

PRODUCT INFORMATION

ISSUE 2 – APRIL 2022

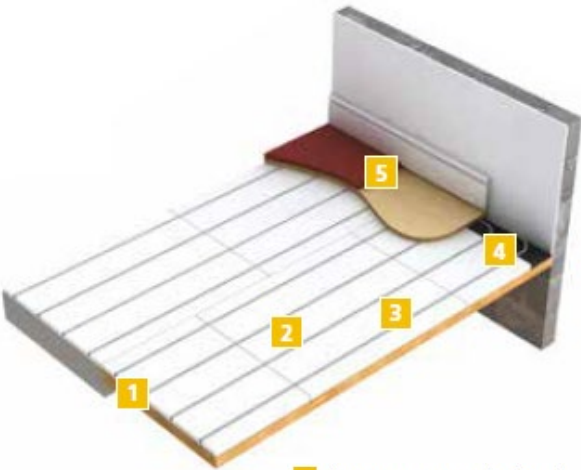
Product Code: PB08571 | PB08570

Designed for use in both renovation and new build projects, the great advantage of using Polypipe's Overlay® underfloor heating system is that the pre-grooved, high load-bearing floor panels are only 18mm in depth and can be laid directly over an existing floor.

Because of their nominal 18mm thickness the panels can be simply installed on top of the existing structural sub-floor in a brick like pattern with minimal disruption to floor height. Another benefit is that most floor coverings such as ceramics and natural or engineered timber can be applied directly to the panel.

Polypipe's Overlay® boards are routed at 150mm pipe centres offering uniform pipe positioning and optimum heat distribution.

Polypipe's 12mm ultra-flexible underfloor heating pipe is then run into the pre-formed grooves of the board, which are designed to hold the pipe securely in position.



- 1 Fits over concrete or floorboards
- 2 Overlay panel
- 3 Pipe
- 4 End return
- 5 Suitable for tiles and hard wood floor direct

Product Code	Description	Pack Quantity
PB08571	Overlay® Floor Panel 800mm x 600mm x 18mm	30
PB08570	Overlay® Floor Panel 800mm x 600mm x 18mm	10

Technical Information.

Characteristic strength and stiffness values of Fermacell Gypsum Fibreboard in N/mm ² for design calculation according to EN 1995-1-1 and WN 1993-1-1	18mm Board Thickness
<i>Perpendicular to the plane of the board</i>	
Bending f _{m,k}	3.6
Shear f _{v,k}	1.6
<i>In plane of board</i>	
Bending f _{v,k}	4.0
Tension f _{t,k}	2.3
Compression f _{c,k}	8.5
Shear f _{v,k}	3.4

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Key Design Information

Typical Heat Output at 50°C Mean Water Temperature	75W/m ² at 150mm Pipe Centres
Recommended Design Flow Temperature	45-50°C
Maximum Circuit Length	100m
Maximum Coverage per Circuit	12m ² at 150mm average pipe centres

Approximate Usage

Panel Usage	0.48m ²
Ultra-Flexible UFH Pipe	7m/m ² at 150mm centres
End Returns	1 per floor panel
12mm x 80m Coil of pipe	1 coil per circuit
15mm x 12mm Adaptors & Stiffeners	1 pack per circuit

Product Installation Information

- The panels are installed in a brick like pattern and laid directly to a level solid substrate. Adjacent panels should be glued together using Polypipe's polyurethane expanding glue.
- Polypipe 12mm ultra-flexible underfloor heating pipework is installed in circuits and is fixed in position by the pipe grooves.
- The underfloor pipework is then connected to the manifold and then pressure tested to 6 bar. It is also highly recommended once the system is pressure tested to add an appropriate percentage of antifreeze/inhibitor.
- As soon as practical after the installation is completed, the finish floor should be installed to prevent any damage occurring.