

SCREED FLOOR CONSTRUCTION

MERCURY ARIAL - CLIP TO MESH



UNDERFLOORHEATING
DESIGN | SUPPLY | INSTALLATION

MERCURY ARIAL is a clip-to-mesh underfloor heating system that provides an economical and quick solution for heating within a screed or concrete floor.

There are typically two types of floor construction; concrete slab and those which incorporate a reinforcing wire mesh grid at mid level in the floor. The floor build up comprises a concrete slab, followed by a layer of insulation, covered with a vapour barrier and perimeter edge insulation. The wire mesh is then either installed on the floor insulation in the case of simple slab floor, or at the required level in the slab on structural floors.

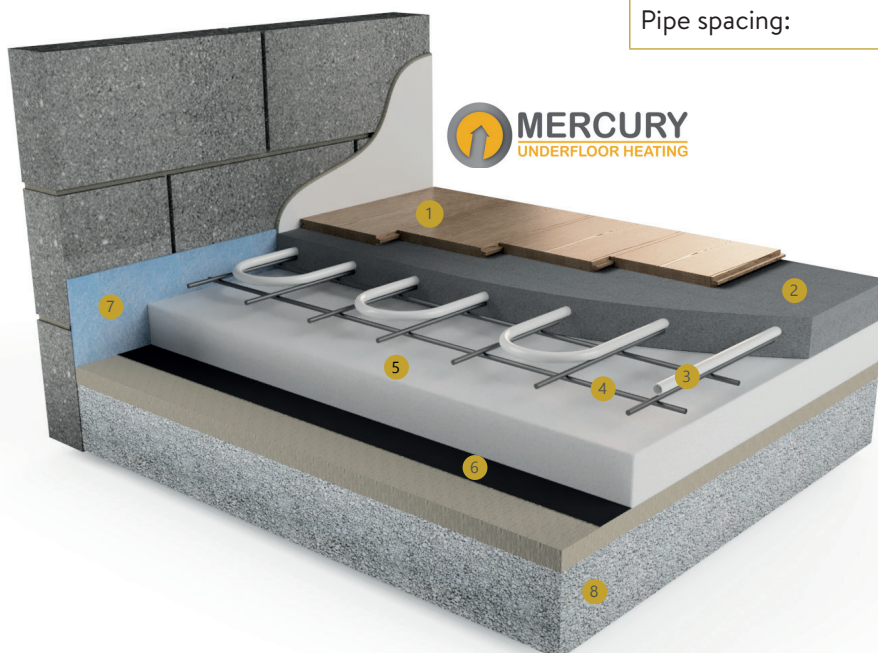
MERCURY 16mm pipe is laid in continuous loops and secured to the mesh with cable ties. Following manifold connection and testing, screed is then applied around it.

- A 10mm perimeter edge insulation must be positioned around around all wall edges to reduce heat loss and allow for screed expansion.
- It is essential to prevent screed from slipping between the insulation board joints by applying a protective layer. This can be achieved by taping joints of insulation or alternatively by using a foil or polythene layer.
- The pipe and manifold should be pressure tested following installation.

TOP TIPS!

Pipe spacing:

150mm / 200mm / 300mm centres



- 1 Floor covering
- 2 Screed
- 3 MERCURY 16mm UFH pipe & ties
- 4 Reinforcing mesh
- 5 Floor insulation
- 6 Damp proof membrane
- 7 Perimeter insulation
- 8 Concrete sub-floor

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