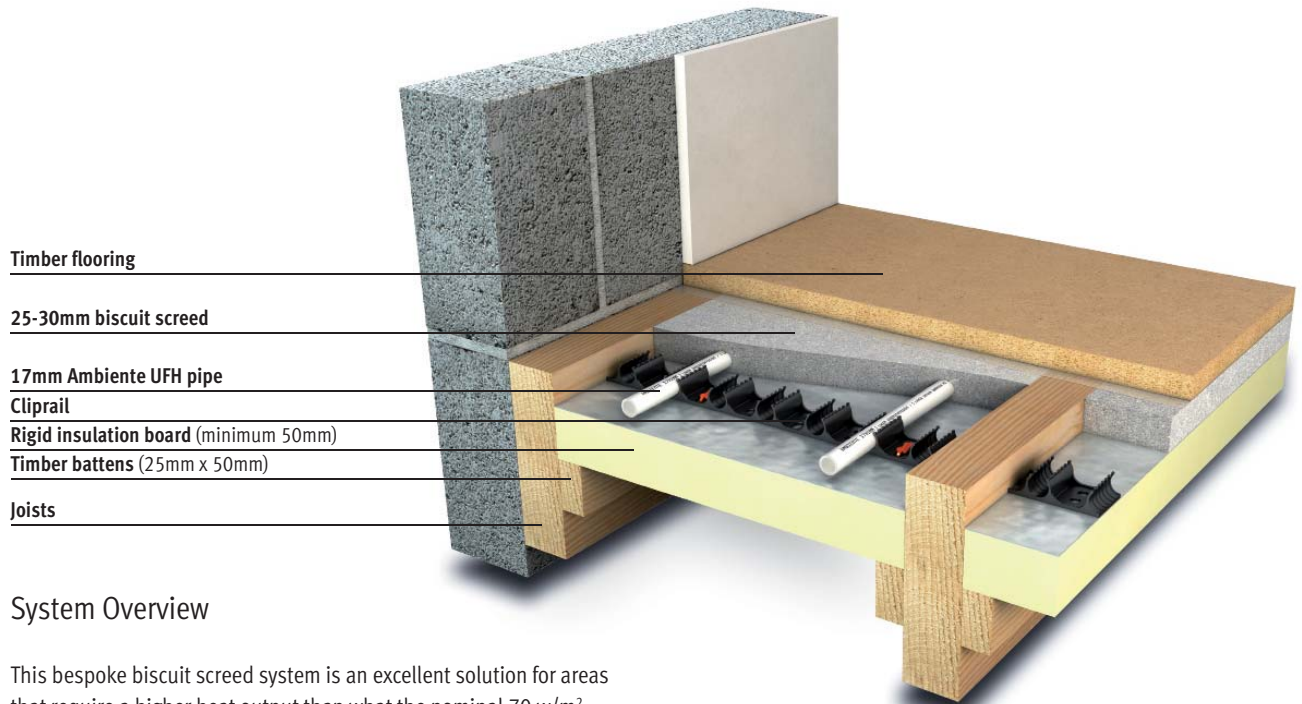


Bespoke Biscuit Screed System Joisted Floor Construction

WMS
Underfloor Heating

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Timber flooring

25-30mm biscuit screed

17mm Ambiente UFH pipe

Cliprail

Rigid insulation board (minimum 50mm)

Timber battens (25mm x 50mm)

Joists

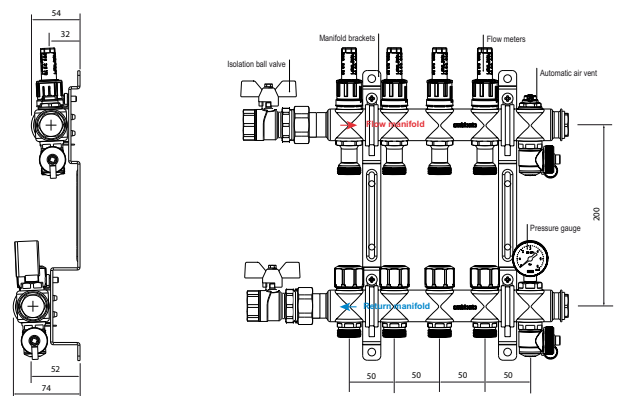
System Overview

This bespoke biscuit screed system is an excellent solution for areas that require a higher heat output than what the nominal 70 w/m² achieved by the AmbiPlate systems. The bespoke biscuit screed system, because of the screed content, can achieve much higher outputs up to 90 w/m². This system can be integrated into both existing and new build applications, but consideration should be given to the extra loading on the joists.

Before the insulation panels can be installed, timber battens should be fixed to the sides of the joists at the required depth to support the insulation. The insulation panels should be a minimum 50mm thickness unless supported by ply. A combination of clips and cliprails is then laid to fix down the pipework. The pipework is installed in continuous loops within the floor back to the manifold in the normal fashion. Once complete, the system is pressure tested and witnessed to finalise the underfloor heating installation.

A biscuit screed is then required to fill the void around the underfloor heating pipework, flush with the top of the joists. The screed is simply required to transfer the heat from the pipe to the flooring - it is not structural. We recommend that the screeding process is scheduled to follow shortly after installation to avoid leaving the system vulnerable to damage.

Manifold Dimensions



Manifold Sizing Chart

Number of ports	2	3	4	5	6	7	8	9	10	11	12
Manifold Length (mm)	192	242	292	342	392	442	492	542	592	642	692

Recommended minimum installation clearances: 200mm between the finished floor level (FFL) and bottom of the manifold, 100mm above the manifold, 50mm to either side of the manifold and allow an extra 100mm for the supply pipe work.