



## SUPERIOR UNDERFLOOR HEATING & COOLING SYSTEMS

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### SUSPENDED FLOOR

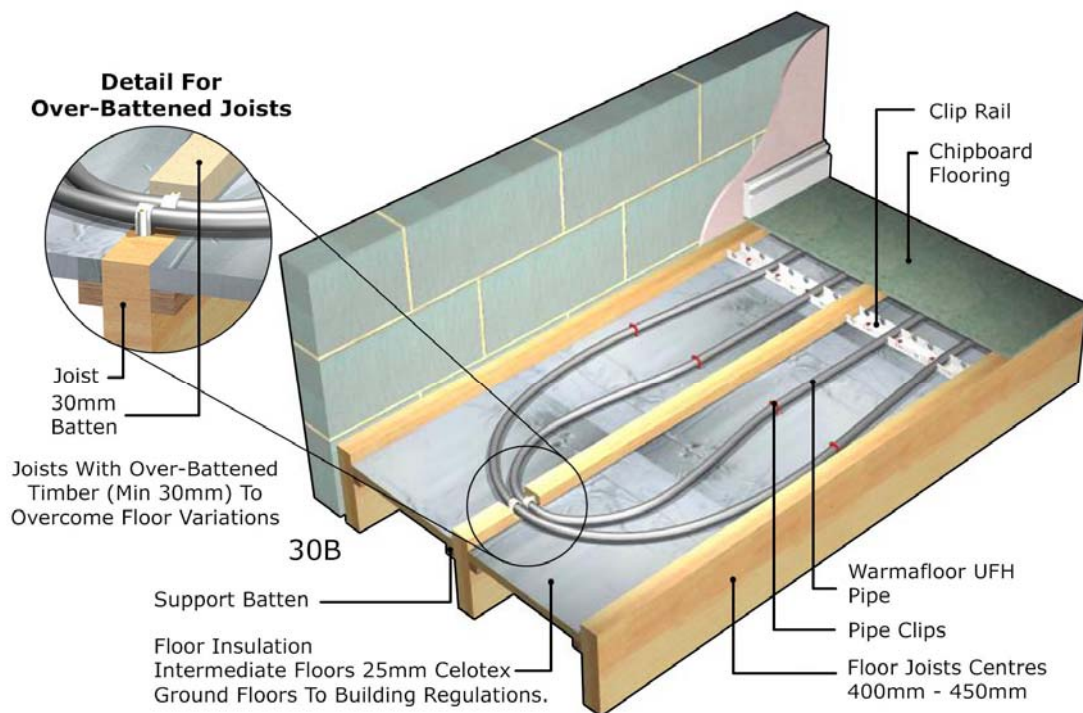
There are generally two types of suspended timber floors, standard timber joists and engineered timber joists. Warmafloor can provide a system for both applications.

#### STANDARD JOISTS

Standard joists-normally 400-450 centers-. Supporting battens are fitted between joists upon which rigid insulation is installed. Pipework is installed on the insulation and circuited via joist notching back to the manifold.

Should the joists be interspaced with steel beams or other obstacles it is recommended to over batten the joists. This provides a clear space in which the underfloor circuits can run without joist notching or other structural clashes. Rigid floor insulation is installed as normal between the joists and the Warmafloor underfloor system is fitted easily within the batten height and the flooring is finally fitted.

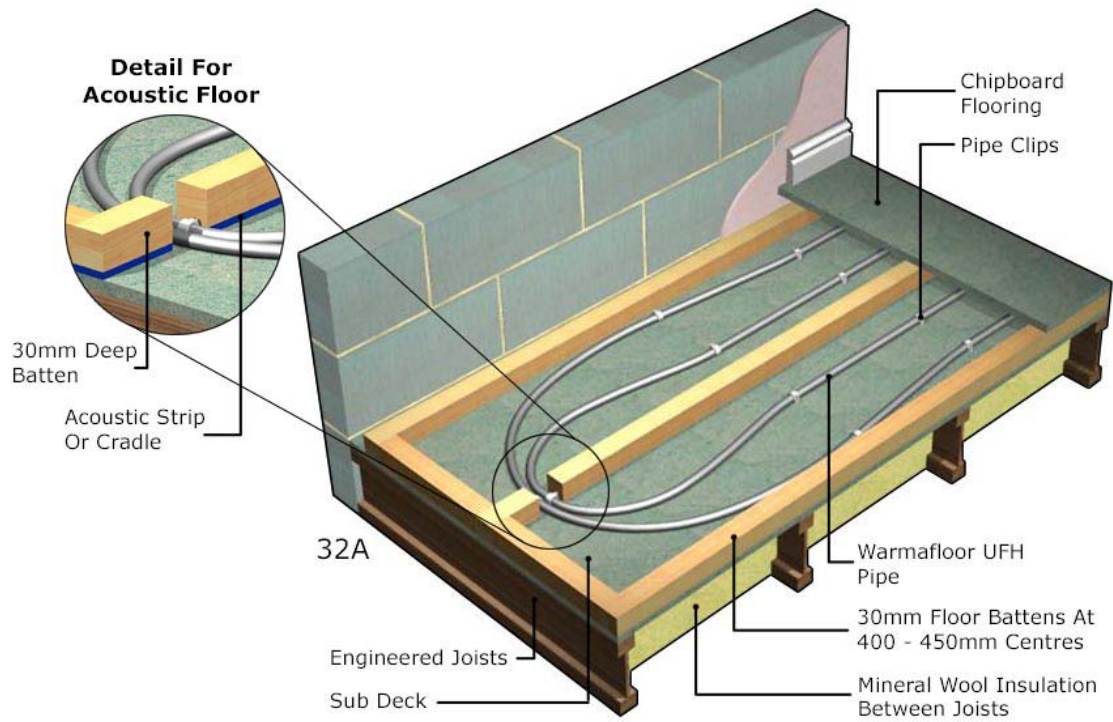
For ground floor applications the insulation between joists must be to part L Building regulations and the insulation must be tightly fitted to stop any air ingress from below. On upper floors 25mm Celotex or similar insulation should be used.



Standard Joist System - Over Batten Detail

## ENGINEERED JOISTS

With engineered joist systems the joists should be decked out with a sub deck. Batten positions are marked on the sub deck then Warmafloor pipework is laid out and pinned to the sub deck. Floor battens are fitted and then the final chipboard or plywood flooring to provide a complete installation. Insulation should be installed between the joists. This type of floor is generally only used on upper floor levels.



Engineered Joist System - Over Batten Detail