



Underfloor heating
made simple





Underfloor heating made simple

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About us

Why John Guest?

What makes JG Speedfit Underfloor different?

Working together with...





Why John Guest?

When Mr John Guest opened his factory doors over half a century ago, his vision was to create a company offering great quality products and excellent customer service. Today, this ethos still rings true. John Guest's reputation as a world-leading manufacturer of high quality, innovative, plastic push-fit connectors and pipe is still going strong.

Five decades of engineering expertise

John Guest was the first manufacturer of the push-fit fitting. With significant engineering expertise behind our push-fit concept, the uniqueness of our product lies within its high reliability of performance, longevity of service and ease of use.

Maintaining control over the whole production process from product and tool design through to final assembly ensures our fittings, UFH products and pipe are of the highest standard, which has earned us global recognition as the industry benchmark.

Trusted by many

Billions of our push-fit connectors are used worldwide, with a diverse range of industries relying on our pioneering technology. Whether you are taking a shower, driving a car, making a call, using broadband, or enjoying a pint at your local pub, it is likely you will come into contact with the same Speedfit Technology used in all our products from plumbing and heating to telecoms, compressed air and automotive.

Within the UK we are considered one of the leaders in the plumbing and heating market, and as you would expect our products are available in the majority of plumbers and builders merchants.



Made in the UK

We are proud that all of our fittings and pipes are manufactured in the UK – it tells you that our quality, innovative and reliable products are made to the very highest British Standards. Not many push-fit manufacturers can make this claim.

Guaranteed to perform

All of our components are manufactured under the ISO9001 Quality Management System. Our quality assurance team stringently test them at every stage of production. Whilst we are confident you will not need to use your guarantee, we do provide:

- 25-year guarantee on all fittings and pipe
- 5-year guarantee on JG Aura heating controls and TRVs
- 2-year guarantee on manifolds and control packs

Recognition of excellence

All the relevant industry bodies and accreditations endorse our standards, giving you the assurance you are buying from a company that constantly raises the standard in product innovation and design.



What makes JG Speedfit Underfloor different?

JG Speedfit Underfloor Heating is committed to developing energy efficient heating solutions. Bringing together the best and latest technologies, we provide design-led solutions underpinned with unrivalled technical support.

With you every step of the way

We give you all the help and support you need - before, during and after installation. Whether your project is small, big or complex, we offer a free design, estimation and technical support service. With our experience, you can be assured that our experts will design the most energy efficient solution. Once you have placed your order we will produce easy to follow CAD drawings.

Save time and money with easy fit systems

By combining our push-fit technology with ultra flexible JG Layflat® pipe, pipe fixing systems and pre-assembled manifolds, we offer a comprehensive range of underfloor heating solutions that are quick and easy to install. Plus our 15mm pipe also reduces waste as any overcuts can be used on your next plumbing job.

JG Aura: a smarter way to control heat

At the heart of our heating control concept is our unique 4-in-1 thermostat for the remote regulation of underfloor heating, radiators and hot water. With individual and multi room control, heating can be controlled from anywhere and at anytime using the free JG Aura App.

Universal heating control

We offer a wide range of underfloor heating solutions to suit any project type or size. Whether you are installing underfloor heating downstairs or radiators upstairs – or vice versa – you can combine Speedfit Underfloor Heating with JG Aura Wireless TRVs to enable full zonal control of both radiators and underfloor heating.

Unrivalled technical support

Although we are a global company we are still a family run business that understands the importance of serving local customers. Within the UK plumbing and heating market, we boast one of the largest technical sales teams providing onsite assistance for first time installers and helpdesk support for more seasoned installers.





Working together with... Installers

Speedfit Underfloor has been providing competitively priced energy-efficient underfloor heating systems for decades. Working with you before, during and after your project allows us to offer a complete design and technical support package.

A perfect solution for any project

Are you working on a new build, retrofit or refurbishment? We have a comprehensive range of underfloor systems for all projects and floor constructions. You can also combine our system with JG Aura Wireless TRVs to enable multi zone control throughout.

Your reputation in safe hands

We understand that a good reputation is crucial to your business. With Speedfit Underfloor your reputation is in the safest hands as all our products are manufactured to the highest standards using the latest technologies.

Designing the right solution

Eliminate any guesswork with our free design and estimation service. With a dedicated point of contact, you can be confident any pre-sales technical enquiries, drawings and estimates will be turned around quickly. And for pricing on the spot, use our handy online estimator.

Easy to install with onsite backup

Simple to install and easy to use, all of our underfloor heating systems come with illustrative manuals telling you everything you need to know. Plus, for first time installers our technical experts – based throughout the UK – can provide onsite backup as well as helpdesk support on future projects.

Handy user guides and videos

With our handy quick reference guides and online videos, you can be confident your customers have everything they need to get the most out of Speedfit Underfloor Heating. Visit speedfitUFH.co.uk to view a wide selection of online guides and videos.





"Combining Speedfit's UFH and TRVs enables us to offer our customers a single heating solution that delivers great energy efficiencies. The solution was easy to install and the support from Speedfit was first-class. Since this installation we have completed a number of high-end UFH projects and continue to see good business growth."

Richard Doyne,
Owner Richard Doyne Plumbing & Heating.

Working together with...

Architects & Developers

Underfloor heating is fast becoming the preferred form of heating due to its efficiency and thermal comfort. Our comprehensive range also provides luxurious heat, style and extra room for design.

Designing the perfect fit

Whatever your budget or requirements, our reliable heating solutions are flexible enough to work across a variety of projects and floor applications. Our design experts will put together the best solution for any project, whether it is a prestigious brick and block construction, timber frame or barn conversion. From first floor to multi-storey domestic and light commercial applications to new builds and retrofits, we have the perfect solution.

More room for design

Replacing bulky, unsightly radiators with underfloor heating frees up wall and floor space giving complete freedom to create an inspiring design.

Luxurious heat that pays for itself

Add an extra touch of class to your development with Speedfit Underfloor. By specifying our high quality and innovative solution you will generate more interest from potential buyers and create a saleable advantage. It can either be offered as a standard specification or upgradable option.

Making a statement with style

Our stylish heating controls have a contemporary design adding a touch of elegance to the way underfloor heating is controlled. As well as offering multi zone regulation, with our free JG Aura App heating can be controlled from anywhere.

From design concept to reality

Our technical experts will support you every step of the way from initial design ideas to visiting the site to work out the finer details, when required. Based across the UK our teams are available no matter where you are, and with a single point of contact you can be assured the project will run seamlessly. Once an order has been placed we will even produce free CAD drawings and offer your installer technical support throughout.

Helping you win more business

We can advise your sales staff on how to sell the benefits of underfloor heating and train your construction experts on good installation practice. And if you need CAD drawings or heating control instructions for your homeowner packs, we can provide you with all the information you need.

Taking care of the legal stuff

All of our underfloor heating systems are designed to comply with current building and regulatory requirements and all of our components are guaranteed.





"Having worked with JG Speedfit for more than 10 years, we already knew that we were working with a proactive company and they provided the same service for the Halo project. The independently controlled zones provide our customers a level of flexibility that enables them to customise the system around their lifestyle, while the technical support we received means we didn't have any concerns during the process."

Russell Dawkins,
Technical Manager, Crest Nicholson.

Working together with...

Homeowners & Self-builders

Underfloor heating has never been more affordable and unlike bulky radiators it is completely hidden from sight and more energy efficient, giving you the space to create luxurious heat without compromising interior design.

Innovative, tried and tested heating solutions

Whether you are building a new house, extension or renovating a room, you can be sure with our huge range of systems we have the right solution for you. All of our products are manufactured to the highest standards using the latest technologies and are compatible with conventional and renewable energy heat sources.

Save money by using less energy

Underfloor heating cuts heating bills and energy consumption. More efficient and environmentally friendly than radiators, underfloor heating provides better heat distribution.

Make more of your living space

Tired of bulky radiators cramping your style? Speedfit Underfloor Heating systems are out of sight giving you extra space for interior design and a clean decorative finish.

Universal heating control

If combining UFH with radiators, why not combine Speedfit Underfloor Heating with JG Aura Wireless Thermostatic Radiator Valves to give you an integrated heating solution throughout your property. JG Aura Wireless TRVs are easy to install as they simply replace the manual valve on existing or new radiators.

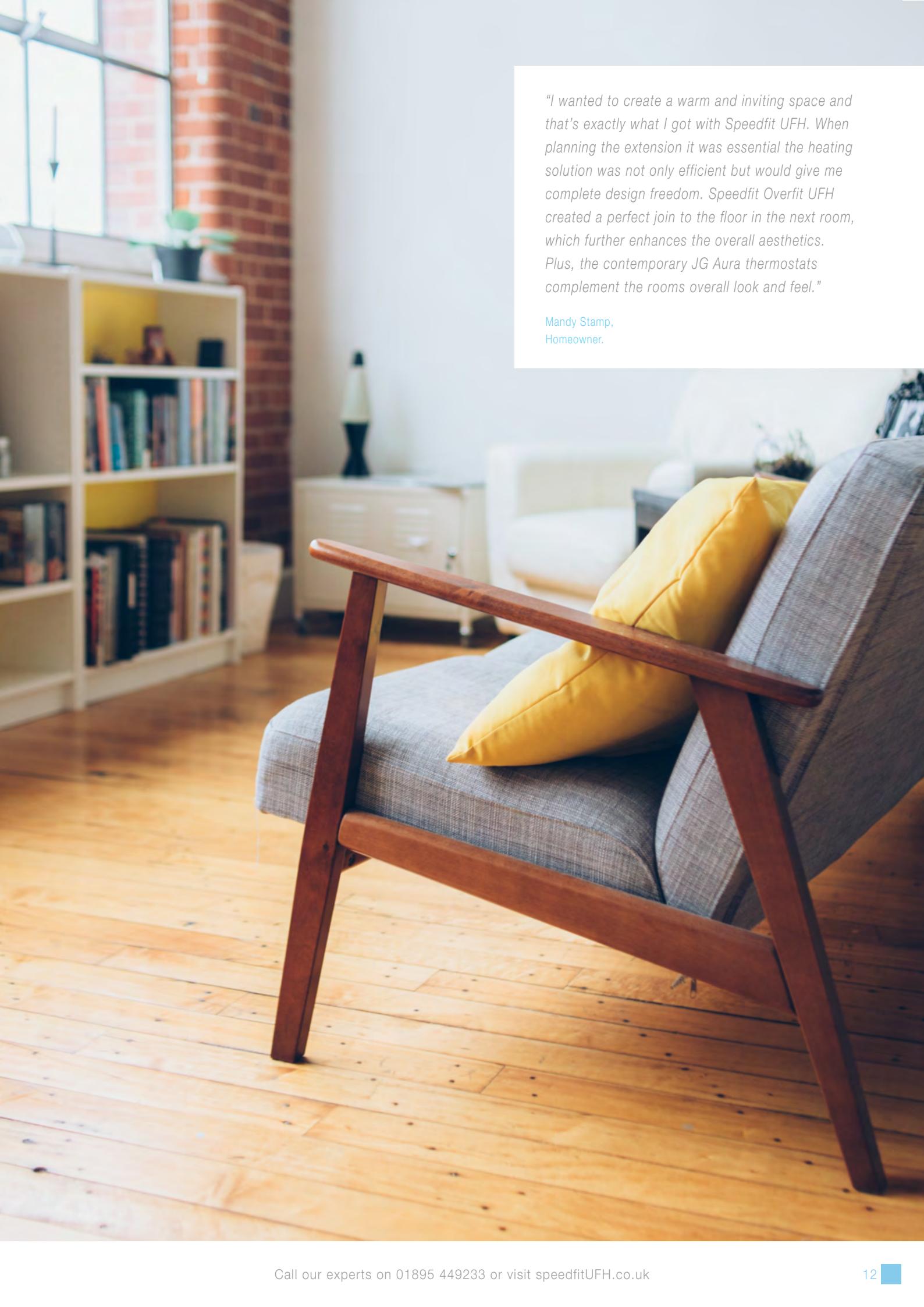
Add elegance, quality and style to your home

Our stylish heating controls have a contemporary design, adding a touch of elegance to way underfloor heating is controlled. As well as offering remote regulation, with our free JG Aura App heating can be controlled from anywhere. Available in black or white, we have heating controls that will complement any decorative style.

Bring your project to life

Our teams are highly skilled and experienced and have one simple aim: to help you make the best of your home. From estimations, design and manufacture, they pay great attention to detail to make sure you get the most effective underfloor heating solution. We can even recommend preferred Speedfit Underfloor Heating installers.





"I wanted to create a warm and inviting space and that's exactly what I got with Speedfit UFH. When planning the extension it was essential the heating solution was not only efficient but would give me complete design freedom. Speedfit Overfit UFH created a perfect join to the floor in the next room, which further enhances the overall aesthetics. Plus, the contemporary JG Aura thermostats complement the rooms overall look and feel."

Mandy Stamp,
Homeowner.

Working together with...

Stockists & Distributors

Demand for underfloor heating is growing fast due to its affordability, energy efficiency and luxurious comfort. With a strong brand reputation and high quality range of underfloor heating systems – underpinned by an extensive support network - Speedfit Underfloor is the perfect partner for your business.

Underfloor heating made simple

Our underfloor heating solutions are competitively priced and are designed to be quick and easy to install, but for those needing extra guidance we offer full technical support. From free estimates and bill of materials to easy to follow CAD design and onsite technical advice, our experts are on hand to support your customers. We also have a handy online estimator for pricing on the spot.

Dedicated account management

Not only will you benefit from the resources and expertise of a global business, you can also take advantage of a personalised local service. With one of the largest sales and technical teams in the UK, Speedfit is uniquely placed to visit local branches to provide support. Your dedicated account manager will handle everything from identifying the right stocking profile through to launch support, merchandising, marketing collateral, PoS material and sales promotion.

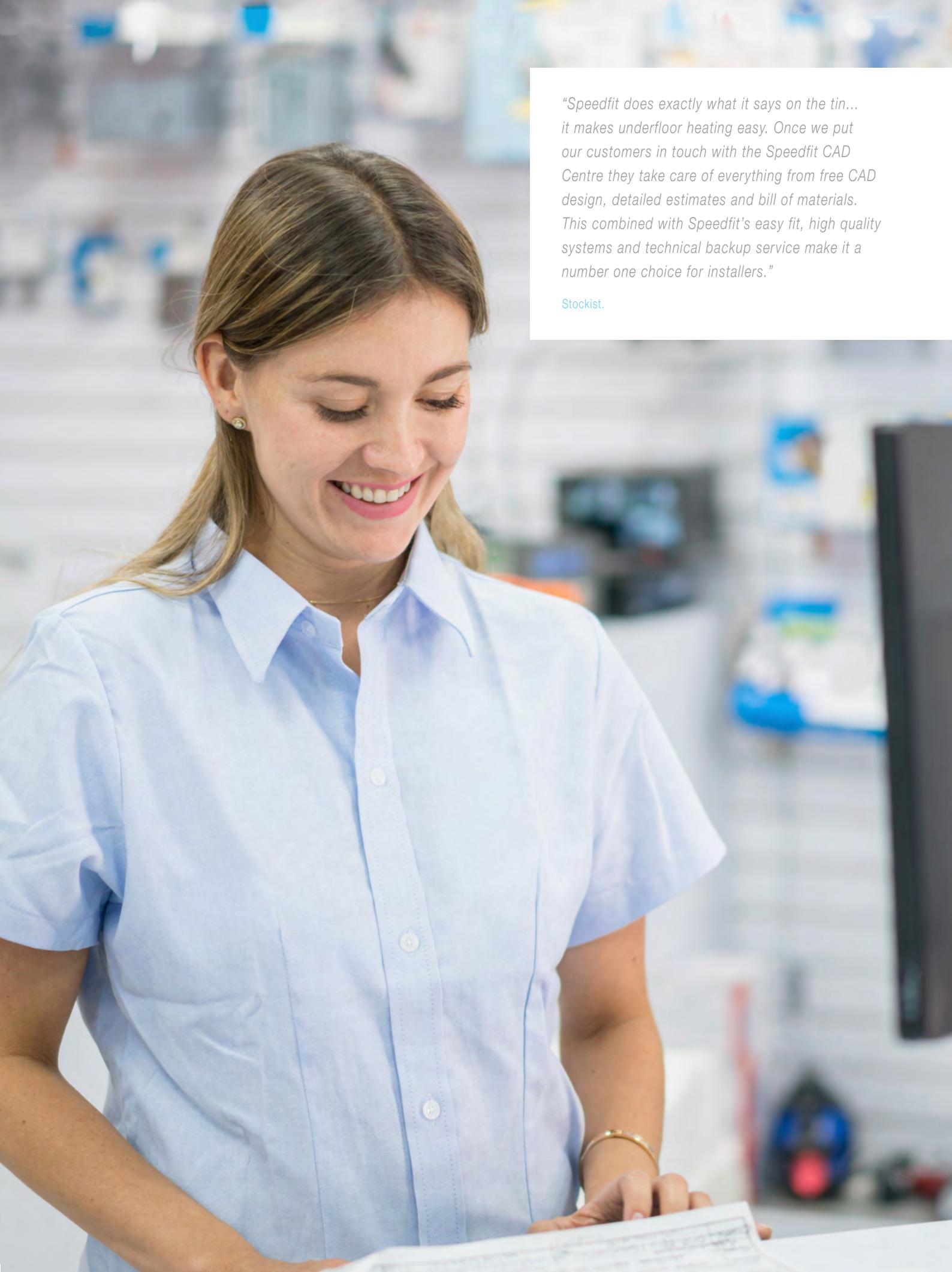
Helping you win more business

Our sales team will work closely with your sales teams to develop targeting strategies to maximise sales and profitability through joint customer visits and driving trade and demonstration days. We also run annual promotional campaigns advertised nationally, encouraging customers to purchase from JG stockists.

Selling smarter

With one of the largest sales teams in the industry we can visit local branches to give onsite technical training on the latest innovations and the most effective way to sell our products. Tailored to your needs this support includes anything from good installation practices, trends and product selection.

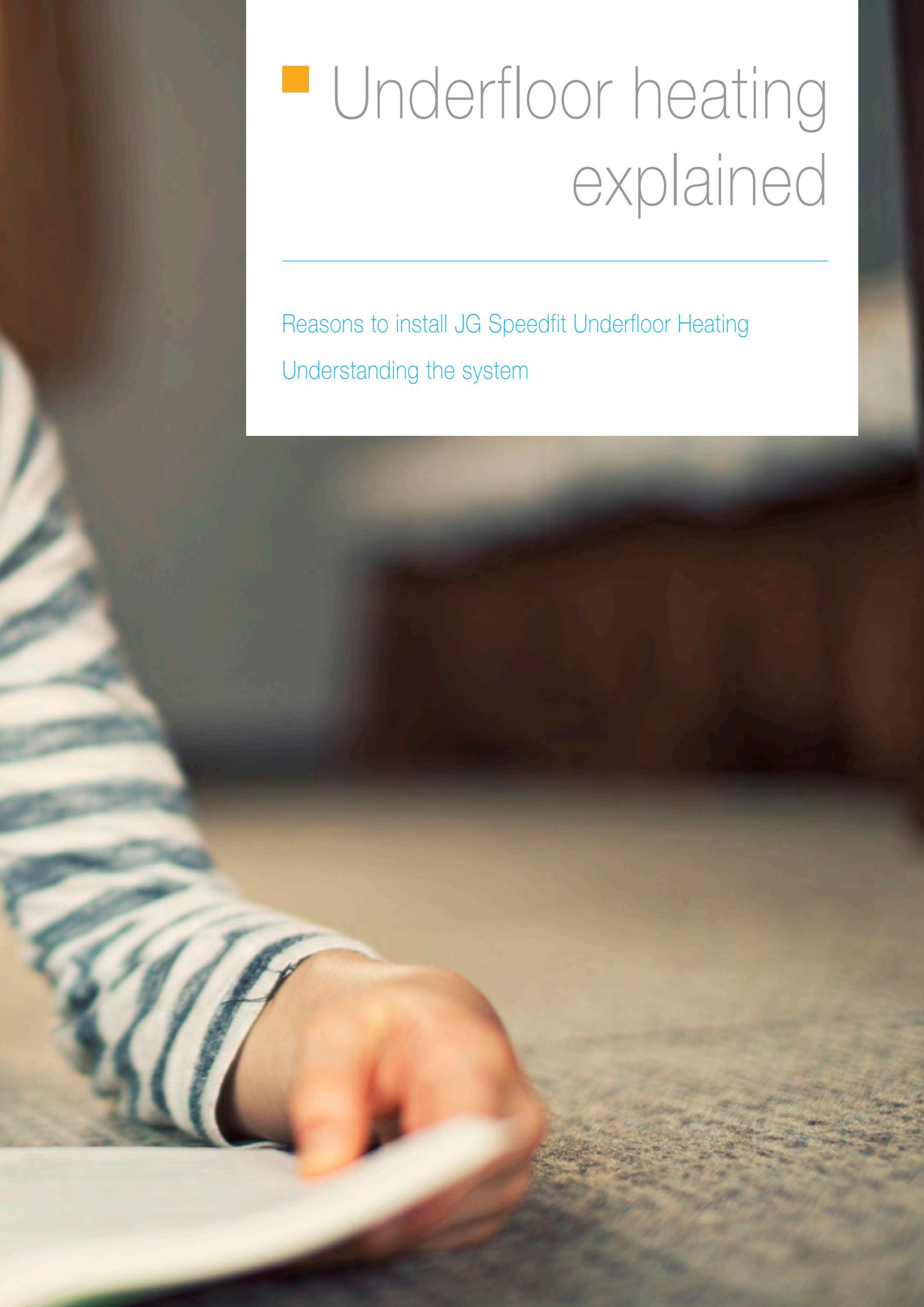
A full list of system components can be found at speedfitUFH.co.uk or in our [trade price list](#).



"Speedfit does exactly what it says on the tin... it makes underfloor heating easy. Once we put our customers in touch with the Speedfit CAD Centre they take care of everything from free CAD design, detailed estimates and bill of materials. This combined with Speedfit's easy fit, high quality systems and technical backup service make it a number one choice for installers."

[Stockist.](#)





■ Underfloor heating explained

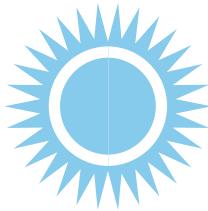
Reasons to install JG Speedfit Underfloor Heating

Understanding the system



Reasons to install JG Speedfit Underfloor Heating

At Speedfit we make underfloor heating simple offering high quality solutions underpinned by unrivalled technical support throughout the UK. Not only does Speedfit Underfloor Heating create a better use of space, it is more efficient and kinder to the environment too.



More comfort

Like The Sun, UFH uses radiant heat to warm objects and the fabric of the building to create a cosy, comfortable environment.



Greater heating control

Create the perfect comfort zone with individual or multi room temperature control - simple, standard and smart solutions.



More living space

By removing bulky and unsightly radiators it will free up wall space and give freedom for interior design.



Healthy & safe living

Less moisture and lower air movement may help reduce dust allergens. Plus with no hot radiators and sharp edges it creates a safer space.



Reduced heating bills

Designed to work with low water temperatures, Speedfit Underfloor Heating can reduce energy consumption and heating costs.



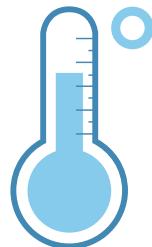
Renewable heat source

Compatible with conventional and renewable heat sources that reduce environmental impact and cut fuel bills, including air and ground source heat pumps and solar panels.



Less noise

Create a relaxing and tranquil ambience with no more creaking pipes or water flow noise. Virtually silent to run.



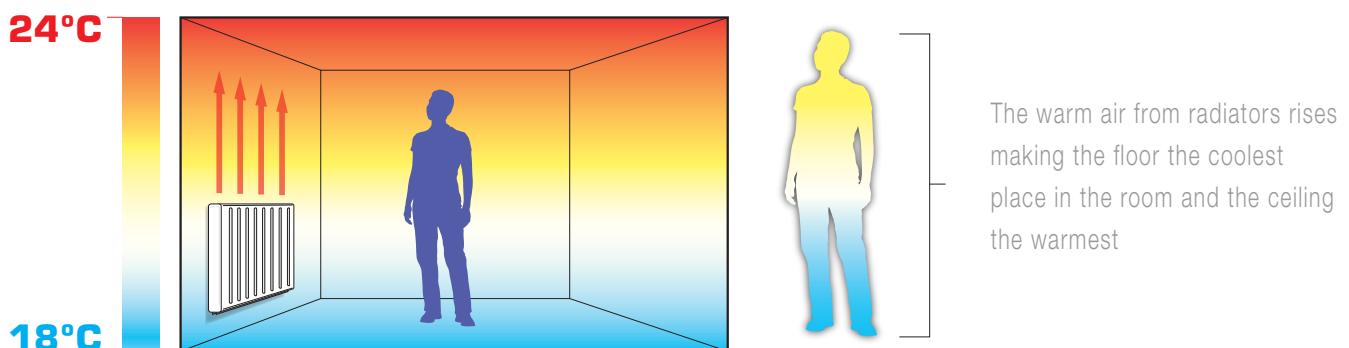
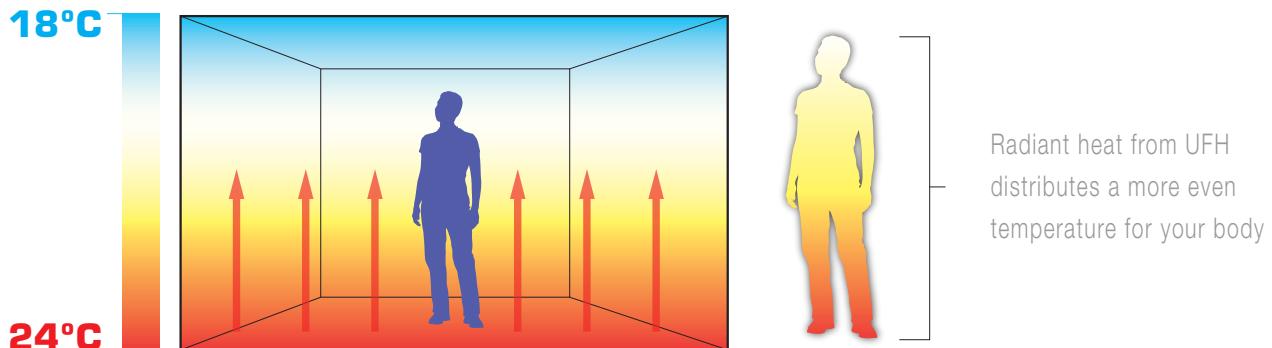
Universal control

Enable multi zone heating throughout the property by combining Speedfit Underfloor with JG Aura TRVs on existing or new radiator systems.

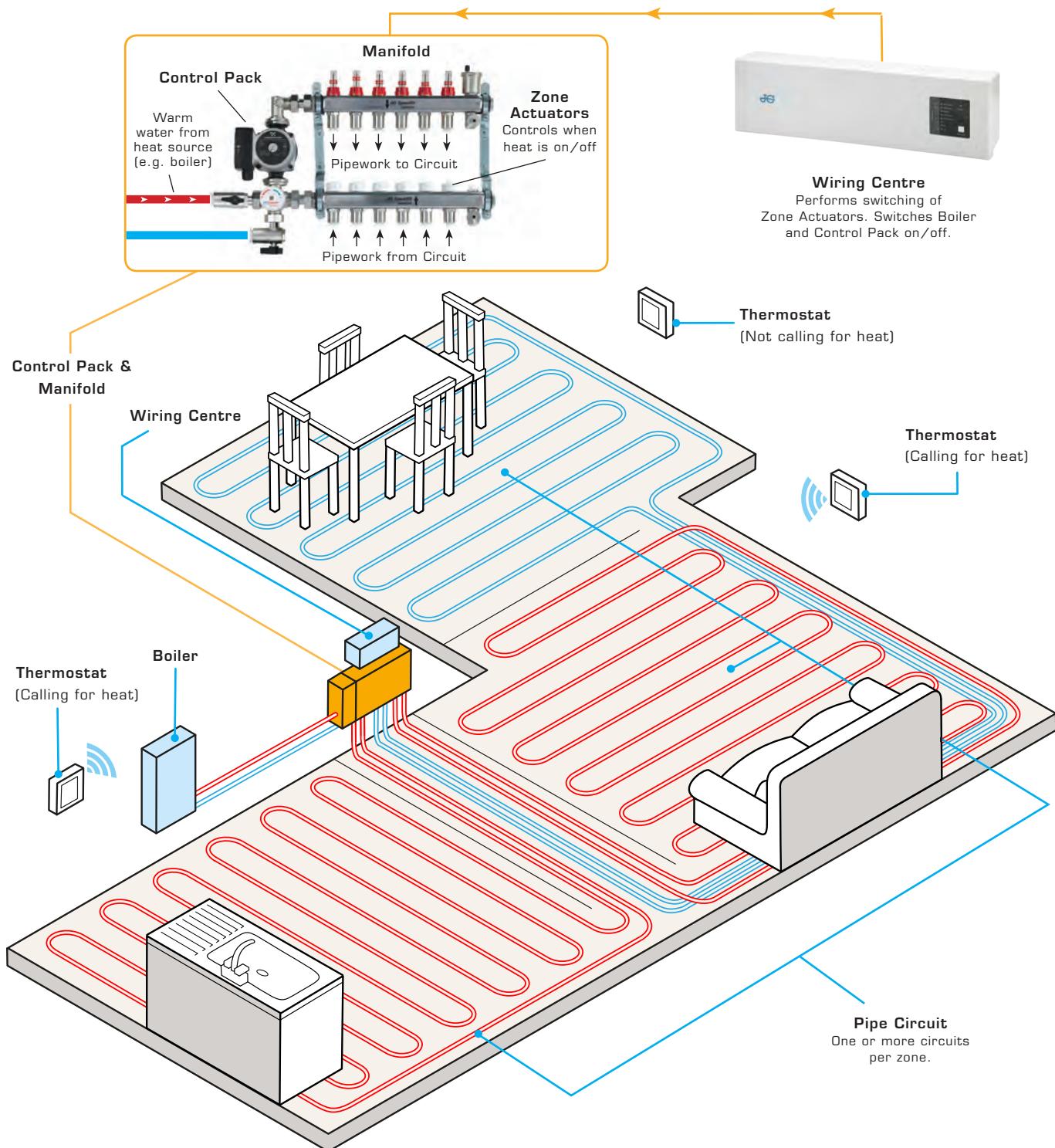
Understanding the system

Speedfit Underfloor heating uses mainly radiant heat, the most comfortable form of heating, giving an even distribution of warmth over the whole room. By contrast, radiators transfer energy using convection, heating the air above and around the radiator at a much higher temperature, causing the warm air to rise. This results in the floor being the coolest place in the room, with the mass of warm air at ceiling level. Underfloor heating resolves this issue by ensuring there are no more cold spots and that heat is distributed evenly where it is needed most.

A conventional radiator can be as hot as 75°C, whilst an underfloor heating system has a much lower and safer surface temperature between 25-27°C.



Underfloor heating works by distributing a lower temperature of warm water through a circuit of pipes beneath the finished floor. Heat is monitored and controlled by intelligent thermostats to maintain a consistent temperature throughout the property or individual zones. Any heat source can be used for underfloor heating including conventional and renewable heat sources.



Control Pack & Manifold

Warm water is pumped from the heat source to the control pack and mixed to approx 50°C. The control pack is fitted to the manifold that connects to the pipe circuits.

Thermostats

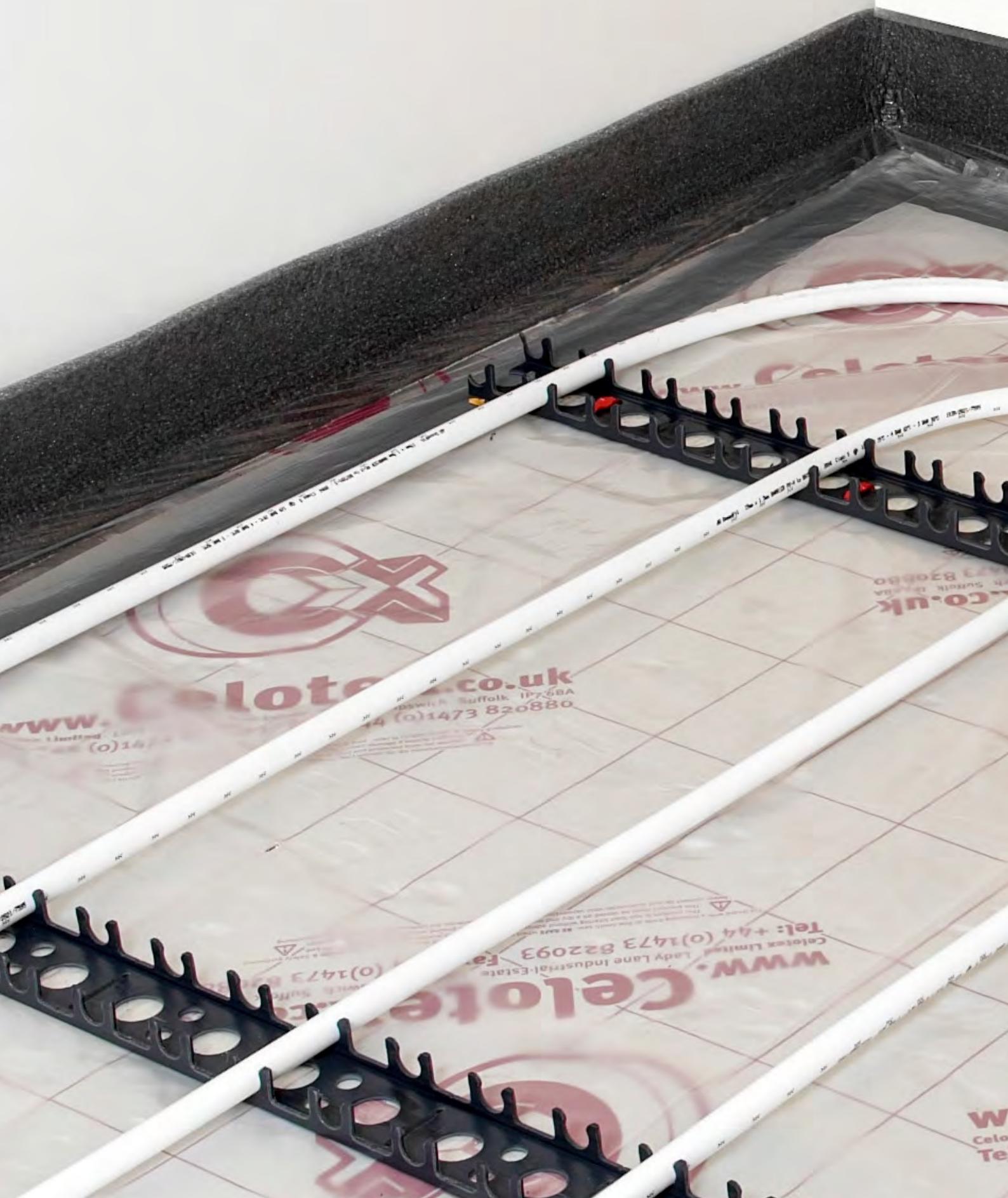
Individual room thermostats control when heating is required in each room, as well as the temperature required in each room.

Wiring Centre

Performs central switching of zone actuators, control pack and boiler as signalled by the thermostats.

Pipe Circuit

When heat is switched on the entire floor area is warmed to between 25°C - 28°C, providing even distribution of heat at slightly higher than room temperature.





Our underfloor heating collection

[Project fundamentals](#)

[Choosing the right solution](#)

[Speedfit solutions at a glance](#)

[Screed floor solutions](#)

[Timber floor solutions](#)

[Existing floor solutions](#)

[Room Pack solutions](#)



Project fundamentals

All Speedfit Underfloor Heating systems are supplied to specification and consist of high quality and dependable components.



Flooring solutions

No matter what type of floor or space you are working with we have a wide range of floor solutions offering great heat distribution. All of our pipes fixing systems use ultra flexible JG Layflat® pipe and connect to the manifold using our trusted Speedfit push-fit fittings, making installation quick and easy.



Barrier pipe

JG Layflat® pipe is made from a soft material with little memory, making it ideal for laying underfloor heating pipe circuits. Made from Polybutylene, the 15mm pipe has an inner barrier to stop the ingress of oxygen molecules and is approved by British Gas for water pipe in vented and sealed central heating systems. Available in up to 300m coils.



Manifold

Manufactured to the highest standard, our manifolds are made from stainless steel and are available in a range of sizes from 2 to 12 zones. All manifolds come fitted with brackets and a vibration isolation mount. A unique feature is that pipe connections are all made with easy to use Speedfit push-fit fittings. Integrated within the manifold rail is a pre-assembled automatic air vent, filling valve and flow rate indicators for adjusting flow and isolating the pipe circuit.



Actuator valves

Controlled by a thermostat or programmer, Actuator Valves operate to open or close an individual circuit on the manifold.



Control pack

Used to mix and control water temperature, Speedfit's lightweight control pack is suitable for heating systems up to 14kW and connects directly to the manifold without the need of extra brackets or support. The nickel-plated control pack consists of a mixing valve, Grundfos A rated pump, return elbow, manifold adaptor and all necessary seals. Speedfit push-fit pipe connections can be made from the side or below the manifold. The pack also isolates all system components for maintenance purposes and can be mounted either side of the manifold to suit application.



Heating control

JG Aura's unique 4-in-1 thermostat enables remote regulation of underfloor heating, radiators and hot water. We have a wide range of options from easy to use 230v dial thermostats to wireless programmable devices that can be controlled by your smartphone or tablet via the JG Aura App.

A full list of system components can be found at speedfitUFH.co.uk or in our [trade price list](#).

Choosing the right solution

Different underfloor heating systems vary in performance, so it is important to choose the right system for your project. To decide which pipe fixing system is best, you need to consider how the floor has been constructed as well as the desired final finish.

A system for every floor construction

Screed floors and underfloor heating

Using thermal conductivity heat is transferred from pipes encased in screed to the finished floor level and are typically used for ground floor applications in new builds. Screed systems are constructed over slab or an oversite base with edge insulation fitted around the perimeter to allow for expansion and contraction as well as the prevention of heat conduction from the floor to the wall.

Timber floors and underfloor heating

15mm JG Layflat® pipe is installed into single or double grooved aluminium spreader plates that transmits heat evenly across the finished floor surface. For existing floor structures install between battens and for new floors fix between existing joists. If the floor can be raised, floors can also be counter-battened to make installation even easier.

Existing floors and underfloor heating

Laid directly on top of existing solid floors or under the floor between timber joists or over the floor between battens. There is a range of options for retrofits using low profile, high density, grooved foil-faced panels.

A system for most floor finishes

Some floor finishes offer better thermal conductivity than others and can therefore impact system performance.



Ceramic & Stone

Most ceramic and stone floor finishes have a low thermal resistance. The hard surface quickly and effectively transfers heat making it an ideal partner for underfloor heating.



Timber Wood

Due to good heat transfer properties, timber floors work well with underfloor heating, especially engineered timber. Temperature should not exceed 27°C and advice should be sought from your supplier.



Vinyl & Linoleum

Vinyl and linoleum flooring offers low resistance to heat due to its thin layer. Most types of vinyl and linoleum are suitable for use with underfloor heating but the temperature should not exceed 26°C.



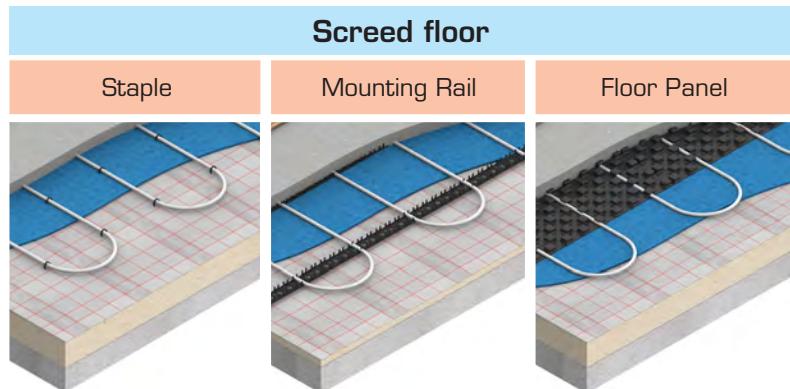
Carpet

Carpets provide the highest heat resistance. Make sure the underlay is suitable for use with underfloor heating and the combined carpet and underlay tog value is less than 2.5. The higher the combined tog value the lower heat output.

For most applications underfloor heating systems have a surface temperature of approximately 25°C. However, some situations - where building heat loss is high - will require a surface temperature of 29°C. Bathroom floors, with a suitable covering can go to 33°C. Ensure the floor is designed not to exceed the temperature of the floor covering manufacturer's recommendations. All of the JG Aura thermostats accept the fitting of a floor probe to prevent overheating, and the wiring centres have connections built in for an overheat thermostat as standard.

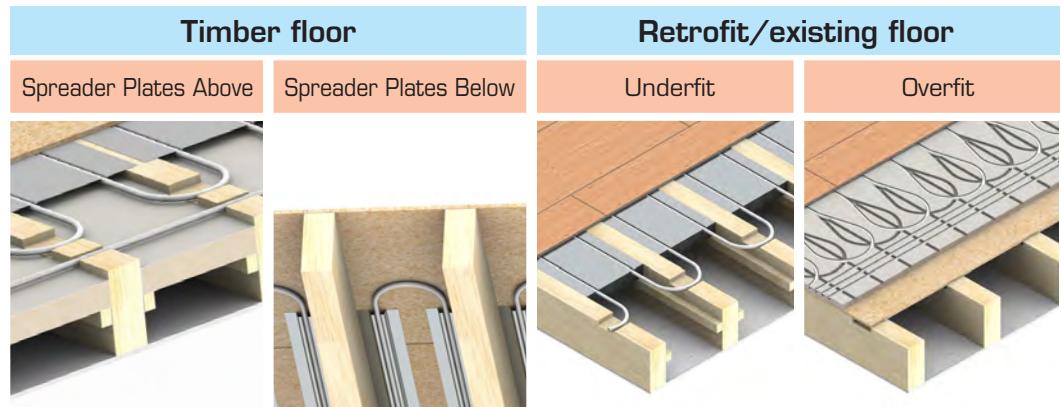
Speedfit solutions at a glance

We have a wide range of underfloor pipe fixing systems designed to work with any type of floor construction. Here you will find an overview of the systems available for different project types. For heating control options, please see the next section.



Project suitability			
New build	✓	✓	✓
Extension	✓	✓	✓
Renovation	✓	✓	✓
Apartments	✓	✓	✓
Conservatory	✓	✓	✓
Commercial	✓	✓	✓
Floor level			
Ground	✓	✓	✓
Upper	✓	✓	✓
Room layout			
Regular	✓	✓	✓
Irregular	✓	✓	✓
Over 30m ²	✓	✓	✓
Under 30m ²	✓	✓	✓
Build up			
Low profile			
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A full list of system components can be found at speedfitUFH.co.uk or in our [trade price list](#).



Project suitability

New build	✓	✓	✓	✓
Extension	✓	✓	✓	✓
Renovation	✓	✓	✓	✓
Apartments	✓	✓	✓	✓
Conservatory	✓	✓	✓	✓
Commercial	✓	✓	✓	✓
Floor level				
Ground	✓	✓	✓	✓
Upper	✓	✓	✓	✓
Room layout				
Regular	✓	✓	✓	✓
Irregular	✓	✓	✓	✓
Over 30m ²	✓	✓	✓	✓
Under 30m ²	✓	✓	✓	✓
Build up				
Low profile	✓	✓	✓	✓
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A full list of system components can be found at speedfitUFH.co.uk or in our [trade price list](#).

Heat output

Heat output for flooring systems is calculated using mathematical equations combined with installation experience. For renewable heat sources and lower water temperatures, performance for non-screed systems can be difficult to calculate. The following figures are for guidance only and can vary with water temperature, floor finish and construction.

System	Tog value (floor finish plus resistance)	Flow and return temperature °C		
		40	50	60
Typical Screeded Floor				
Tiles	0.1	73	111	150
Thin timber finish	0.5	58	89	120
Carpet tiles/laminate	1.0	47	74	100
Carpet and underlay	1.5	41	63	85
Spreader Plates				
Tiles	0.1	43	68	91
Thin timber finish	0.5	40	59	80
Carpet tiles/laminate	1.0	33	52	70
Carpet and underlay	1.5	30	47	63
25mm Overfit				
Tiles	0.1	27	42	56
Thin timber finish	0.5	25	38	52
Carpet tiles/laminate	1.0	23	35	48
Carpet and underlay	1.5	22	32	44
50mm Underfit				
Tiles	0.1	23	36	49
Thin timber finish	0.5	22	34	45
Carpet tiles/laminate	1.0	20	31	42
Carpet and underlay	1.5	19	29	39

Overfit tested using 15mm Layflat pipe in 150mm centres with 10mm plywood

Underfit and Spreader Plates tested using 15mm Layflat pipe in 200mm centres with 22mm chipboard deck



Screed floor solutions

Staple

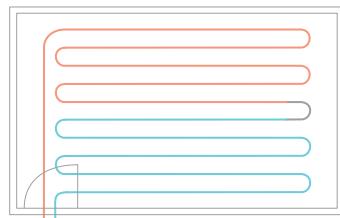
Staple is our cost-effective underfloor heating solution with high heat output and response time. Using the screed as a heat diffuser, 15mm JG Layflat® pipe is secured with staples to rigid insulation placed over the concrete subfloor.

- For fixing pipes directly
- Quick & easy to install
- Cost effective
- High heat output & response

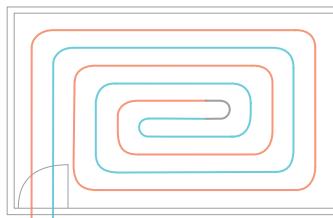
Project suitability

- New builds and extensions
- Ideal for ground floor level
- Adaptable to irregular shaped rooms
- Over solid concrete or beam and block subfloors
- Where height build-up is not an issue

Pipework circuit



Serpentine



Counterflow

- Different pipe patterns can be combined in multiple rooms or irregular shaped rooms

Project essentials

JG Layflat® Polybutylene Barrier Pipe

Used to create pipe circuit

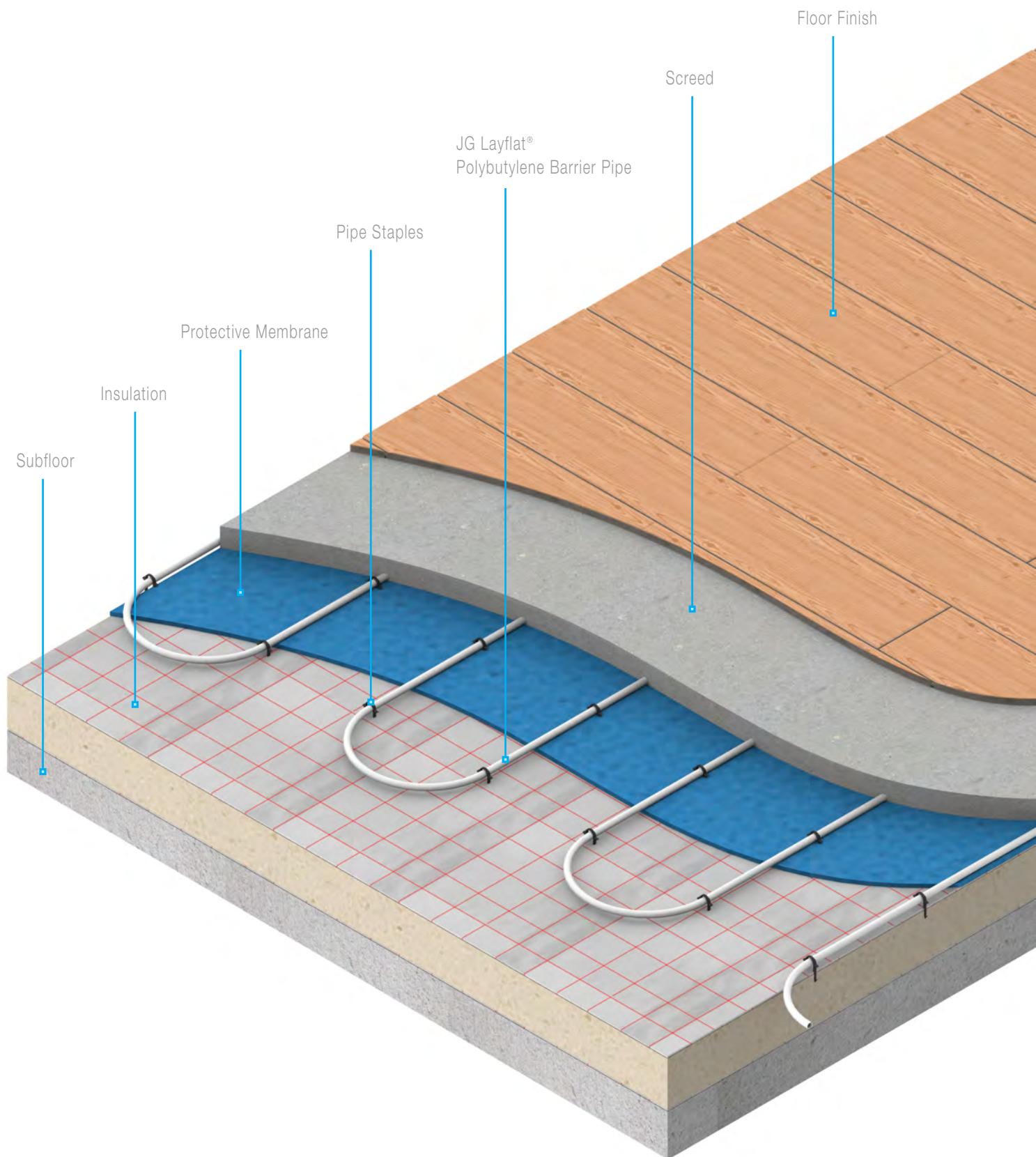
Pipe Staples and Staple Gun

Barbed for secure fixing with a Staple Gun

Edge Strip

Used to accommodate expansion

A variety of BS 8204 approved screeds can be used and are typically 65-75mm thick for sand-cement types or 40-50mm for liquid pumped screeds. Screed should be laid as soon as possible after the pressure test and should be left under pressure test during the screeding process. The floor finish can be laid when the screed is fully cured.



Screed floor solutions

Mounting Rail

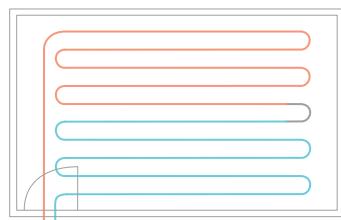
Mounting Rail is an ideal solution when the insulation is too thin for staples. Using the screed as a heat diffuser, 15mm JG Layflat® pipe is secured to 'Clip Rails' on top of rigid insulation sheets, which are placed over the concrete subfloor.

- For fixing pipes direct
- Ready-made pipe spacing
- Use with insulation too thin for staples
- High heat output & response

Project suitability

- New builds and extensions
- Good for large regular shaped rooms
- Over solid concrete or beam and block subfloors

Pipework circuit



Serpentine

- Different pipe patterns can be combined in multiple rooms or irregular shaped rooms

Project essentials

JG Layflat® Polybutylene Barrier Pipe

Used to create pipe circuit

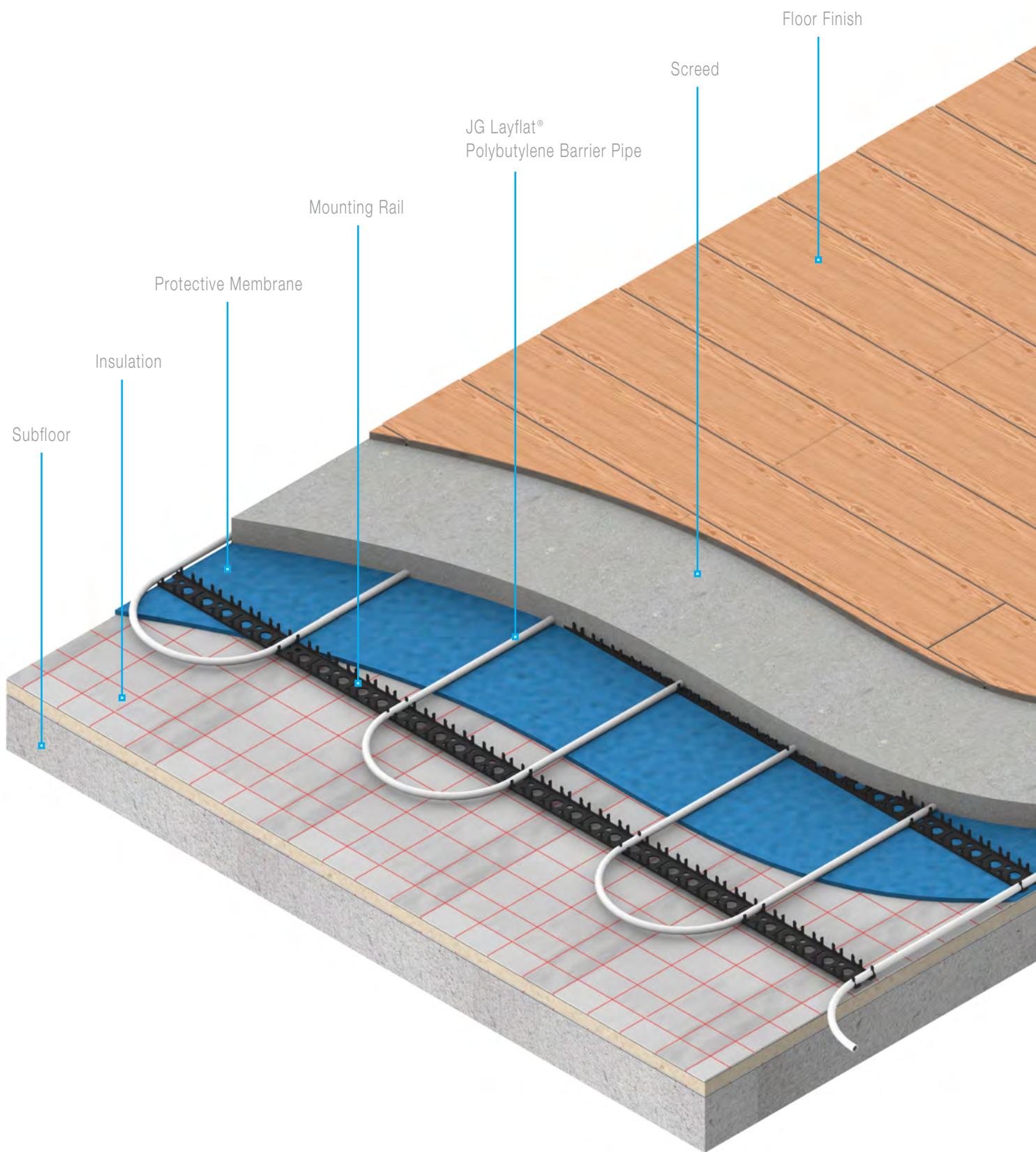
Mounting Rail

Pre-scored for easy cutting

Edge Strip

Used to accommodate expansion

A variety of BS 8204 approved screeds can be used and are typically 65-75mm thick for sand-cement types or 40-50mm for liquid pumped screeds. Screed should be laid as soon as possible after the pressure test and should be left under pressure test during the screeding process. The floor finish can be laid when the screed is fully cured.



Screed floor solutions

Floor Panel

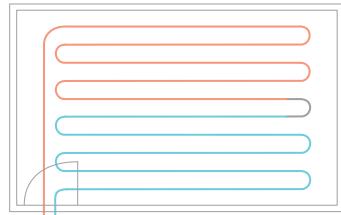
Floor Panel is a simple grid layout that makes it quick and easy to lay 15mm JG Layflat® pipe. As well as ensuring precise pipe layout it also ensures minimum pipe bending radius is achieved.

- Simple grid system
- Quick, easy & precise pipe laying
- Achieves minimum pipe bending radius
- High heat output & response

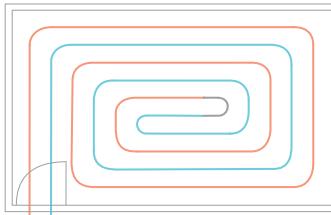
Project suitability

- New builds and extensions
- Good for large regular shaped rooms
- Ideal for ground floor level
- Over solid concrete or beam and block subfloors
- Where height build-up is not an issue

Pipework circuit



Serpentine



Counterflow

- Different pipe patterns can be combined in multiple rooms or irregular shaped rooms

Project essentials

JG Layflat® Polybutylene Barrier Pipe

Used to create pipe circuit

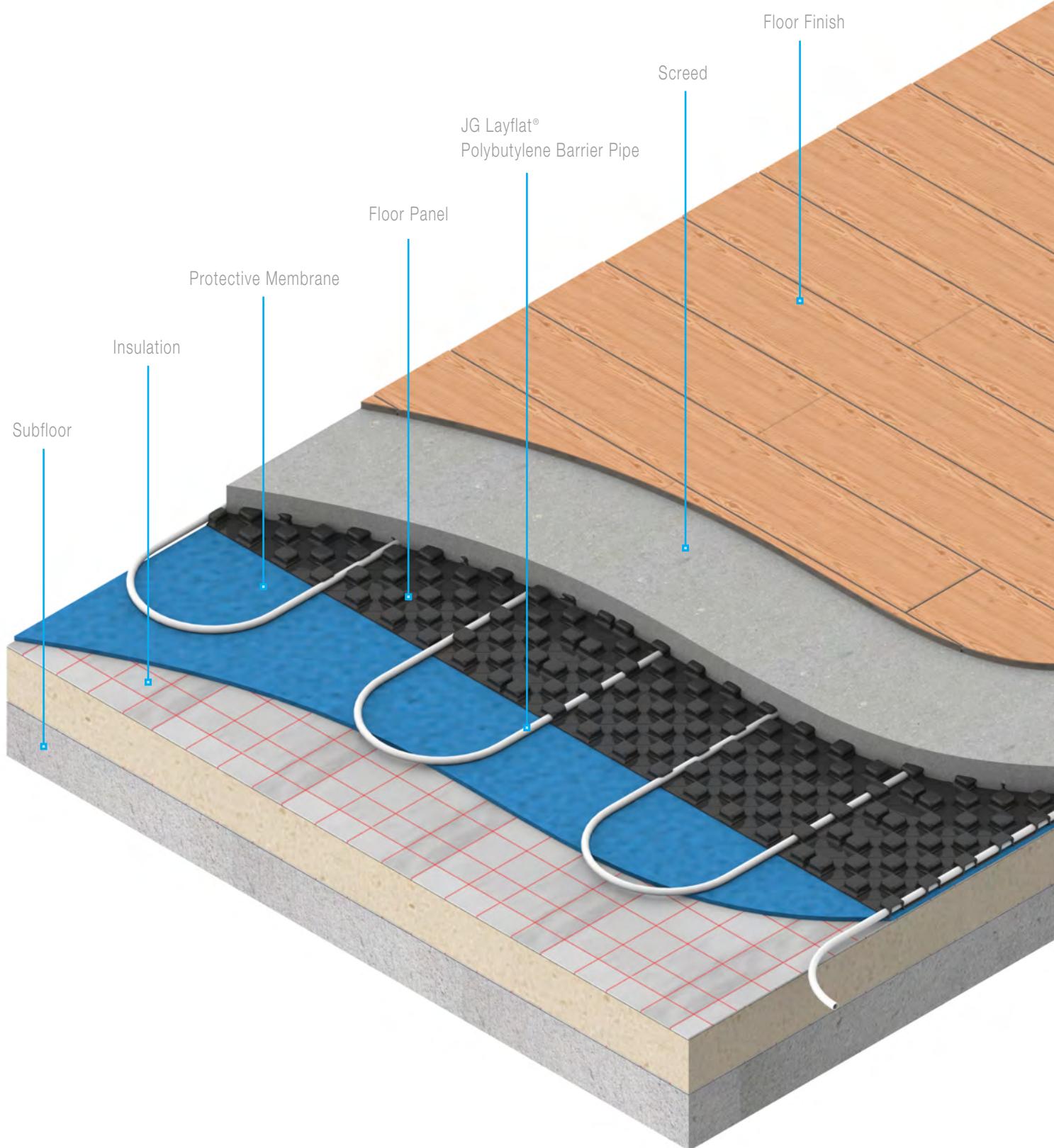
Floor panels

Floor tile grid with 11mm insulation layer

Edge Strip

Used to accommodate expansion

Suitable for use with BS 8204 approved cement screed (4:1 mix), pumped screed systems (anhydrite, etc.), fine or heavy concrete or polymer modified screeds. The floor finish can be laid when the screed is fully cured. Screed should be laid as soon as possible after the pressure test and should be left under pressure test during the screeding process. The floor finish can be laid when the screed is fully cured.



Timber floor solutions

Spreader Plates from above

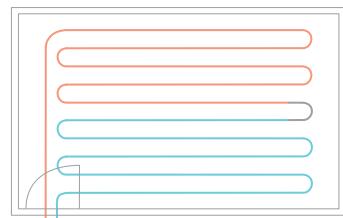
Spreader Plates from above are designed for use with timber suspended or floating floors. 15mm JG Layflat® pipe is installed into single or double grooved aluminium spreader plates that transmits heat evenly across the finished floor surface. For existing floor structures install between battens and for new floors fix between existing joists. If the floor can be raised, floors can also be counter-battened to make installation even easier.

- Aluminium heat diffusion plate
- Easy install across timber joists or onto battens
- Medium heat output & response
- Low height build up

Project suitability

■ Retrofit, New builds and extensions	■ Good for rooms of all sizes	■ Ideal for upper floor levels
■ Installing above traditional block & beam joists	■ When low profile is required	■ Single or multi room

Pipework circuit



Serpentine

Project essentials

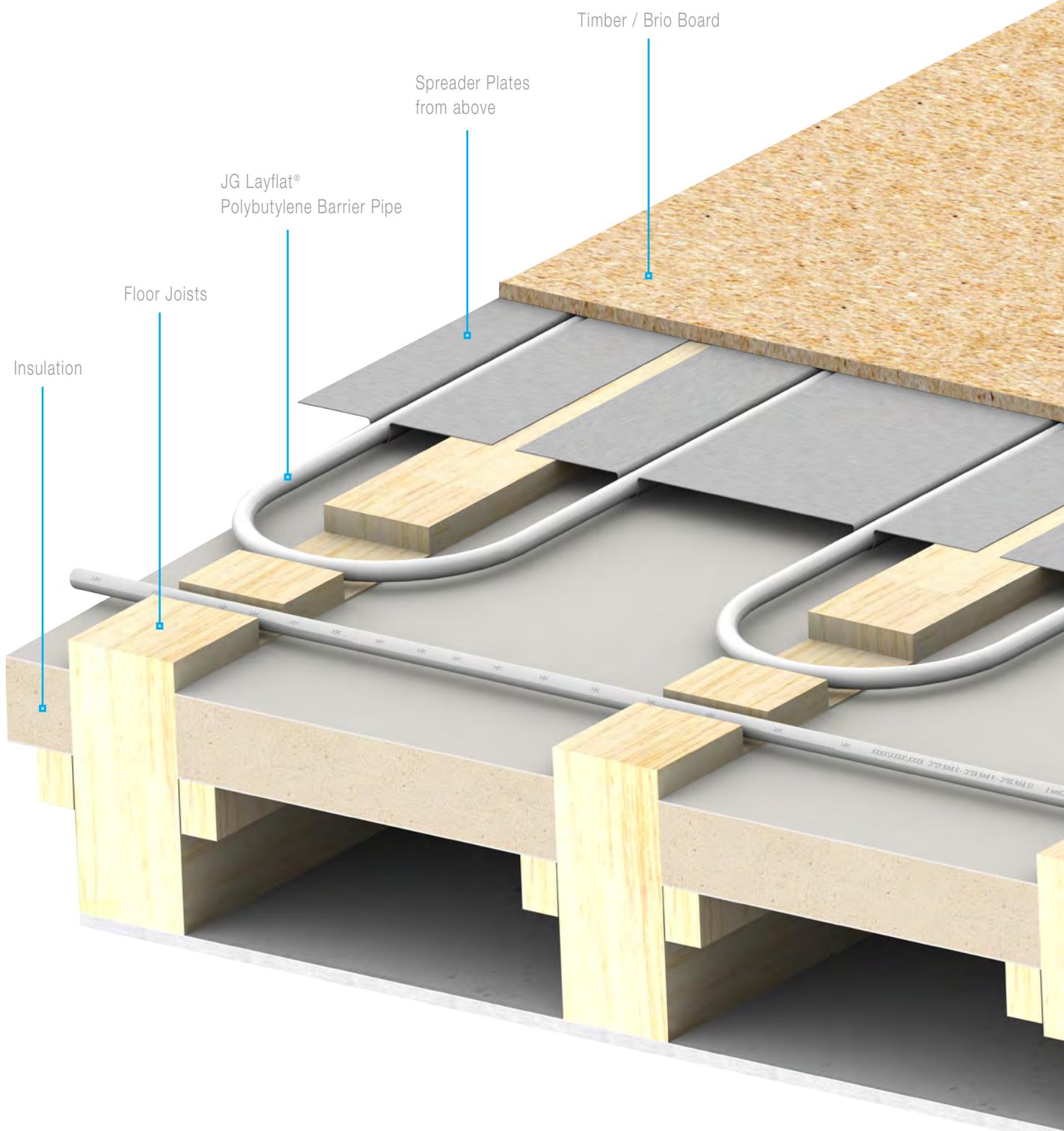
JG Layflat® Polybutylene Barrier Pipe

Used to create pipe circuit

Spreader Plates for above

Fixed using a hand stapler

Insulation is installed below the plates and it is important that the floor decking is in contact with the plate to maximise output. Alternatively, where there will be a secondary layer of floor placed above a sheet sub floor, the plates can be sandwiched between the floor layers supported on battens. With a twin layer floor this second method is recommended as it removes a layer of resistance to heat transfer.



Timber floor solutions

Spreader Plates from below

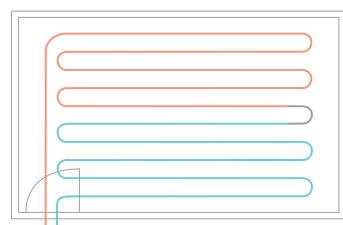
Spreader Plates from below are designed for use with traditional timber or pre-engineered joists, as modern joists rely on the floor above being bonded and screwed to the joist's top surface. 15mm JG Layflat® pipe is fixed to single grooved aluminium spreader plates that transmits heat evenly across the finished floor surface. As plates are fitted from underneath the floor there is no height build up.

- Aluminium heat diffusion plate
- Easy install across timber joists or onto battens
- Medium heat output & response
- No height build up

Project suitability

- Retrofit, New builds and extensions
- Good for rooms of all sizes
- Suitable for upper floor levels
- Installing below pre-engineered joists
- When no height build is required
- Single or multi room

Pipework circuit



Serpentine

- Different pipe patterns can be combined in multiple rooms or irregular shaped rooms

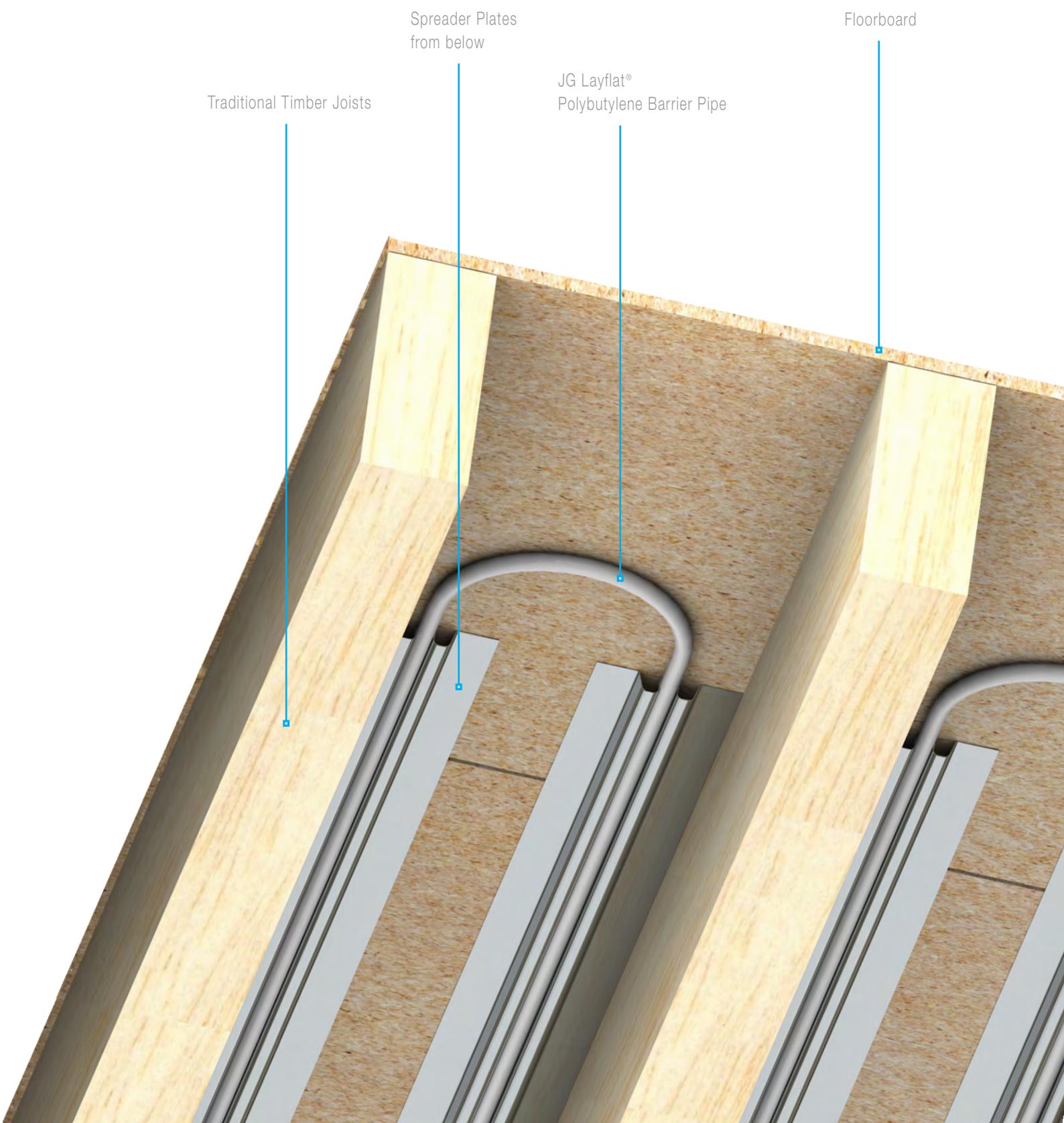
Project essentials

JG Layflat® Polybutylene Barrier Pipe

Used to create pipe circuit

Spreader Plates for below

Fixed using a hand stapler



Existing floor solutions

Underfit®

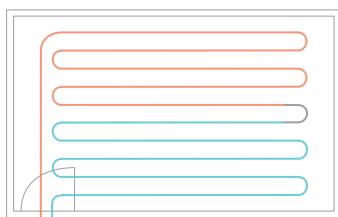
Underfit® is designed for use with timber suspended or floating floors. 15mm JG Layflat® pipe is installed into a grooved foil-faced panel with 200mm centres over existing floor structures, either between battens or under the floor between existing joists.

- Grooved foil-faced panel
- Easy to install
- Medium to low heat output & response
- Low profile

Project suitability

- New builds and retrofits
- When low height build up is required
- Single or multi room
- Over existing subfloor or under between joists
- Good for rooms of all sizes and shapes

Pipework circuit



Serpentine

- Different pipe patterns can be combined in multiple rooms or irregular shaped rooms

Project essentials

JG Layflat® Polybutylene Barrier Pipe

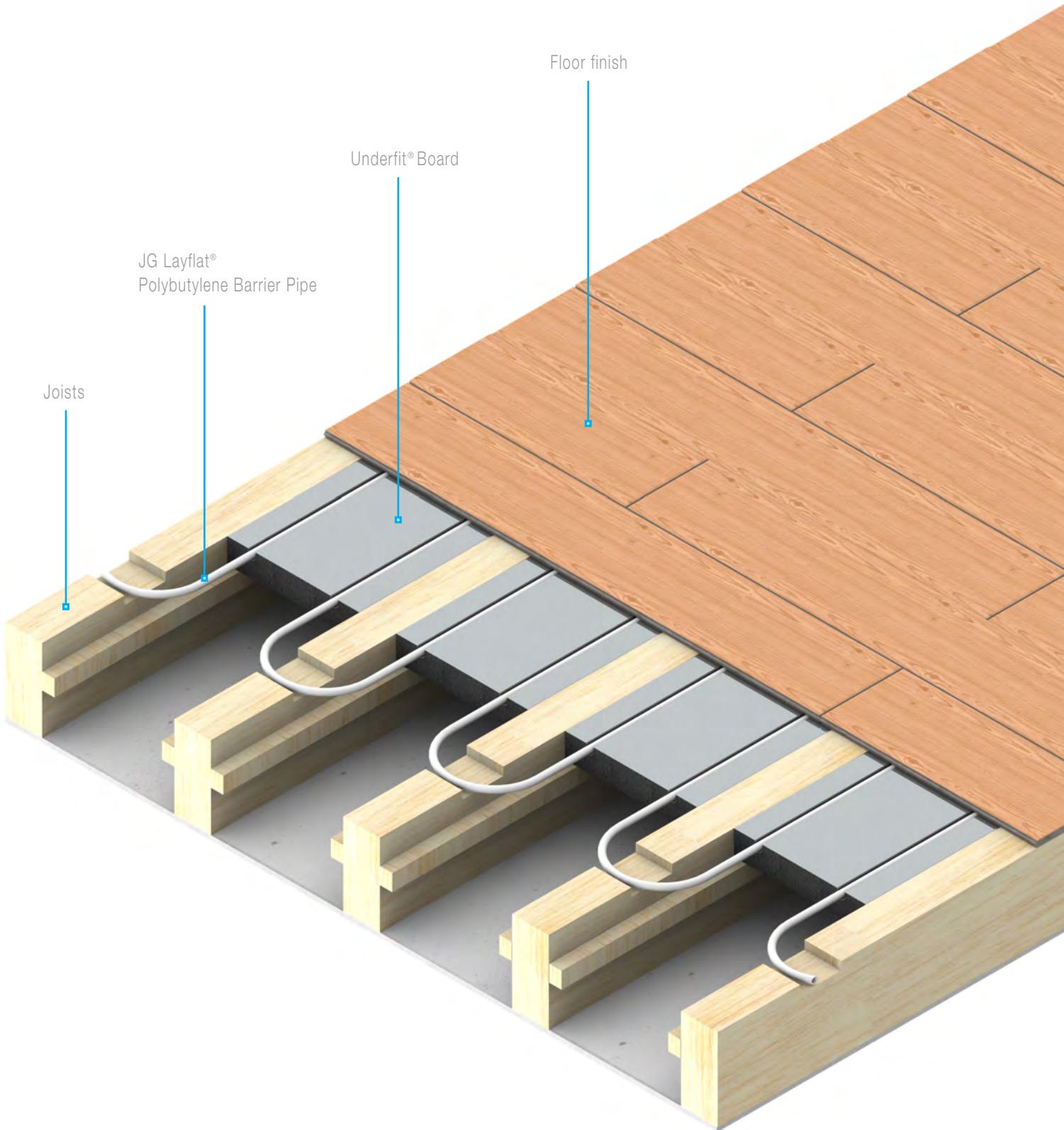
Used to create pipe circuit

Underfit Board® - joists and battened floors

Low profile foil-faced insulation

Foil Tape

To be used for overlaying pipe end returns for added security



Existing floor solutions

Overfit®

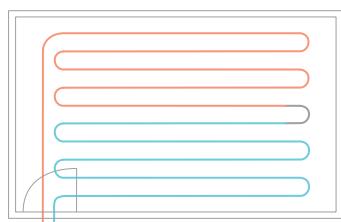
Overfit® is a low profile system featuring a lightweight insulated panel with high compressive strength intended for use with lightweight floor coverings such as laminate, engineered wood and carpet. In addition ceramic tiles can be used providing a brio board is installed beneath. Due to its ease of handling and cutting it is also suitable for larger areas and multiple room installations. The installation uses 15mm JG Layflat® pipe and 150mm centres for a highly responsive system.

- Grooved foil-faced panel
- Easy to install
- Medium heat output & response
- Low profile

Project suitability

■ New builds and retrofits	■ Only suitable for lightweight floor coverings
■ Over existing subfloor	■ Single or multi room
	■ Good for rooms of all sizes and shapes

Pipework circuit



- Different pipe patterns can be combined in multiple rooms or irregular shaped rooms

Serpentine

Project essentials

JG Layflat® Polybutylene Barrier Pipe

Used to create pipe circuit

Foil Tape

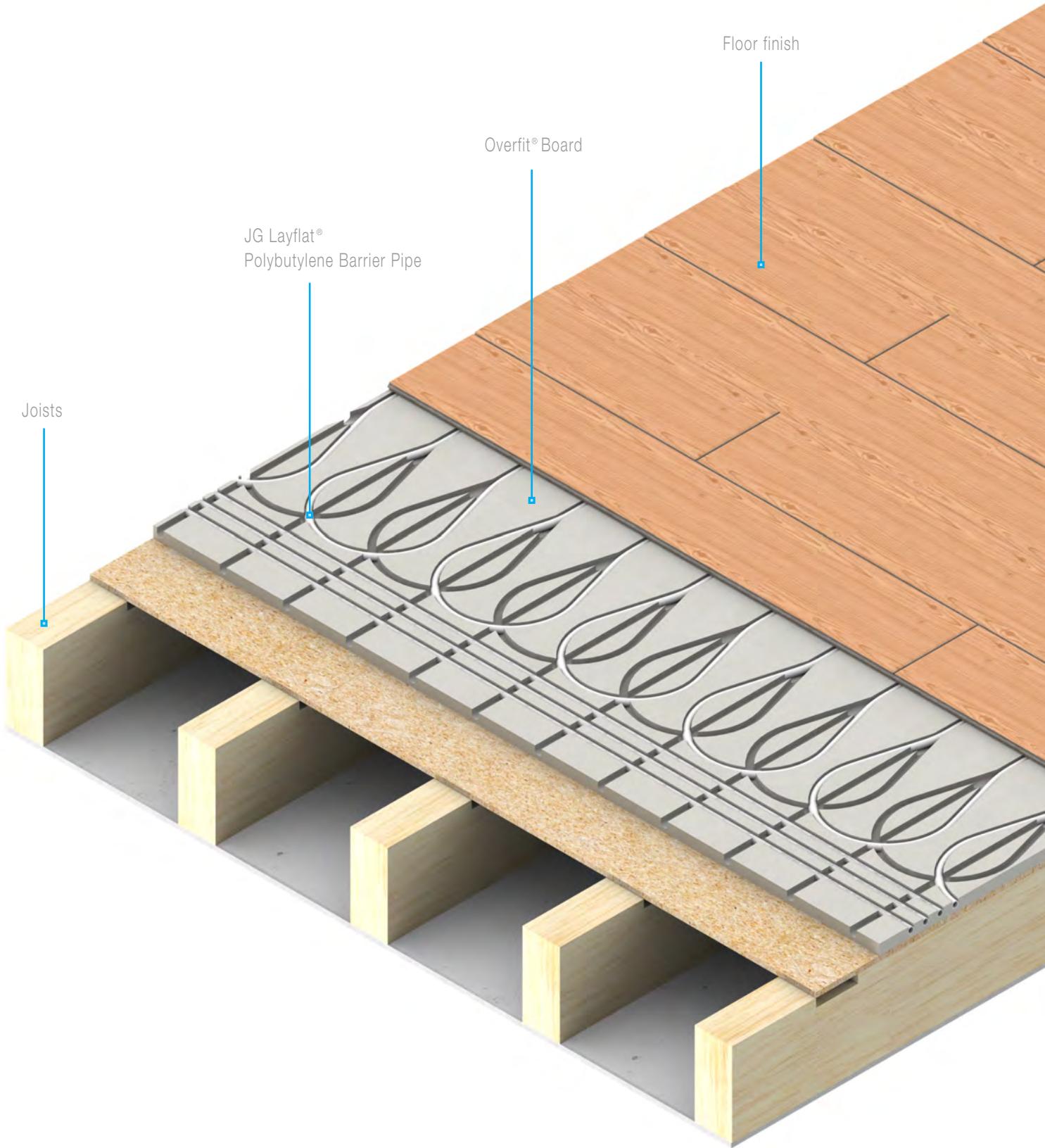
To be used for overlaying pipe end returns for added security

Overfit® Board

Low profile foil-faced insulation

Overfit - Transition Board

Pregrooved, with additional grooves to facilitate multiple pipe runs near the manifold



Room Pack solutions

Room Pack is a cost-effective solution for single rooms up to 30m², including conservatories, bathrooms, kitchens and extensions. Pre-assembled and pre-wired, the control unit is fast and simple to install as it plugs into any electrical socket or spur and is easily integrated to an existing central heating system.

Fitted with the latest A rated pump the control unit has integral ball valves for isolation from the primary heating system, an adjustable blending valve and a six metre head circulation pump. An anti-vibration mounting bracket ensures silent operation.

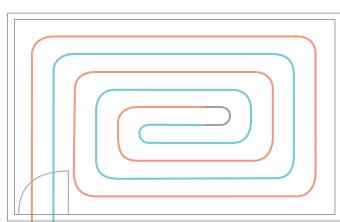
Using the screed as a heat diffuser, 15mm JG Layflat® pipe is secured with clips to rigid insulation placed over the concrete subfloor. There are three different types of Room Packs depending on the floor area and type of heating control required.

- For single rooms up to 30m²
- Fast and simple installation
- Cost effective
- High heat output & response

Project suitability

- New builds and extensions
- Boiler with extra output capacity of 2KW - 3KW
- Over solid concrete or beam and block subfloors

Pipework circuit



Counterflow

- Different pipe patterns can be combined for irregular shaped rooms
- The amount of pipe needed is determined not only by the size and shape of the room but by the resistance of the floor finish to heat transfer

Project essentials

Edge Strip

Used to accommodate expansion



20SQM PACK

for rooms up to 20m² with wired heating control

30SQM PACK

for rooms up to 30m² with wired heating control

30SQM WIRELESS PACK

for rooms up to 30m² with wireless heating control

A variety of BS 8204 approved screeds can be used and are typically 65-75mm thick for sand-cement types or 40-50mm for liquid pumped screeds. Screed should be laid as soon as possible after the pressure test and should be left under pressure test during the screeding process. The floor finish can be laid when the screed is fully cured.





■ The smart way to control heat

Say hello to greater control

More choice. More style

Smart control on the move

Taking JG Aura to the next level





JG Aura is a flexible and energy efficient heating control solution designed for the remote regulation of underfloor heating, central heating and radiators. The JG Aura system provides you with capability of controlling multiple zones, enabling heating time and temperature to be set within each individual room. This results in considerable energy savings, as rooms are only heated when they are in use and to the desired level of warmth.

Intuitive and straightforward to use, JG Aura has different settings for weekends and seasons. Heating can be programmed to suit any lifestyle, which means homeowners no longer need to constantly change settings or put up with rooms that are too hot or cold.

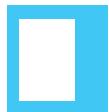
JG Aura at a glance

- UFH, radiator and hot water control
- Smart App control from anywhere
- Unique 4-in-1 thermostat
- Slimline touch sensitive controls
- Energy saving
- 5-year guarantee



Say hello to greater control

At the heart of our range is our unique 4-in-1 digital thermostat that can operate in four modes, giving you greater control than ever before.



Programmable Room Thermostat

Time and temperature can be individually controlled for each room/zone



Group Control Thermostat

Controls a mixture of digital and dial (230v) thermostats, up to a maximum of 8 and an additional Hot Water Timer



Group Thermostat

Part of a group of thermostats controlled by the Group Control Thermostat



Hot Water Timer

Controls the timing of the hot water supply and can be connected to the wiring centre or directly to the hot water thermostat





More choice. More style

Add a touch of style to the way heating is regulated with our sleek and slender thermostats. Available in black or white, our contemporary heating controls will complement the look of any room. Whether you are looking for wired, wireless or networked controls, we have a range of systems to suit your needs. Both systems benefit from all the features of our 4-in-1 thermostat.

Wired system Digital and dial thermostats

JG Aura 230v system consist of touch sensitive 4-in1 controls as well as easy to use Dial Thermostats. These can be used as individual thermostats or combined into groups for convenience. To enable the Group Control functionality a 0.5mm 2 core data cable is required.



230v Thermostat

The 4-in-1 Thermostat gives combined control of UFH, individual radiators allowing simple installation of multi zone energy saving systems in new or retrofit projects. Each thermostat can operate as a Programmable Room Thermostat, Group Control Thermostat, Group Thermostat and a Hot Water Timer. To enable the Group Control, installation of the 0.5mm 2 core data cable is needed.



230v Dial Thermostat

The Dial Thermostat can be set to 3 temperature variations (automatic, manual and frost) which can be selected using the slide switch located on the thermostat. Dial thermostats can be part of a group or operate on their own, although they can leave or rejoin the group at the flick of a switch.



230v 8 Zone Wiring Centre

The Wired Wiring Centre has been designed to be a complete wiring solution for UFH, radiators and hot water control. Accommodates up to 8 thermostats and a Hot Water Timer.



Probe and Sensor

The Probe and Sensor are used to control temperature where moisture would be a problem e.g. in a wet room or bathroom. It can also control floor temperature where overheating could cause damage.

Wireless system

Digital wire free or hard-wired thermostats

Create a heating control network using JG Aura Wireless Thermostats. Battery powered thermostats give you the flexibility of a wire free installation and are ideal for retrofitting without the need to disturb walls. Alternatively, our 230v mains powered option require no batteries and enhance the wireless communication signal as each thermostat acts as a repeater. You can also mix and match on the same network.



Wireless Thermostat 230v

The JG Aura 4-in-1 Thermostat gives combined control of UFH, individual radiators as well as wireless boiler switching allowing simple installation of multi zone energy saving systems in new or retrofit projects. Each thermostat can operate as a Programmable Room Thermostat, Group Control Thermostat, Group Thermostat and Hot Water Timer.



Wireless Thermostat - Battery

Battery powered thermostats give you the flexibility of a wirefree installation whereas mains powered thermostats remove the need to replace batteries and enhance the wireless signal.



Wireless TRV

The Wireless TRV is used in conjunction with the Wireless Thermostat and Boiler Receiver. This unique product can be combined with UFH and radiator control (see page 53 for more details).



Wireless 8 Zone Wiring Centre

The Wireless Wiring Centre has been designed to be a complete wiring solution for UFH, radiators and hot water control. Accommodates up to 8 thermostats and a Wireless Hot Water Timer for cable free installations.



Wireless Hub

The Hub is used when upgrading any JG Aura Wireless system in order to use have the Internet control option. A plug and play hub is needed to act as an Internet interface, this then allows full control of time and temperature in all zones from smartphone or tablet.

JG Hub User Licence

The JG Aura Hub can accommodate up to 10 Internet enabled thermostats. If a project requires more thermostats the hub's capacity can be expanded by purchasing the JG Aura Licence, which presents an additional capacity to control 10 more thermostats (max capacity 30).



Wireless Coordinator

The Wireless Coordinator is essential to the successful communication of a wireless system and facilitates an automated pairing of the JG Aura products. The coordinator simply connects into the mains power plug provided.



Wireless Boiler Receiver

The Wireless Boiler Receiver communicates with the wireless thermostats via the wireless wiring centre. Installation is simplified as no wiring is required.



Probe and Sensor

The Probe and Sensor are used to control temperature where moisture would be a problem e.g. in a wet room or bathroom. It can also control floor temperature where overheating could cause damage.

Smart control on the move

JG Aura Wireless Thermostats are designed to work with the JG Aura Hub. Combined with the free JG Aura App you will never have to worry about returning home to a cold house or forgetting to turn off your heating when you leave, as our smart generation thermostats give you the freedom to control your heating and hot water no matter where you are via smartphone or tablet.



Download the free App



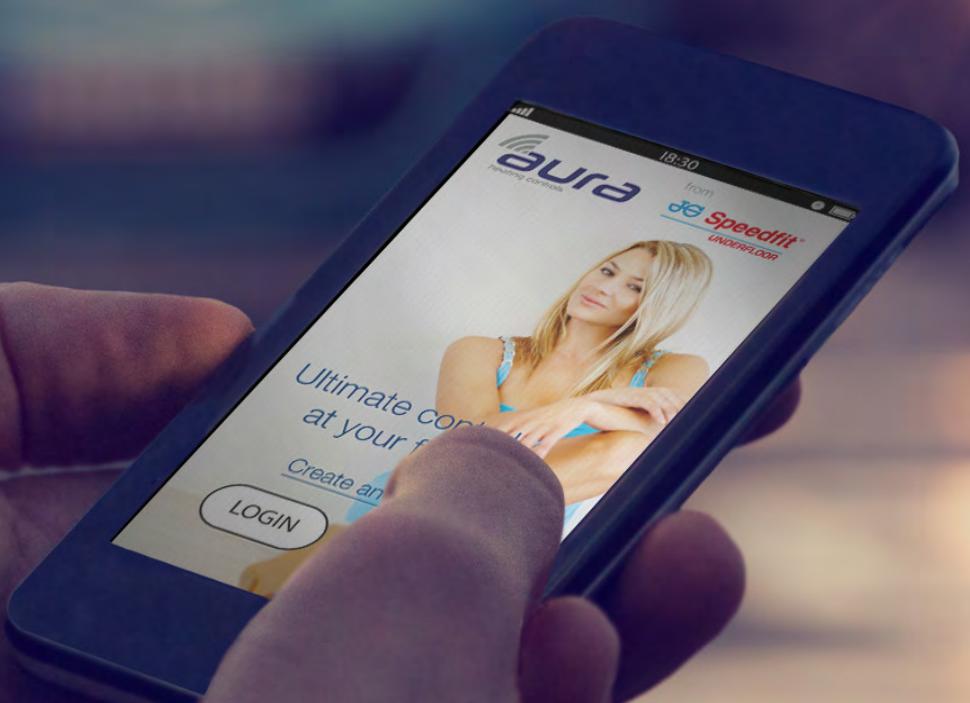
iOS



The JG Aura App is compatible with
iOS, Android and Windows devices

Disclaimer

Customers that choose to operate their heating remotely using JG Aura Range technology via their personal computer, tablet or smart phone device(s) will be entering into a contract with Salus Controls plc ("Salus"), which is a third party supplier of the software. John Guest Ltd and affiliates within the John Guest group of companies from time to time (the "John Guest Group") make no representations or warranties of any kind about the reliability or suitability of the software or applications provided by Salus. The John Guest Group disclaims liability (excluding liability for death and personal injury resulting from negligence) for any loss or damage caused by the software provided to customers by Salus. Any agreement entered into with Salus is therefore strictly at your own risk.





Taking JG Aura to the next level

Are you looking for underfloor heating downstairs and radiators upstairs, but need individual room control throughout? By combining Speedfit Underfloor Heating with JG Aura Wireless TRVs, you can now achieve individual room control throughout.

Save up to 40% on energy bills

Unlike conventional heating systems the JG Aura Wireless TRV, combined with our digital thermostats, can be programmed to only heat rooms when they are in use and to the desired temperature – delivering huge energy and cost savings.

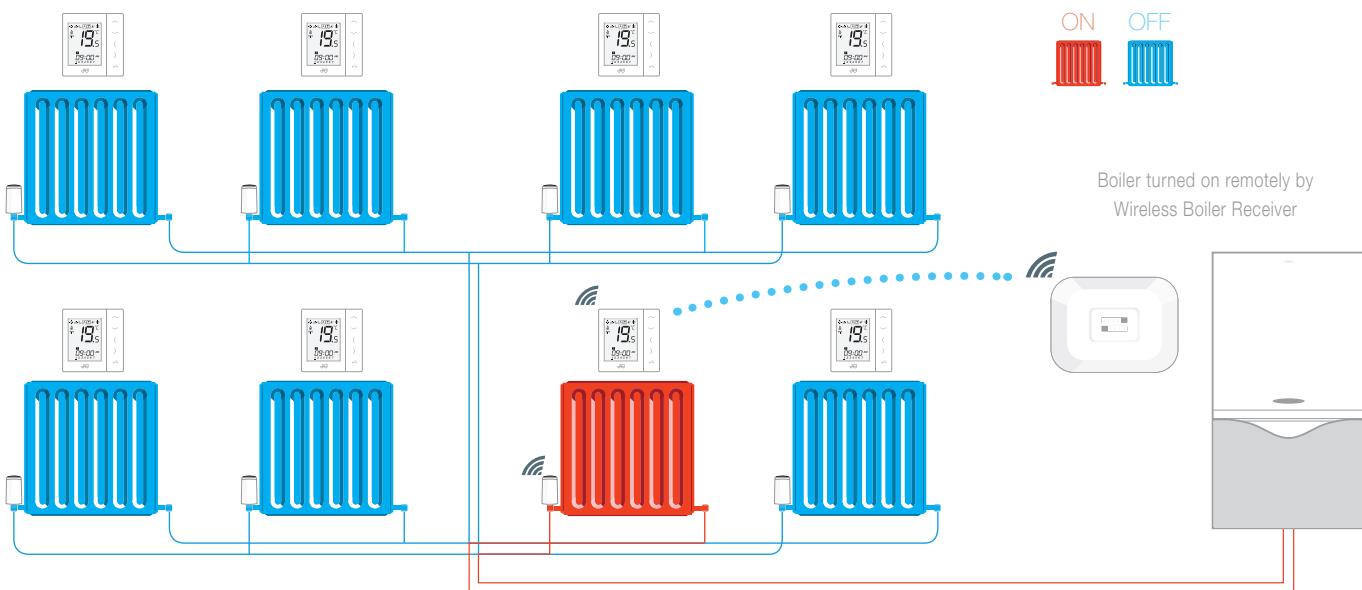
Suitable for new builds and retrofits, simply replace the existing manual radiator head with JG Aura Wireless TRVs to remotely turn radiators on/off.

- Wireless multi zone radiator control
- Energy and cost savings up to 40% reduction on bills*
- Integration with existing heating system with no extra plumbing costs
- Smart control from anywhere via the free JG Aura App
- A solution that can be used independently or combined with underfloor heating

* Potential savings based on a typical well-insulated house

How it works

Unlike conventional heating, combining JG Wireless TRVs with JG Aura Wireless Thermostats enables users to turn individual radiators on or off and remotely control their boiler at the same time.



To create the JG Aura TRV heating system, you will need a wireless TRV, thermostat, boiler receiver and a coordinator.

1. Install and wire the JG Aura Boiler Receiver
2. Remove the TRV heads and replace with the JG Aura Wireless TRV heads
3. Plug the JG Aura Coordinator into a mains socket and simply press the button to start the pairing process
4. Pair JG Aura Thermostat to TRV

From start to finish, the entire process takes less than a couple of hours to complete.

A full list of system components can be found at speedfitUFH.co.uk or in our **trade price list**.

Speedfit Support



With you every step of the way

Underfloor heating made simple

Designing and pricing the perfect system

Get inspired



Underfloor heating made simple

Speedfit Support

With Speedfit Support you can be confident you will get all the technical backup you could need - before, during and after install.



Instant estimate

Price jobs on the spot with our online estimator. Get an instant estimate and full bill of materials for floor applications up to 150m².



Free design with detailed estimate

With our vast experience and expertise, you can be assured that we will design the most energy efficient solution for your project. Boasting one of the fastest turnaround times in the industry, our team will provide you with a detailed estimate and free CAD design package.



Support on your doorstep

With the largest network of technical sales engineers in the UK – who are qualified plumbers and UFH design engineers – our national team of experts provide free onsite technical support for first time installers*.



Technical helpline

Got an enquiry or need help with an issue? Speedfit Underfloor Heating experts are only a phone call away.



Handy installation videos & guides

From step-by-step installation videos to quick reference guides, you will find everything you need to make installation easy and get the most out of Speedfit Underfloor Heating.

* Onsite support is not available for Room Pack installations. However, engineers and helpline advisors are always on hand to assist.

Designing and pricing the perfect system

1 Price online

For projects up to 150m², get an instant estimate online at ufhestimator.jgspeedfit.com. Online estimates reflect trade list price and are subject to stockist discounts.

- Simple registration
- Input your project details
- Quick and easy selection process
- Save, view and amend your estimate
- Printable bill of materials priced at current JG list price

What project information do we need?

For more detailed estimates or larger projects, contact the Speedfit CAD Centre or your local Speedfit representative.

CAD Centre: 01249 766910

- Scaled drawing (1:50 or 1:100 with the manifold location indicated)
- Your contact details and the name of the project
- Heat source (e.g. boiler, heat pump)
- Floor construction (e.g. existing or new floor, solid screed or timber)
- Area to be heated m²
- Floor finish (e.g. tiles, wood, carpet)

Your detailed estimate will be emailed to you directly including a full bill of materials.

2 Place your order

Speedfit Underfloor Heating is available in more plumbing and heating merchants and builders merchants than anyone else, including leading DIY stores. If you require a free CAD drawing simply contact your chosen stockist, negotiate your discount and place your order. Once we have been notified our design experts will quickly produce your drawing.

3 Call Speedfit Support

Don't forget if you are first time installer you can call one of our technical sales engineers who can visit site to advise on all aspects of your installation. Our team are there to provide practical tips and spot potential issues before they arise. Call one of our experts for more information and to arrange a visit on **01895 425333**.

Halo A versatile and energy saving solution



The project

The **Halo** project in Cambridge, by Crest Nicholson, is a unique residential development utilising new construction techniques and contemporary design. Within close proximity to the historic city centre, the development consists of a number of apartment blocks and houses with light and space at the forefront of the design.

Crest Nicholson appointed plumbing and heating contractors, PG Bones, to ensure a smooth installation process at the sought-after development. It was important that UFH was incorporated within the building structure to enable all space within the room to be utilised for interior design.

The solution

A bespoke solution for a unique building design

With a variety of properties ranging from one-bedroom apartments to five-bedroom houses, a total of 41 unique houses required a UFH solution. However, JG Speedfit's technical experts faced an interesting challenge due to a unique floor design.

While most housing developments apply concrete block and beam floors, this project saw the concrete blocks replaced with polystyrene, which interlocked underneath the beams. Using polystyrene provided the building with superior insulation, but it also meant Speedfit were working with a completely new base for their UFH system.

Designing a full efficient heating solution

Throughout the project Speedfit provided expert advice to ensure a full understanding of each component. Speedfit also produced a CAD drawing to show the best way to incorporate the system with the original build plan.

It was decided a screeded system with Layflat Pipe would offer the best, most fuel efficient output, which would also reduce installation time, allowing tight deadlines to be met. Compared to traditional radiator installations, the system took less than a day to install. Incorporating Speedfit's UFH provides added value, including highly sought-for decorative space advantages and lower running costs, which are always desirable factors house hunters look for.

A money saving solution that adds property value

Using JG Aura heating controls the homeowners have a more flexible and efficient way to regulate heating. The controls enable heating time and temperature to be set within each individual room resulting in considerable energy savings, as only occupied room are heated and only at specific times.

A smart way to control heating

The heating system can be controlled from anywhere in the world, which ultimately means the system settings can be adjusted no matter where homeowners are, as long as they have access to the internet - using a PC, smart phone or tablet.

“Having worked with Speedfit for more than 10 years, we already knew that we were working with a proactive company and they provided the same service for the Halo project. The independently controlled zones provide our customers a level of flexibility that enables them to customise the system around their lifestyle, while the technical support we received means we didn’t have any concerns during the process.”

Russell Dawkins Technical Manager, Crest Nicholson.

Benefits

- Energy saving heating solution
- Lower heating costs
- Even distribution of temperature
- Unobtrusive & discreet
- More space for interior design
- Individual time & temperature control
- Smart JG Aura App control
- Technical design & onsite support

Technical info

Project: Halo

Project size: 41 residential houses

Developer: Crest Nicholson

Applications: UFH, Heating Controls and Layflat pipe

Project type: New build

Dunston Grange Barns

JG Aura offers ultimate comfort without compromising style



The project

Developed by Lynnic Associates, **Dunston Grange Barns** is a renovation project defined by aesthetics, comfort and style. Situated in picturesque Derbyshire and extending to 1.4 acre, the development includes an ultra modern Dutch Barn mixed with renovations of eight traditional Derbyshire stone barns.

As the design relies heavily on space, a heating solution was required that could be incorporated into the building structure and integrated with existing radiator stock. Maximum comfort and energy efficiencies were also key deliverables.

The solution

Complete comfort and interior design freedom

Suitable for large installations and irregularly shaped rooms, JG Speedfit specified the use of its screeded staple UFH system in conjunction with Layflat Pipe. Using the screed as a heat diffuser, the ultra flexible pipe was secured with staples to rigid insulation panels placed over the concrete subfloor. With warm air now rising from the floor, the solution provides the homeowner with ultimate comfort and ensures no warm air is wasted. The silent-running UFH solution also gives added comfort by reducing noise.

A seamless network of wireless radiator controls

The integration of the existing radiator stock within a centrally controlled system was made possible by the new JG Aura Wireless Thermostatic Radiator Valve (TRV), which is designed to efficiently regulate the hot water to each radiator in the house.

The JG Aura TRVs simply replaced the manual radiator valves in the properties, which made installation quick and easy, with no wet plumbing work necessary. Controlled wirelessly by a JG Aura thermostat in every room, the TRVs send a signal to the JG Aura Network, which turns the boiler off when the desired room temperature is reached.

Remotely regulate heating with a single solution

To provide a more flexible and efficient way to regulate the UFH and central heating system, JG Aura heating controls were installed. JG Aura enables homeowners to set heating time and temperature within each individual room resulting in considerable energy savings, as unoccupied areas are not heated, or only heated at specific times. Optimised by an online App, the JG Aura Network can be controlled from anywhere in the world using a PC, smart phone or tablet.

Easy to install thanks to expert advice and support

Speedfit provided expert advice throughout the entire project including guidance on how to best incorporate the system within the original build plan, where Speedfit produced CAD drawings to show how the installation should be completed. Installation took less than a day allowing the renovation project to be completed on schedule.

"The JG Aura controlled underfloor heating by Speedfit perfectly complements our contemporary Dutch Barn. The installation was intuitive and straightforward, allowing us to have the system up and running with minimal support from Speedfit. The homeowners can now fully control the room temperatures from their smart phones, which is both convenient and efficient."

Steve Corrigan Owner and MD, Lynnic Associates.

Benefits

- Quick & easy to install
- Reduced energy consumption
- Lower heating costs
- Discreet space saving solution
- Single controls for UFH and radiators
- Smart JG Aura App control
- Programmable multi zones
- Onsite technical support

Technical info

Project:	Dunston Grange Barns	Project size:	9 barn conversions
Developer:	Lynnic Associates	Applications:	UFH,TRVs, Heating Controls and Layflat pipe
Project type:	Renovation		

Residential -Taunton

JG Speedfit's Overfit solution delivers ultimate comfort with style



The project

Mandy Stamp was looking to enhance the downstairs living space of her 3-bedroom semi detached house in Taunton, Somerset, with the addition of an extended kitchen/diner. The new extension measuring 30 square metres, required an energy-efficient heating solution that would create a warm and inviting environment without compromising the interior design space.

The solution

Designed for the way you live

Following an onsite consultation with JG Speedfit, the homeowner decided that Speedfit's Underfloor Heating and JG Aura controls offered the best solution. With its unique 4-in-1 thermostat, the JG Aura heating controls could be programmed to only heat the room when in use to the desired temperature, delivering considerable cost and energy savings without compromising comfort. By concealing the underfloor heating pipe circuits under the tiles, the homeowner also has complete design freedom to place units and furniture anywhere in the room.

Added strength and durability

With the new extension connecting directly to the living room, an underfloor heating solution was required to create a level join between the rooms. Durability was also essential due to the high level of traffic passing through the area on a daily basis.

Due to its lightweight insulated panel technology and high compressive strength, Speedfit specified the use of its Overfit panels which will withstand high levels of traffic as well as creating a seamless join between the floor in the new and existing room. Although the panels already have high compressive strength, battens were placed between the boards to create an even more robust platform.

Pre-grooved panels for an easy installation

Before laying the Layflat pipe the manifold was fitted centrally to the system to reduce the flow and return distance. Using the pre-grooved channels, 15mm pipe was inserted at 150mm centres to create a highly responsive system. A heavy, tongue and grooved backer board was then laid and glued along the joints for extra security. This provided a heavy-duty surface suitable for the tiling with good heat transferring properties.

JG Aura the perfect finishing touch

The finishing touch to complete the UFH solution was to fit the JG Aura 230v Thermostat to allow for the quick manipulation of the circuit in terms of time and temperature. With its stylish slimline design, the JG Aura Heating Control blends perfectly with the ultra modern kitchen design.

"I wanted to create a warm and inviting space and that's exactly what I got with Speedfit UFH. When planning the extension it was essential the heating solution was not only efficient but would give me complete design freedom. Speedfit Overfit UFH created a perfect join to the floor in the next room, which further enhances the overall aesthetics. Plus, the contemporary JG Aura Thermostat complements the look and feel of the room."

Mandy Stamp Homeowner.

Benefits

- Low profile build
- Easy install pre-grooved panels
- Discreet space saving solution
- Stylish slimline heating controls
- Lower heating costs and energy consumption
- A warm and inviting living space

Technical info

Project: Residential, Taunton
3-Bed Semi Detached

Project size: 30sqm single room

Applications: Overfit UFH, Heating controls and Layflat Pipe

Project type: New build extension

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■ **Speedfit Support: 01895 425333**

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Subject to our Terms and Conditions of Sale available on request.



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