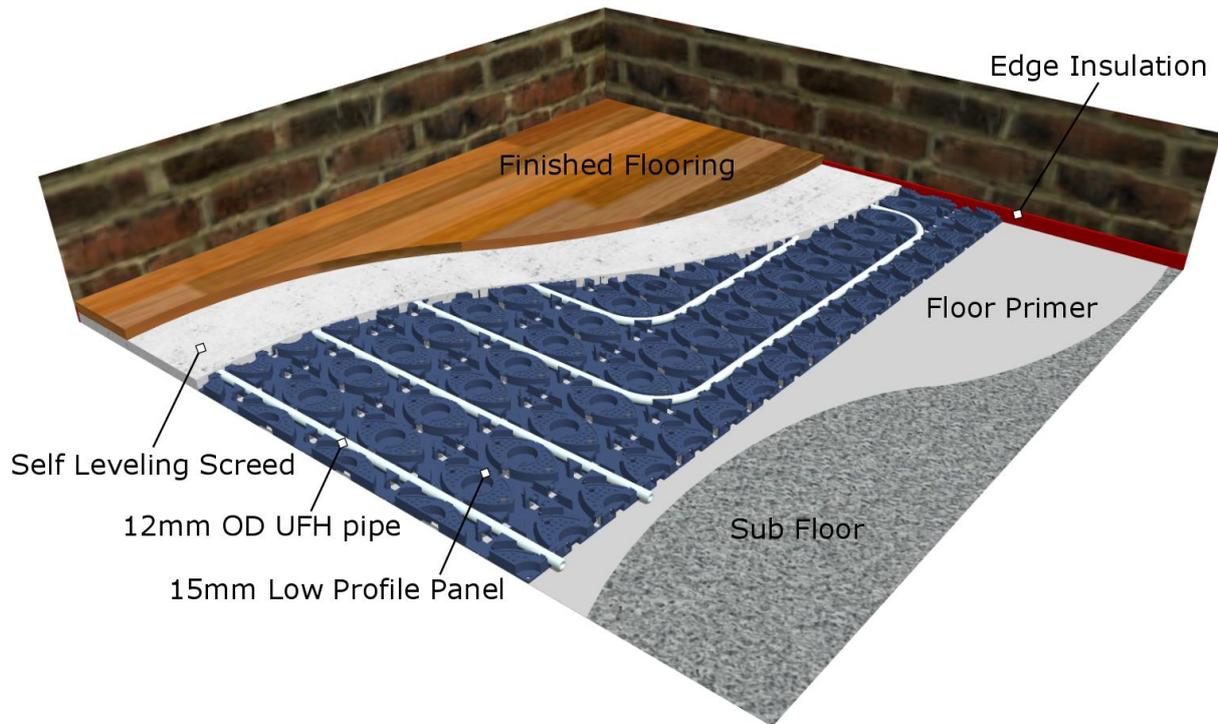




## TechnoLo Low Profile Underfloor Heating



The **TechnoLo** Low Profile Underfloor Heating system can be laid over solid (concrete) or timber (joisted) floors. It has a total installed depth from as low as 15mm for hard floor finishes (Tile, Wood, Laminate, Vinyl etc.) or 18mm for a Carpet finished floor. Thicker system depths may be required depending on the flatness and level of the existing sub floor. **Please note:** These system depths do not include the finished flooring or any insulation.

The **TechnoLo** Low Profile Underfloor Heating system is comprised of a 15mm thick Low Profile flooring panel laid over a primed sub floor, a perimeter Edge Insulation should be fitted before laying the **TechnoLo** flooring panels. The **TechnoLo** flooring panels interlock to produce a single sheet across the whole floor area; this is then secured to the sub floor by nails or screws using the provided fixing holes.

Underfloor Heating pipework is laid into the **TechnoLo** panels at 150mm pipecentres, the underfloor heating pipework is securely fastened by the **TechnoLo** panels' integrated system of clips and grooves. The 12mm PE-Xc five layer barrier pipe has a 2mm thick wall. It has a maximum operating temperature of 90°C at 10 bar. It conforms to EN ISO 15875-2 and DIN4726.

The Underfloor Heating pipework is connected to the Underfloor Heating Manifold and thoroughly pressure tested before a Self-Levelling Screed is poured across the **TechnoLo** Low Profile Underfloor Heating system. For installations where a hard floor finish (i.e. Tile, Wood, Laminate, Vinyl etc.) is to be installed a 15mm layer will be poured, for installations where a soft floor finish (i.e. Carpet) is to be installed an 18mm layer will be poured to provide a completely smooth surface. **Please note:** Normal floor laying procedures should be followed when fitting the finished floor i.e.; a ditra mat, flexible adhesive and flexible grout for tiled floors; an anti-slap layer for wood & laminate floors or an underlay that is suitable for use with Underfloor Heating for carpeted floors.

## **Installation Requirements**

If you have opted for a full design, supply and installation quotation from Underfloor Heating Technologies your quotation includes a free site inspection visit to assess the suitability of the area to have underfloor heating, identify and advise of any additional preparation works required and discuss any installation options. A bespoke Underfloor Heating Layout Drawing will be produced featuring full heatloss calculations and details of the Underfloor Heating system output and any builder's works that will be required prior to the installation of the Underfloor Heating system.

The subfloor is required to be reasonably flat, even and level. If the subfloor is found to be excessively out of true a self-levelling screed may have to be poured prior to the Underfloor Heating installation or a thicker layer of self-levelling screed may have to be used over the Underfloor Heating system. This may incur an additional cost.

Before the Underfloor Heating Technologies installation team arrive the existing finished floor will need to have been removed (if applicable) and the sub floor fully exposed and swept. Any required builder's works will have to be completed prior to the Underfloor Heating Technologies installation team's arrival.

## **Installation Procedure**

Upon arrival the Underfloor Heating Technologies installation team will do a final sweep and vacuum of the Underfloor Heating area before applying a layer of primer to the subfloor. They will then fit the perimeter Edge Insulation before laying and securing the **TechnoLo** Low Profile panels.

The Underfloor Heating Technologies installation team will mount the Underfloor Heating Manifold in the agreed position and lay the Underfloor Heating pipework as shown on the Underfloor Heating Layout Drawing, connecting each Underfloor Heating loop to the Underfloor Heating Manifold as they go. When all of the Underfloor Heating pipework has been installed it will be pressure tested with air or water and left under pressure for observation while the Self-Levelling Screed is poured and the finished floor is fitted. **Please note:** Underfloor Heating Technologies will always leave a Underfloor Heating system pressurised with air unless otherwise requested, this is to protect against the threat of frost damage before the Underfloor Heating system is commissioned into use.

The Underfloor Heating Technologies installation team will then fit any formers/shuttering required before pouring the Self-Levelling screed to the required depth. They will then obtain the customer's signature to confirm that all works have been carried out to an acceptable standard and that the Underfloor Heating System is holding pressure. Any Underfloor Heating controls included in the quotation can either be handed over at this point or returned to Underfloor Heating Technologies' warehouse to be sent on at a later date (a postage cost may be incurred) for fitting by a qualified electrician.

## **Project Completion Works**

The Self levelling screed will be dry enough for light foot traffic in 2-3 hours and your finished flooring can be laid after 48 hours. **Please note:** It is not possible to speed up the screed curing/drying process by applying heat to the Underfloor Heating system, do so will inhibit the chemical curing of the screed and substantially weaken it.

The Underfloor Heating Manifold will need to be connected to the Boiler/Heatpump by a qualified plumber and if the Underfloor Heating system was left filled with air it will need to be filled with water and flushed through before use.

The Underfloor Heating controls will need to be fitted by a qualified electrician.

Commissioning of the Underfloor Heating system is available as an option in your Underfloor Heating Quotation. Alternatively, commissioning can be carried out by an experienced plumber.