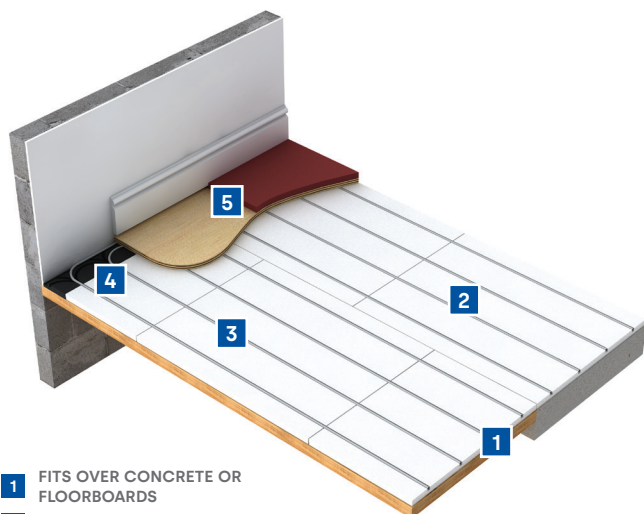


PRODUCT CODE PB08571 | PB08570

Designed for use in both renovation and new build projects, the great advantage of using our 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.



- 1 FITS OVER CONCRETE OR FLOORBOARDS
- 2 OVERLAY™ PANEL
- 3 PIPE
- 4 END RETURN
- 5 SUITABLE FOR TILES AND HARD WOOD FLOOR DIRECT

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.

Our Overlay™ boards are routed at 150mm pipe centres offering uniform pipe positioning and optimum heat distribution. The 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.

### 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 our polyurethane expanding glue.
- Our 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.

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<sup>2</sup> for design calculation according to EN 1995-1-1 and WN 1993-1-1

18mm Board Thickness

#### Perpendicular to the plane of the board

Bending $f_{m,k}$	3.6
Shear $f_{vk}$	1.6

#### In plane of board

Bending $f_{m,k}$	4.0
Tension $f_{t,k}$	2.3
Compression $f_{c,k}$	8.5
Shear $f_{vk}$	3.4

### KEY DESIGN INFORMATION

Typical heat output at 50°C mean water temperature	100W/m <sup>2</sup> at 200mm pipe centres
Recommended design flow temperature	45 - 50°C
Maximum circuit length	80m
Maximum coverage per circuit	12m <sup>2</sup> at 200mm average pipe centres

### APPROXIMATE USAGE

Panel usage	0.48m <sup>2</sup>
Ultra-flexible UFH pipe	7m/m <sup>2</sup> at 200mm 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

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