



James Hargreaves

# 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.

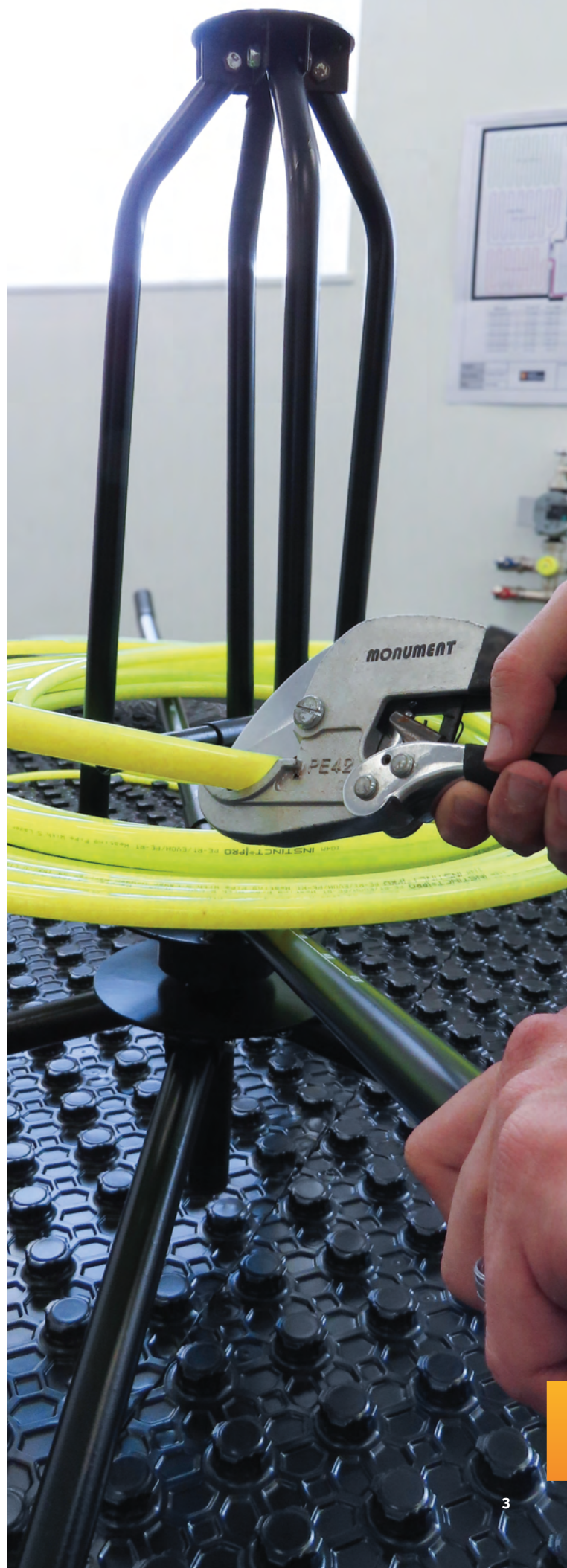
## Why Choose James Hargreaves?

- **Unmatched Expertise:** Being the UK's largest independent heating and plumbing merchant with over 100 years of experience, we have been at the forefront of underfloor heating 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 resolute 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.



# Contents

<b>H2X &amp; Design Process</b>	<b>04</b>
<b>Flooring Solutions</b>	<b>05</b>
Staple Fixing/Screed Finish	05
Castellated/Rail Screed Finish	06
XPS/Gypsum Overlay Panels	07
Chipboard Flooring Boards/Spreader Plates	08
<b>Underfloor Heating Boards</b>	<b>09</b>
Cement & Foil Faced Overlay Boards	10
Gypsum Overlay & Chipboard Flooring Boards	11
Aluminium Spreader Plates & Highway Boards	12
<b>Underfloor Heating Products</b>	<b>13</b>
Pert & MLCP Pipe	14
Manifolds	15
Eurocone, Blending Valve & Pump Packs	16
Single Room Control Packs & Replacement Pumps	17
Screeded Floor Fixings	18
Accessories & Ancillaries	19
Board Fixings	20
<b>MAPEI</b> Flooring Preparaton, Screeding & Adhesives	<b>21</b>
<b>NoMorePly.</b> STS/NoMorePly Panels & Ancillaries	<b>22</b>
<b>Underfloor Heating Controls</b>	<b>23</b>
<b>EPH</b> EPH Controls	<b>24</b>
<b>heatmiser</b> Heatmiser Controls	<b>26</b>





# 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 order. 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.



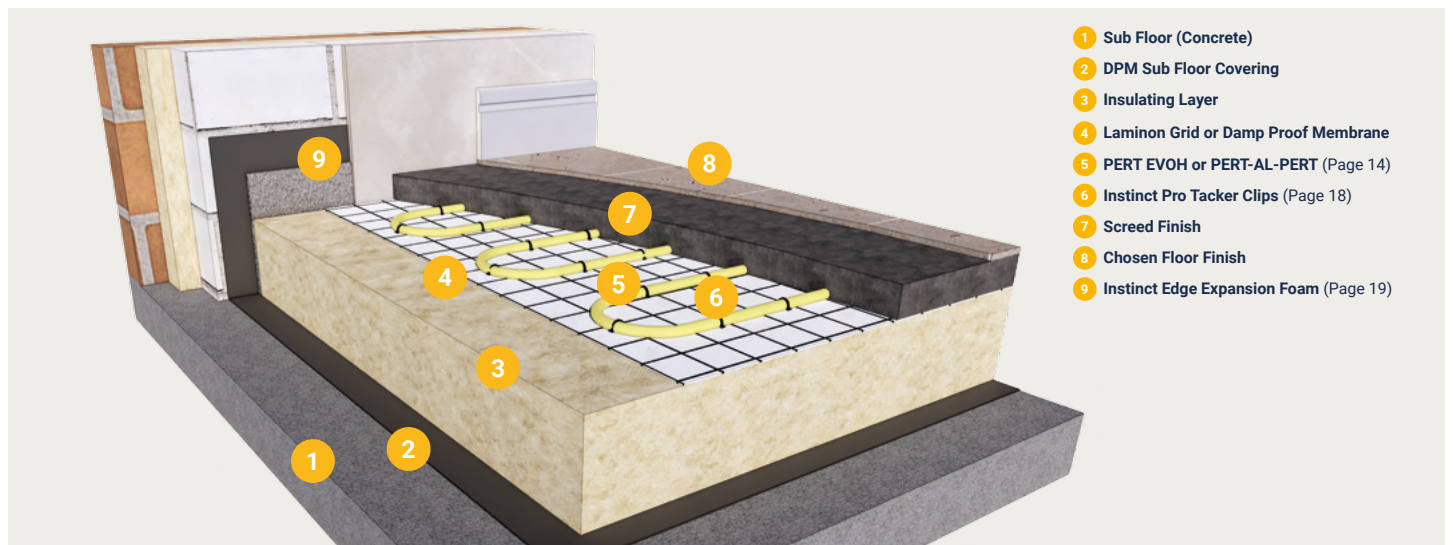
**BS EN 1264 Compliance**  
Our designs adhere to industry standards, ensuring optimal performance and efficiency.

**We'll work closely with you to ensure your underfloor heating system meets your specific needs and expectations. Email us today on [ufh@jameshargreaves.com](mailto: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.**

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.

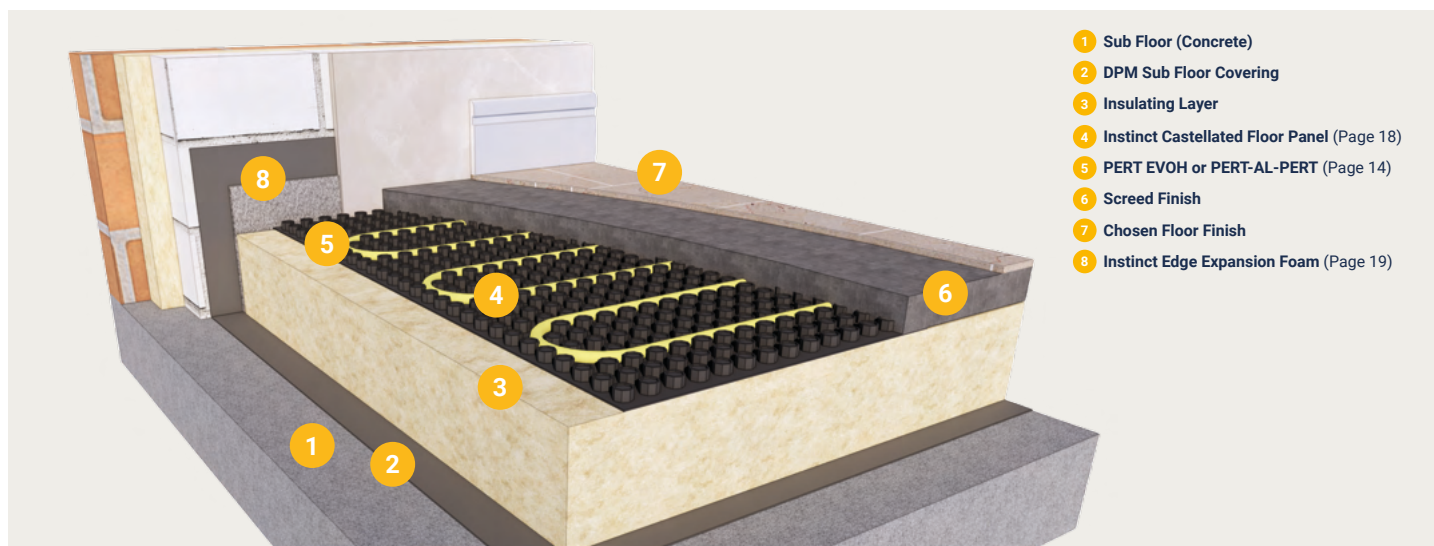


## Staple Fixing/Screed Finish

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**.
- Offer optimum flexibility for any laying pattern. Easily accommodates irregular designs.

# Castellated/Rail Screed Finish

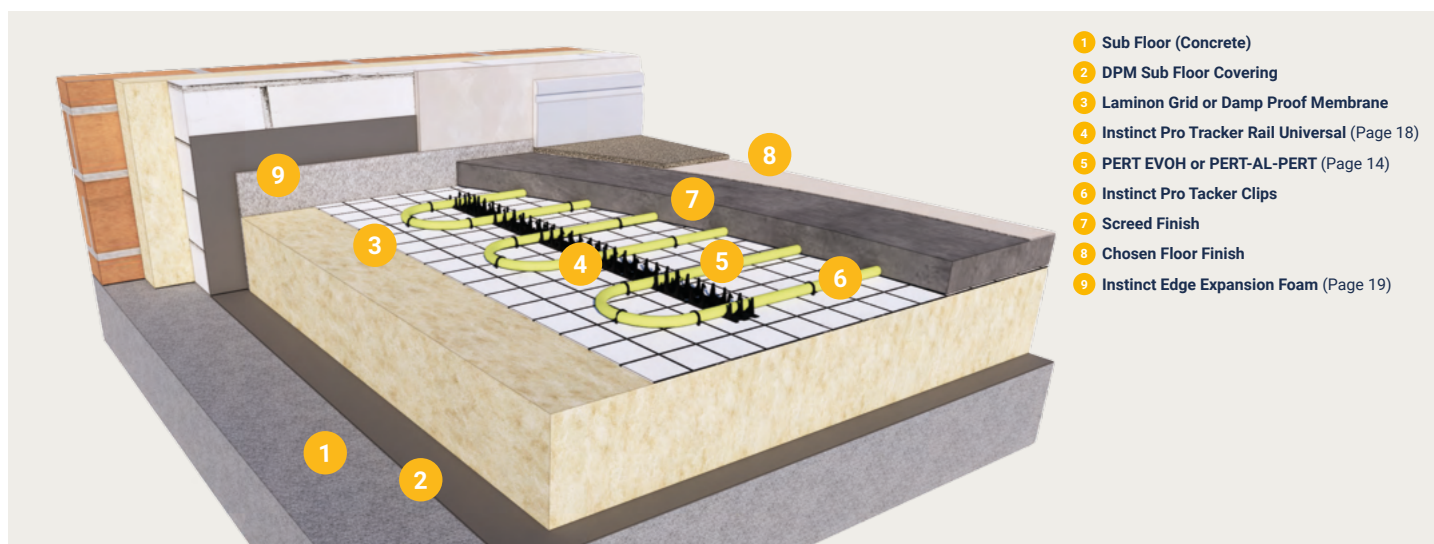


- 1 Sub Floor (Concrete)
- 2 DPM Sub Floor Covering
- 3 Insulating Layer
- 4 Instinct Castellated Floor Panel (Page 18)
- 5 PERT EVOH or PERT-AL-PERT (Page 14)
- 6 Screed Finish
- 7 Chosen Floor Finish
- 8 Instinct Edge Expansion Foam (Page 19)

## Castellated Panels/Screed Finish

Castellated Panels can be interlocked to give a rigid foundation for your UFH pipework. The regular spacing of the castellations allows absolute ease of fixing pipework and ensures your chosen pipe centre dimensions are maintained.

- Suitable for **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.



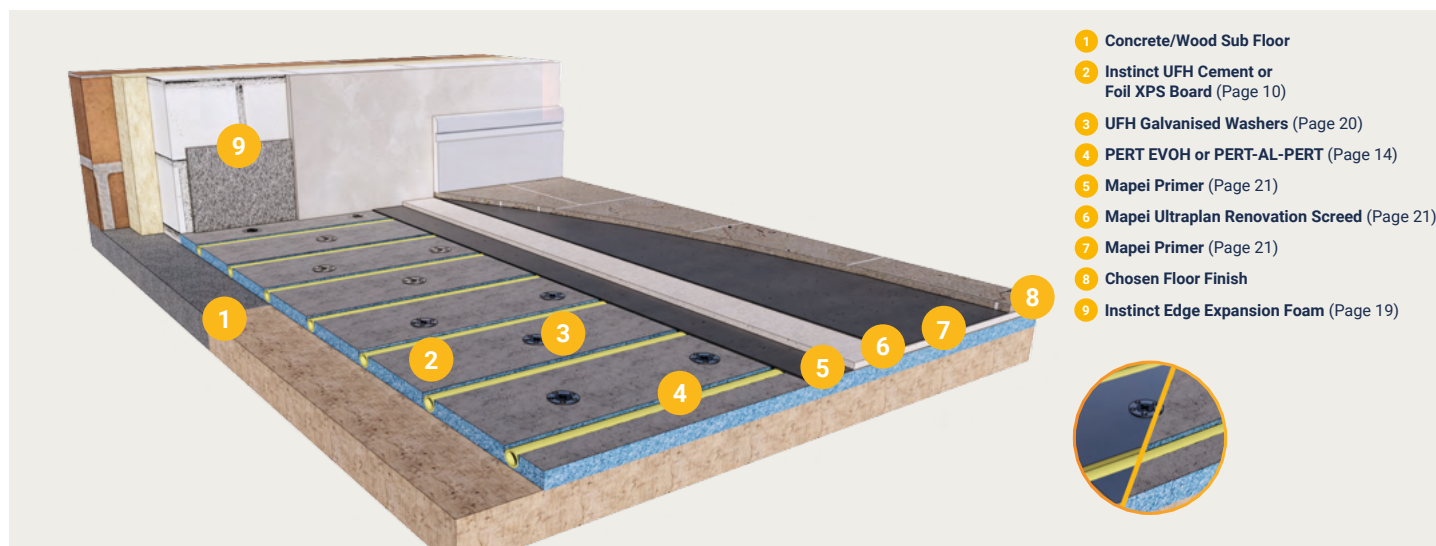
- 1 Sub Floor (Concrete)
- 2 DPM Sub Floor Covering
- 3 Laminon Grid or Damp Proof Membrane
- 4 Instinct Pro Tracker Rail Universal (Page 18)
- 5 PERT EVOH or PERT-AL-PERT (Page 14)
- 6 Instinct Pro Tracker Clips
- 7 Screed Finish
- 8 Chosen Floor Finish
- 9 Instinct Edge Expansion Foam (Page 19)

## Rail System/Screed Finish

The Clip Rail System offers a secure and reliable fixing method for pipework. Each rail is 1mtr 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

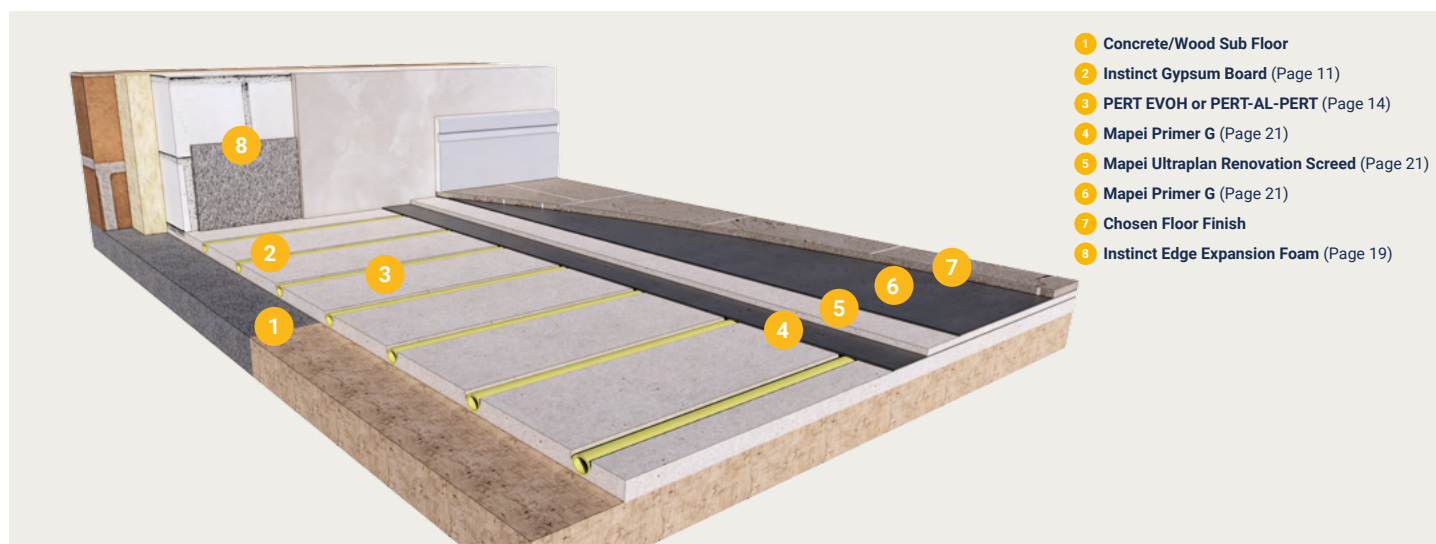


- 1 Concrete/Wood Sub Floor
- 2 Instinct UFH Cement or Foil XPS Board (Page 10)
- 3 UFH Galvanised Washers (Page 20)
- 4 PERT EVOH or PERT-AL-PERT (Page 14)
- 5 Mapei Primer (Page 21)
- 6 Mapei Ultraplan Renovation Screed (Page 21)
- 7 Mapei Primer (Page 21)
- 8 Chosen Floor Finish
- 9 Instinct Edge Expansion Foam (Page 19)

## Overlay XPS Panels

Our 300kpa XPS boards are the perfect choice for overlay/refit 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.



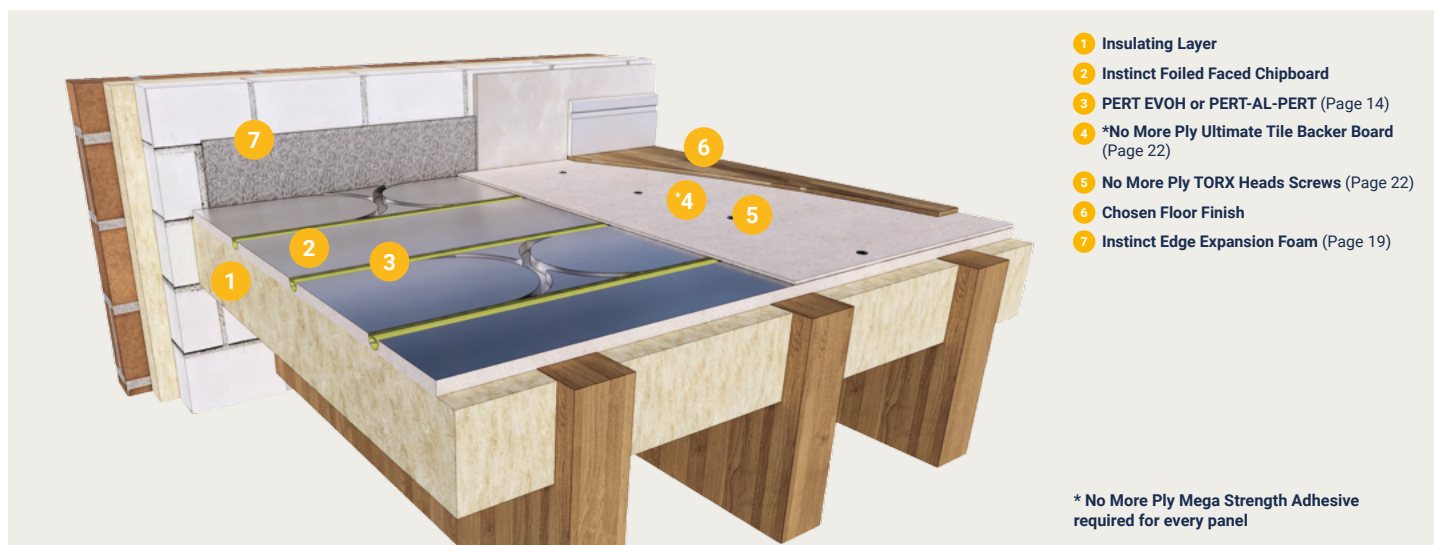
- 1 Concrete/Wood Sub Floor
- 2 Instinct Gypsum Board (Page 11)
- 3 PERT EVOH or PERT-AL-PERT (Page 14)
- 4 Mapei Primer G (Page 21)
- 5 Mapei Ultraplan Renovation Screed (Page 21)
- 6 Mapei Primer G (Page 21)
- 7 Chosen Floor Finish
- 8 Instinct Edge Expansion Foam (Page 19)

## 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.

- Ultimate thermal conductivity with an even heat spread. 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.

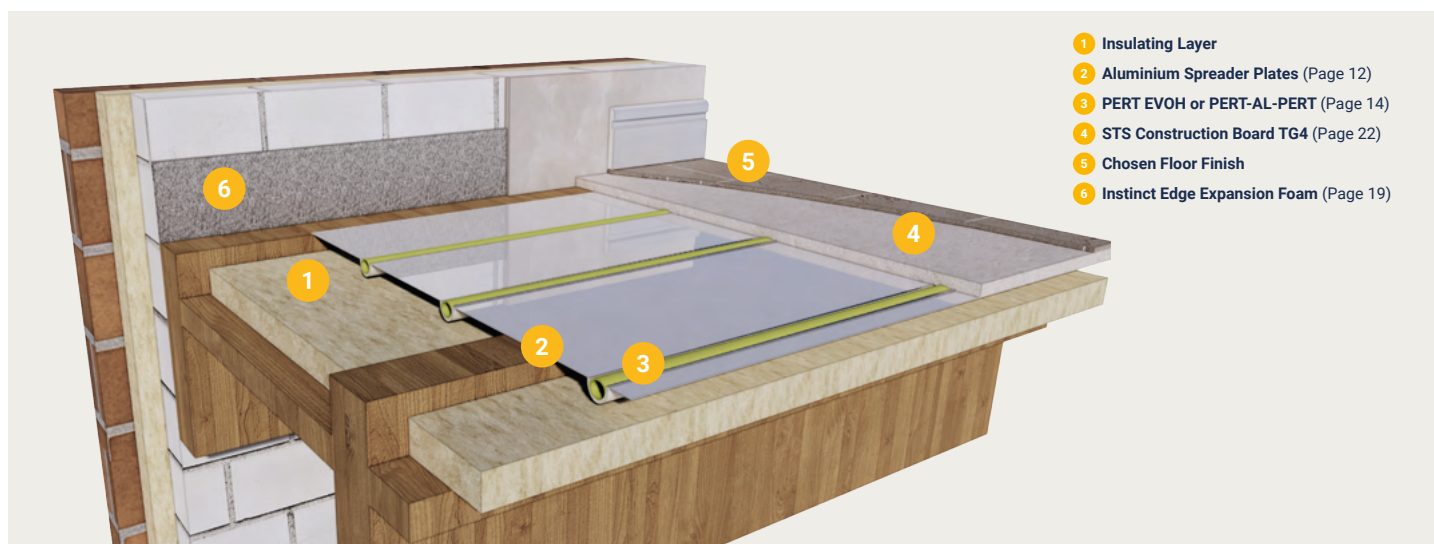
# Chipboard Flooring Boards/Spreader Plates



## 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.
- Conforms to BSEN 12871:201.
- Moisture resistant.



## Spreader Plates

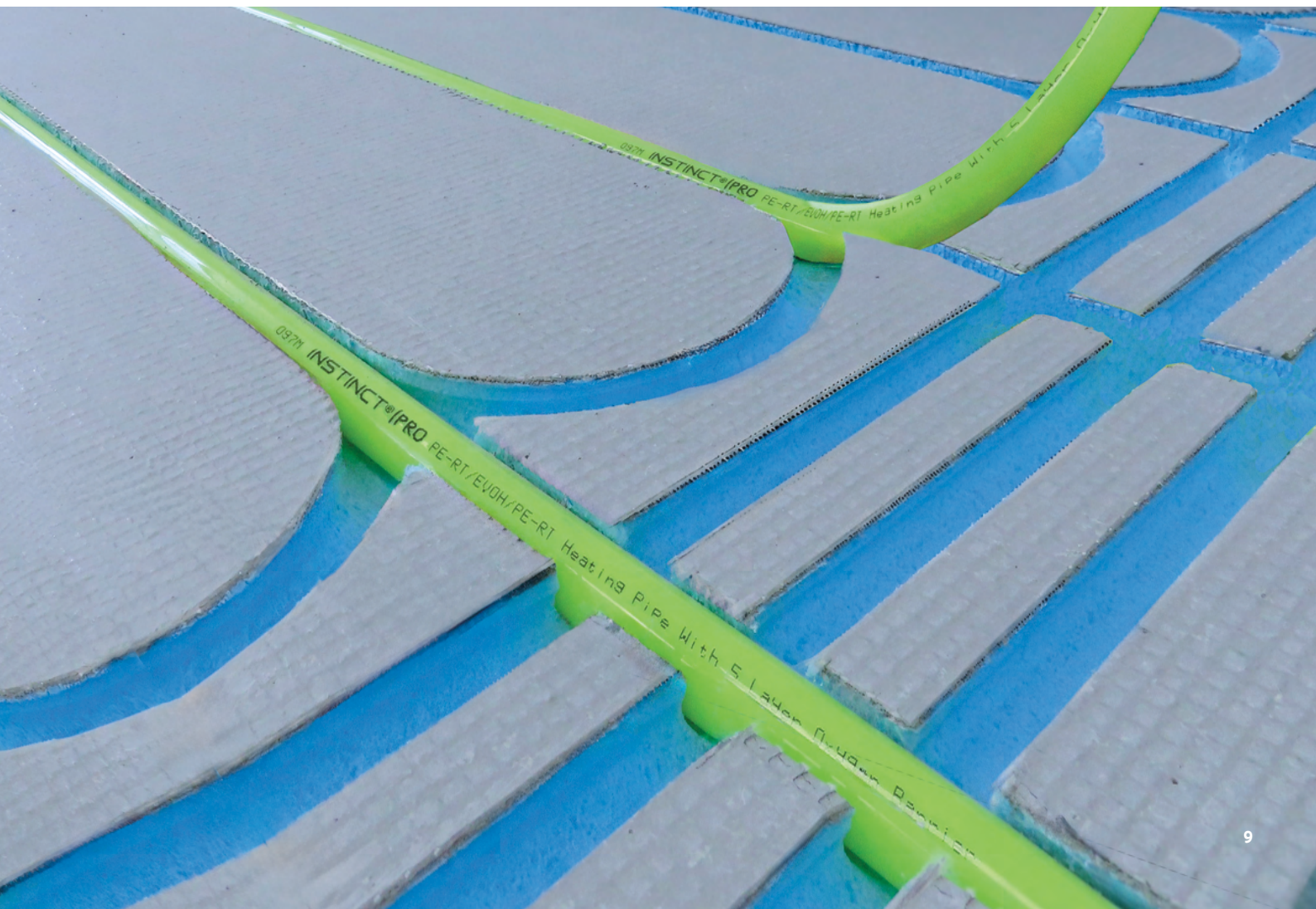
These Aluminium Spreader Plates are specifically designed for installation between floor joists with 400mm centres. Made from high-grade Aluminium each plate offers an even spread of heat across the entire floor surface and when combined with TG4 tile backer floorboard a high even heat transfer is achieved,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

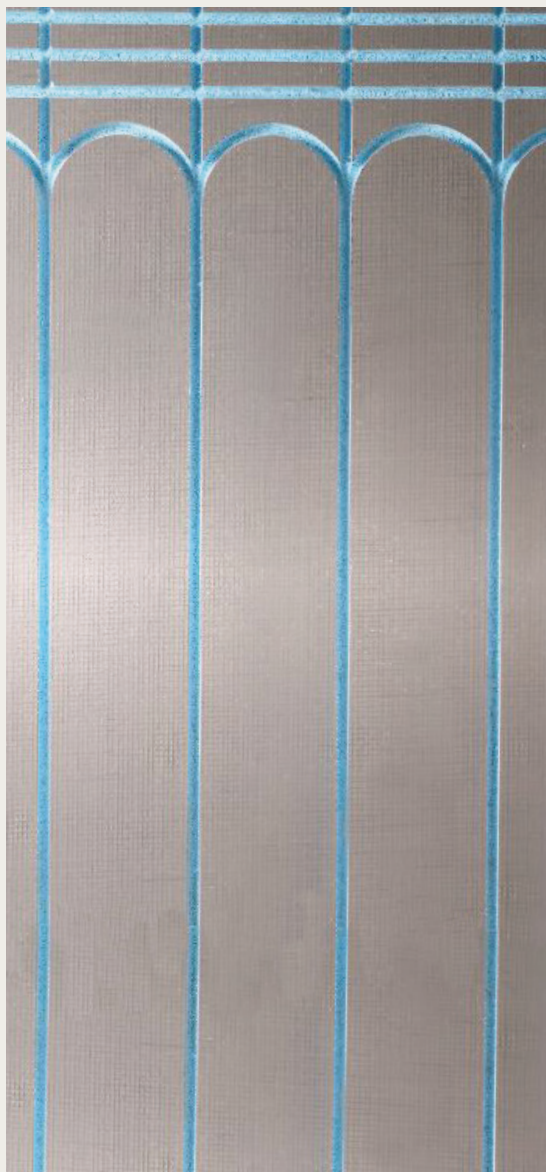
# Underfloor Heating Boards

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

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 XPS300 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



34481NP1440



3446INS1350

## 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 recommend prior to application of adhesive or renovation screed.

For customers looking for an extra strength board, the XPS 300 Board is also available as a 500kpa XPS500 option which gives even greater compression strength.

- 1200 mm × 600 mm × 20 mm: routed to accept 16mm pipe
- Panel weight: 2.5kg per panel
- Thermal conductivity: 0.033 Wmk
- Compressive strength: 300 kpa
- Pipe centres on the board are 150mm

## Foiled Faced XPS300 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 for 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 XPS 300 Board is also available as a 500kpa XPS500 option which gives even greater compression strength.

- 1200 mm × 600 mm × 20 mm: routed to accept 16mm pipe
- Panel weight: 2.2kg per panel
- Thermal conductivity: 0.034 Wmk
- Compressive strength: 300 kpa
- Pipe centres on the board are 150mm

# Gypsum Overlay & Chipboard Flooring Boards



3446INS1060



3446INS1170  
3446INS1210

## 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 installations, 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 Wmk**
- Pipe centres on the board are **150mm**

## 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 over joist applications 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**

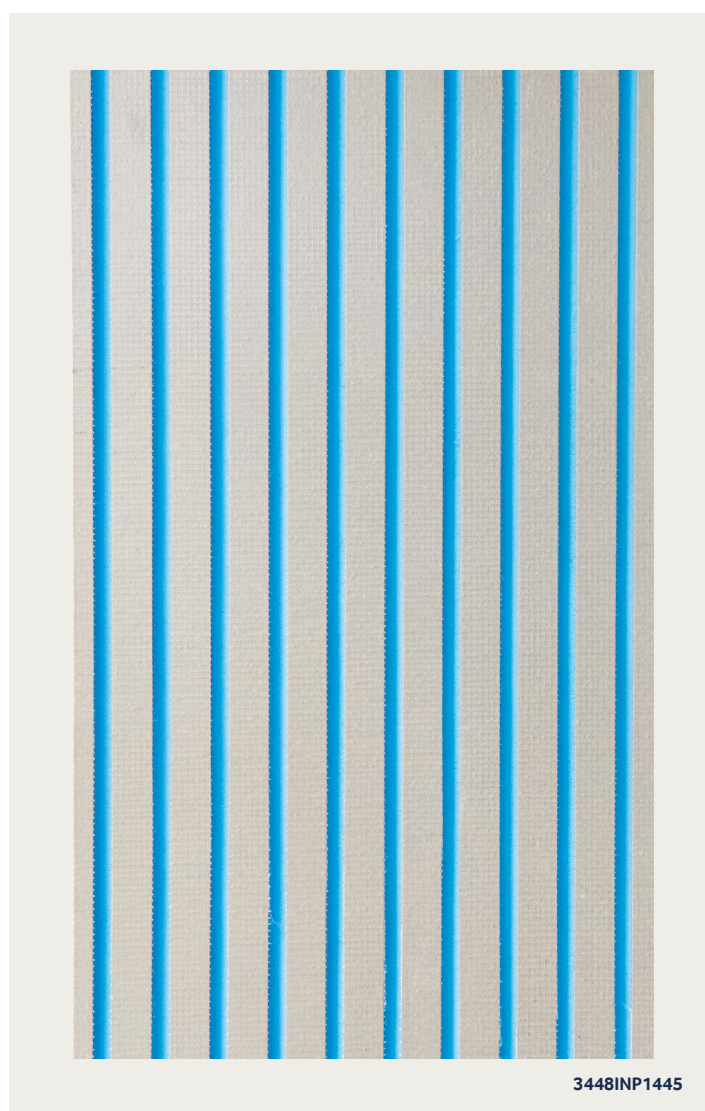
# Spreader Plates & Highway Boards



## 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.

- Size: 1000mm x 390mm



## XPS 300 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.

- 10 channels per board (at 50mm centres).
- Size: 1200mm x 600mm x 20mm.
- Panel Weight: 2.1 KG.



## Gypsum Highway Board

A straight highway board for use to and from the manifold or just for general flows & returns; routed to accept 12mm pipe.

- 12 channels per board (at 60mm centres).
- Size: 800mm x 600mm x 18mm.
- Panel Weight: 9.6 KG.
- 90 deg highway boards are also available: 600mm x 600mm.

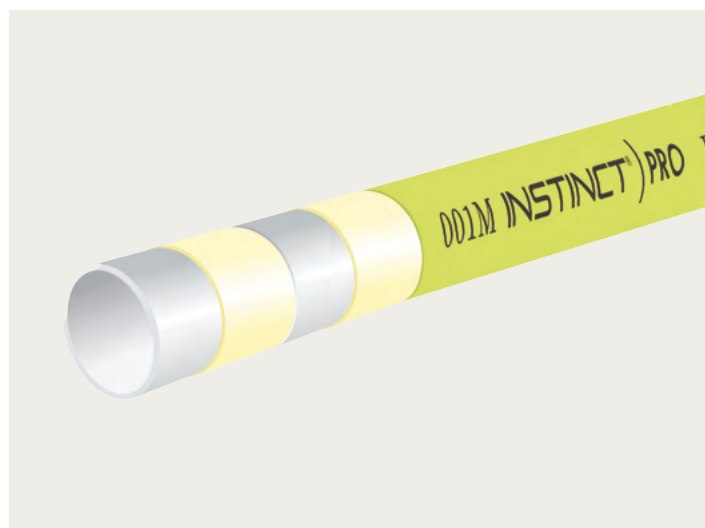
# Underfloor Heating Products

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

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

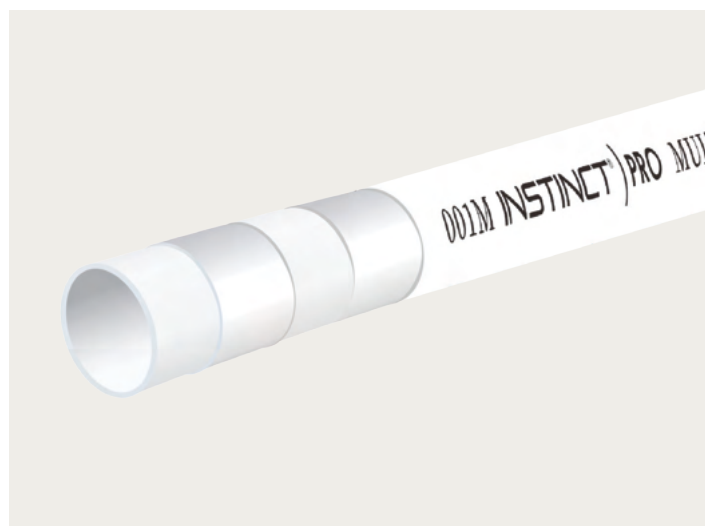
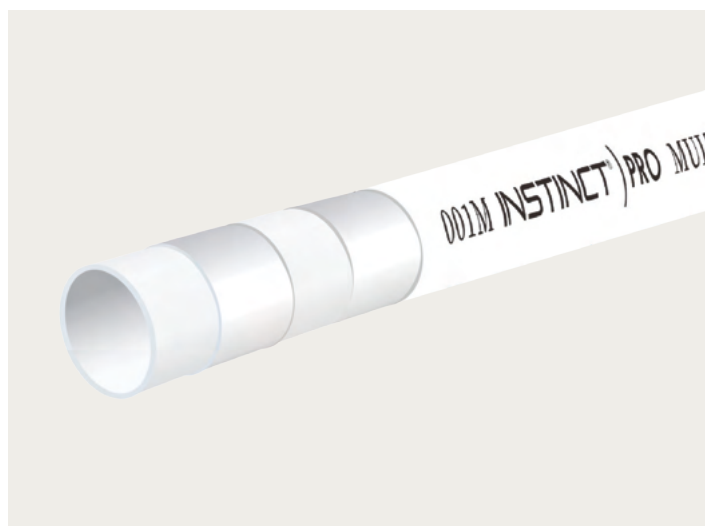
Our **12mm 3-layer pipe** is made up of an oxygen barrier, a layer of adhesive, and a layer of PERT pipe. **Lightweight** and **ultra-flexible, easy to bend**, our PERT EVOH 12mm barrier pipe is the ideal choice for hassle-free routing and reduced installation time. **Comes with a 50-year guarantee.**

- 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.**

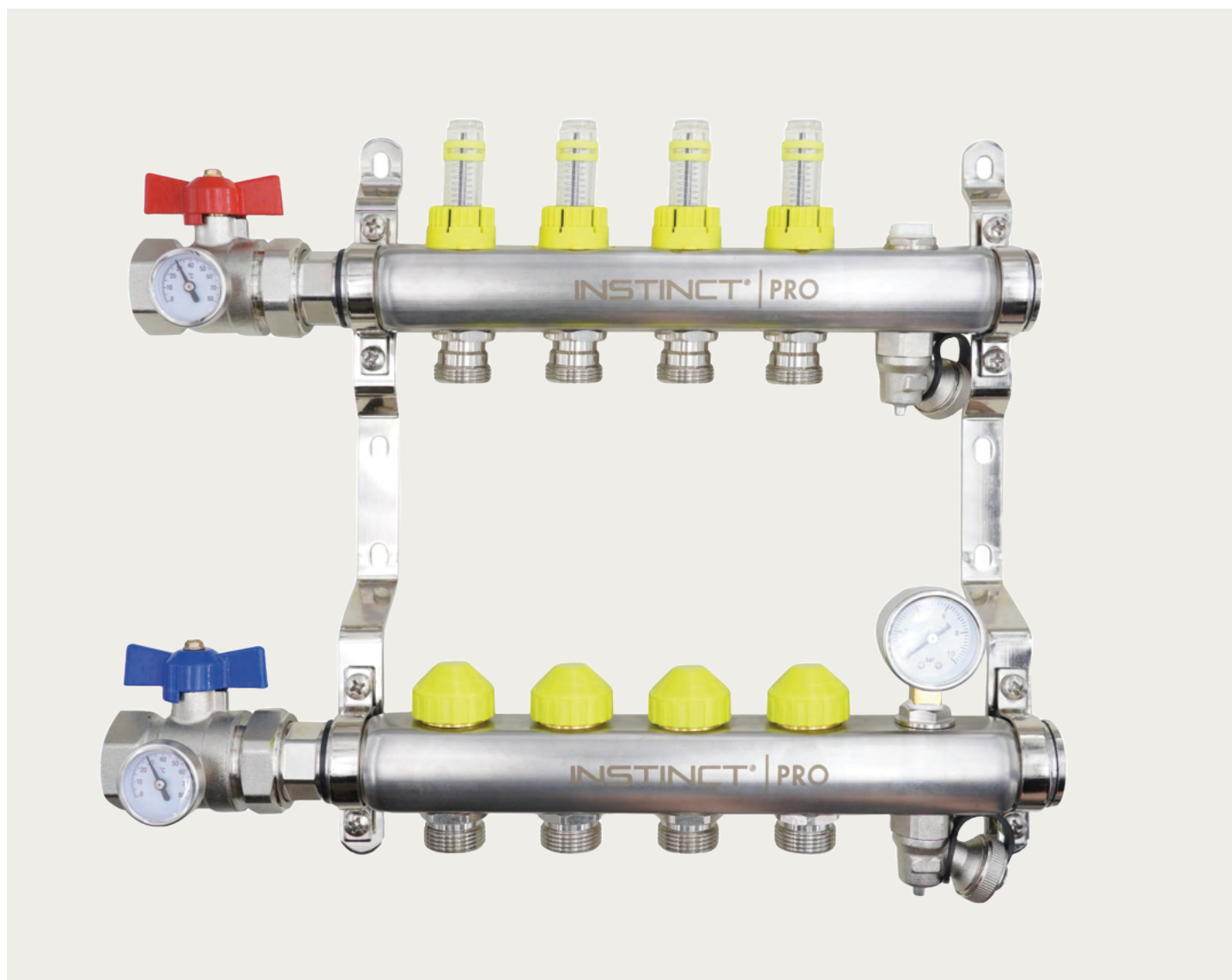
- 12mm x 80m Coil (Weight: 5.2kg) **3448INP1160**
- 12mm x 160m Coil (Weight: 10.3kg) **3448INP1170**
- 12mm x 240m Coil (Weight: 15.4kg) **3448INP1180**

### 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 (12 mm & 16 mm 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



3449REL1210  
3449REL1250

## 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

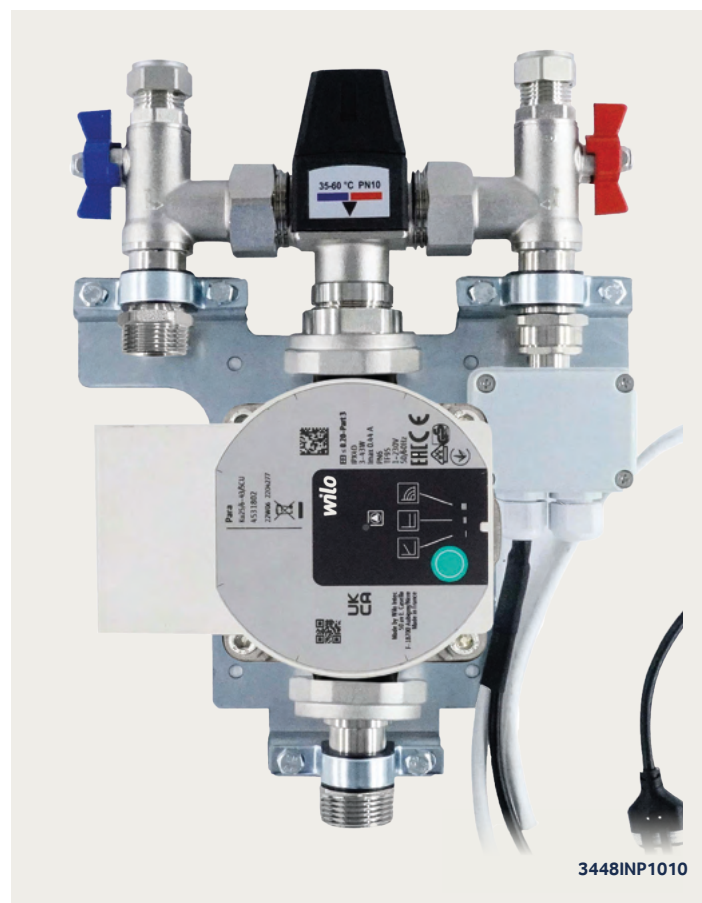
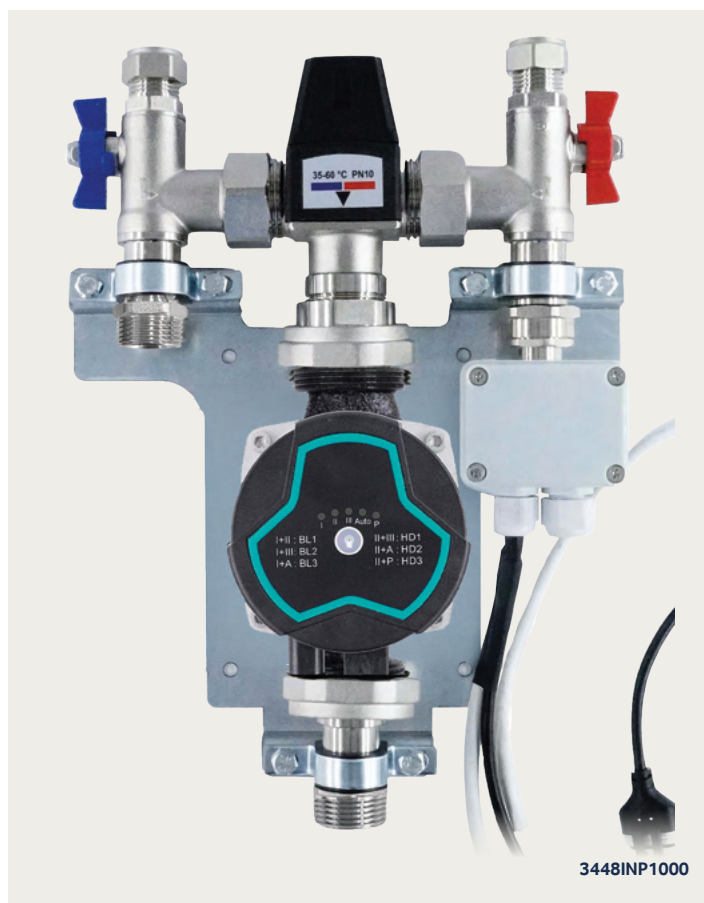
- **5 Year Guarantee.**
- Simple attachment to manifold.
- A-rated **6mtr** pump.
- Left or right connections (Reversible).
- Adjustable temperature to suit floor structure.
- Suitable for water or glycol.
- Temperature range **35°C to 60°C.**

## Blending Valve + Pump Pack

Blending Valve and Pump Pack with Wilo Pump

- **2 Year Guarantee.**
- Simple attachment to manifold.
- A-rated **6mtr** pump.
- Left or right connections (reusable).
- 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.

- Pre-wired **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.



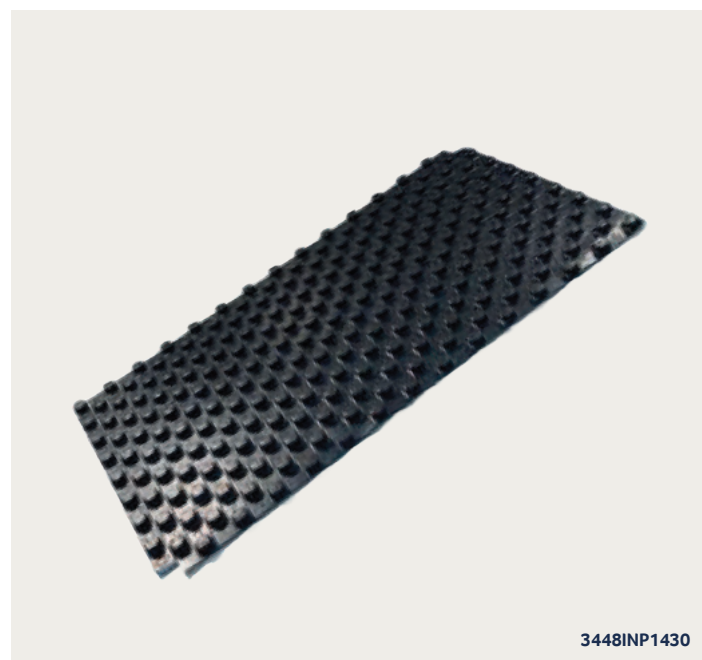
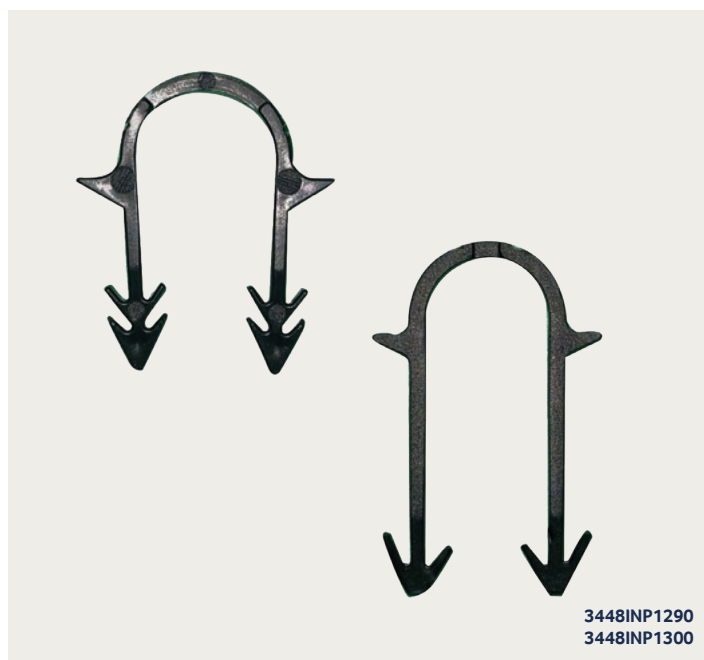
## Bastion Replacement Pump

- 5-Year Guarantee.

## Wilo Replacement Pump

- 2-Year Guarantee.

# Screeded Floor Fixings



## Staple Clips Suitable for 16mm Pipe

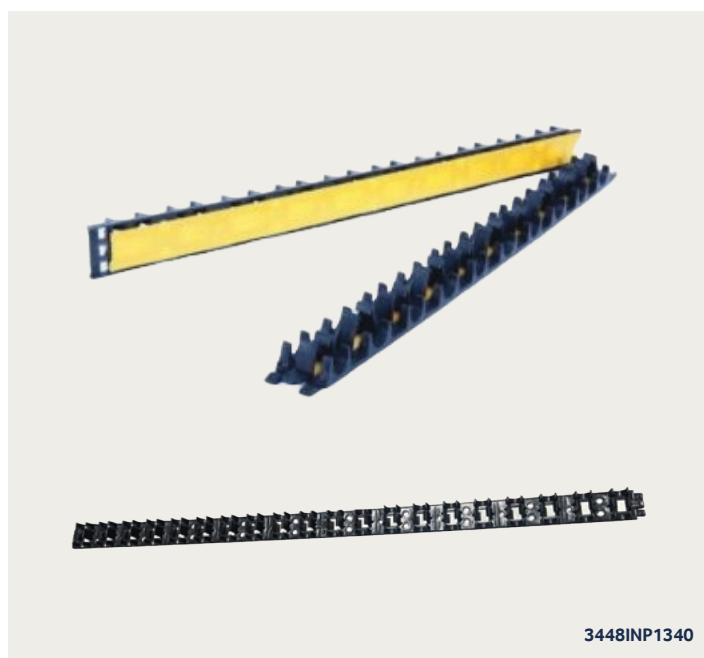
Staple clips suitable for 16mm diameter pipe, available in two lengths; 40 mm and 60 mm. Provided in rows of 25 for use in a staple gun.

- Sold in a pack of 300.

## Castellated Floor Panels Egg Crate

This time saving system is very easy to install with the ability to interlock each panel to stop movement. Pre-formed pipe securing and spacings for 16mm pipe allow for easy installation and optimal heat distribution. The castellations protect pipes from foot traffic during installation.

- Each panel measures 1250mm x 800mm x 20mm



## 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 spacings intervals. Can also be screwed into position depending on the floor finish/applications.

- For use with 16mm pipe.

## 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 25mtr.**
- Comes with bonded PVC apron and self adhesive backing.



3448INP1350

## Plastic Elbow

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

- Suitable for 16mm pipe.



3452FRA1000

## Conduit Pipe

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



3448INP1330

## Pipe De-Coiler

Our premiere Pipe De-Coiler is the extra pair of hands that everyone needs when installing underfloor heating pipe, especially when handling larger coils; the coils that save on wastage.



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.



3448INP1360

## Pipe Reamer

This pipe reamer is designed for smoothing and bevelling plastic pipes.

- Size: **12mm, 16mm, and 20mm**

# Board Fixings



8010SCR1030



8010SCR2500

## 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.

## Screw Tite Concrete Screw 4.5 x 60mm

The Screw Tite Screw is ideal for securing any XPS boards onto a concrete subframe (3.5mm pilot hole required for a concrete fixing). A unique thread form that utilises a twin and single thread on the same screw enabling a permanent fix with pull-out resistance.

- Sold in boxes of 200.



PP0LFPW



8010SCR3000

## 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.

## 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.

# MAPEI Primers, Screed & Adhesive



8110MAP1330  
8110MAP1335  
8110MAP1337



8110MAP1325  
8110MAP1327

## 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.

## 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



8110MAP1130  
8110MAP1140

## 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 6m<sup>2</sup> at 3mm thickness/1.8m<sup>2</sup> at 10mm thickness.

## Super Flexible Tile Adhesive

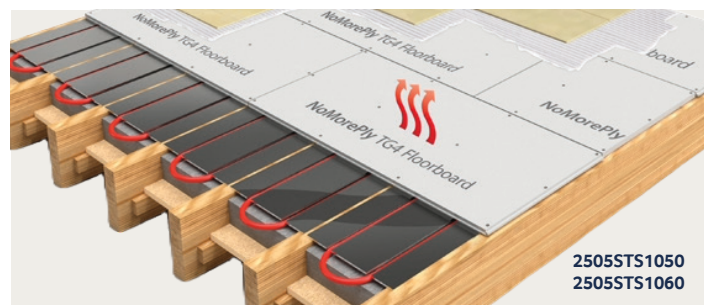
A high-grab, high-strength super flexible tile adhesive that is ideal for use in underfloor heating applications. Specifically formulated for large floor areas that require flexibility due to changing temperatures.

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

# NoMorePly® STS



2205STS1100



2505STS1050  
2505STS1060

## Pre-Primed Tile Backer Overboard

The 6mm pre-primed tile backer overboard is the perfect solution as a tiling base over Thermchip boards routed chipboard. This 1200mm x 600mm overboard gives a high strength, high thermal mass, high thermal conductivity, and even heat spread across the floor area. The ideal solution where screeding is not an option.

- Recommendation: 12 screws per board.
- May require priming before over tiling.



2505STS1170

## NoMorePly Primer 1L

Whilst the 6mm Pre-Primed Tile Backer Overboard is supplied pre-primed, it is recommended that the boards be re-primed if left for more than 1 week before tiling starts in case the boards have become dusty or scratched. The TG4 Tile Backer Floorboards are supplied unprimed, primer must be applied when fixing tiles.

- TG4 boards are supplied unprimed.



2505STS1140

## Mega Strength Adhesive

The first stage of installation of both the 6mm overboard and the TG4 floorboards is the application of mega strength adhesive to the back of the boards. A bead of mega strength adhesive should also be applied along all edges before the next board is laid, this reinforces and waterproofs the joints.

- Available in 310 ml cartridges.
- Offered in 600 mm 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.



2505STS1115  
2505STS1135

## 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 a effortless fixing and flush finish of the boards to the sub-floor. 12 screws pre 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).

Scan this QR code to find installation videos for the 6mm Tile Backer & TG4.

# NoMorePly®

Please refer to installation instructions for each application.



# Underfloor Heating Controls

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



## 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. Main power options eliminates the need for periodic battery replacements.

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

## 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.



## Programmable Thermostat Mains Powered

The RDTP programmable thermostat offers both time and temperature control in one simple device when no existing timer is present. Choose from 24-hour, 5/2-day or 7-day programmable settings.

- Temperature range 5-35 °C.
- Keypad Lock.
- Mains Powered.
- Recessed Fit.
- Frost Protection.
- Boost functionality.



## Thermal Actuator

The TA230 Thermal Actuator is the first choice to complete and compliment your choice of EPH Controls.

- 230V.
- Normally closed.

## Wifi Gateway

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.



To view the Full range of EPH Controls, simply scan this QR code.



All featured controls carry a full **5-year warranty**.

# EPH Controls



1750SAU1513  
1750SAU1515



1750SAU1517

## 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.

## RF Control (Wiring Centre)

The wireless enabled **UFH10-RF Control Centre** is compatible with both battery and main 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.



1750SAU2100



1750SAU2110

## NTC-10K Ferrule Cable Sensor

This 2mtr NTC-10K cable acts both as a Floor Probe and Air Sensor. The Ferrule version for mains Thermostats and the Plug version for battery Thermostats. It is recommended that when using it as a Floor Probe, it is installed via a conduit for protection and easy replacement. When being used as an Air Sensor, the probe must be installed inside a Sensor Housing within the Bathroom/Shower area.

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

## NTC-10K Plug Cable Sensor

This 2mtr NTC-10K cable acts both as a Floor Probe and Air Sensor. The Ferrule version for mains Thermostats and the Plug version for battery Thermostats. It is recommended that when using it as a Floor Probe, it is installed via a conduit for protection and easy replacement. When being used as an Air Sensor, the probe must be installed inside a Sensor Housing within the Bathroom/Shower area.

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



1750SAU2120



1750SAU1080

## Bathroom Sensor Housing

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

## Zone Valve

The V222P 22mm 2-Way Zone Valve is the ideal choice for any home heating installation with a detachable actuator and a detectable actuator 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.

# heatmiser Controls



3454HEA1170  
3454HEA1190  
3454HEA1180



3454HEA1270  
3454HEA1280  
3454HEA1290

## NeoStat

The hard-wired 230V NeoStat has been designed as a stand alone 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.
- Back Lit Screen.
- Flush Mounted Finish.
- Remote Floor & Air Sensor Connections.



3454HEA1310  
3454HEA1320

## 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 a Smart Control option is required.

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



3454HEA1390

## Wireless Wiring Centre 230V

Available in a 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.



3454HEA1360  
3454HEA1380

## 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.**

heatmiser®

All featured controls carry a full **2-year warranty**.

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



# 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 meter cable.



3454HEA1470

## Remote Sensor Enclosure

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



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



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search “**James Hargreaves Branch Finder**”

