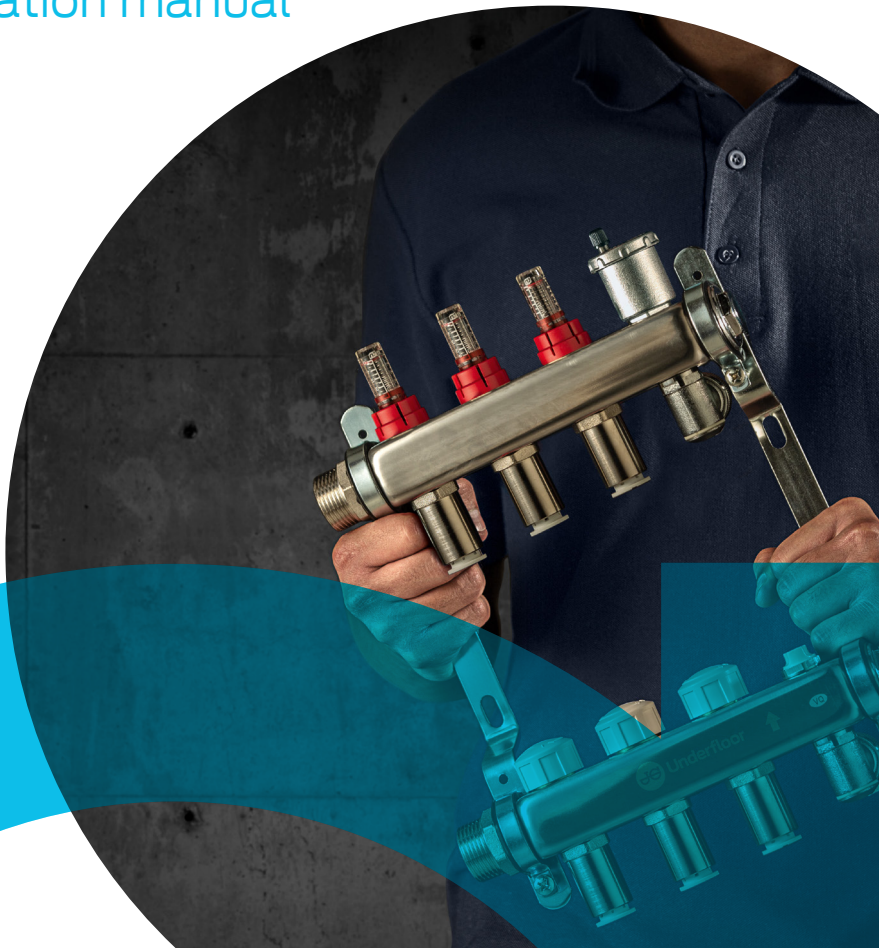




JG LowFit™
Fibre Mesh Panel 16mm
(for 12mm Pipe)
Installation manual



Description

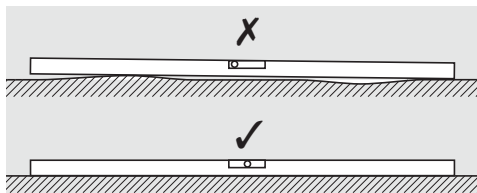
The JG LowFit Fibre Mesh Panel is a 16mm deep pre-grooved high strength XPS panel with mesh fixed over the top & 150mm pipe spacing. (0.72m² effective area per panel). It is designed to be used with 12mm JG Polybutylene Barrier pipe & ceramic or stone tile floor coverings.

Please Note – These instructions are provided to give guidance on the correct installation of the JG LowFit Fibre Mesh Panel system. They are not intended to be, or provided as, comprehensive system design guides or complete UFH installation instructions. In all cases, installers are reminded that UFH installations need to comply with relevant Building Regulations, British Standards and manufacturer's instructions.

Installation

1. Check Floor Levels

Before laying the JG LowFit Fibre Mesh Panel 16mm (for 12mm pipe), check that the sub floor is flat & level to meet SR2 flatness requirement, which is 5mm over a 2m distance. It may be necessary to pour a self-levelling floor mixture before installation to ensure a suitable surface.



When installing over Suspended Timber Floors, ensure the structure is secure, fixing any loose or damaged timber & check with a suitably qualified person the floor is capable of withstanding the additional weight & take any necessary measures to strengthen the structure. Fill any gaps to prevent self-levelling compound from leaking through.

2. Panel Installation

Before beginning the installation of the LowFit Fibre Mesh covered panel, be sure to have pre-planned the system layout. Note the manifold position, orientation of boards and position of pipes. We recommend that the panels be installed with adhesive or alternatively, with screws and flat washers to secure them in position.

3. Clean & Prime

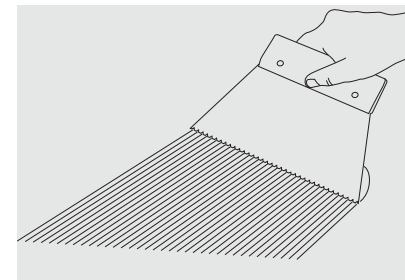
The JG LowFit Fibre Mesh Panel can be laid using adhesive on a concrete, plywood or chipboard floor but in all cases the floor should be swept free of debris and then primed using a suitable floor primer available from a wide range of suppliers. Once the primer has cured (follow the manufacturer's instructions), you can begin to lay the panels. (For details of suitable primers please refer to our website jgunderfloor.com)



Applying the Adhesive

Stir the adhesive being used thoroughly before use. We suggest a synthetic polymer-based adhesive paste in water dispersion, typically the type used for laying linoleum and vinyl floors.

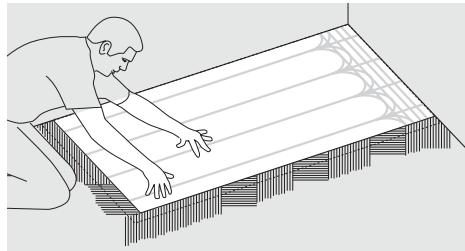
Starting in the furthest corner, apply the adhesive to the substrate. Spread evenly using a B1 notched adhesive trowel. To avoid premature curing, only spread a sufficient quantity of adhesive, that can be covered within 10 to 20 minutes (depending on site conditions). Allow the adhesive to become tacky.



Panel Installation

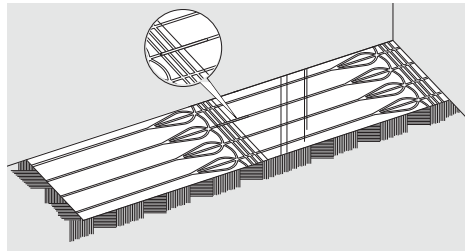
Before beginning the installation of the LowFit Fibre Mesh Panel, be sure to have pre-planned the system layout.

Press the first LowFit board firmly into the adhesive, applying even pressure to ensure the whole board is fully adhered to the floor below.



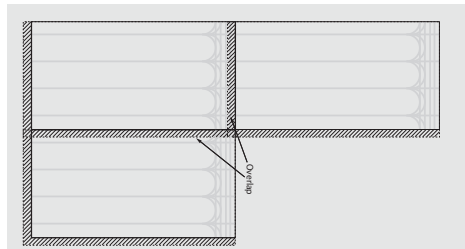
Upon reaching the opposite corner rotate the boards 180deg to utilise the return channels.

Measure and cut the boards to suit using a sharp knife or fine-toothed saw, leave all off cuts to one side as you may be able to utilise these later. Begin a new row, again taking care to line up the pipe channels. Continue installing the boards across the floor, ensuring the pipe channels line up. You may wish to use a small off cut of pipe to ensure the pipe routes are in line.



Begin a new row, again taking care to line up the pipe channels and to overlap the 50mm of overhanging mesh onto the previous row, this will add strength to the finished installation.

Once the boards are installed, keep free of heavy foot traffic or floor finishes until the adhesive has fully cured.



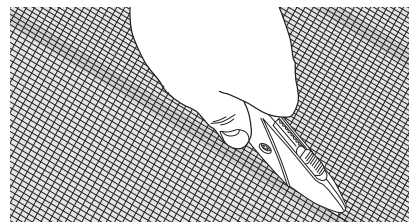
4. Installing Pipe Loops

Once the panels cover the complete area, the UFH manifold & pipe loops can be installed in accordance with the pipe layout drawing.

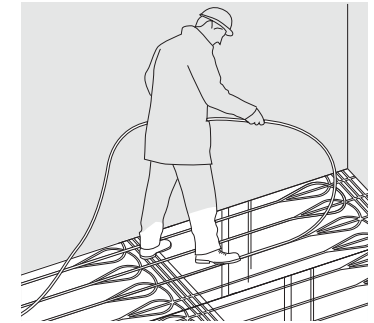
Installation of the pipe can begin in the orientation best suited to the design. The JG LowFit Fibre Mesh Panel is designed to be used with 12mm JG Layflat polybutylene pipe.

Install each loop starting from the manifold, following the pipe layout plan. When complete, the systems should be filled & pressure tested before installing floor coverings

Following the pipe layout cut the reinforcement mesh in the required channels with a sharp knife. Take care not to cut the insulation as this may weaken the board. Remove any debris from the channels and install the pipe in accordance with the layout drawing, paying attention to the length of pipe required and route to and from the manifold.



Before installation of the floor finishes begins, it is important to carry out all required tests on the underfloor heating system, including pressure testing. Under no circumstances should the underfloor heating be used to speed up the drying time of any adhesive.



5. Tiled Floor Coverings

Before installing any tiles, take time to plan and review the installation guidelines from the tile manufacturer. JG Underfloor recommends installing a decoupling membrane on top of the panels before tiling. All tiles should be installed in line with these and the relevant British Standards. Tiles should be a minimum of 100mm x 100mm and where possible, tiles should be installed from the centre of the floor outward to ensure cuts are positioned against the perimeter of the room.

JG Underfloor recommend the use of floor probes in all zones to prevent overheating of floors & potential damage to certain floor coverings.

When using the underfloor heating system for the first-time heat should be increased gradually to protect the floor finish from thermal shock. Ensure the underfloor heating system is not running at temperatures unsuitable for the type of flooring. Consult the floor finish and underfloor heating manufacturers for further details.

6. Got a question or need more information?

We have a wide range of information, support & installation videos on all our UFH products.

For more detailed information, guidance & advice please refer to jgunderfloor.com. To speak to one of our technical advisors via our web chat service, please visit johnguest.com/speedfit/technical-support/ then click the blue **“Chat with an Expert”** link & we will be happy to help.



**Reliance Worldwide
Corporation (UK) Limited**

Horton Road
West Drayton
UB7 8JL
United Kingdom
Tel: +44 (0) 1895 449233

AN RWC BRAND
RWC