

## Existing Subfloors Underfloor Heating

### Low-Build 15

#### Overview

##### Product

Ultra-slim insulation panels with pre-fitted heat diffuser and channels for 10mm UFH pipe.

##### Application

Direct placement over any existing floors.

#### Features and Benefits

##### Product

- ⦿ Pipe integrated within insulation thickness: enables full diffuser contact with overlying floor finish
- ⦿ Low build up height: 15mm excluding optional load-bearing ply layer

##### Design/Installation

- ⦿ Separate end return panel not required
- ⦿ Separate diffuser plate not required
- ⦿ Lightweight panel: easy to cut and install – only one person required\*
- ⦿ Very low build = minimal rise in floor level = less disruption to doors/skirting
- ⦿ Pipe in serpentine pattern

##### System Performance

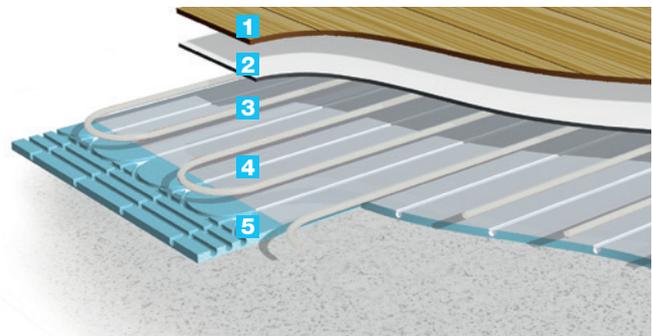
- ⦿ Fixed pipe centres ensure consistent thermal output
- ⦿ Robust: able to withstand point loading
- ⦿ Energy-efficient: compared with electric UFH systems, saves up to two-thirds\*\* of running costs
- ⦿ Heating control is achieved with either of two specially-designed control systems: the Small Room Connection Pack (92UH006) for areas <6m<sup>2</sup> or the Single Zone Control System (88UH212 and 92UH101, plus 92UH103 (s) if required) for areas >6m<sup>2</sup>.

\* Qualified electrician required if mains-connected controls fitted.

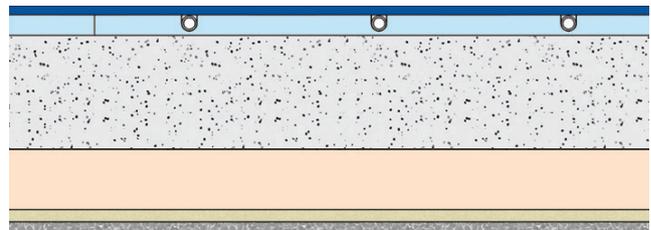
\*\* Based on using a SEDBUK A Rated gas boiler, and wet vs electric UFH systems at typical 2010 domestic energy prices.

#### System Construction

1. Selected floor finish
2. Optional load-bearing plywood layer



Section view



3. 10mm UFH pipe: placed into pre-cut channels at 150mm centres
4. Low-Build 15 floor panel (insulation) with pre-fitted aluminium diffuser
5. Integral end panel (insulation) with pre-cut end-return, flow and through-connect channels for pipe

##### Transitional Areas

For transitional areas, dedicated channel panels are available which insulate the flow and return pipes reducing localised overheating. Curved Pipe Supports and Clamps (see underfloor heating product guide) are supplied with the Low-Build 15 system for places where pipes need to be supported and secured for run up wall to manifold.

#### Technical Information

Base Material:	Extruded Polystyrene
Thermal Conductivity:	0.033W/mK
Ozone Depleting Potential:	0
Global Warming Potential:	<5
Density:	33kg/m <sup>3</sup>
Compressive Strength:	300kN/m <sup>2</sup>
Long Term Load:	130kN/m <sup>2</sup>
Panel Dimensions:	1200 x 600mm
Panel Thickness:	15mm
Pipe Spacing:	150mm