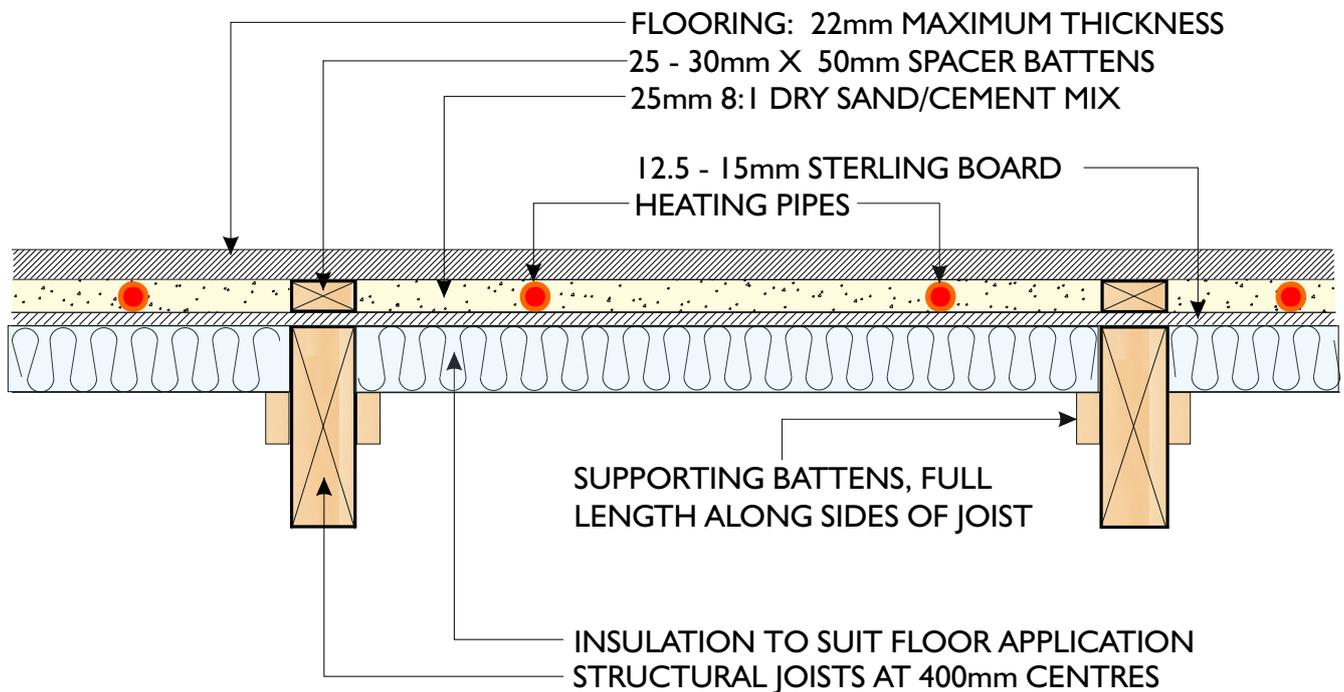


PIPE INSTALLATION ON A SUSPENDED TIMBER FLOOR



Important: It is essential that the battens are fixed through the sub-base into the joists below using screws or heavy duty long ring-shafted nails. If smooth shafted nails are used this will result in a noisy floor. The stability of the final floor covering will only be equal to the stability of the battens, so it is imperative that the battens are securely fixed to prevent movement.

Floor joist spacing should not be greater than 400mm centres. Sterling board or similar material provides a sub-base onto which the pipes are attached. Spacer battens are used between the sub-floor and the final flooring material. These battens must not be less than 25mm thick (recommended 30mm).

If installing on attic trusses with spacing greater than 400mm, lateral supports will need to be installed between the trusses at 1m spacings to facilitate the ufh installation to prevent sagging between the trusses.

The battens are screwed through the sub-base into the joists and around the perimeter of each room. Leave the ends of the battens above the joists clear by 100mm to allow the pipes to pass from one space to the other.

The space around the pipes is infilled with a dry sand/cement mix which provides the thermal mass needed to conduct the heat into the floor. The floor weight is approximately 30 Kg per square metre at 25mm batten thickness. It is the responsibility of the architect, structural engineer, builder, or project manager to ensure that the joists are engineered to bear the load.

Insulation: Rigid insulation boards must be used for ground floors, recommended 125mm fitted hard up against the under side of the sub-base and fully supported by battens fixed to the joists. Mineral wool or similar can be used for upper floors, but all through draughts between the joists must be eliminated.

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