

SUSPENDED FLOOR CONSTRUCTION

MERCURY EON - 22mm FOILED CHIPBOARD



UNDERFLOORHEATING
DESIGN | SUPPLY | INSTALLATION

The MERCURY EON 22 floor system is specifically designed for joisted floor applications, offering a quick response time with a minimal increase in floor height. Other benefits include efficient and even heat distribution, achieving maximum output when combined with an ASHP or boiler.

MERCURY EON 22 consists of a 22mm floor-grade foiled chipboard, routed at 150mm centres to accept Mercury 12mm pipe. The chipboard panels are 2400mm x 600mm with both straight and return grooves, eliminating the need for multiple panel types. A minimum 6mm ply capping layer should be screwed and glued over the EON 22 boards to complete the structural deck. This is an extremely efficient heating system due to the UFH pipe being as close to the floor finish as possible.

The 22mm chipboard is laid across the joists (max. 600mm centres) at 90° to the floor joists. This can be temporarily covered for protection if dictated by the type of build. When the build is ready for UFH, the temporary deck can be removed and chipboard cleared of any debris. This is followed by laying the underfloor heating pipes into the foil in continuous loops back to the manifold. There may be a requirement for pipes to drop below the 22mm board to feed back to the manifold.

TOP TIPS!

- The pipe and manifold should be pressure tested following installation with the floor deck laid shortly after the underfloor heating installation.



Base Material:	P5 grade moisture resistant chipboard
Thermal Conductivity:	0.12 W/ mK (R value = 0.18 m²K/W
Panel Dimensions/ thickness	2400 x 600mm / 22mm (+ 6mm ply)
Weight with Water:	18.9 kg/m² (includes 6mm ply)
Pipe Spacing:	150mm



- 1 Floor covering
- 2 6mm capping layer
- 3 22mm foiled chipboard
- 4 MERCURY 12mm UFH pipe
- 5 Insulation
- 6 Floor joist/batten

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