, there is usually no new wiring requirements and by using your homes existing wiring you don't have to worry about replacing batteries.

Our NeoStat range is now also available in a wireless option with wireless wiring centres making installation even easier.

You also don't need any computer knowledge to start controlling your heating and hot water directly on the NeoApp.



Slim & Stylish – whether you prefer Sapphire Black, Glacier white or Platinum Silver, each NeoStat's stylish design and slimline appearance ensures it remains discreet and as its little bigger than a standard light switch, you will notice what it does rather than where it is.



App Control

NeoApp will positively change the way you control your home heating and hot water. No need to engage directly with time clocks or thermostats any longer, NeoApp allows you to control everything directly on your SmartPhone or Tablet.

NeoApp's intuitive design ensures programming and override features are quick and easy for anybody to use.

Lifestyles often follow patterns, Neo Profiles make changing patterns quick and easy. By setting up profiles, NeoApp users are able to switch heating control parameters with a few quick screen taps.

Whether you have a different profile for the weekend, work pattern, month or season, NeoApp allows you to instantly activate the profile that suits your immediate needs.

Getting connected to your Neo System couldn't be easier. NeoHub plugs directly into your broadband router and communicates to all of your NeoStat's via a mesh network. This mesh network provides a much more reliable and far reaching network than a standard RF system.



Heatmiser TouchPad

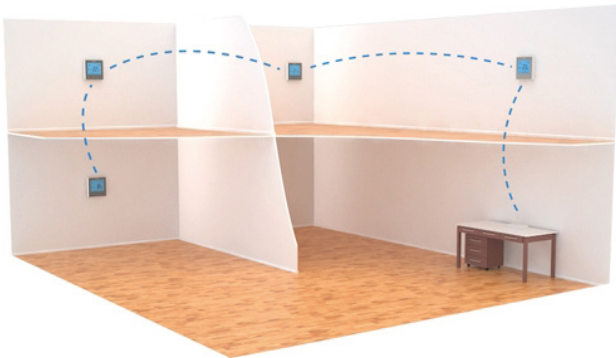


NeoHub 2



Heatmiser NeoKit 2

Luxusheat Controls – Heatmiser

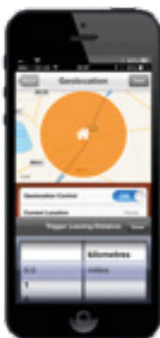


Multi Zone Control

By fitting multiple NeoStat's you can achieve ideal temperature control throughout your home.

Neo works with multi zoned homes, allowing you to control each zone independently from the NeoApp. Imagine having all rooms at an ideal temperature and being able to change settings instantly to suit your immediate needs. Not only will you optimise family comfort, you will maximise your energy savings too.

Geo Location works with multi zoned homes too, by allowing you to select which zones should be adjusted when you leave and return back home.



Geo Location

Using the Location Services feature on your iPhone or Android SmartPhone, Neo can now help you reduce your energy consumption by turning the heating off when you're out.

Supporting Multi Users, Neo can automatically reduce the temperature in your home when the last person leaves and increase the temperature when the first person returns.

Neo has always been about Multi Zone and our Geo Location Feature is no different by allowing you to select which zones you want to control when you leave or return.

Geo Location is perfect for busy households when a fixed heating schedule just isn't practical.



Luxusheat Water Temperature Controls

Underfloor heating systems require a lower water temperature than that of traditional systems such as radiators.

The Luxusheat water temperature controls regulate the water temperature down to the required temperature dependent on floor construction by mixing the primary water from the boiler with the lower temperature water from the heating return.

Luxusheat Compact Control Set (14kw)

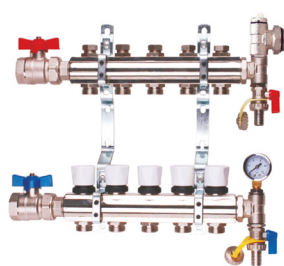
Lightweight compact underfloor thermostatic mixing control pack temperature range of 30-60°C complete with Wilo Yonos Para RS25/6 high efficiency pump. This unit has been designed for direct connection to Luxusheat heating manifolds with 210mm pipe centre dimensions and is supplied as a fully assembled unit with 1" BSP male spinning nut with O ring seal. It is fully reversible for left or right hand manifold connection.



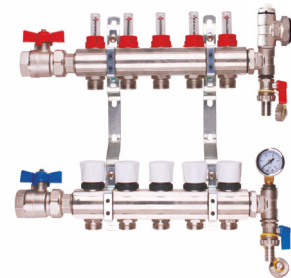
Luxusheat Manifolds

Our manifolds are high quality nickel plated complete with isolation valves, end caps, air vent on the flow bar & a pressure gauge on the return.

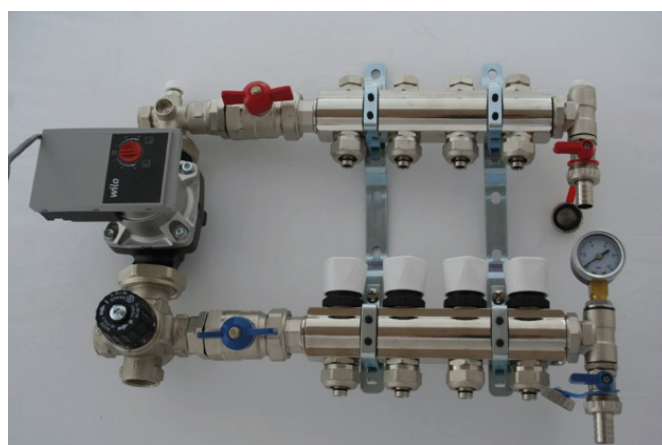
They are available with either flow meters or lockshield valves depending on customer preference.



Lockshield Manifold



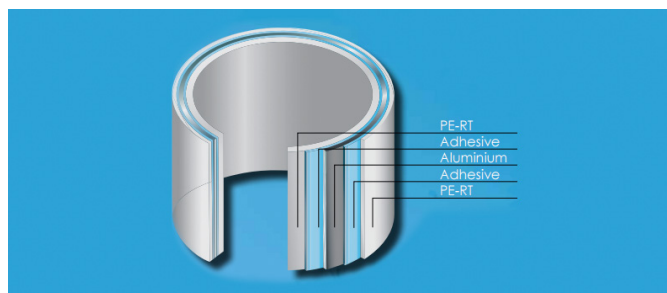
Flow Meter Manifold



Luxusheat Pipe Systems

Luxusheat offers both multi layer composite (MLCP) or Polyethylene Pipe cross-linked (PEX). MLCP is available in 16mm and PEX pipe is available in 12/16/20mm. Both systems are used extensively for domestic and commercial underfloor heating applications. Offering same guarantees and performance, two systems are offered due to your preference of flexibility of pipe, during installation of system.

Multi Layer Composite Pipe (MLCP)



The MLCP is available in 16mm and is used extensively for both UFH and domestic potable water systems. The pipe has full certification from all the relevant bodies, including WRAS approval.

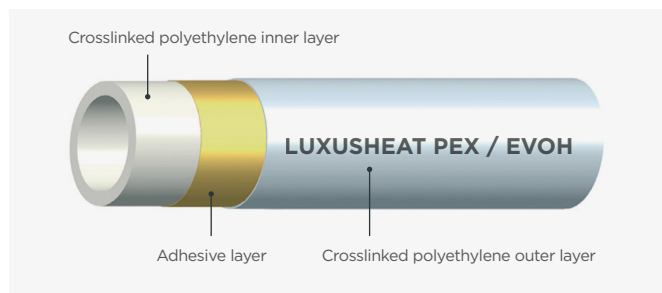
Due to the composition of the 5 layers MLCP offers a full strength alternative to copper with flexibility, making it extremely suitable for UFH applications.

Multi Layer Composite Pipe (MLCP) - Key Features

- Smooth low friction bore
- WRAS Approval
- No Scrap Value (thus reducing theft)
- Aluminium Core giving 100% oxygen diffusion tight
- No ingress of oxygen
- Minimal expansion
- Maximum operating temperature 95 degrees celcius
- Manufactured in Europe

Temperature	0-95 Degrees
Pressure	10 BAR
Application	Heating and Drinking Water

Polyethylene Pipe Cross-Linked (PEX)



The FlexiPex pipe system available in 12/16/20mm pipe diameters. This pipe system has been used extensively for UFH systems since the 1970's. PEX pipe typically is used for the following applications by diameter.

- 12mm - Overlay, refurb systems
- 16mm - Domestic systems
- 20mm - Commercial systems

Polyethylene Pipe Cross-Linked (PEX) - Key Features

- Smooth low friction bore
- No Scrap Value (thus reducing theft)
- Barrier preventing ingress of oxygen
- Manufactured in Europe
- Highly flexible

Temperature	0-95 Degrees
Pressure	10 BAR
Application	Heating Only

Underfloor Heating Floor Constructions

There are a multitude of differing options available when we consider underfloor heating and its specific application. Rest assured Luxusheat can accommodate all of the traditional floor constructions and below are a selection of the more common floor make ups you're likely to come across.

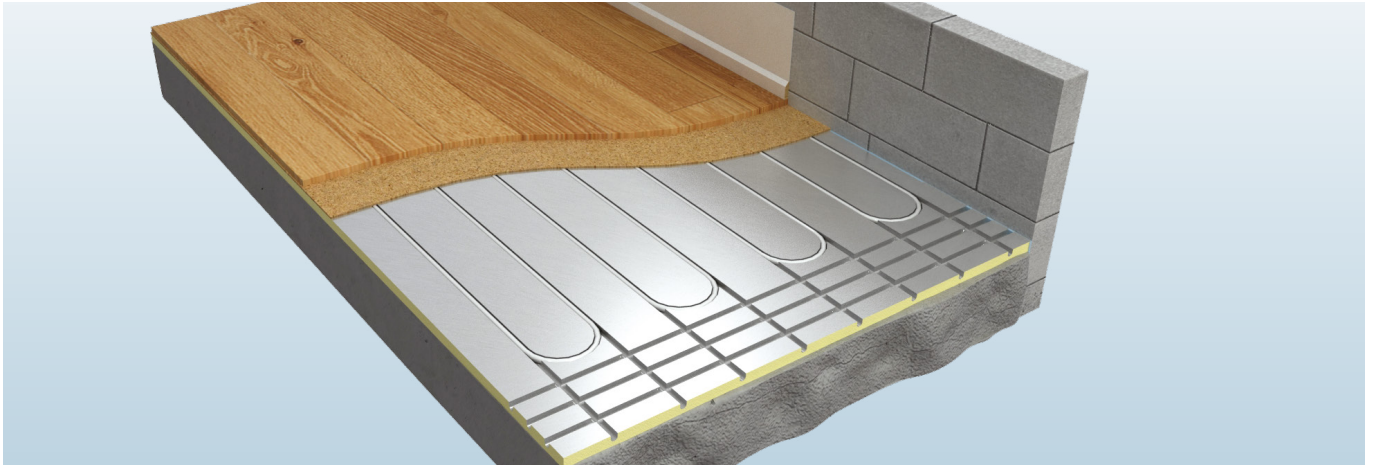
If you have a more bespoke application please don't hesitate to contact us to discuss your individual requirements.



Luxusheat Overboard 12

This is the perfect solution for retrofit applications with its low height of 18mm. Made from fibre cement the panels have excellent thermal conductivity and are ideally suited for any heat source.

Pre-grooved to accept Luxusheat FlexiPex 12mm at 150mm centres and coupled with our end returns it really is a simple installation. Existing floors may need to be latexed to ensure a flat surface to accept the overboard 12.



Luxusheat Overboard 12 Slim

This is the perfect solution for retrofit applications with its low height of 20mm. Made from extruded polystyrene the panels have excellent thermal conductivity and are ideally suited for any heat source.

Pre-grooved to accept Luxusheat FlexiPex 12mm at 150mm centres with end returns forming part of the board for the return of the pipe.

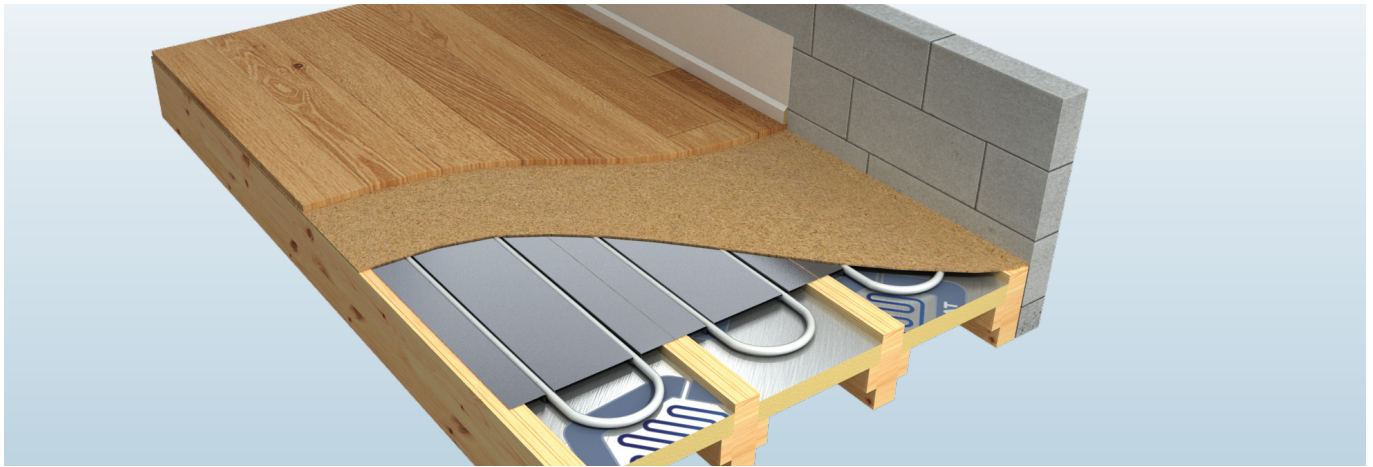
Easier to handle than Luxusheat Overboard 12 and lighter for 1st floor applications where weight may be of a concern for structural reasons.



Luxusheat Fit from Below

In some circumstances floor joists may be inaccessible from above making it difficult to install underfloor heating pipework without raising the floor height. To overcome this and make installation as easy as possible Luxusheat from below heat emission plates can be fixed to the underside of the decking from the floor below. Underfloor heating pipework can then be installed into specially formed grooves in the plates. The plates are designed for 400mm centre joists and hold the UFH pipe at 200mm centres to give equivalent output to standard heat emission plates. As with standard plates it is essential that insulation is installed between joists as close to the underside of the plates as possible to improve thermal conductivity.

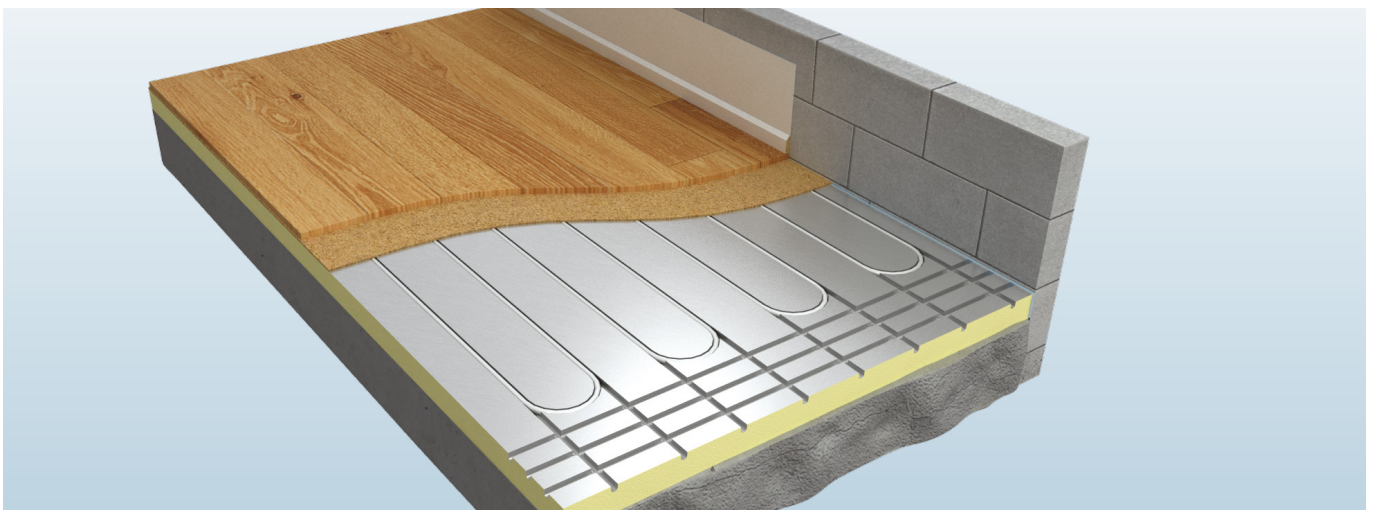
Underfloor Heating Floor Constructions



Luxusheat Timber Suspended - Emission Plates

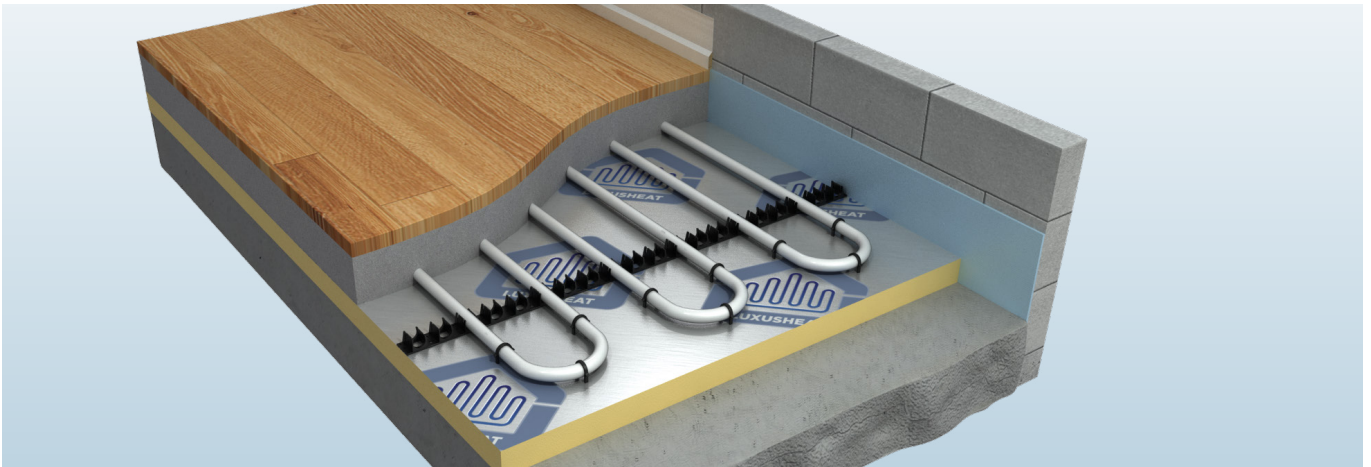
UFH pipework can be laid between timber joists with the help of emission plates. The plates are generally designed for suspension over joists at 400mm centres and are manufactured with grooves set at 200mm centres, however we manufacture many sizes so please refer to our pricelist for full details. If joists centres are different to the above a few methods of cross battening are available to give support to the plates and enable this system to be installed.

We recommend that insulation is placed below the emission plates, rigid foil faced insulation boards or rock wool, to avoid air pockets and aid thermal performance of the floor.



Luxusheat Floating Floor

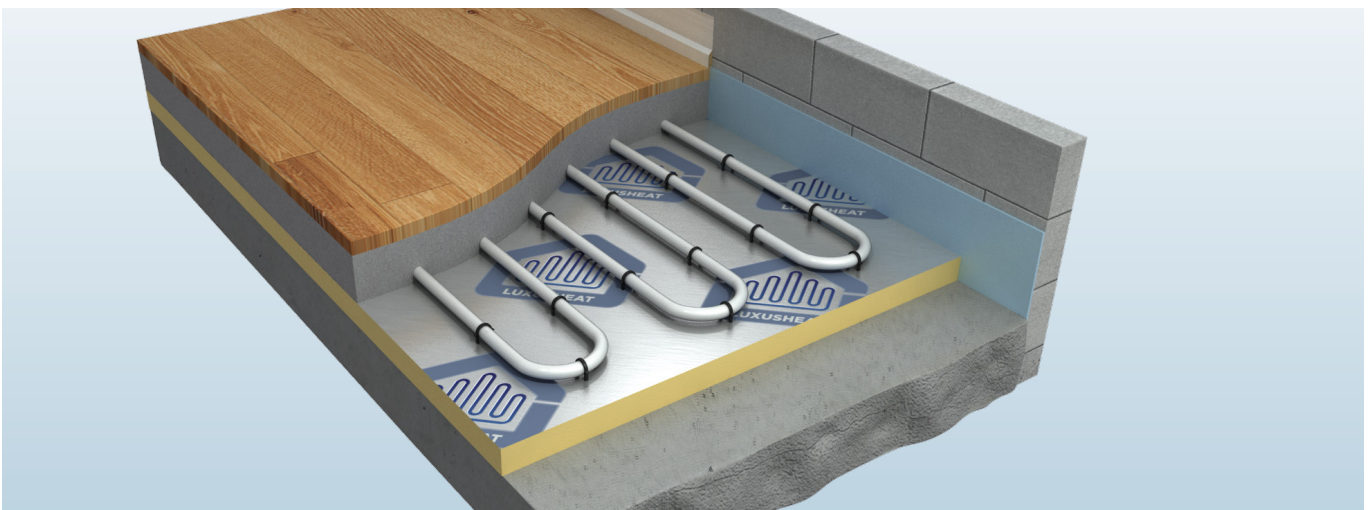
The Luxusheat floating floor systems are high grade extruded or expanded foil backed panels with grooves at 150mm centres to take 16mm pipe. Ideally suited to most retrofit applications and available in 30, 50, 75 & 100mm depths to cover all eventualities.



Luxusheat Screed - Rail & Clips

An excellent method of installation where the rail is laid out in a matrix across the floor to allow a clipping system for the pipework, either 16mm or 20mm.

Laid out with a maximum of 500mm from the walls and 1000mm spacing between rails, simply fix them to the floor insulation with either the barbs or tape attached or alternatively pipe clips. Ensure the pipe returns are secured with additional clips.



Luxusheat Screed - Clips

Using the Luxusheat staple gun simply clip the pipework directly through the slip membrane to the floor grade insulation. The clips come in two lengths of 40mm and 50mm and hold the pipework fastened during the screeding process. This is a tried and tested cost effective solution with high outputs.

Underfloor Heating Floor Finishes

Underfloor heating can work perfectly well with the majority of floor finishes so long as a few basic principles are adhered to and considered in your design process.

Its always worth discussing your final floor finishes at design stage as your system designer can help to ensure the required room temperatures are achieved by allowing for more pipework in rooms with high thermal resistance floor coverings.

Suitability

Flooring manufacturers may stipulate a maximum floor temperature for their product; please contact Luxusheat if this is the case so it can be considered at design stage. We work to BS EN 1264, which states that underfloor heating surface temperature should not operate at more than 29°C in living areas and 33°C in wet rooms.

As part of our complete design service we are available to discuss any concerns you may have on suitability. If you are planning on using a floor covering not listed, please contact us.



Stone and Ceramic Tiles

Tile and stone floors are ideal for use with an underfloor heating system due to their low thermal resistance. The high thermal mass of stone and ceramic tiles means that they are particularly suitable for use with Luxusheat underfloor heating systems.

As stone and tile flooring have good thermal conductivity, the floor heats up rapidly saving energy. The thickness will have an impact on the heat-up time where a thicker tile will take slightly longer to warm-up compared to a thinner one, but there is no significant change in the power output.



Laminate Flooring

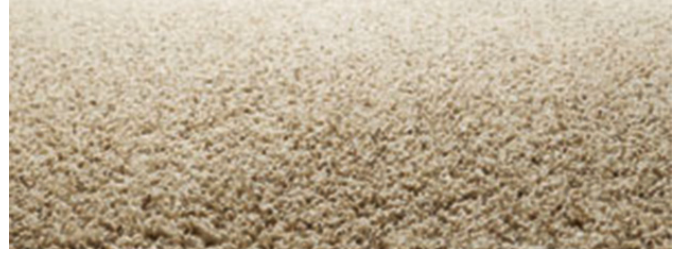
Combining a Laminate floor with traditional underfloor heating embedded in the screed is no problem at all. However, it is important that you install your floor 'floating' and that you choose the right underlay.

The floating installation and strong connection of the joints ensure that the laminated planks will be stable and will not move when the heating is on. Possible condensation problems underneath are prevented by the moisture barrier.



Timber Floor

Engineered timber is the best option for use with underfloor heating as its structural stability allows it to perform well with fluctuating temperatures. Solid hardwoods and softwoods also transfer heat well but care should be taken when specifying board width and thickness. It's important to let your timber floor acclimatise to ensure the moisture content does not exceed 10%.



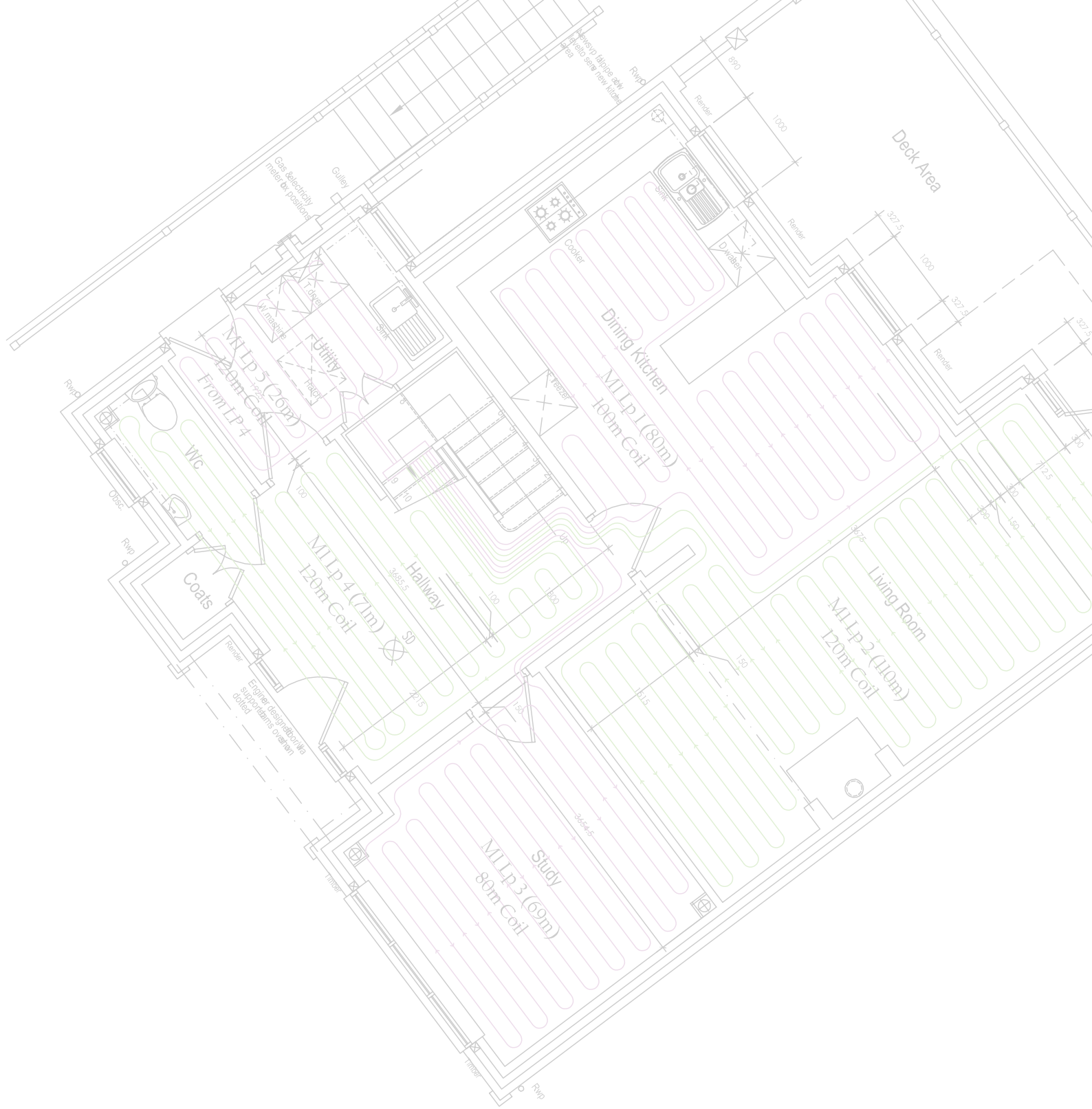
Carpet

When dealing with Underfloor heating systems we are often asked about their compatibility with carpet. The Carpet Foundation carried out some research in conjunction with the Underfloor Heating Manufacturers Association (UHMA) and this proved conclusively that most carpet can be used over underfloor heating systems without impairing the performance of the system.

The research showed that a carpet/underlay with a combined thermal resistance of less than 2.5 togs allows the underfloor system to operate efficiently. Indeed, the real thermal resistance values of carpet/underlay were on average 1 tog lower than was previously believed.

When you are fitting an overlay system and overboarding the system with tongue and groove 18mm boards, in addition to the resistance of the underlay and carpet, the resistance of the board should be taken into consideration too.

So, while you can be reassured that carpet and underfloor heating systems can operate effectively and efficiently together we do recommend that you consult with your carpet supplier to ensure that your choice of carpet/underlay combination is suitable for the system.



Distributor Details