FLOOR CONSTRUCTIONS

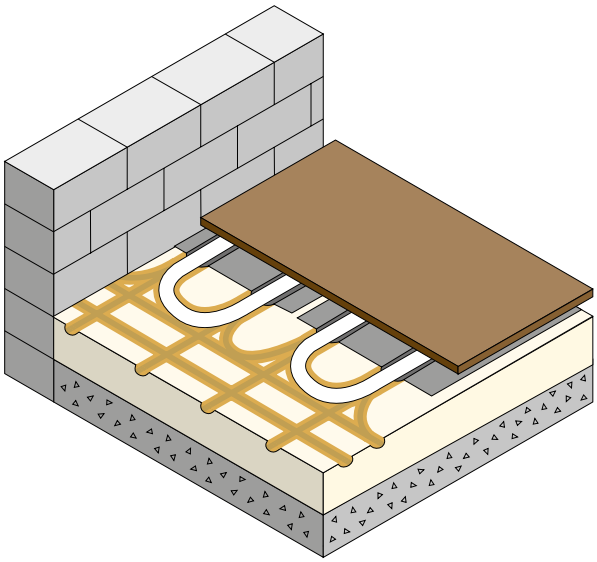
Floating Floors

Overview

Maincor supplies a range of polystyrene panels in various density grades. The panels range from 30mm to 70mm depending on the solution required. It is possible to manufacture to suit customer requirements providing the polystyrene sheets are at least a minimum of 30mm thick.

Typically EPS100 is used for 30mm panels (due to the limited depth) and EPS70 is used where 50 or 70mm panels are supplied. The panels are pre-routed so that heat emission plates can be laid directly into the panels. Once this is complete the pipework can be installed into the plates.

A floating floor is then laid over the top of the system. When installing the panels on a ground floor, additional insulation may be required to comply with the Building Regulations.

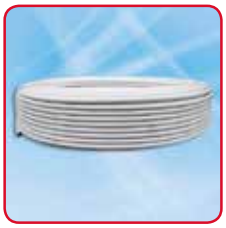


Features and Benefits

- Dry alternative to wet screed systems which reduces the time on site, benefitting the build programme.
- Range of panel thicknesses are available to suit thermal requirements.
- Panels are pre-routed for rapid installation of pipe
- Bespoke panel thicknesses can be produced to meet project requirements.
- Makes use of Heat Emission Plates for an even heat distribution across the floor.

Key Components

Maincor MLCP, PE-RT/AL/PE-RT Coils



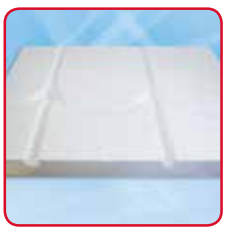
Maincor MLCP, PE-RT/AL/PE-RT, overlap welded aluminium Multi-Layer 100% barrier Composite Pipe, supplied in coils.

Available in 16mm coils.

Heat Emission Plate

Maincor Heat Emission Plates are for use in timber suspended floors where the joists are at 400mm centres, or in floating floor applications. The plates are 390mm wide x 1m in length. Allow 2.2 plates per m^2 of floor area 16mm pipe at 200mm centres. Varying pipe sizes and centres available on request.

Floating Floor Panel

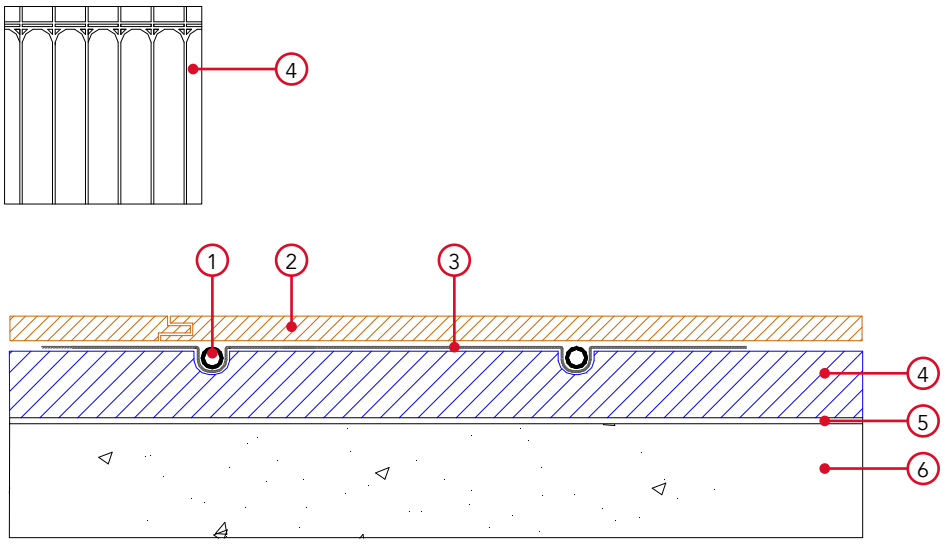


Maincor Floating Floor Panels are for use with the heat emission plates. The boards are made from pre-routed expanded polystyrene (EPS). When used in ground floors, additional insulation may be required to comply with Part L of the Building Regulations.

FLOOR CONSTRUCTIONS

Floating Floors

Technical Details



Key:

1. MLC Pipe
2. Tongue and Groove Chipboard
3. Heat Emission Plates
4. EPS Floating Floor Panels
5. DPM
6. Existing Concrete Slab

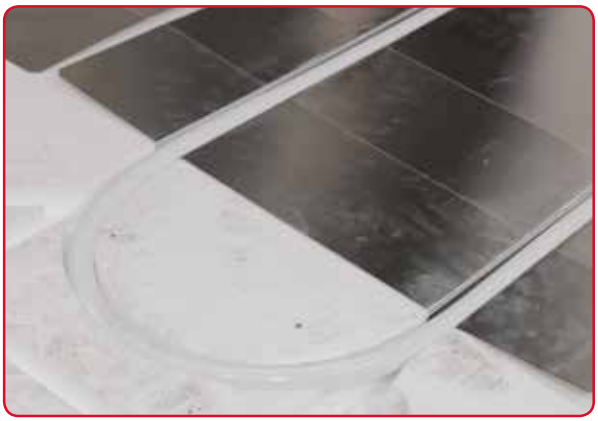
Floating floor systems are well established in the UK. The system comprises of a pre-routed expanded polystyrene board which acts as an insulation layer and supports a tongue and groove floating floor finish above. The floor must have sufficient strength to support furniture and traffic in the room. Grooved aluminium sheets are laid within the channels which act as the heat emitter – effectively a radiator within the floor make-up. 16mm MLCP sits within the channels and warm water is circulated around the coils. Additional pipe channels can be routed from the insulation using either a hot cutter or a knife. The system should be fully pressure tested prior to the structural floor being laid.

Installation Overview

When installing underfloor heating systems ensure that all relevant health and safety legislation and local site regulations are fully adhered to at all times.

2. Roll-out the pipe into the required pattern.

1. Insert the Heat Emission plate into the polystyrene panels.



3. Pipe located into the grooves in the heat emission plates.