

SUSPENDED FLOOR CONSTRUCTION

MERCURY ELLIPSE - ALUMINIUM HEP



UNDERFLOORHEATING
DESIGN | SUPPLY | INSTALLATION

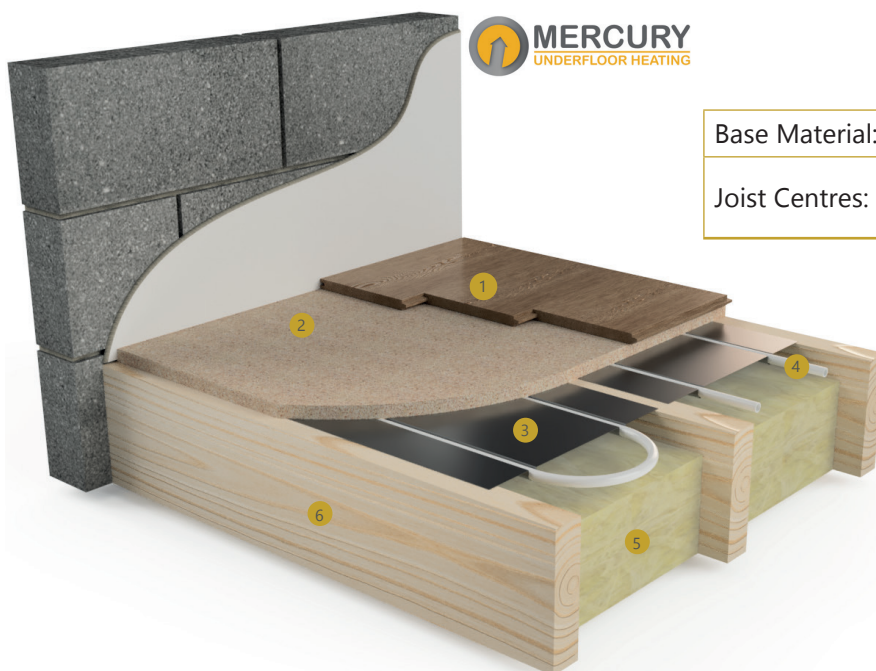
MERCURY ELLIPSE is a floor system specifically designed for joisted or batten floor applications and offers a quick response time without the need for raising the floor height.

With even heat distribution and high efficiency, ELLIPSE produces a maximum output possible from a joisted floor system when combined with a high temperature heat source such as a boiler. ELLIPSE can also be used in conjunction with renewable heat technologies including air and ground source heat pumps. Extra care and attention must be taken to ensure the design temperature and output meets heat loss when using renewables.

Depending on the application, MERCURY 16mm or 20mm pipe is used, which is held in place by fixing the aluminium heat emission plate to a joist or battened floor above a rigid or mineral wool insulation. It is essential for the insulation to be installed as close to the underside of the heat emission plates as possible.

TOP TIPS!

- The underfloor heating pipe is laid into the pre-grooved plates in continuous loops. They will follow the floor joist direction and cover approximately 80% of the heated floor area.
- A 10mm gap should be left between adjoining plates to ensure they do not touch each other. The heat emission plates must not be overlapped.
- The pipe and manifold should be pressure tested following installation with the floor deck laid shortly after the underfloor heating installation.



Base Material:	Aluminium heat emission plate
Joist Centres:	300mm - 400mm 411mm for Junckers sprung floors

- 1 Floor covering
- 2 Chipboard deck
- 3 Aluminium heat emission plates
- 4 MERCURY 16mm/20mm UFH pipe
- 5 Insulation
- 6 Floor joist

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