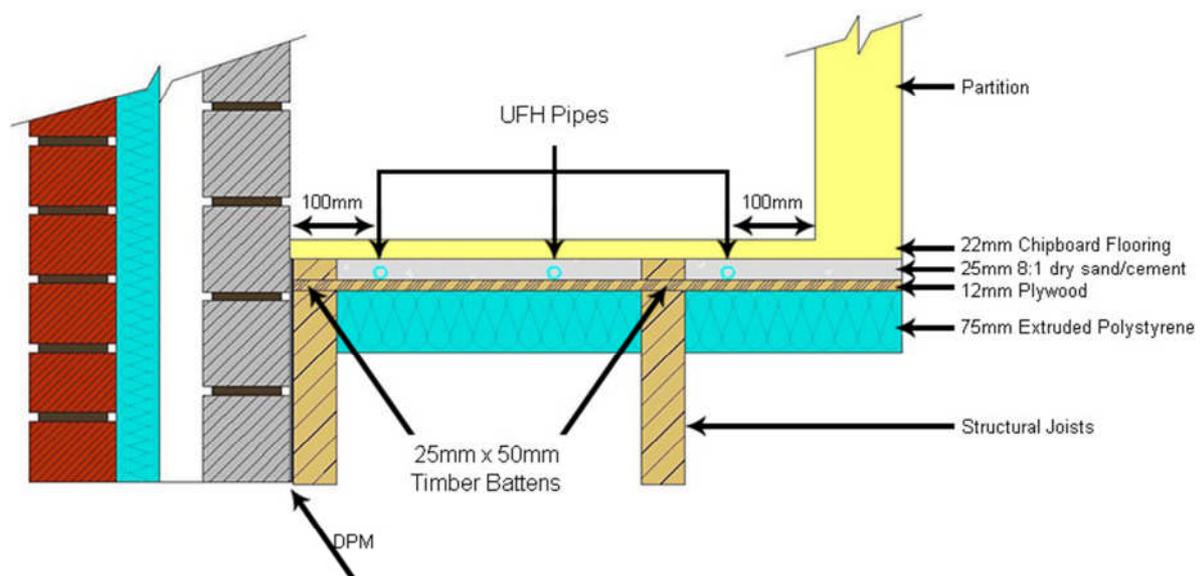


Underfloor Heating Installation Guide

Floor Constructions: Timber Joist Floor

Joist Floor - Dry Mix System

Installed on top of joists



The Floor Heating Warehouse 'Dry Mix' system can be installed into timber suspended floors. An alternative to Heat Diffuser Plates, this systems advantage is its high heat created by the covering of 25mm dry mix. This dry mix enables the pipe to dissipate its heat efficiently and ensures a high thermal mass/storage of heat.

Firstly a foil backed insulation board such as 'Kingspan' or 'Celotex' is installed between the joists. A 12mm plywood is then installed on top of the existing joists, followed by a 25mm batten screwed to the ply wood and positioned on top of the existing joist position. Pipes are then installed on top of the plywood (between the newly installed 25mm battens). The pipes are then covered with a dry mix of 8:1 sand/cement (8 parts sand, 1 part cement, no water) to the top of the 25mm battens. Finally a standard 22mm chipboard or flooring grade plywood is fixed to the top of the battens.

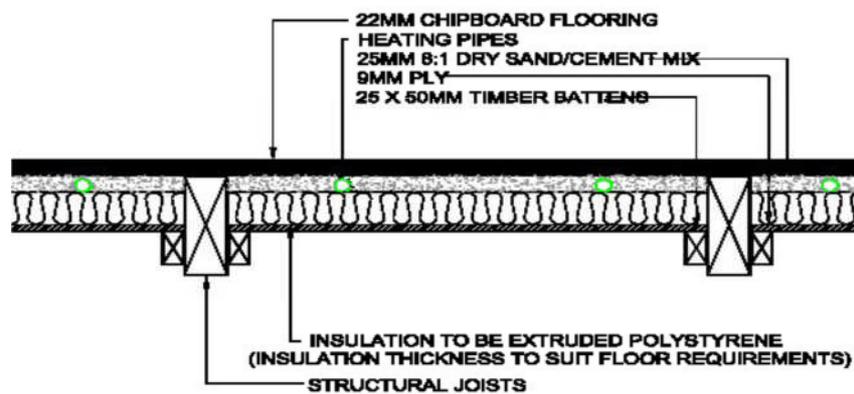
This method can be used either on top of the joists as detailed above, or by fitting battens between the joists as detailed below.

Installed between joists

This method can be used either on top of the joists as detailed above, or by fitting battens between the joists it can be lowered so that the floor panels are still fitted onto the existing joists with no increase in floor structure height as shown below. This method requires the joists to be notched to allow pipes to pass through.

Another method is to use our Aluminium Heat Diffuser Plates as a means of spreading the heat energy under the floor panels, this method does not impose a weight penalty but the energy output is lower than the batten and screed method.

Note: For low temperature heat pump supplies, optimum heat output is achieved using the dry mix installation method.



Telephone: 01481 230947 -- Fax: 01481 235164 -- Email: info@thefloorheatingwarehouse.co.uk