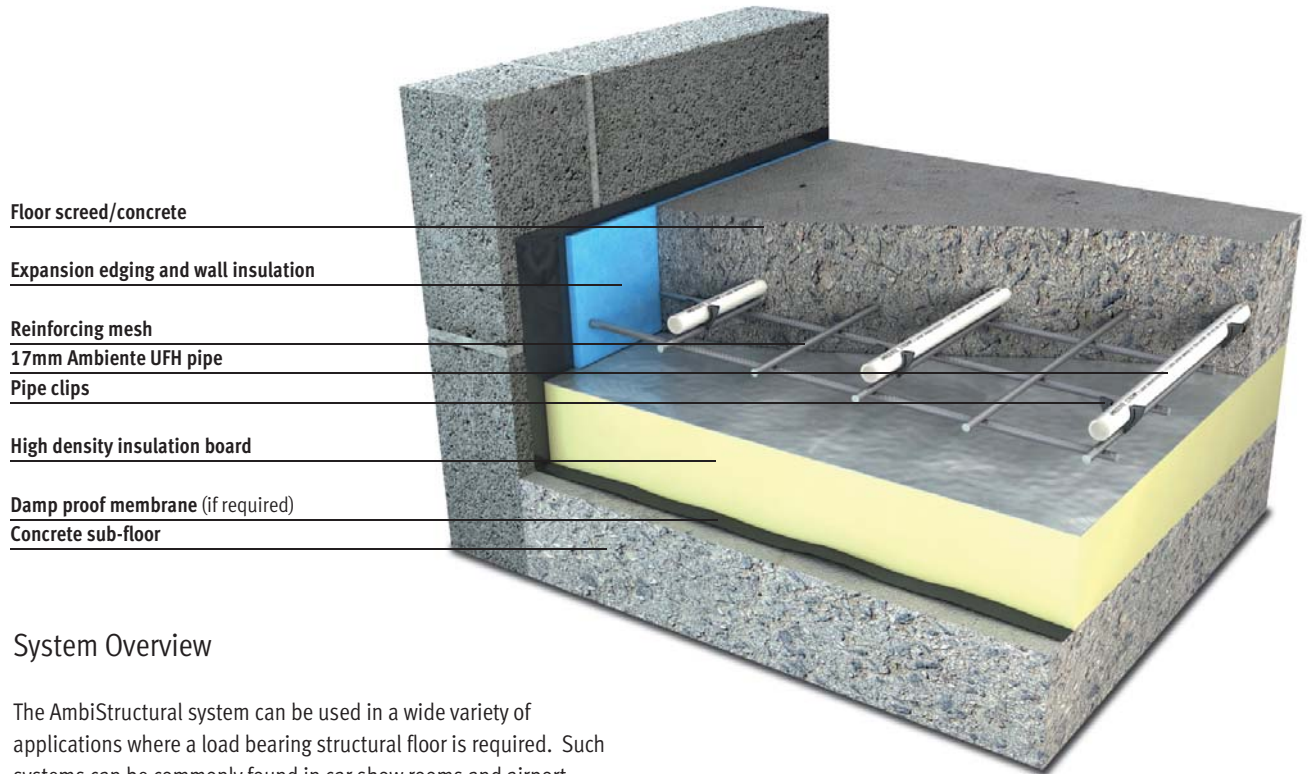


# AmbiStructural System Structural Floor Construction

**WMS**  
Underfloor Heating

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Floor screed/concrete

Expansion edging and wall insulation

Reinforcing mesh

17mm Ambiente UFH pipe

Pipe clips

High density insulation board

Damp proof membrane (if required)

Concrete sub-floor

## System Overview

The AmbiStructural system can be used in a wide variety of applications where a load bearing structural floor is required. Such systems can be commonly found in car show rooms and airport hangers where point loadings can be extremely high.

High density flooring insulation panels of the required specification are laid over the complete floor area which is over laid with an A142 reinforcing mesh on to which the underfloor heating pipework is clipped.

The specialist 17mm underfloor heating pipework is secured to the mesh in accordance with the underfloor heating designs with no joins in the pipework under the floor. Each loop circuits back to the underfloor heating manifold, complete with flow regulating valves, ball valves, pumps, mixing valves, drain/fill points, auto air vent and pressure gauge all at pre-arranged locations as shown on the right.

The system must be filled and pressure tested upon completion and left under pressure whilst the concrete is laid.

If controls are required from WMS, these will be supplied as 'second fix' items for others to fit.

## Manifold Sizing Chart

Number of ports	2	3	4	5	6	7	8	9	10	11	12
Length (mm)	180	230	280	330	380	430	480	530	580	630	680

The recommended minimum installation distance between finished floor level (FFL) and the bottom of the manifold is 200mm with 75mm clearance above the manifold and 50mm at either side for maintenance purposes.

## Manifold dimensions

