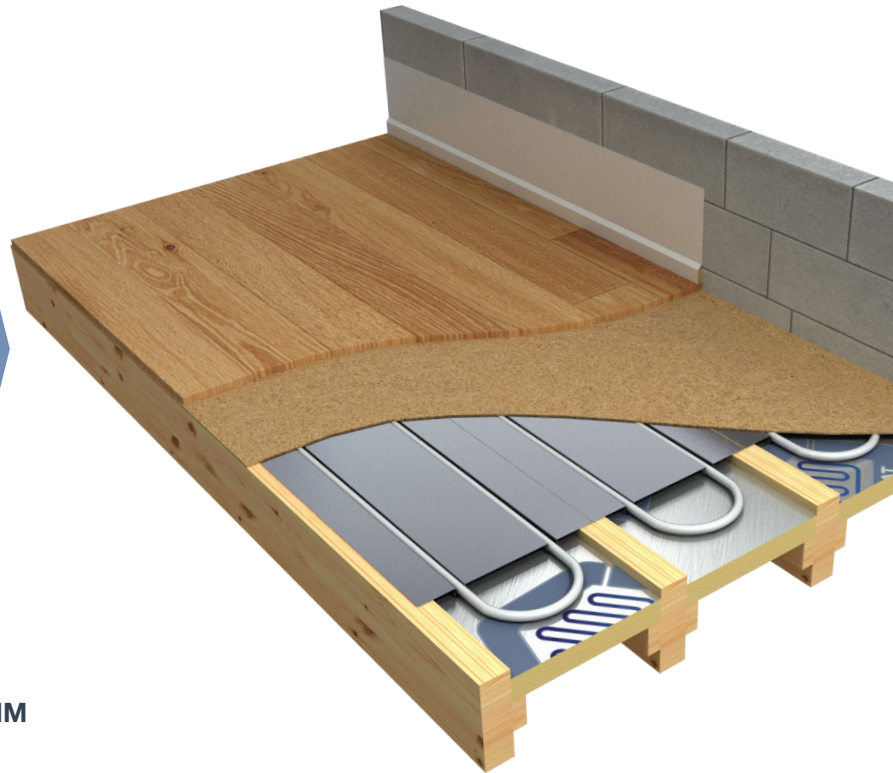




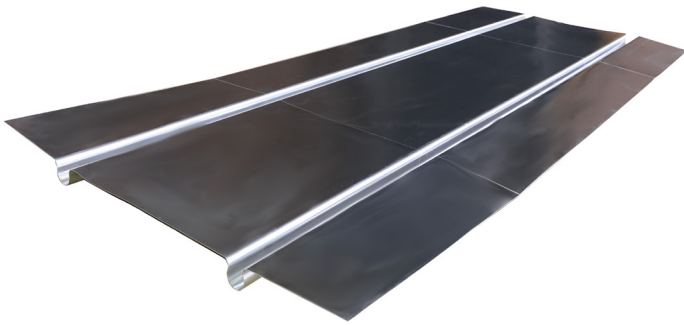
## Timber Suspended – From Above Plates Floor Construction – FC2 B&C

### KEY BENEFITS >>>

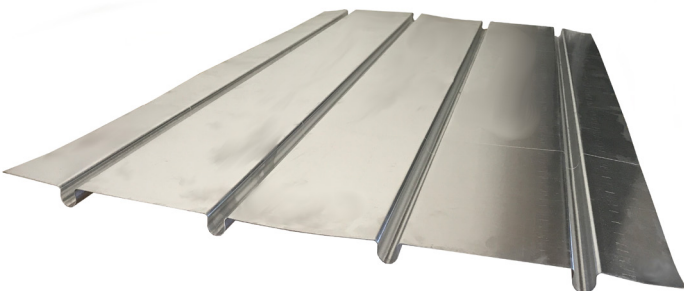
- > Ideal for retrofitting underfloor heating or as an alternative to screed floors.
- > Lightweight system, used in applications where increasing weight on floor joists is to be avoided.
- > Works well with heat pumps and renewable heating technologies.
- > No increase in floor height build up.
- > Suitable for all floor finishes.
- > Plates 'snap off' into thirds.



#### ✓ LUXUSHEAT SNAP HEAT PLATE 1000X390X0.5MM TSHP400



#### ✓ LUXUSHEAT SNAP HEAT PLATE 1000X590X0.7MM TSHP600



### < OVERVIEW

UFH pipework can be laid between timber joists with the help of heat emission plates. The plates are generally designed for suspension over joists at 400mm centres and are manufactured with grooves set at 200mm centres that the pipe is clipped into.

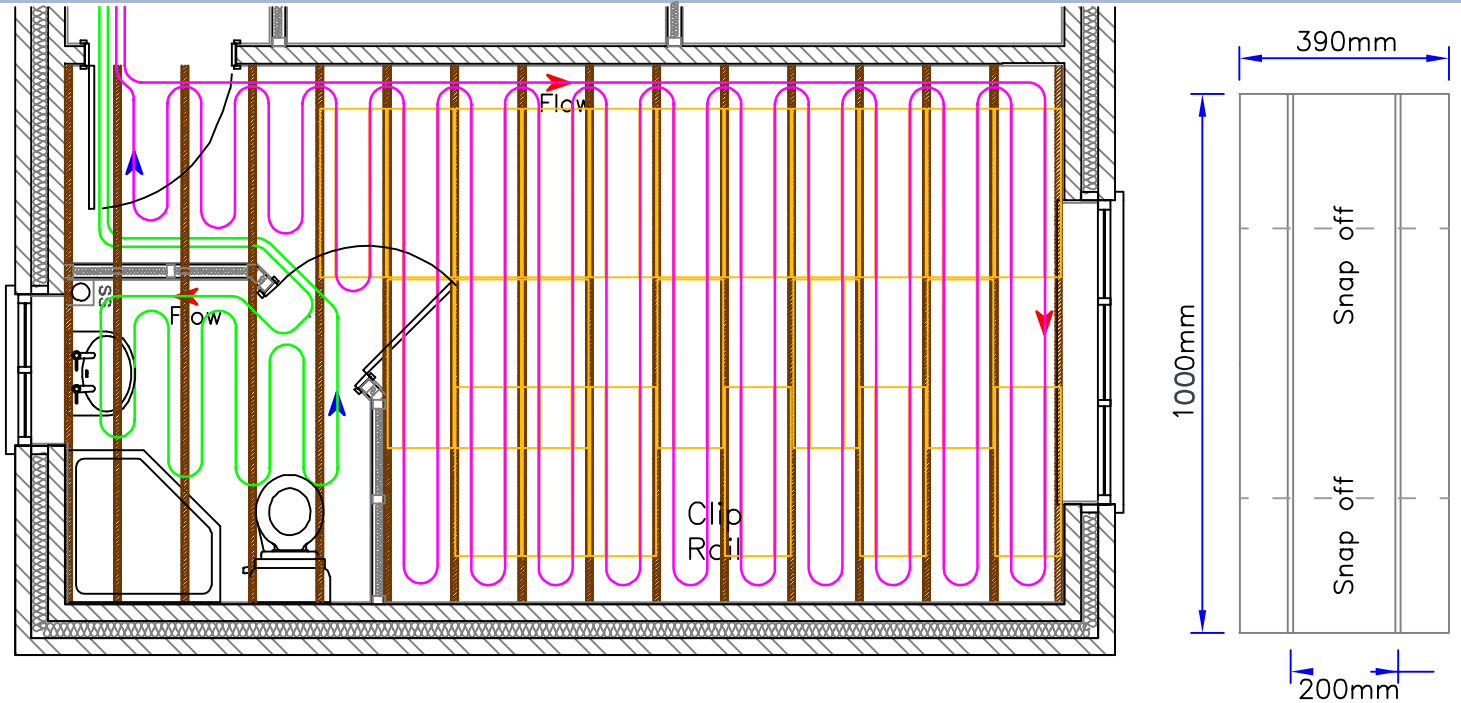
The joist centres are different to the above, cross battening is an alternative option to employ.

It is essential that the insulation is installed between joists as close to the underside of the plates as possible. Typically a minimum 100mm of mineral wool is used, or what conforms to all parts of the Building Regulations.

- Best suited for FlexiPex 16mm Pipe
- Maximum Outputs :- 70w/m<sup>2</sup>
- Flow Temperature :- 45 – 58°C
- BS EN 1264 Design on request.

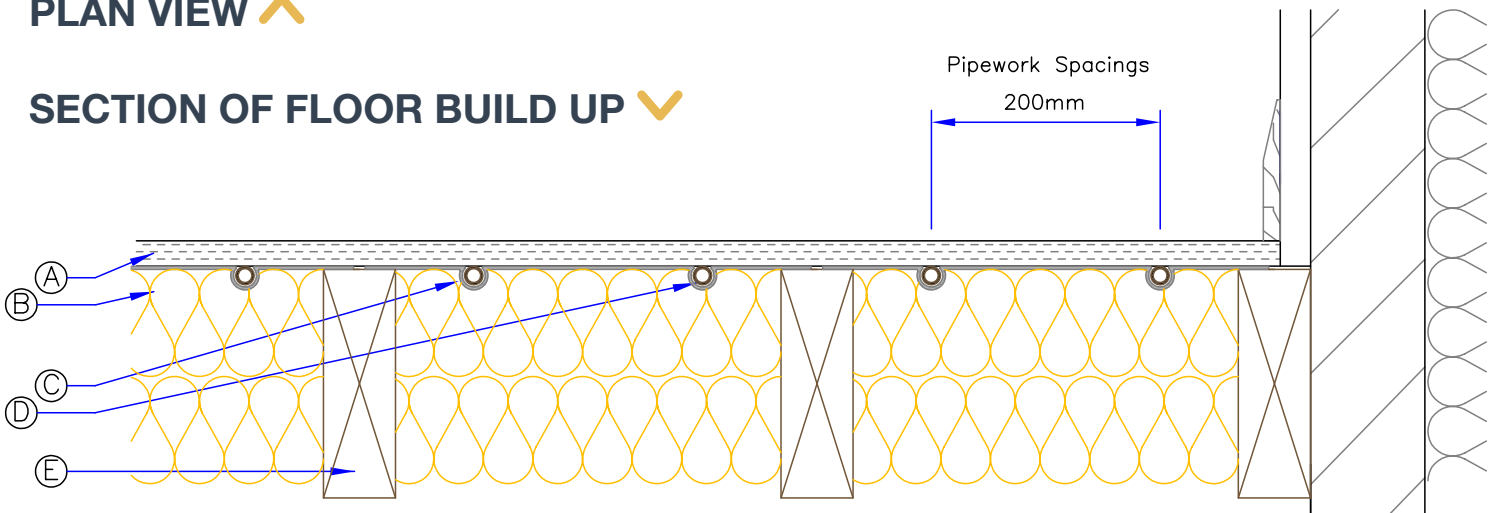


## Timber Suspended – From Above Plates Floor Construction – FC2 B&C



### PLAN VIEW ^

### SECTION OF FLOOR BUILD UP v



**A > Floor Finish.**

**B > Insulation** - On intermediate floors with heated rooms below an insulation resistance of  $0.75\text{m}^2 \text{ k/W}$  is required to comply with BS EN 1264.

**C > Aluminium Heat Emission Plate (390 x 1000 x 0.5mm)** Stapled to 400mm c/c Joists.

**D > UFH Pipe** - Lux Pert-Al-Pert or FlexiPex 16mm Heating Pipework laid at 200mm centres unless specified in quotation and laid approximately 100mm away from walls.

**E > Joist.**

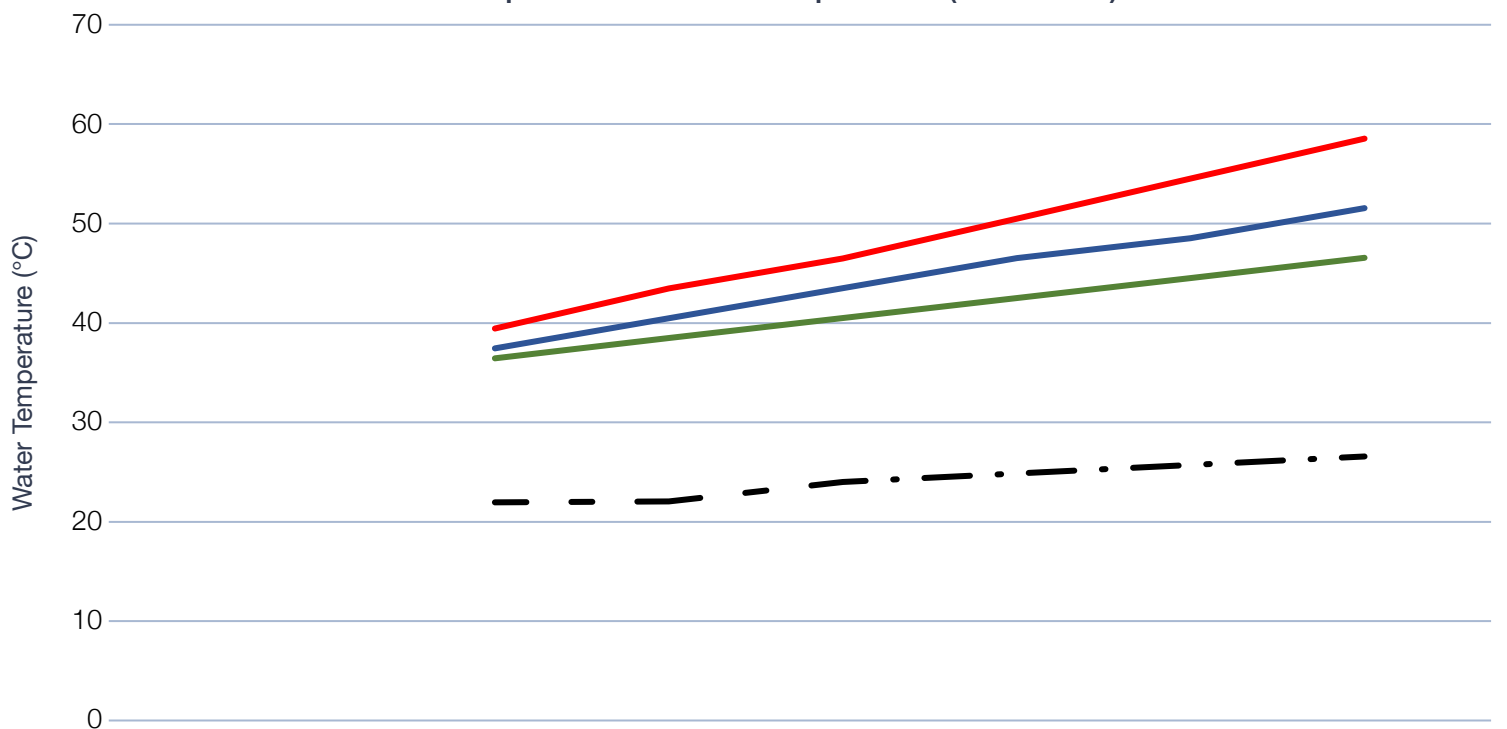


## Timber Suspended – From Above Plates Floor Construction – FC2 B&C

### OUTPUTS/WATER TEMPERATURES & FLOOR COVERINGS >

The available output of the system will vary depending on the overall resistance of the floor finish. Based on a design room temperature of 20°C & 7.5K ΔT. The table below is for guidance only and actual outputs and temperatures may vary.

Heat output / Flow water Temperature (Heat Plate)



Output w/m<sup>2</sup>

|                  | 20 | 30 | 40 | 50 | 60 | 70 |
|------------------|----|----|----|----|----|----|
| Tile / Stone     | 37 | 39 | 41 | 43 | 45 | 47 |
| Laminate / Vinyl | 38 | 41 | 44 | 47 | 49 | 52 |
| Carpet           | 40 | 44 | 47 | 51 | 55 | 59 |
| Floor Temp       | 22 | 22 | 24 | 25 | 26 | 27 |