

FORTIS TIMBER

V 1.2 - Oct 2026

The Multipipe Fortis Timber system is designed to install a wet underfloor heating system on any timber suspended structure. Based on standard P5 grade (moisture-resistant) chipboard flooring with pre-grooved channels for 12mm pipe, Multipipe Fortis Timber panels reduce material costs and installation time.

The board is quick and easy to install and requires no additional processes, or structures. The final flooring can (depending on the material) be installed directly over the structural board containing the pipework.

KEY PARTS OF ASSEMBLY

System board

- Board Size 22 x 600 x 2400mm
- Grooved for 12mm pipe
- Pipe spacing 150mm c/c
- Density: 695kg/m³
- Tongue and groove on all four sides
- Max. distance between the centres of battens according to national regulations
- P5 hybrid moisture resistant chipboard

Panel board

- Panel Size 900x600mm
- 6mm thick
- Fibre Reinforced Gypsum panel
- Marked boards for easy fixing



BENEFITS

- Direct lay for engineered flooring
- High output for lower running system temperatures
- Quick reaction to temperature regulation
- Offset material cost (no need to buy chipboard boards)
- Quick to install – no drying times

FEATURES

- P5 moisture-grade chipboard
- Pre-routed board to 150mm centres
- Foiled to improve outputs
- Tongue and groove on all four sides
- 6mm Gypsum board to increase thermal mass
- All-in-one panel (no routing)

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INSTALLATION STEPS



Before installation, separate the timber and gypsum boards and place them in conditions similar to those of use. Leave the panels in the room of application for five days before laying. This will acclimatise the boards to the room conditions.



Install Fortis Timber boards so they run against the direction of the joists or battens. The joist or batten centres must allow a minimum of 3-floor support areas per board and no greater than 600mm centres. Where the joists are further apart, install additional support and space it accordingly. For further information, call our technical team on **01245 227 630** or consult a structural engineer.



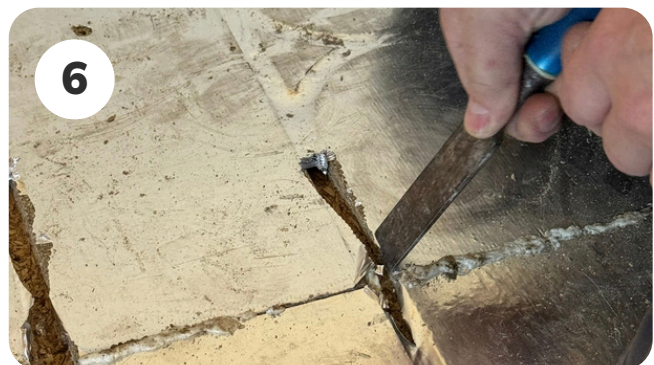
Start installation in the furthest room from the manifold. Planning is essential in order to run feeds under the boards. All feed pipes must run under the heating boards, so carefully consider board placement. **To be a structural floor, no further grooves can be cut.**



Before starting, ensure all boards finish 10mm from the wall to allow for expansion. Always glue the boards at the tongue & groove on all four sides. We also recommend glueing the board to the joist. Use an appropriate PVA (water-resistant) wood glue. Carefully apply the glue, ensuring a continuous seam of adhesive along the board's entire length.



It is important to screw the bottom board to the joist as well. A minimum 75mm screw should be used; please ensure all screw heads are finished flush with the floor surface.



If you use expanding wood glue, ensure all grooves that will have pipe are cleared before laying the pipe.

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We do recommend that, before laying pipe, you slit the foil and Hoover the joint; this is to ensure no debris damages the pipe.



Lay the pipe to the provided diagram, ensuring you allow the pipe feed to go under the board. You can use a soft rubber mallet to install the pipe into the friction-fit grooves.



Once the pipe is laid, avoid other trades on the floor until the coverboards are fixed in place, as debris can cause the boards to rock or damage the pipe. Vacuum the surface before laying any coverboards to ensure nothing is trapped.



We recommend that, once a loop is completed and fixed to the manifold, it be pressure tested to 4-6 bar (water pressure). Settling of the system will mean the pressure will drop in the first half hour; this is normal. Repressurise the system back to 4-6 bar. After 1 hour of settled pressure, reduce the pressure to 1.5 bar and check that it is maintained while laying coverboards.



Start laying the cover boards. Ensure the grooves and the turn match the pipe to reduce the chance of fixing through the pipe.



Joints on the coverboard should be offset by a minimum of a third of the board.

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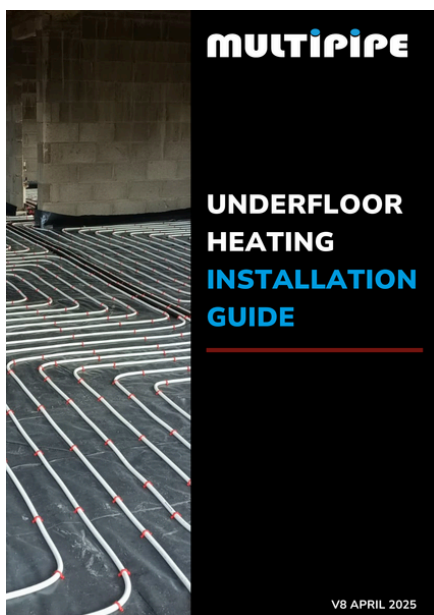


Use a 25mm screw to fix the panel in place at all marked fixing areas.



Once installation is complete, please recheck the water pressure on the pipe. Other trades are now able to work on top of the floor.

Because of the nature of this system, all finished floor coverings can be laid directly on top of the gypsum fibre board. Please follow the guidelines set out by the flooring manufacturer for installation onto a fibre cement floor surface, including all preparation steps. If a floor probe is required, this should be cut into the gypsum board and finished between two loops of the pipe.



After installing the system, refer to our UFH Installation Guide for the correct procedures for pressure testing, including pressure test certificates, commissioning the system, and further advice.