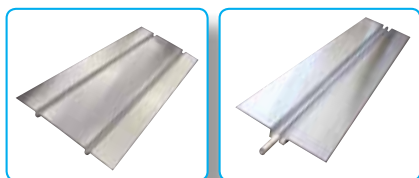


## Installing JG UFH Plate System - From Above

JG Speedfit's plate system is designed for use in timber suspended or battened floors, the floor system uses aluminium single or double spreader plates to transmit the heat evenly across the finished floor surface.

They can be used as illustrated, below a floor supported on insulation. Alternatively, where there will be a secondary layer of floor placed above a sheet sub floor the plates can be sandwiched between the floor layers supported on battens. With a twin layer floor this second method is recommended as it removes a layer of resistance to heat transfer.



Part No.	Description
JGUFHSP400	390MM X 1000MM
JGUFHSP250	390MM X 250MM
JGUFHSP165	165MM X 1000MM

**STEP 1.** Plates need to be supported so that they sit level and make a good contact with the floor placed on them from above. Maintaining this contact is essential in producing good heat transfer performance.

**STEP 4.** Fix the plates to the top of the joists ensuring the fixing will not protrude and prevent the floor from having a good contact with the floor. 18mm staples fixed using an air stapler is the preferred method. Allow 300mm for pipe end returns and a 15mm gap between plates. Use a short length of pipe pressed into the grooves to line up the plates before fixing.

**STEP 2.** Some time spent planning the installation will save time later and make installation easier. The main consideration is the amount of runs and the route those pipes will take from the manifold.

**STEP 5.** Run the pipework to the designed or desired pattern being careful to ensure the plates remain flush with the top of the joists. The pipework can enter the plate system at either end or in the centre, pipework can be cabled through joists or via grooves at the top of the joists. Consult building regulations to ensure compliance.

**STEP 3.** Battens should be fixed along the length of the joist, 15mm plus the depth of insulation board being used down from the top of the joists in order to support the insulation along its length. This will allow a 15mm gap between the surface of the insulation and the top of the joist.

**STEP 6.** Before fixing the floor to the joists it is recommended that a thin sheet of plastic is placed over the plates. This will act as a slip membrane to cut down expansion noises as the plates heat up and rub against the bottom of the finished floor.

### KEY DATA

- Approx. Coverage Double Plates - 2 Plates per 1m<sup>2</sup> 1 box of 10 = 5m<sup>2</sup>
- Approx. Coverage Single Plates
- Recommended Design Temperature 60°C - Maximum Heat Output Approx. 70W/m

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