

INSTINCT® | PRO



Underfloor Heating



Introduction

Experience the Comfort of Hydronic Underfloor Heating

Imagine a home where warmth gently radiates from underneath your feet, creating an evenly distributed, efficient, and comfortable temperature in every room. With Hydronic Underfloor Heating, this becomes a reality.



Unparalleled Comfort

Enjoy the ultimate in-home comfort with even heat distribution and individual room temperature control.



Unrestricted Design Freedom

Say goodbye to bulky radiators and enjoy free wall space to design your home without limitations.



Versatile Installation

Suitable for a wide range of floor coverings, including tile, hardwood, vinyl, and carpet.



Energy Efficiency

Experience greater energy efficiency compared to traditional heating systems due to lower operating temperatures.

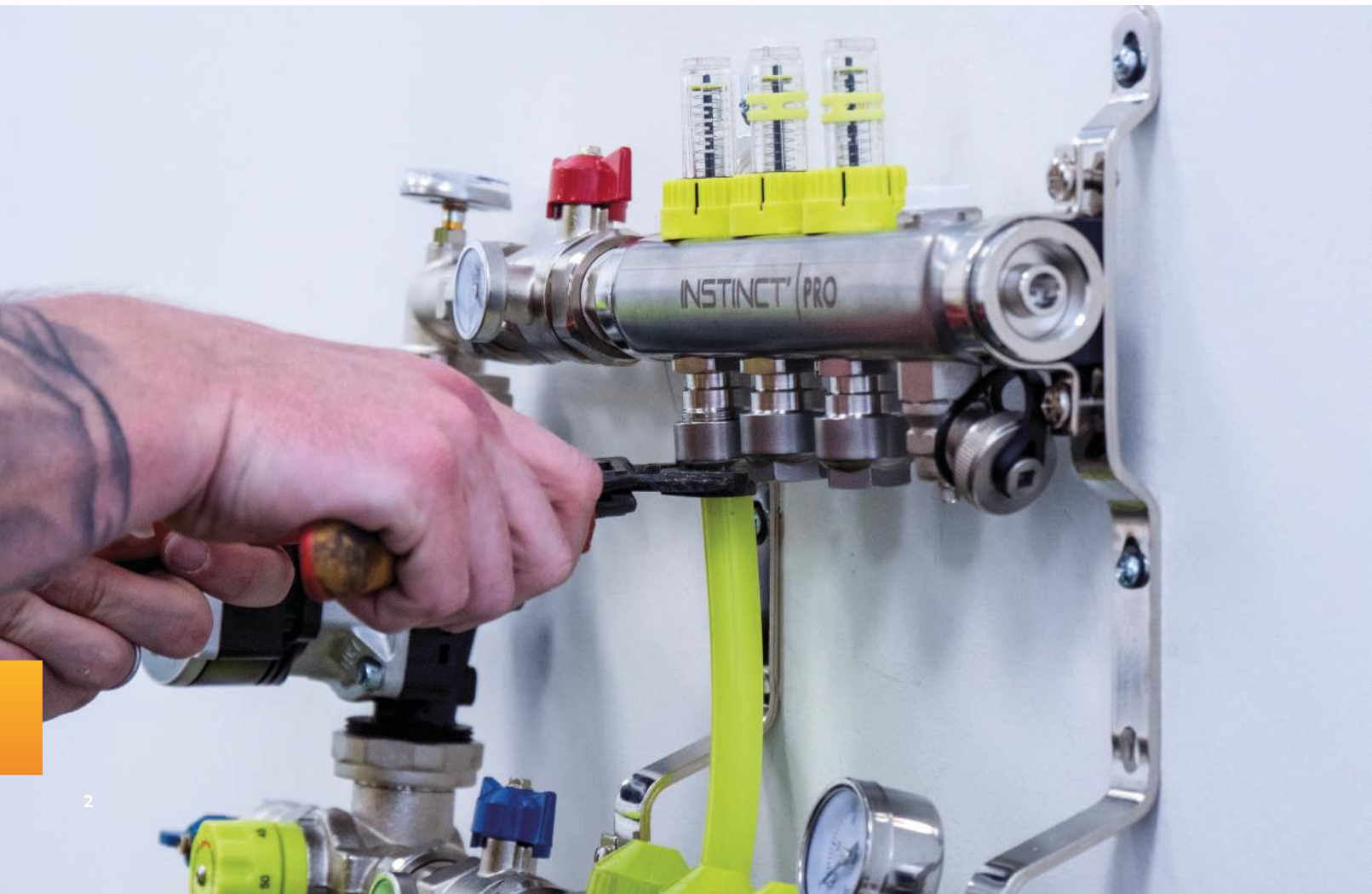
A Comprehensive Approach to Underfloor Heating

James Hargreaves offers a complete underfloor heating solution, including:

- **Extensive Product Range:** Choose from a variety of installation types, including screed systems, overlay/retrofit systems, and joist systems (see pages 5, 6, 7 and 8 for details).
- **Premium Components:** Our brochure showcases the high-quality products that form the foundation of your underfloor heating system – many of which remain unseen once installed.
- **Intelligent Controls:** Working with the two leading manufacturers EPH and Heatmiser, offering both hardwired and wireless control options, as well as convenient smartphone control, compatible with Google and Alexa.

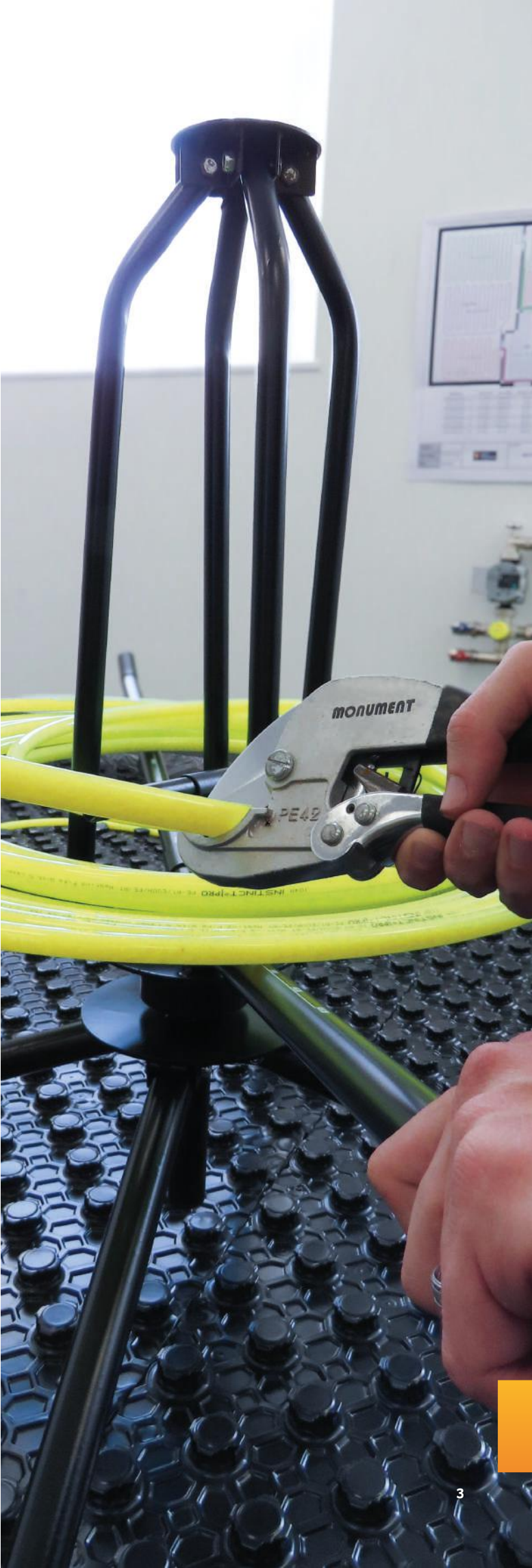
Why Choose James Hargreaves?

- **Unmatched Expertise:** Being the UK's largest independent heating and plumbing merchant with over 100 years of experience, We have supplied underfloor heating solutions for over 30 years.
- **Extensive Branch Network:** Benefit from easy access to Underfloor Heating Product stock across our 73 branches, supported by dedicated transport and a central distribution warehouse in Burnley for next-day delivery.
- **Expert Support:** Our knowledgeable staff, including a dedicated underfloor heating team are ready to answer your questions and provide expert guidance.
- **Comprehensive Design & Support:** From initial consultations to final installation, we will guide you every step of the way. We can design your underfloor heating system based on your plans, providing a full CAD layout and detailed product specifications. Whether it is a new build, a retrofit project, or a single-room addition, we have the technical expertise, software platforms and solutions to meet your needs.



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H2X & Design Process

A well-designed underfloor heating system is crucial for comfort and energy efficiency.

That’s why our UFH service offers a free, bespoke design service for every project. Our expert team, backed by our in-house design specialists at H2X, will create a tailored design specifically for your project. This includes:



Detailed Floor Plans
We’ll meticulously map out to scale the optimal pipe layout and manifold position, considering room sizes, insulation levels, loop lengths, and desired temperature zones.



Accurate Heat Loss Calculations
We’ll carefully assess your home’s heat loss to ensure the system provides the right amount of heat.



Precise Material Specifications
You’ll receive a comprehensive list of all necessary materials, including pipe lengths, manifolds, controls, and more.



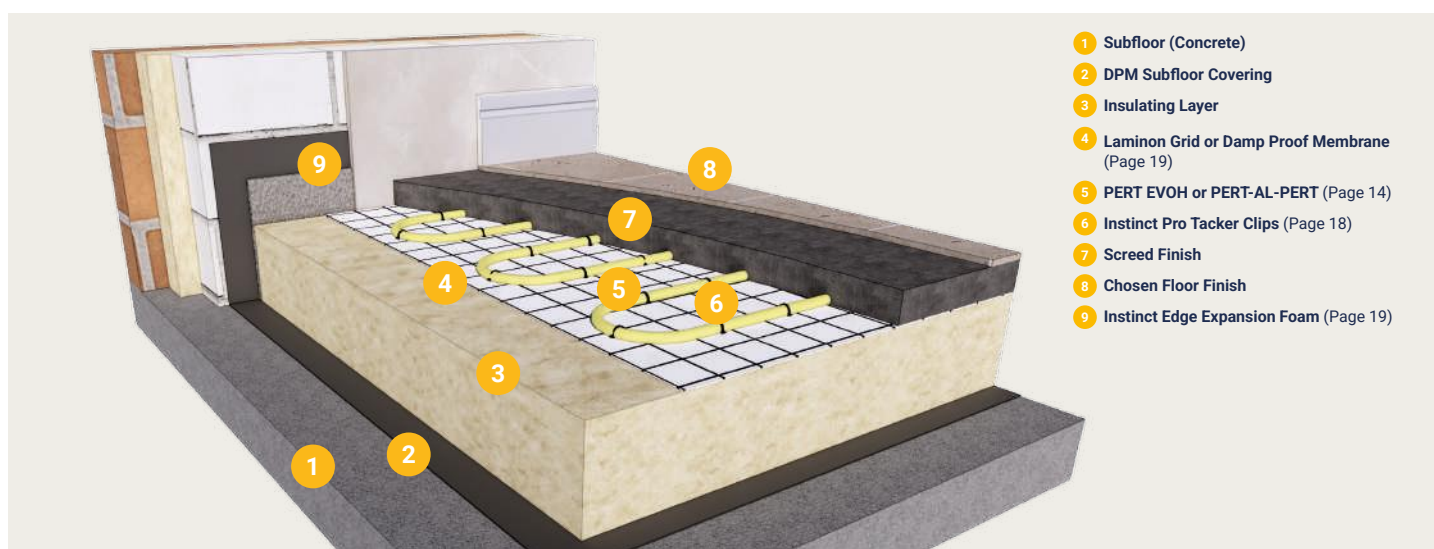
BS EN 1264 Compliance
Our designs adhere to industry standards, ensuring optimal performance and efficiency.

We’ll work closely with you to ensure your underfloor heating system meets your specific needs and expectations. Email us today at ufh@jameshargreaves.com to schedule your free design consultation.

Flooring Solutions

When it comes to underfloor heating, the right flooring solution is key to getting the most from the system.

That's why we offer a range of solutions for different installation types. Whether you're working on a staple fixing/screed finish, castellated panels/screed finish, or an overlay system with XPS panels or gypsum panels, we've got you covered. And for joist installations, check out our chipboard flooring boards and spreader plates. We know every job is different, so we aim to supply a variety of solutions to suit your specific needs.

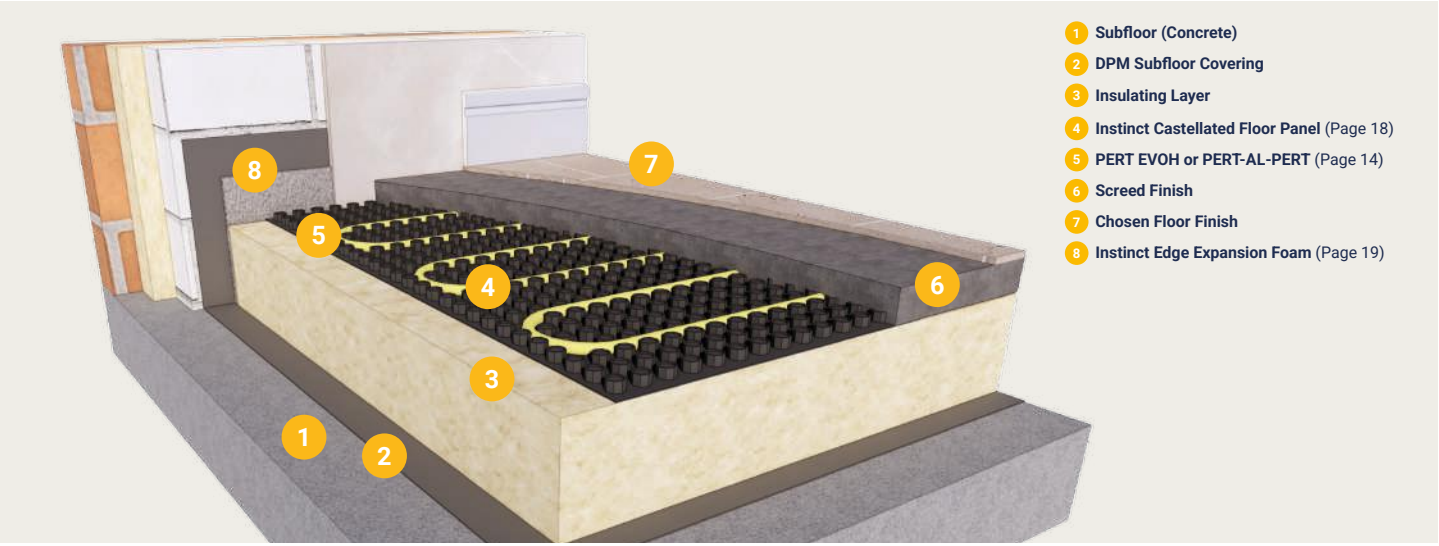


Staple Fixing/Screed Finish

Using Staples is the most cost-effective method of fixing pipework to the insulation layer. Staples can be easily and quickly pushed into place using a Staple Gun; please see page 18.

- Suitable for **16mm** Pipework.
- The most cost-effective way of fixing.
- Easily and quickly pushed into place when using a staple gun.
- Two depths of staples are available to suit the insulation thickness; **40mm & 60mm**.
- Offers optimum flexibility for any laying pattern. Easily accommodates irregular designs.

Castellated/Rail Screed Finish

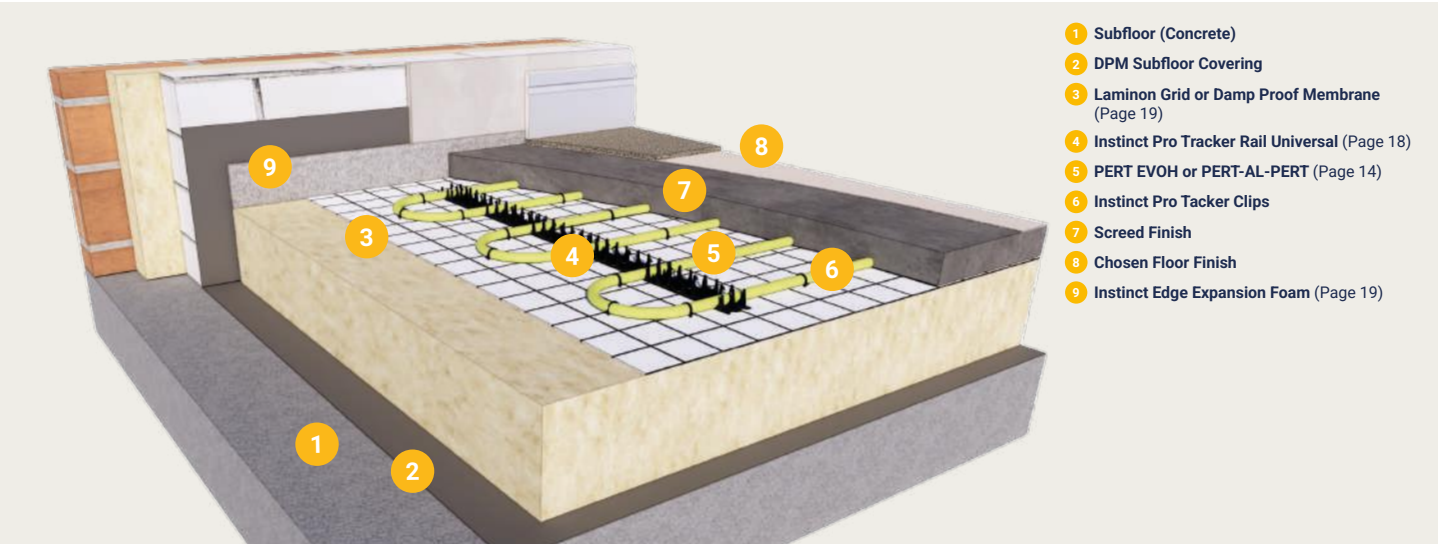


- 1 Subfloor (Concrete)
- 2 DPM Subfloor Covering
- 3 Insulating Layer
- 4 Instinct Castellated Floor Panel (Page 18)
- 5 PERT EVOH or PERT-AL-PERT (Page 14)
- 6 Screed Finish
- 7 Chosen Floor Finish
- 8 Instinct Edge Expansion Foam (Page 19)

Castellated Panels/Screed Finish

Castellated Panels can be interlocked to give a rigid foundation for your UFH pipework. The regular spacing of the castellations makes positioning and securing pipework straightforward and ensures your chosen pipe centre dimensions are maintained.

- Suitable for **12mm and 16mm** Pipework.
- Protects pipework during the process of screeding.
- Can withstand foot traffic without damaging pipework.
- Saves on the amount of screed to be used.
- Offers optimum flexibility for any laying pattern. Simple to install, and can be completed by one person.



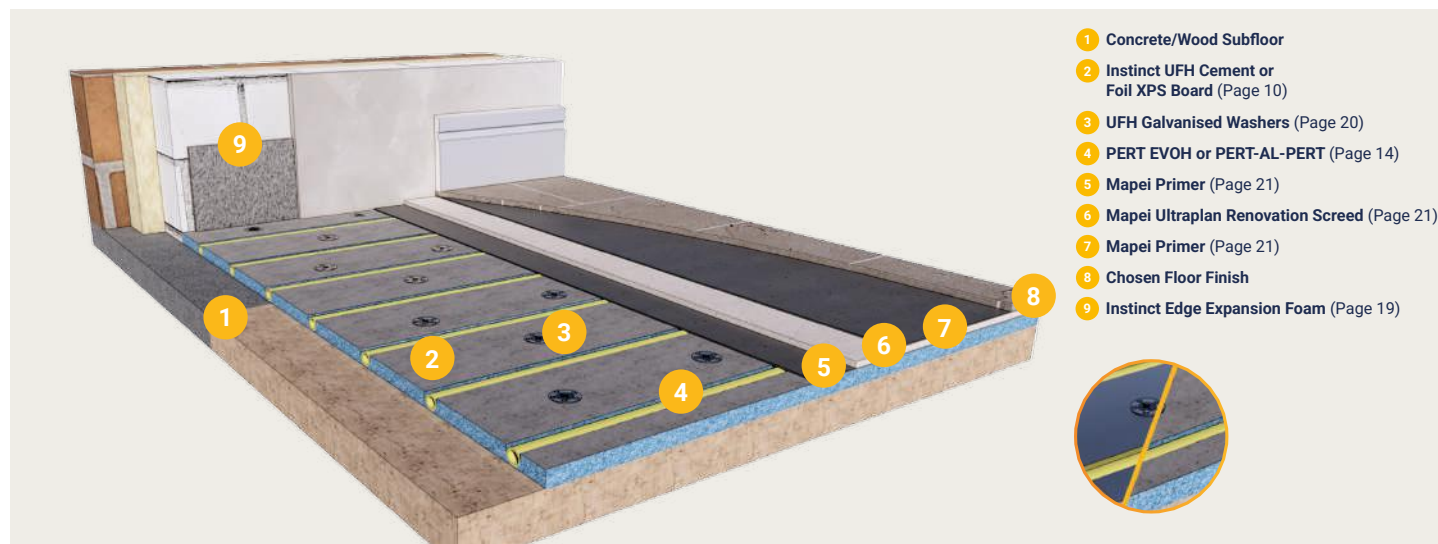
- 1 Subfloor (Concrete)
- 2 DPM Subfloor Covering
- 3 Laminon Grid or Damp Proof Membrane (Page 19)
- 4 Instinct Pro Tracker Rail Universal (Page 18)
- 5 PERT EVOH or PERT-AL-PERT (Page 14)
- 6 Instinct Pro Tacker Clips
- 7 Screed Finish
- 8 Chosen Floor Finish
- 9 Instinct Edge Expansion Foam (Page 19)

Rail System/Screed Finish

The Clip Rail System offers a secure and reliable fixing method for pipework. Each rail is **1m** in length and features a self-adhesive backing allowing ease of installation. Rails can be easily cut to size if required. The regular spacings ensure your chosen pipework centres are maintained.

- Suitable for **16mm** Pipework.
- Can be used in conjunction with staple clips.
- Each rail features a self-adhesive backing.
- Prevents any movement in the pipework during the screeding process.
- Regular spacing ensures optimal heat distribution throughout the floor.

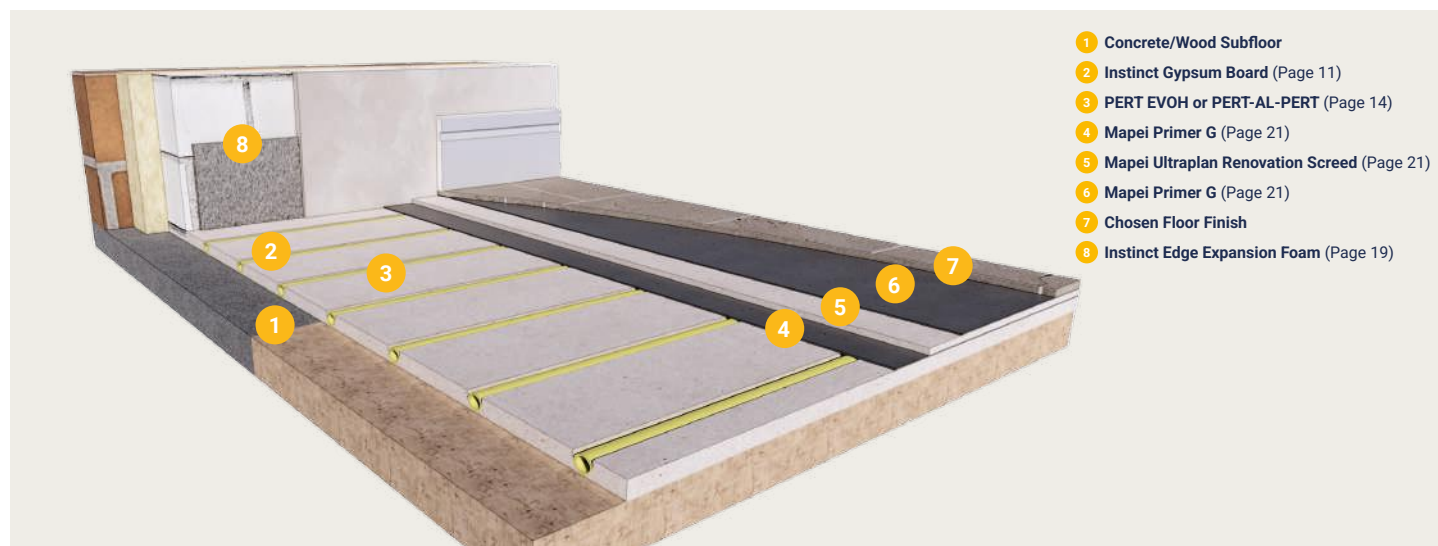
XPS/Gypsum Overlay Panels



Overlay XPS Panels

Our 300kPa XPS boards are the perfect choice for overlay/retrofit systems when minimum weight and insulation properties need to be combined. We offer two types of finish; **Cement** and **Foiled-Faced** which are suitable for all types of floor finish; see page 10.

- Suitable for **16mm** Pipework.
- Lightweight; only **2.5kg** per panel.
- Each board is set at **150mm** Centres.
- Each board incorporates returns and highway channels.
- Can easily be cut to size. Highway panels are available for **16mm** pipework installations; see page 12.



Overlay Gypsum Panels

Our high-density low profile Gypsum fibre overlay boards are the perfect solution for any retrofit installation that is looking for the ultimate in thermal conductivity ensuring an even heat distribution throughout the floor. At only 18mm thick and requiring the absolute minimum depth of screeding these boards are the ideal choice where the raising of the floor height needs to be kept as low as possible.

- Excellent thermal conductivity for even heat distribution. Suitable for **12mm** Pipework.
- Can easily be cut to size.
- Each board incorporates returns and highway channels. Has acoustic properties.
- Highway panels are available for **12mm** pipework installations; see page 12.

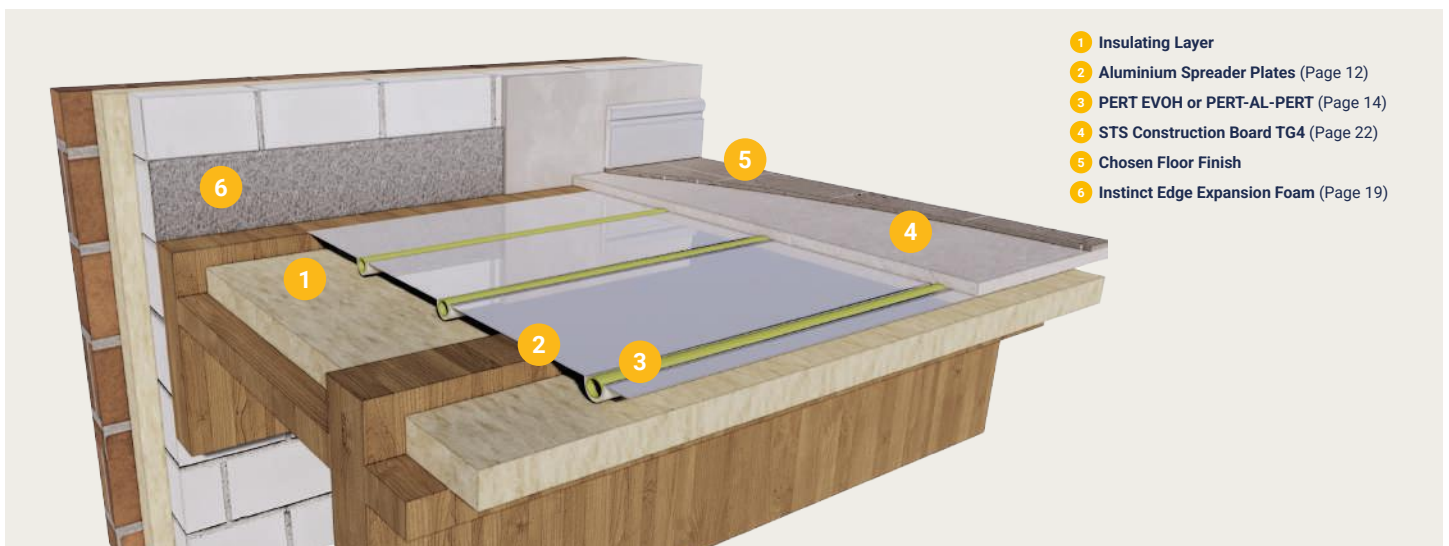
Chipboard Flooring Boards/Spreader Plates



Chipboard Flooring Boards

These routed Chipboard Flooring panels offer a fantastic solution for new build or retrofit installations onto floor joists. Routed at 150mm centres with return cutaways featured at regular intervals. Each board is foil-faced to offer the best possible heat conductivity and when combined with 6mm No More Ply overboards a high even heat transfer is achieved; see page 22.

- Foiled faced for maximum thermal conductivity.
- Routed to accept **12mm** or **16mm** Pipes.
- Tongue and groove edges on all sides for ease of installation.
- Tested in accordance with: BS EN 1195:1998 & BS EN 12871:2013.
- Moisture resistant.



Spreader Plates

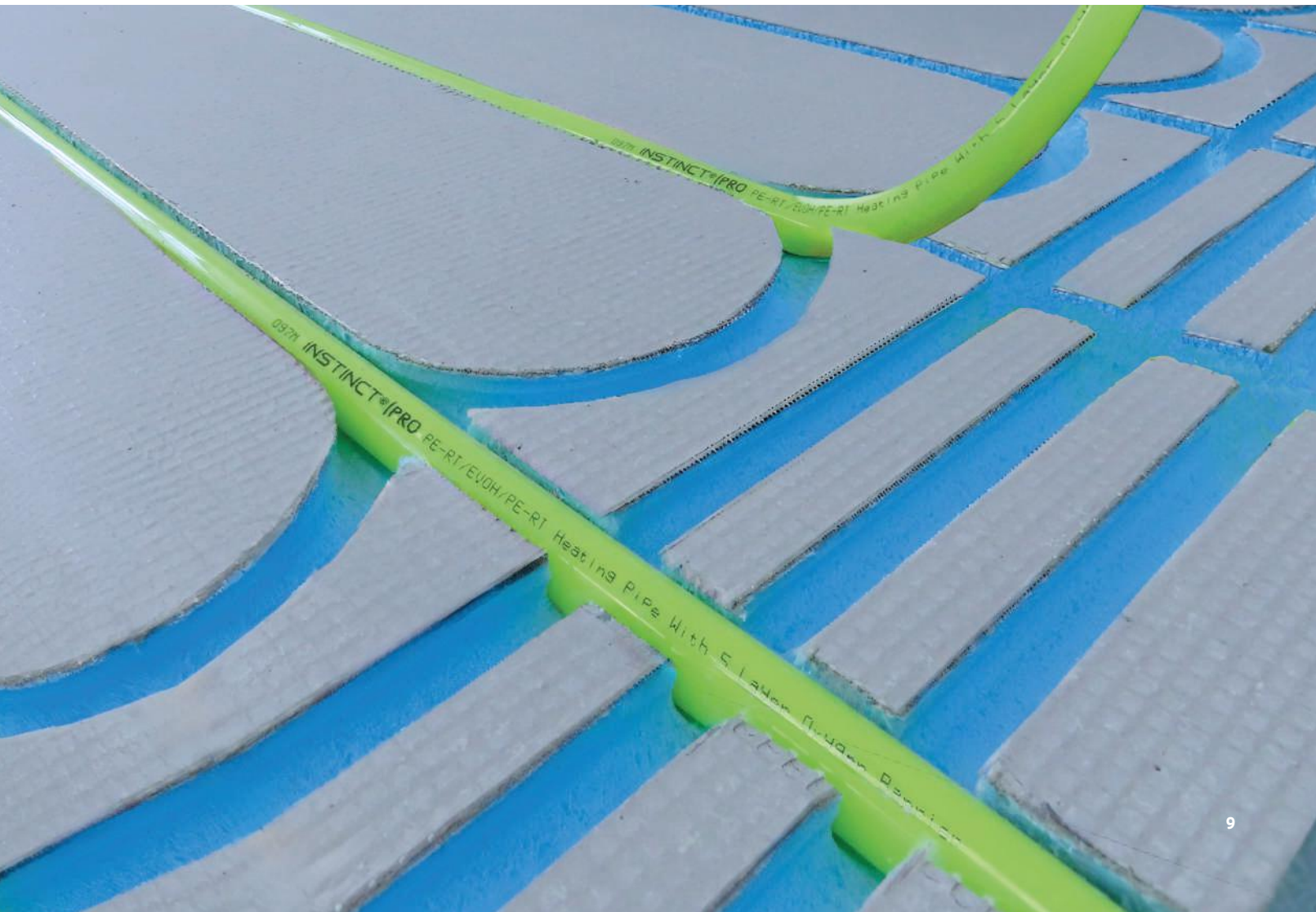
These Aluminium Spreader Plates are specifically designed for installation between floor joists with 400mm centres. Made from high-grade Aluminium each plate offers an even spread of heat across the entire floor surface and when combined with TG4 tile backer floorboard a high even heat transfer is achieved, see page 22.

- Available with either 2 or 3 channels per plate.
- Laid across traditional wooden joists.
- Easy to install.
- Suitable for **16mm** Pipework.
- Channels provide secure clipping of pipework.

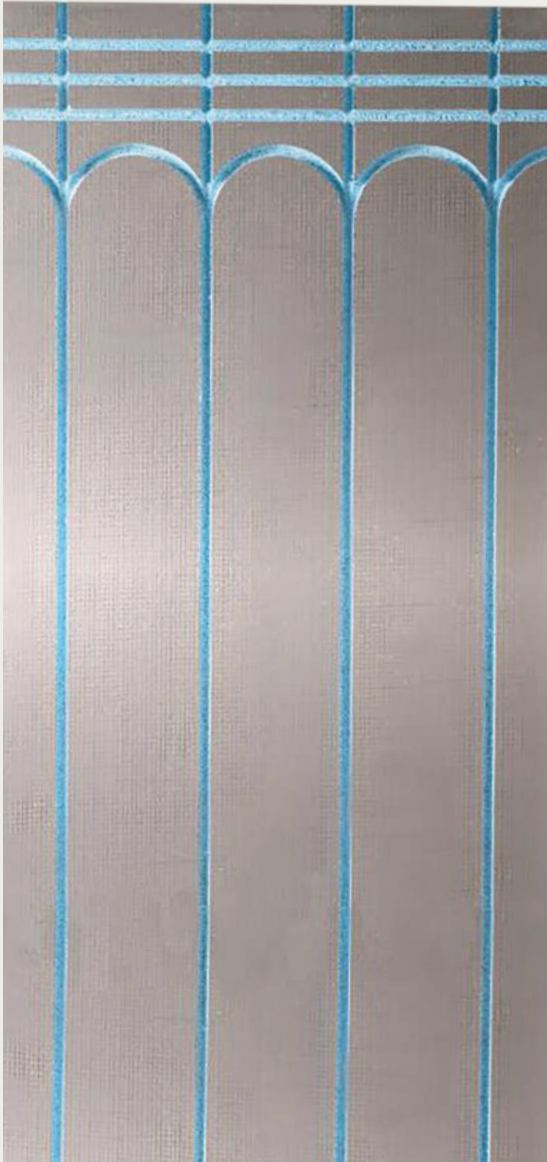
Underfloor Heating Boards

Our range of underfloor heating boards are designed to meet the demands of various projects.

For overlay systems, we supply both Cement-Faced and Foiled-Faced XPS boards, offering lightweight and low-profile solutions for different floor finishes. Our Overlay Gypsum Heatdeck boards are ideal for retrofit installations requiring ultimate thermal conductivity and minimal screeding. And for new builds or replacing existing floorboards, our Thermchip Chipboard Flooring is a high-performance option. Whatever the job, we have a board to suit.



XPS Overlay Boards



3448INP1440

Cement Faced XPS300 Board

This Cement Faced Board is the perfect solution when looking for a low profile overlay board for multi-floor finishes. This lightweight board, made from extruded polystyrene (XPS) is faced with a glass fibre reinforcement mesh and then coated with a cementitious finish. Primer recommended prior to application of adhesive or renovation screed.

For customers looking for an extra strength board, the XPS300 Board is also available as a 500 kPa XPS500 option which gives even greater compression strength.

- 1200 mm × 600 mm × 20 mm: routed to accept 16mm pipe
- Panel weight: 2.6kg per panel
- Thermal conductivity: 0.033 W/mK
- Compressive strength: 300 kPa
- Pipe centres on the board are 150mm



3449REL1800

Foiled Faced XPS400 Board

This Foiled Faced XPS Board is another perfect solution when looking for a lightweight low profile overlay board for multi floor finishes. This lightweight board, made from extruded polystyrene (XPS) is foil faced which offers excellent heat transfer. Once primed and screeded or overlaid with a fibre cement board any floor finish of your choice can be applied.

For customers looking for an extra strength board, the XPS400 Board is also available as a 500 kPa XPS500 option which gives even greater compression strength.

- 1200mm × 600mm × 20mm: routed to accept 16mm pipe
- Panel weight: 2.2kg per panel
- Thermal conductivity: 0.035 W/mK
- Compressive strength: 400 kPa with 100 Micron Foil
- Pipe centres on the board are 150mm

Gypsum Overlay & Chipboard Flooring Boards



3446INS1060

Heatdeck Gypsum Board

The Heatdeck Board is a low profile high performance underfloor heating board manufactured from reinforced gypsum. These highly conductive boards transfer the heat from the underfloor heating pipes quickly, efficiently and effectively underfoot and into the surrounding room. Heatdeck is a system that is able to accept multiple floor finishes (tiles, wood floors, carpets) within 24 hours of installation, a significant time saving benefit over screeded alternatives.

Depending on chosen floor finish a separation layer of renovation screed/NoMorePly may be required.

- **1200mm x 600mm x 18mm:** routed to accept 12mm pipes
- Can act as an acoustic aid on separating floors
- Panel weight: **14.5kg per panel**
- Thermal conductivity: **0.32 W/mK**
- Pipe centres on the board are **150mm**



3446INS1170
3446INS1210

Thermchip Chipboard Flooring

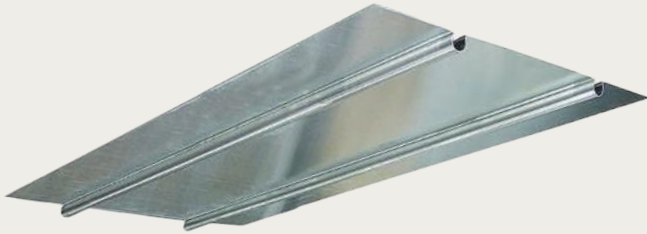
The Thermchip Board is a high performance chipboard with a foil face for even heat transfer. The system is ideal for New-build installations over joists or replacing existing floor boarding. The boards are structurally tested in accordance with BSEN 12871:2013. Ultimate floor load, $F_{max} = 6.62 \text{ kN}$ (a safety factor of 50% should be applied to these values).

- **2400mm x 600mm x 22mm;** routed to accept 12mm pipes
- **2400mm x 600mm x 22mm;** routed to accept 16mm pipes
- Board weight: **17.3kg per board**
- Install on timber joists at **600mm** centres
- Moisture absorption: **0.6%**
- Pipe centres on the board are **150mm**

Spreader Plates & Highway Boards

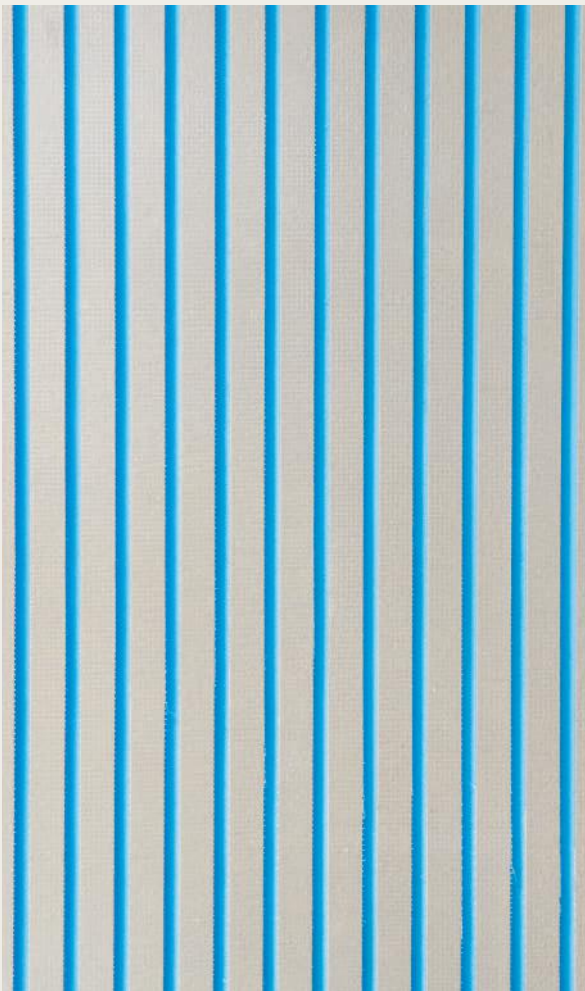
Aluminium Spreader Plate

Designed specifically to sit between joists, our spreader plates are available in **two** or **three 16mm** pipe channel options. **200mm** pipe centres on the two channel, **133mm** pipe centres on the three channel.



3448INP1400
3448INP1410

● Size: 1000mm x 390mm

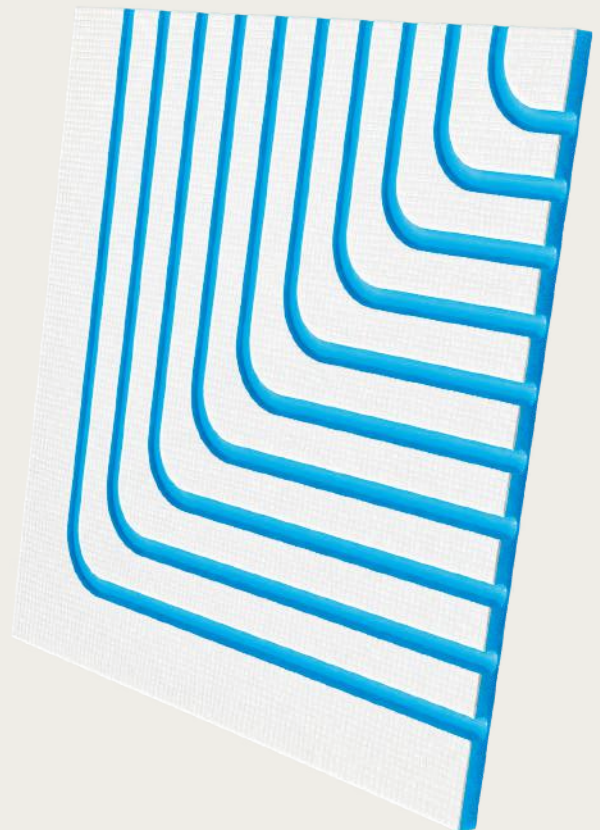


3448INP1445

XPS300 Cement Faced Highway Board

A straight highway board for use to and from the manifold or just for general flows & returns; routed to accept **16mm** pipe.

- **12 channels per board** (at 50mm centres).
- Size: **1200mm x 600mm x 20mm**.
- Panel Weight: **2.4 KG**.
- 90 deg highway boards are also available: **600mm x 600mm**.



3449REL1850

XPS300 Cement Faced Corner Board

A corner highway board for use to and from the manifold or just for general flows & returns; routed to accept **16mm** pipe.

- **10 channels per board** (at 50mm centres).
- Size: **600mm x 600mm x 20mm**.
- Panel Weight: **1.4 KG**.

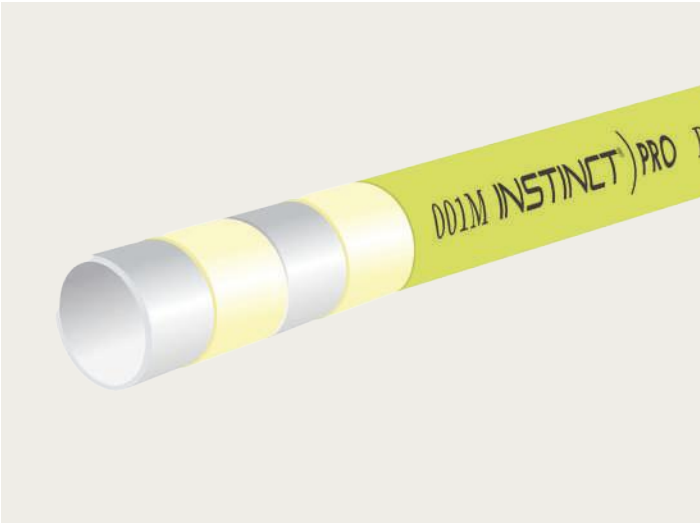
Underfloor Heating Products

We stock a wide range of underfloor heating products to ensure you have everything you need for a smooth installation.

From PERT & MLCP pipe and castellated floor panels for screed systems, to a variety of board fixings and MAPEI primers, screeds and adhesives, we've got the essentials covered. You will find manifolds, blending valve, pump packs and staple clips plus all the accessories and ancillaries to complete the job. And don't forget our NoMorePly tile backer boards for a perfect tiling base.



Pipe



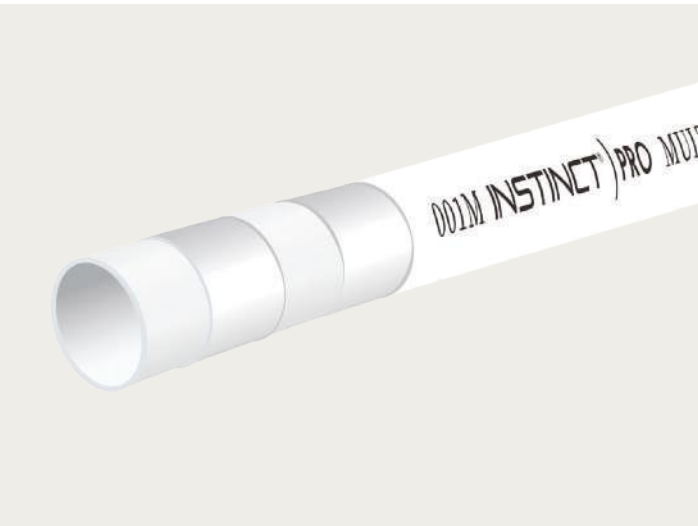
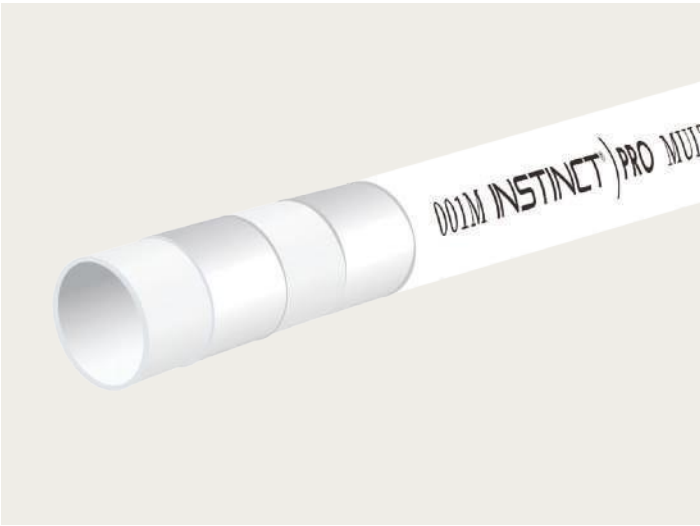
PERT EVOH Lightweight and Ultra-Flexible Pipe

Pipe Dimensions: 12mm x 1.6mm, 3 Layers
Our **12mm 3-layer pipe** is made up of an oxygen barrier, a layer of adhesive, and a layer of PERT pipe. **Lightweight** and **ultra-flexible, easy to bend**, our PERT EVOH 12mm barrier pipe is the ideal choice for hassle-free routing and reduced installation time. **Comes with a 50-year guarantee.**

- 12mm x 80m Coil (Weight: 4.3kg) **3448INP1220**
- 12mm x 320m Coil (Weight: 17.0kg) **3448INP1230**

Pipe Dimensions: 16mm x 2mm, 5 Layers
Our **16mm 5-layer pipe** is made up of an oxygen barrier, 2 layers of adhesive, and 2 layers of PERT pipe. **Lightweight** and **ultra-flexible, easy to bend**, our PERT EVOH 16mm barrier pipe is the ideal choice for hassle-free routing and reduced installation time. **Comes with a 50-year guarantee.**

- 16mm x 120m Coil (Weight: 10.4kg) **3448INP1240**
- 16mm x 240m Coil (Weight: 20.7kg) **3448INP1250**
- 16mm x 300m Coil (Weight: 25.8kg) **3448INP1260**
- 16mm x 500m Coil (Weight: 43.0kg) **3448INP1270**



PERT-AL-PERT (MLCP) Aluminium Lined Pipe

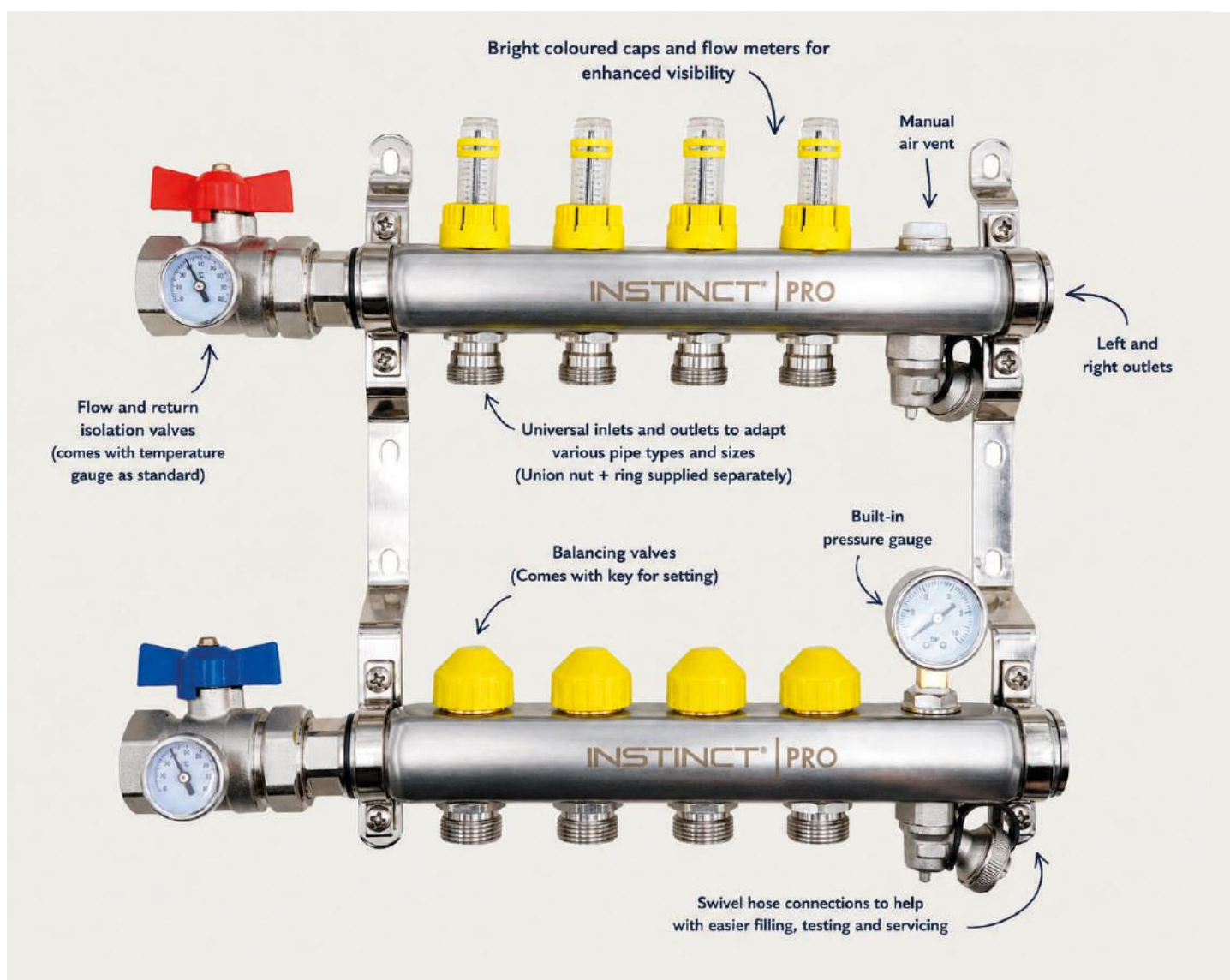
Pipe Dimensions: 12mm x 1.6mm, 5 Layers
A flexible yet durable solution, the aluminium layer provides strength and also an oxygen barrier. Made up of 2 layers of PERT pipe, 2 layers of adhesive, and 1 layer of aluminium. Our professional-grade PERT-AL-PERT 12mm (multilayer) pipe is the perfect choice for underfloor heating installations, offering the benefits of both plastic and metal. **Comes with a 50-year guarantee.**

- 12mm x 80m Coil (Weight: 5.2kg) **3448INP1160**
- 12mm x 160m Coil (Weight: 10.3kg) **3448INP1170**
- 12mm x 240m Coil (Weight: 15.4kg) **3448INP1180**

Pipe Dimensions: 16mm x 2mm, 5 Layers
A flexible yet durable solution, the aluminium layer provides strength and also an oxygen barrier, made up of 2 layers of PERT pipe, 2 layers of adhesive, and 1 layer of aluminium. Our professional-grade PERT-AL-PERT 16mm (multilayer) pipe is the perfect choice for underfloor heating installations, offering the benefits of both plastic and metal. **Comes with a 50-year guarantee.**

- 16mm x 120m Coil (Weight: 12.6kg) **3448INP1190**
- 16mm x 240m Coil (Weight: 25.2kg) **3448INP1200**
- 16mm x 500m Coil (Weight: 52.5kg) **3448INP1210**

Manifolds



Stainless Steel Manifolds in 2 to 12 Ports (Heating Circuits)

- Pre-fitted mounting bracket.
- 1" isolation ball valve with temperature gauge (flow and return).
- Built-in pressure gauge.
- Balancing valve on each return point.
- Flow meter on each flow point with shut-off function.
- Fill and drain point on flow and return.
- Manual air vent.
- Independent setting for each circuit.
- Suitable for water or glycol.
- 6 bar maximum working pressure.
- 5–70°C working temperature range.
- ¾" flow/return connections (12mm & 16mm Euro cone pipe connections sold separately).
- 50mm centres on flow/return connections.
- Left or Right Inlet/Outlet

Number of Outlets	2	3	4	5	6	7	8	9	10	11	12
Width (mm)	126	176	226	276	326	376	426	476	526	576	626

Eurocone, Blending Valve & Pump Packs



3448INP1500
3448INP1510

Eurocone Pipe Connections

Compatible with PERT EVOH or PERT-AL-PERT (MLCP) pipe. Suitable for water or glycol. Universal connections onto manifold.

- 12mm x 1.6 Eurocone (Sold in Pairs)
- 16mm x 2.0 Eurocone (Sold in Pairs)



3448INP1020



3448INP1030

Blending Valve + Pump Pack

Blending Valve and Pump Pack with Bastion Pump

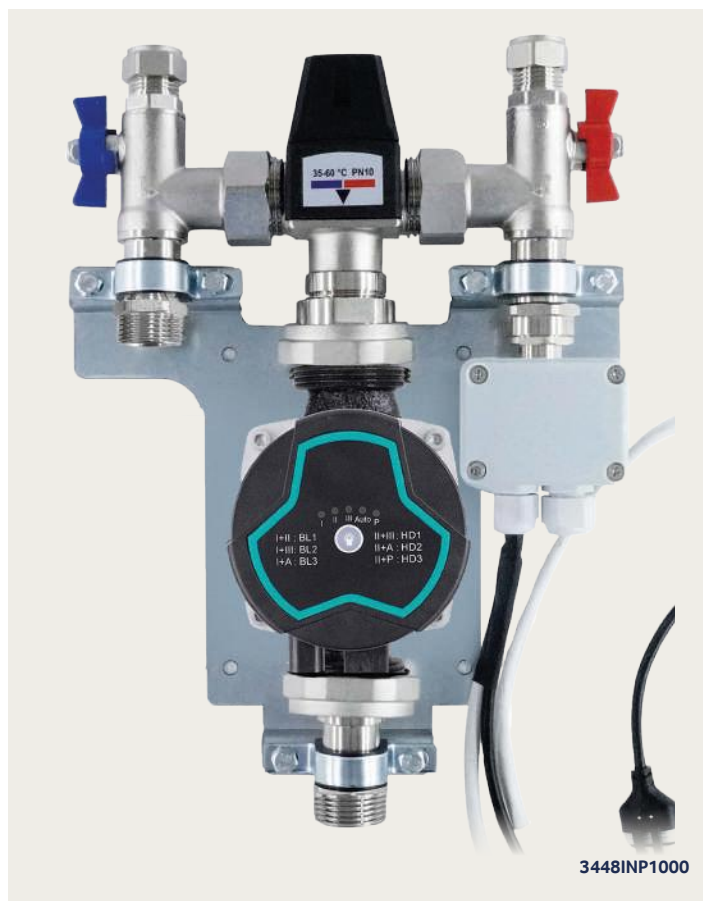
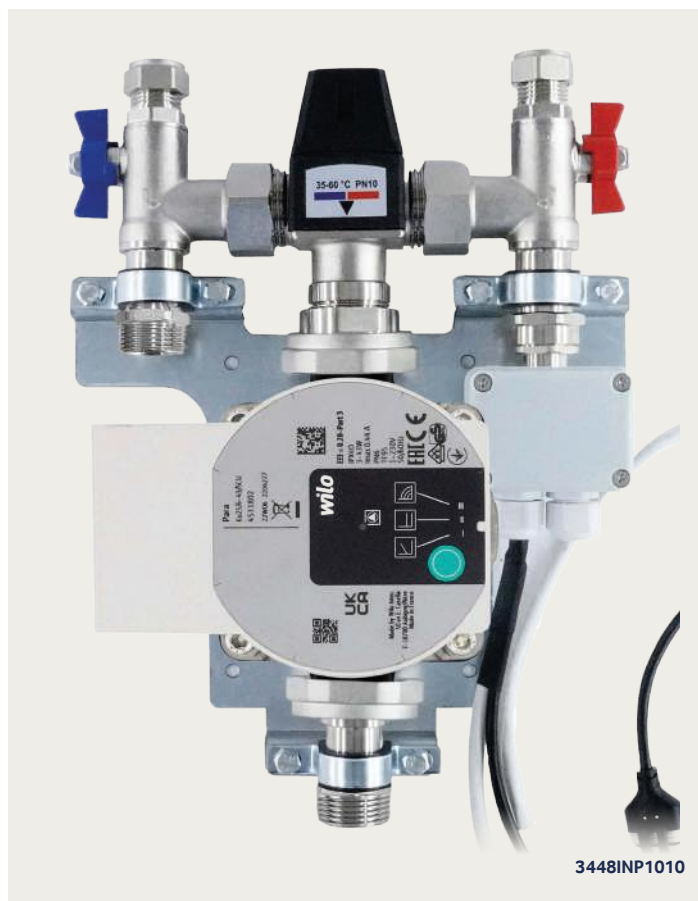
- 5-year guarantee.
- Simple attachment to manifold.
- A-rated 6m pump.
- Left- or right-hand connections (reversible)
- Adjustable temperature to suit floor structure.
- Suitable for water or glycol.
- Temperature range 35°C to 60°C.

Blending Valve + Pump Pack

Blending Valve and Pump Pack with Wilo Pump

- 5-year guarantee.
- Simple attachment to manifold.
- A-rated 6m pump.
- Left- or right-hand connections (reversible)
- Adjustable temperature to suit floor structure.
- Suitable for water or glycol.
- Temperature range 35°C to 60°C.

Single Room Control Pump



Single Room Control Pump

Single Room Control Pump Pack for providing controlled mixed water to a single room application with a heat output up to 3 kW.

- Pre-wired **Bastion** Pump - 5-year guarantee.
- Flow Temperature Thermostat.
- Integral Flow and Return Ball Valves.
- Adjustable Thermostatic Blending Valve.
- Fixing Bracket.
- Maximum Working Pressure - 10 Bar.

Single Room Control Pump

Single Room Control Pump Pack for providing controlled mixed water to a single room application with a heat output up to 3 kW.

- Prewired **Wilo** Pump - 2-year guarantee.
- Flow Temperature Thermostat.
- Integral Flow and Return Ball Valves.
- Adjustable Thermostatic Blending Valve.
- Fixing Bracket.
- Maximum Working Pressure - 10 Bar.



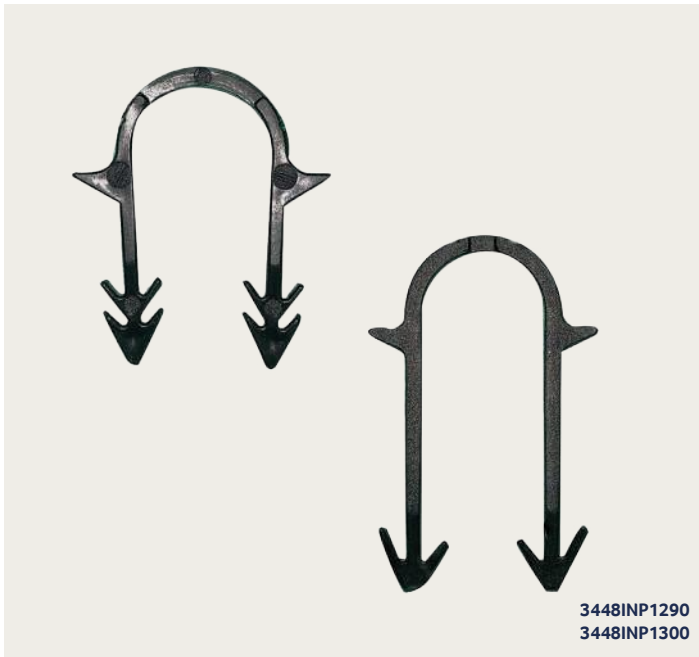
Bastion Replacement Pump

- 5-year guarantee.

Wilo Replacement Pump

- 2-Year Guarantee.

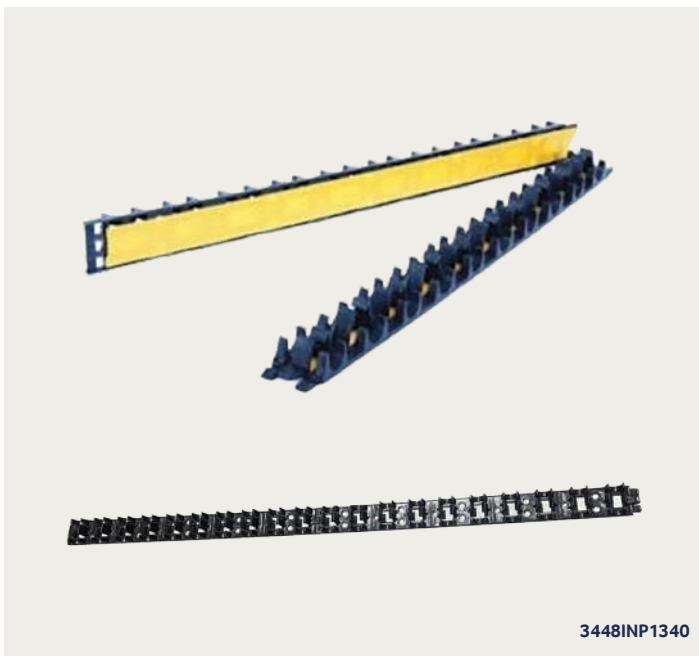
Screeded Floor Fixings



Staple Clips Suitable for 16mm Pipe

Staple clips suitable for 16mm diameter pipe, available in two lengths; 40mm and 60mm. Provided in rows of 25 for use in a staple gun.

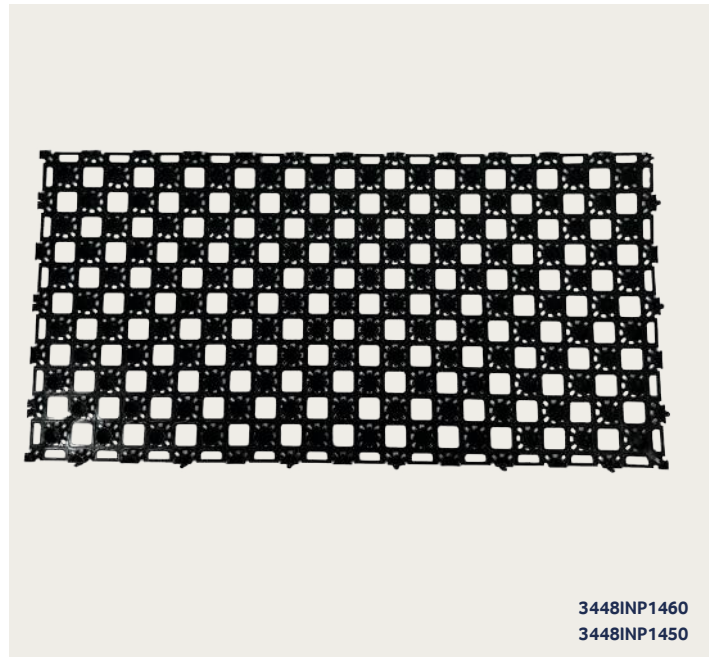
- Sold in a pack of **300**.



Self-Adhesive Pipe Rail

An ideal alternative for systems when clips cannot be used or in conjunction with clips. The 1 metre rail can be interlocked to give a much wider width. Suitable for 16mm pipe at 50mm spacing intervals. Can also be screwed into position depending on the floor finish/applications.

- For use with **16mm pipe**.



Self-Adhesive Castellated Floor Panels

Designed to hold 12-16mm underfloor heating pipes securely in place. Its low-profile build makes it suitable to both retrofit and new-build projects. With self-adhesive backing, interlocking connectors and easy cutting grooves. The panels are quick to install and adaptable to different room layouts. Once laid, they provide a stable base for floor finishes and help ensure an accurate pipe layout with consistent heat distribution.

- Each panel measures **600mm x 1200mm**



Staple Gun

Staple gun for inserting 40mm or 60mm clips over 16mm pipe into the insulation. The clips are secured in place by pressing the handle of the gun down. Multiple rows of 25 clips can be loaded in the clip housing for continued use.

- For use with **16mm pipe**.

Accessories & Ancillaries



3446INS2000

Thermal Perimeter Edge Strip

A high performance thermal break around the perimeter of each heated floor that also allows contraction and expansion.

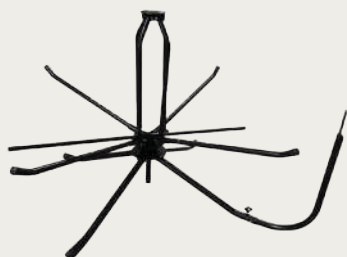
- Roll size: **8mm x 150mm x 25m.**
- Comes with bonded PVC apron and self-adhesive backing.



3452FRA1000

Conduit Pipe

16mm x 25m coil underfloor heating conduit pipe. The pipe is split for ease of installation.



3448INP1330

Pipe De-Coiler

Our Premier Pipe De-Coiler is the extra pair of hands that everyone needs when installing underfloor heating pipe, especially when handling larger coils; The 1-metre rails can be joined together to cover larger areas.



3452LAM1000
3452LAM1020



3449REL1350

1/2" Auto Air Vent (AAV)

Stainless Steel Bottle Air Vent that retrofits onto our Instinct Manifolds



3448INP1350

Plastic Elbow

The 90 deg Plastic Elbow aids pipe Entry/Exit for manifolds.

- Suitable for 16mm pipe.



3448INP1280

Pressure Test Pump

This durable hydraulic test pump is designed to test systems up to 60 Bar (850 psi). It features a 14.5L tank, a 3-unit pressure gauge, dual check valves for safety, and a 1/2" connection.

Laminon UFH Grid

A high-strength woven polypropylene grid designed for stapled underfloor heating installations. It helps secure pipework during screeding while protecting the underlying insulation.

- **Material:** 100% woven polypropylene
- **Colour:** White with blue grid
- Supports **100mm, 150mm & 200mm pipe centres.**
- **Weight:** 70gsm
- Resistant to chemicals used in screeds

Board Fixings



8010SCR1030

Beaver Wood Screws 4 x 50mm

The Beaver 4 x 50mm Double Countersunk Head Wood Screws are ideal for securing any XPS boards onto wood subframes. Surface hardened body, milling mid-section, deep cut thread, type 17 sharp point, deep punched pozi recess.

- Sold in boxes of 200.



8010SCR3000

Vortex Floorboard Screws 4.2 x 55mm

Vortex 4.2 x 55mm Floorboard Screws. This screw has been specifically designed for a fast and secure installation of floor boards and chipboard flooring to eliminate squeaks. The first choice when fixing Thermchip boards.

- Sold in boxes of 200.



8110EVE1340

EVERBUILD STICK2 Carpet Fix Spray

EVERBUILD STICK2 Carpet Fix Spray is a sprayable high-tack adhesive that fixes PU and foam backed carpets, carpet tiles, underlay, paper felt and cork to common substrates. Perfect for fixing our XPS300 foil faced boards to a clean + primed subfloor.

- 500 ml Aerosol Can
- Coverage: ~2.5 m² for 500ml can



PPOLFPW

Galvanised Rebated Washers

Galvanised Rebated Washers specifically designed for securing XPS boards. The centre cone is recessed and designed to bite into the surface of the XPS board and when fully screwed down the washer becomes flat.

- Sold in bags of 100.

MAPEI® Primers, Screed & Adhesive



8110MAP1330
8110MAP1335
8110MAP1337

Primer G

A synthetic resin primer for treating all XPS and Gypsum Boards as anchoring coat to improve adhesion before applying tile adhesive or screed.

- Available in 1kg, 5kg, and 25kg.



8110MAP1325
8110MAP1327

Eco Prim Grip Plus

A ready-to-use adhesion primer specifically formulated for smooth, low-absorbent surfaces like foil-faced boards (Foiled XPS Board and Foil-Faced Chipboard), before applying tile adhesive or screed.

- Available in 5kg, and 10kg.



8110MAP1300

Ultraplan Renovation Screed

The Ultraplan Renovation Screed 3240 is a fibre-reinforced, self-levelling compound designed for interior levelling, smoothing, and infilling thickness differences from 3mm to 40mm in a single application.

- Available in 25kg bags.
- Approx coverage 6m² at 3mm thickness/1.8m² at 10mm thickness.



8110MAP1130
8110MAP1140

Super Flexible Tile Adhesive

A high-grab, high-strength super flexible tile adhesive that is ideal for use in underfloor heating applications. Specifically formulated for large floor areas that require flexibility due to changing temperatures.

- Available in 20kg bags.
- Tile Adjustment Time: Up to 90 minutes.
- Available in Grey or White.

Floor Boards & Ancillaries



Instinct Printed 6mm Fibre Cement Cover Boards

Our Instinct Printed Cover Boards are high-strength, water-resistant cement fibre boards used as the covering layer over our Instinct routed UFH board systems. The boards strengthen the surface of the routed carrier board, whilst also offering excellent and even heat transfer to the surfaces above. They also allow for ceramic and porcelain tiles to be laid directly over the surface after installation.

- Suitable for: **Water underfloor heating floor build-ups**
- Installations where visible pipe-route guidance is required



MS Polymer Adhesive

Our RESOBOND MS POLYMER Adhesive is a high performance, professional grade adhesive specifically used for the bonding of the Instinct Printed 6mm Fibre Cement Cover Boards. Formulated using advanced MS polymer technology, it provides a strong, durable and permanently flexible bond to a wide range of substrates.

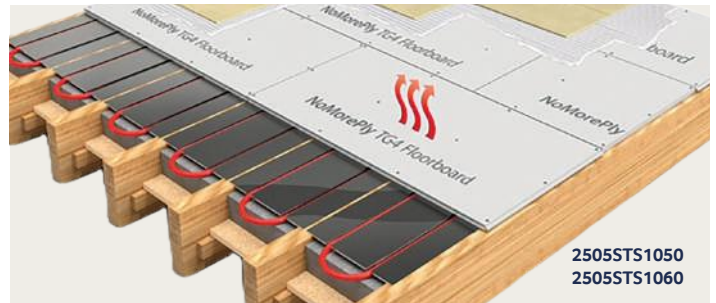
- 1 Tube covers 1.8m² on a 3mm bead



Mega Strength Adhesive

The STS Mega Strength is a heavy-duty, commercial-grade polyurethane adhesive engineered specifically for bonding the STS TG4 Construction Board System

- Available in 310ml cartridges.
- Offered in 600mm foil packs for larger areas.



TG4 Tile Backer Floorboards

These 1200 x 600 mm 4 sided tongue and groove boards are the perfect choice when installing underfloor heating between joists. A tile ready board* that also gives high thermal mass, high thermal conduction and even heat spread across the floor area. Having all 4 sides finished tongue and groove means that the edges of the board do not need to fall onto joists, offering fewer cuts and less wastage.

- Available in 18mm and 22mm thicknesses.
- *Requires priming before over tiling.



Screws

Box of 200 5mm x 25mm Screws for 6mm Cover Boards to Routed Chipboard (48 Screws per m²)

- Box of 200



NoMorePly Fixing Screws

These high-grade zinc-coated fixing screws are specifically designed for use with reinforced fibre cement boards. A unique cutting head allows an effortless fixing and flush finish of the boards to the subfloor. 12 screws per board are recommended.

- 25mm screws for use on 6mm overboard (sold in boxes of 200 c/w driver bit).
- 50mm screws for use on TG4 floorboards (sold in boxes of 250 c/w driver bit).

Underfloor Heating Controls

Take control of your underfloor heating system with our range of top-quality controls.

We offer both EPH and Heatmiser systems, giving you a choice of hardwired, wireless, and smart control options. From stylish RF touch thermostats and programmable thermostats to WiFi gateways and wiring centres, we have the perfect solution for any installation. And for the finishing touch, we also supply thermal actuators, floor probes, and zone valves.





EPH Controls



1750SAU2200
1750SAU2210
1750SAU2220
1750SAU2230

RF Touch Thermostats Mains & Battery Option

A stylish addition to any home. Available in both **black and white** variants with a sleek modern design they are sure to please even the most discerning homeowner. Available in both **battery and mains powered** options. Battery option is ideal for both new and retrofit scenarios where cable runs are difficult and expensive. Mains-powered options eliminate the need for periodic battery replacements.

- Temperature range 5-35 °C.
- RF-enabled.
- Keypad Lock.
- Setback Function.
- On/Off Functionality.
- Backlit.



1750SAU1280



1750SAU2050

Thermal Actuator

The TA230 Thermal Actuator is the first choice to complete and complement your choice of EPH controls.

- 230V.
- Normally closed.



1750SAU1855
1750SAU1815

RF Dial Thermostat Mains & Battery Option

When a more conventional dial control is required, our simple hand-wheel option for temperature control is the ideal choice. Available in both **battery and mains powered** options.

- Temperature range 5-35 °C.
- RF-enabled.
- Keypad Lock.
- Setback Function.
- On/Off Functionality.
- Backlit.

EMBERTS22 Wireless Thermostat

The EPH Controls EMBERTS22 is a wireless, 2-zone OpenTherm® smart thermostat pack designed for advanced, energy-efficient home heating management

- OpenTherm® smart thermostat
- 2-zone
- Touchscreen thermostat interface
- Time and temperature interface
- 5-year manufacturer warranty
- Energy-efficient.



1750SAU2030

Wifi Gateway V2

Make your RF thermostats **smart** with the addition of the GW04 gateway and the Ember app. Making it possible to have complete control over your heating system anywhere, anytime.

- Allows control of up to **10 thermostats**.
- Voice controlled - smart speakers.



EPH Controls



1750SAU1513
1750SAU1515

Hard-Wired Wiring Centres

Available in 5 or 10 zone options our 230V wiring centres are the ideal choice for wiring systems. Each feature a dedicated and clearly labelled output for actuators, pumps and valves that make both installation and troubleshooting easy. The wiring of zone valves means a radiator circuit can be controlled alongside UFH zones.



1750SAU2100

NTC-10K Ferrule Cable Sensor

The **EPH NTC10K-Ferrule** is a high-precision, 2m cable temperature sensor engineered specifically for underfloor heating (UFH) systems. Designed as a dedicated floor probe, this compact **NTC 10K** Ohm sensor delivers rapid thermal response and ultra-accurate surface monitoring to prevent floor overheating, maximize energy efficiency, and ensure optimal room comfort.

Compatible with thermostats: 1750SAU2200 | 1750SAU2210 | 1750SAU1880



1750SAU2120

Bathroom Sensor Housing

This housing gives an ultra neat finish, covering the air probe within the Bathroom/shower area.



1750SAU1517

RF Control (Wiring Centre)

The wireless enabled **UFH10-RF Control Centre** is compatible with both battery and Mains-powered RF thermostats. The UFH10-RF allows up to 10 zones to be programmed/controlled from one point. Together with the actuators being wired back to the UFH10-RF, a motorised valve can also be added, allowing a radiator circuit to be controlled alongside UFH zones.



1750SAU2110

NTC-10K Plug Cable Sensor

The **EPH NTC10K-Plug** is a high-precision, 2m cable temperature sensor engineered specifically for underfloor heating (UFH) systems. Designed as a dedicated floor probe, this compact **NTC 10K** Ohm sensor delivers rapid thermal response and ultra-accurate surface monitoring to prevent floor overheating, maximize energy efficiency, and ensure optimal room comfort.

Compatible with thermostats: 1750SAU2220 | 1750SAU2230 | 1750SAU1815



1750SAU1080

Zone Valve

The V222P 22mm 2-Way Zone Valve is the ideal choice for any home heating installation with a detachable motorised head and a detachable power cable. The detachable power cable allows the replacement of the actuator to be completed without the need to enter the wiring centre.

IMI Heatmiser Controls



NeoStat V3

The hard-wired 230V NeoStat has been designed as a standalone thermostat that can be paired to the NeoHub when a smart control option is required.

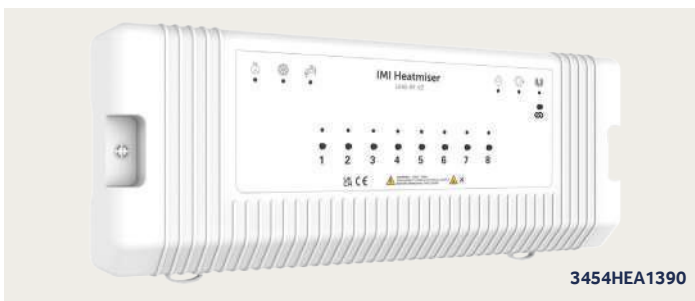
- Available in White, Black or Silver Finish.
- 24hr, 5/2 Day or 7-Day Programming.
- 4 Heating Levels.
- Backlit Screen.
- Flush Mounted Finish.
- Remote Floor & Air Sensor Connections.



NeoStat WiFi

The hard-wired 230V NeoStat WiFi has been designed as a standalone thermostat that can be paired directly to your WiFi router when smart control is required.

- Available in White and Black Finish.
- Backlit Screen.
- Flush Mounted Finish.
- Remote Floor and Air Sensor Connections.



Wireless Wiring Centre 230V

Available in an 8-zone model this RF wiring centre is for use with the NeoAir v3 and other RF thermostats. A 230V output is provided switching to relevant zone valves. Please see Heatmiser guide/QR code for full applications.



NeoAir V3

The battery powered NeoAir V3 is the ideal choice where hard wiring is not an option. Can be paired to the NeoHub when a smart control option is required.

- Available in White, Black or Silver Finish.
- 24hr, 5/2 Day or 7-Day Programming.
- Battery Life - 1 Year.
- Slimline.



Wiring Centre 230V

Available in 4 zone and 8 zone models, the choice for mains fed thermostats. Outputs for numerous heating options including radiator circuit; Please see Heatmiser guide/QR code for full applications.

IMI Heatmiser

All featured controls carry a full 2-year warranty.

To view the full range of Heatmiser Controls, simply scan this QR code.



IMI Heatmiser Controls



3454HEA1150

Wireless Receiver

The Switch v2 is a surface mounted 2 heating channel and hot water receiver that is compatible with the NeoAir v3 and other RF thermostats. **Please see Heatmiser guide/QR Code for full applications.**



3454HEA1460

Remote Air/Floor Probe

Specifically designed to measure remote air temperature or provide floor temperatures. Provided with a 3-metre cable.



3454HEA1490

Thimble Sensor

A discreet ultra-compact remote air sensor designed for use with Heatmiser thermostats that support external sensor inputs



3454HEA1340

NeoHub System

With the NeoHub system you can control your heating system from anywhere, anytime via your mobile phone.

- NeoStat/NeoAir/NeoHC



3454HEA1400

Thermal Actuator

The TA230 Thermal Actuator is the obvious choice to complement your Heatmiser Control family.

- 230V Powered
- 2 Wire Normally Closed



3454HEA1470

Remote Sensor Enclosure

Designed to house the air/floor probe. This discreet housing sits in areas of steam/condensation.



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