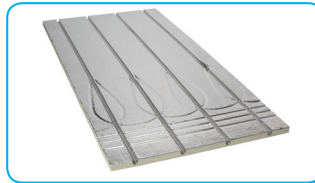


### Installing UFH Overfit System

The JG UFH Overfit is a low profile System for new build or renovation projects.

JG Overfit is a lightweight insulated panel with high compressive strength intended for use on lightweight floor coverings, e.g. laminate, engineered wood and carpet. Due to its ease of handling and cutting it is also suitable for larger areas and multiple room installations.

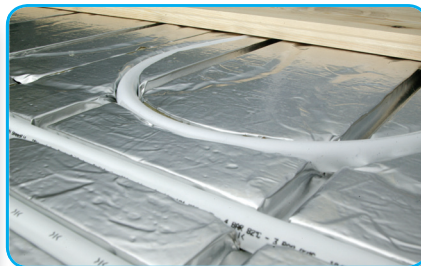
The installation uses 15mm pipe and 150mm centres for a highly responsive system.



Part No.	Description	Size
JGUFHBOARD1	OVERFIT BOARD	1250MM X 600MM



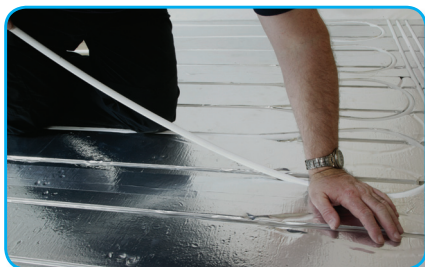
**STEP 1.** Planning the installation will save time later and make installation easier. The main consideration is the amount of runs and the route those pipes will take from the manifold. There are a number of parallel grooves at either end of the boards. If more transit grooves are needed then the grooves at the opposite ends can be cut off and used. Where possible route pipes through rather than around walls and doorways to cut down on pipework congestion. When lining up panels use a short length of pipe placed in the grooves to align them together.



**STEP 2.** Plates need to be supported so that they sit level and make a good contact with the floor placed on them from above. Maintaining this contact is essential in producing good heat transfer performance.



**STEP 3.** After placing the boards and ensuring they are flat and level and the joints are butted up firmly, tape the joints using JGTAPE.



**STEP 4.** Start laying the pipework by pressing it firmly into the grooves. Where the pipework is connected to the manifold there will be a need to use plain insulation and pipe staples to accommodate the closer pipe centres.



**STEP 5.** Where the pipe changes direction cut the foil in the return loops using a craft knife to prevent damage to the board. This will ensure a tight fit for the pipework.



**STEP 6.** After installing the pipework JGTAPE can be placed over the end loops to prevent the pipework from becoming dislodged during the installation of the finished floor.

#### DATA - 25mm OVERFIT BOARD

Dimensions	- 1250 x 600 x 25 mm
Materials	- Extruded Polystyrene-XPS2 (BS EN 13164)
Compressive Strength	- 250 (kPa) @ 10% compression
Conductivity	- 0.029 (W/mk)
Heat Output	- Approx 50 - 60w/m <sup>2</sup>
Recommended Flow Temperature	- 50 - 60°C
Pipe Centres	- 150mm
Maximum Circuit Length	- 100m
Typical Coverage per Loop	- 13 - 15m <sup>2</sup>
Applications	- New Build or renovation, single or multiple rooms

Floor Coverings	
Tiles/slate/ceramic etc.	- use with Knauff Brio Board or suitable plyboard.
Carpet/vinyl	- use with suitable plywood covering.
Laminate floors	- use directly over insulation as floating floor.
Natural wood	- fix to battens between panels.

Tel: 01895 449233 Fax: 01895 420321

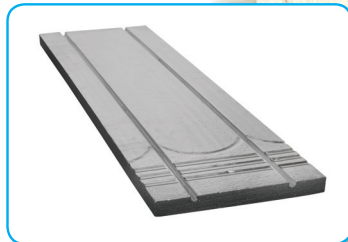
www.speedfitUFH.co.uk www.speedfit.co.uk

Technical Help Desk: 01895 425333

## Installing JG Underfit - Joists and Battened Floors

A grooved, foil faced insulation panel for installing 15mm Speedfit pipe over existing floor structures (between battens) or under the floor (between existing joists). The system is a suitable choice for both new build and renovation projects.

Similar to other JG Speedfit Underfloor Heating systems, a variety of floor coverings can be used. The JG panels will prove an excellent installation method for optimising heat efficiency and lowering energy consumption.



Part No.	Description	Size
JGUFHBOARD2	UNDERFIT BOARD	1250MM x 350MM

**STEP 1.** JG 'Underfit' is intended to be used below flooring and supported firmly in contact with the underside of the flooring. It is ideally suited to refurbishment projects. As with all UFH systems additional insulation may be required to meet building requirements.

**STEP 4.** Grooves spaced at 200mm from centre of pipe or 67.5mm from edge of grooves, the boards can be sized to accommodate most joist centres. If the panel is too wide, trim the material evenly from both sides to ensure a snug fit.

**STEP 2.** Some time spent planning the installation will save time later and make installation easier. The main consideration is the amount of runs and the route these pipes will take from the manifold.

**STEP 5.** Allow 300mm at the ends of the panels for the pipe return bends.

**STEP 3.** Battens should be fixed along the length of the joist, 50mm down from the top of the joists in order to support the panels along its length. Good contact between the surface of the panel and the bottom of the flooring is essential in maximising the performance of this system.

**STEP 6.** Pipework can enter the panel system at either end or even in the centre, pipework can be cabled through joists or via grooves at the top of the joists. Consult building regulations to ensure compliance.

### DATA - 50mm UNDERFIT BOARD

Dimensions	- 1200 x 350 x 50 mm
Materials	- Expanded Polystyrene BS EN 13163
Compressive Strength	- 100 (kPa) @ 10% compression
Conductivity	- 0.036 (W/mk)
Heat Output	- Approx 50 - 60w/m <sup>2</sup>
Recommended Flow Temperature	- 50 - 60°C
Pipe Centres	- 200mm
Maximum Circuit Length	- 100m
Typical Coverage per Loop	- 15 - 20m <sup>2</sup>
Applications	- New Build or renovation, single or multiple rooms

Floor Coverings	- Tiles/slate/ceramic etc. Carpet/Vinyl Laminate floors Natural wood
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