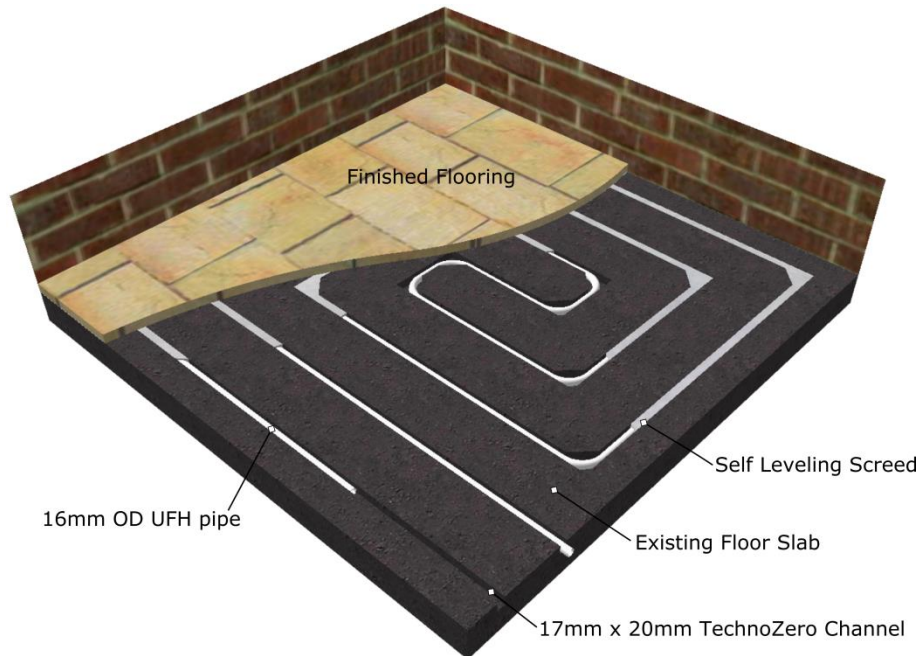




TechnoZero - Zero Depth Retrofit Underfloor Heating



The **TechnoZero** Zero Depth Retrofit Underfloor Heating pipework is fitted into channels cut into the existing screed floor without adding any depth to the existing floor construction. **TechnoZero** channels can even be cut through existing tile or stone flooring.

The **TechnoZero** Zero Depth Retrofit Underfloor Heating system includes a full bespoke Underfloor Heating Design service carried out in house by Underfloor Heating Technologies. **Please note:** Due to the nature of this Underfloor Heating system installation we can only offer this system on a complete Design, Supply and Installation basis. Please contact Underfloor Heating Technologies on 01386 839 472 or info@ufht.co.uk if you wish to discuss self-installation Underfloor Heating systems.

Underfloor Heating Technologies' installation team will use the client approved Underfloor Heating Design to cut 17mm wide, 20mm deep channels into the existing floor slab at the required Underfloor Heating Pipe spacings before fitting Underfloor Heating Pipe into the **TechnoZero** floor channels. The 16mm PE-Xa three layer barrier pipe has a 2mm thick wall. It has a maximum operating temperature of 95°C at 6 bar maximum pressure. 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 into the **TechnoZero** channels until it is level with the top of the existing floor slab. If required a layer of Self-Levelling Screed can be installed across the whole floor area (i.e. if existing floor slab is uneven). Please contact Underfloor Heating Technologies on 01386 839 472 or info@ufht.co.uk for more information. **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

Your Underfloor Heating Technologies **TechnoZero** 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. 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 mark out the Underfloor Heating Pipe pattern onto the floor following the approved Underfloor Heating Layout Drawing before cutting the channels into the floor using a Floor Milling Machine connected to an industrial vacuum for dust collection. The Underfloor Heating Technologies installation team will mount the Underfloor Heating Manifold in the agreed position and lay the Underfloor Heating pipework into the **TechnoZero** Underfloor Heating channels, 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 1-2 hours and your finished flooring can be laid after 24 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.