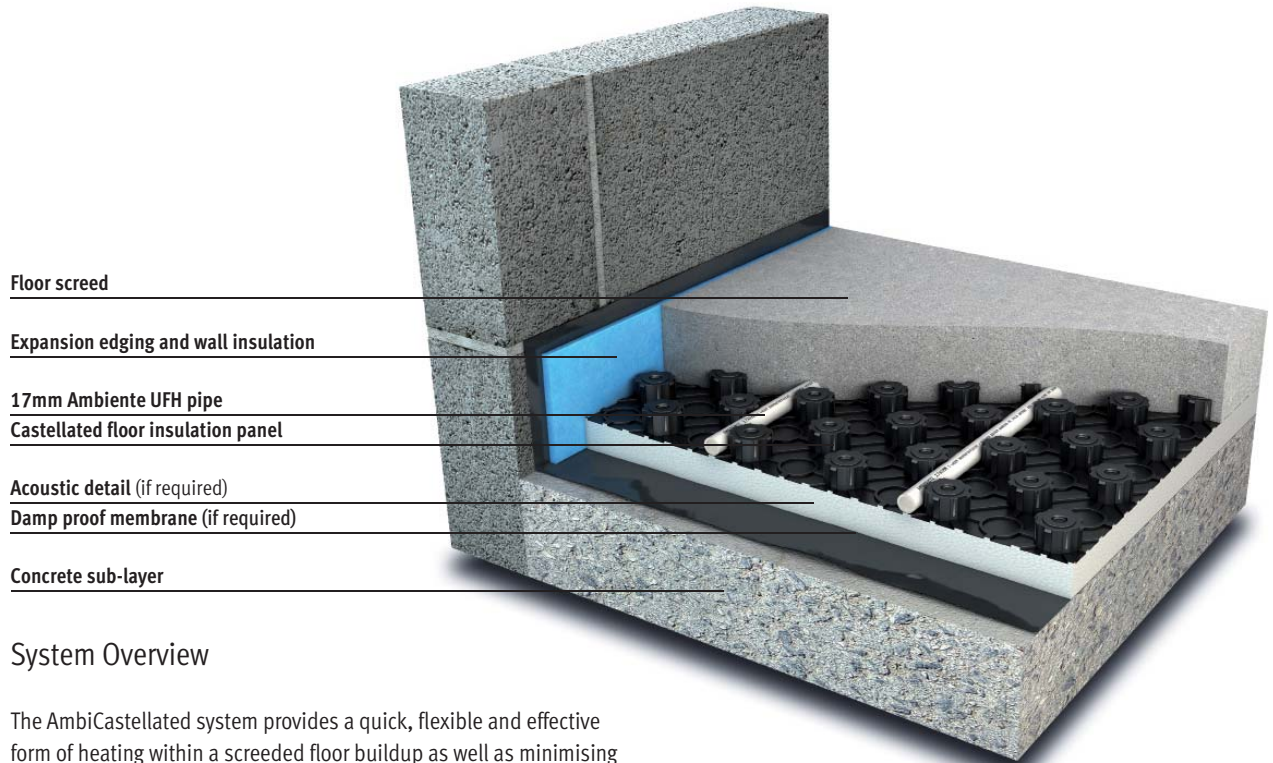


AmbiCastellated Screeded Floor Construction

WMS
Underfloor Heating

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Floor screed

Expansion edging and wall insulation

17mm Ambiente UFH pipe

Castellated floor insulation panel

Acoustic detail (if required)

Damp proof membrane (if required)

Concrete sub-layer

System Overview

The AmbiCastellated system provides a quick, flexible and effective form of heating within a screeded floor buildup as well as minimising the height of the overall floor construction.

The castellated insulation panel incorporates the insulation and clipping system all in one product. The product is available in a range of thicknesses and consists of a moulded plastic panel which is keyed to the insulation for stability - this also acts as a separating layer between the insulation and screed. This provides an excellent clipping method for the pipework which is held and supported by the moulded castles. The pipework is installed in continuous loops and connected back to the manifold. Edge insulation is required to the perimeter of each area to counter expansion of the screed. Once complete, the system is pressure tested and witnessed to finalise the installation.

We recommend that the screeding process is scheduled to follow shortly after installation to avoid leaving the system vulnerable to damage. If a liquid screed is being used, the insulation must be sealed to provide a watertight base. Your Ambiente accredited installer will supply a drawing after the installation for the client's records.

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.

Manifold Dimensions

