



Timber flooring

16mm Ambiente UFH pipe

Aluminium diffuser plate  
(200 x 1000mm)

Suspended timber floor joists

Minimum 100mm rockwool type insulation

Image from below



## System Overview

The UnderPlate® system enables installation from underneath - ideal for retro-fit scenarios when the floor finish is already in place.

It is important as with all plated systems that that joist void is well insulated - normally 100mm of mineral wool type insulation.

When installing from underneath, fix the underplates with screws, typically 3-4pcs per plate. Length of screws shouldn't exceed the depth of the floor deck from above.

The aluminium diffuser plates are then installed, fixed to the underside of the floor boarding. The aluminium plates can only be laid on straight pipe runs and typically cover about 60% of the heated floor area. The pipework is then installed into the diffuser plates from underneath.

The reflective properties of the aluminium diffuser plates mean that any heat is efficiently pushed up through the sub-floor layers for maximum heat output.

## Key Features

- **Retrofit-Friendly** - Installs from beneath without removing existing flooring
- **High Efficiency** - Reflective aluminium plates deliver up to 70 W/m<sup>2</sup> heat output
- **No Floor Build-Up** - Maintains existing floor height for easy retrofit
- **Rapid Response** - Aluminium plates provide fast, even heat distribution

PERFORMANCE SPECIFICATION		
20°C ROOM TEMPERATURE AT MWT OF 45°C AND 0 TOG		
HEIGHT (MM)	WEIGHT (KG/M <sup>2</sup> )	OUTPUT (W/M <sup>2</sup> )
<b>0</b>	<b>3</b>	<b>70*</b>

Tested in accordance with BS EN1264-2:2021  
\* 200mm pipe spacings