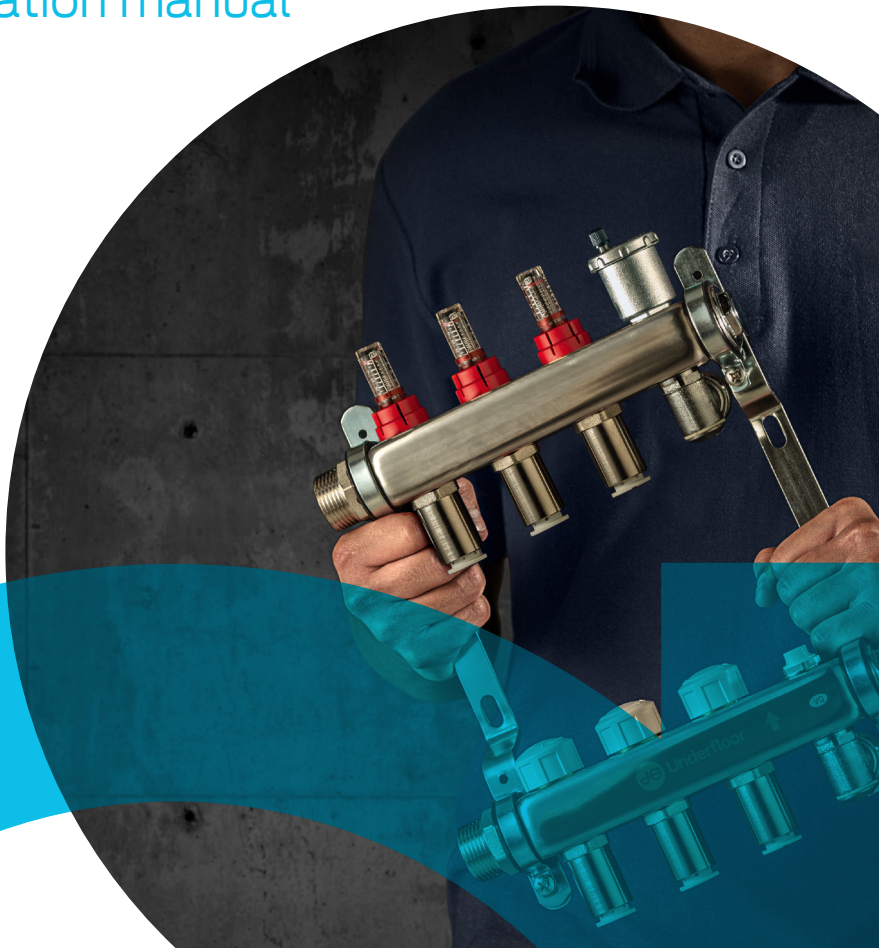




JG LowFit™
Foil Covered Panel 16mm
(for 12mm Pipe)
Installation manual



Description

The JG LowFit Foil Covered Panel is a 16mm deep, pre-grooved high strength XPS panel with 150mm pipe spacing. (0.72m² effective area per panel). It is designed to be used with 12mm JG polybutylene barrier pipe. At 16mm thick and with a compressive strength of over 400kPa the panels have been engineered for maximum strength and durability. The panels are pre-grooved with straight runs, with the foil folded into the grooves and have returns at the end of each panel to make installation quick and easy.

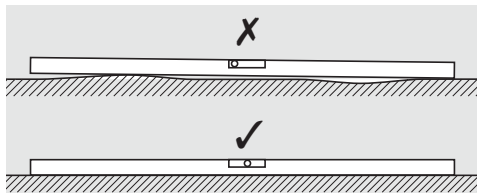
Please Note — These instructions are provided to give guidance on the correct installation of the JG LowFit Foil Covered Panel system. They are not intended to be, or provided as, comprehensive system design guides or complete UFH installation instructions. In all cases, installers are reminded that 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 Foil Covered Panel, 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 that 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 JG LowFit Foil 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.

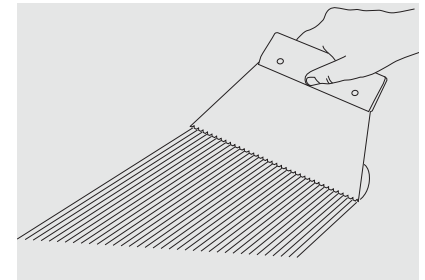
3. Clean & Prime

The JG LowFit Foil Covered 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 jgunderoor.com)

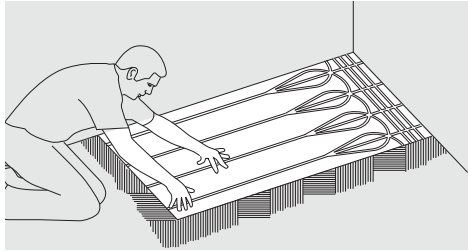
Applying the Adhesive

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.

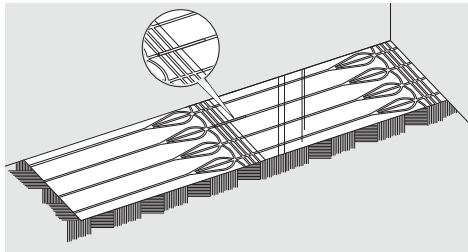
Starting in the furthest corner, apply the adhesive to the substrate. Spread evenly using a B1 notched adhesive trowel. To avoid premature curing, only spread a sufficient quantity of adhesive, that can be covered within 10 to 20 minutes (depending on site conditions). Allow the adhesive to become tacky.



Panel Installation



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 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.

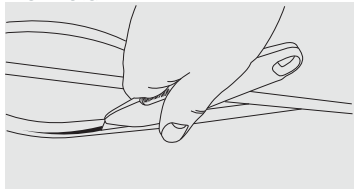
Begin a new row, again taking care to line up the pipe channels

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 Foil Covered Panel is designed to be used with 12mm JG Layflat polybutylene pipe.

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.



Cut the foil returns in the required channels with a sharp knife. Take care not to cut the insulation as this may weaken the board.



Remove any loose debris, and ensure all pipes are securely fitted to provide a flat and stable surface for the flooring.

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. Floor Coverings

Most floor coverings are suitable for use with Underfloor Heating. However, JG Underfloor recommends guidance is sought from the floor covering supplier to check the suitability & installation requirements for use with UFH. JG Underfloor recommend the following:-

Tiled floors - We suggest that a backer board should be installed on top of the JG LowFit foil covered panels, these can be an intermediate layer of plywood or gypsum fibreboard laid over to accommodate the floor covering. Before installing any tiles, take time to plan and review the installation guidelines from the tile manufacturer. When using floor tiles or similar, check manufacturers requirements for decoupling membrane & expansion joints.

All tiles should be installed in line with these and the relevant British Standards. 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.

Wood/Laminate Floors - Ensure any wood flooring is acclimatised to the room it will be installed in, in accordance with the manufacture's guidance. Where possible wood flooring should be laid at a 90-degree angle to the JG LowFit Foil Covered Panel. Allow suitable expansion joints around the perimeter of the room in line with the manufacturers advice. Any walls, including lightweight partitions must be built off the subfloor.

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.



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