

# AMBISTRUCTURAL SYSTEM

## STRUCTURAL FLOOR CONSTRUCTION

### SYSTEM OVERVIEW

Floor screed/concrete

Expansion edging and wall insulation

Reinforcing mesh

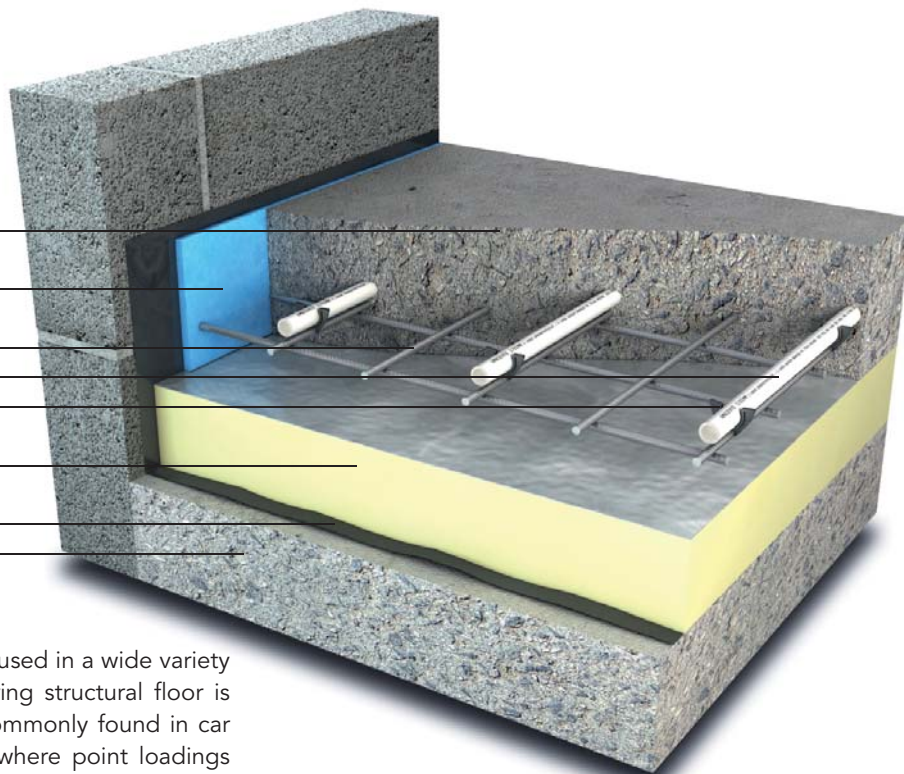
17mm Ambiente UFH pipe

Pipe clips

High density insulation board

Damp proof membrane (if required)

Concrete sub-floor



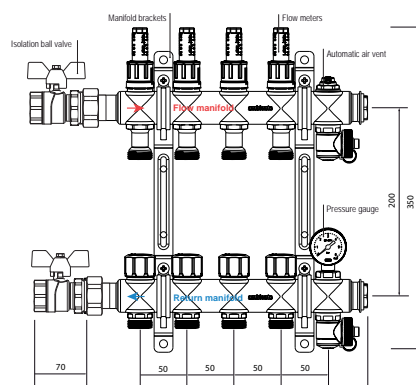
The AmbiStructural system can be used in a wide variety of applications where a load bearing structural floor is required. Such systems can be commonly found in car show rooms and airport hangers where point loadings can be extremely high.

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. Your Ambiente accredited installer will supply a drawing after the installation for the client's records.

### 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 air manifold, 100mm above the manifold, 50mm to either side of the manifold and allow an extra 100mm for the supply pipe work.