

Profi-mix joist & batten

dry screed to store heat - ideal for heat pumps

Profi-mix allows a joist or batten floor to be heated by a low temperature heat pump. Heat is stored in the dry screed layer, requiring water at just 35 degrees

Specification:

The Profi-mix system allows a suspended or batten floor to be heated from a very low heat source. Using 30-35mm of dry screed, the system will build up and hold heat. It also allows closer pipe spacing's if required to meet the heating demand of the rooms.

Installation:

Install battens along joist, install rigid insulation, and ensure top of insulation is 30-35mm below joist tops.

Pipework is installed onto the insulation, following the CAD pipe layout diagram (provided). The pipes are then covered with a dry mix of sand and cement, to provide a thermal mass to hold and conduct the heat through

the floor above.

Structural floorboards (eg Oak planking) can be installed directly to the joists. Otherwise, a structural floor deck (typically 18-22mm chipboard, or suitable screedboard, is installed onto the floor joists, with carpet or tiles above.

Floorcoverings:

- Carpets - over screed board or chipboard deck
- Timber - directly onto joists (18-28mm)
- Laminate - over screed board or chipboard deck
- Tiles – over screed board or chipboard deck

Compatible Heat-source:

- Boiler or Heat pump - 45°C

Pipe Centres:

This system can be designed with the following pipe spacing's.

- 100mm
- 150mm
- 200mm
- 300mm

