



## Fit-From Above Aluminium Spreader Plates

The ThermRite Aluminium spreader plates are used in the installation of underfloor heating systems. These plates help in distributing heat evenly across the floor surface.



Here is some important information about the use and installation of these plates:

- Before fixing the floor to the joists, it is recommended to place a thin sheet of plastic over the plates. This acts as a slip membrane to reduce expansion noises and friction between the plates and the finished floor.
- 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. This supports the insulation along its length and allows a 15mm gap between the surface of the insulation and the top of the joist.
- The plates are fixed to the top of the joists using 18mm staples. Care should be taken to ensure that the fixing does not protrude and prevent good contact with the floor. Allow a 200mm - 250mm gap for pipe end returns and a 15mm gap between plates. Before fixing, use a short length of pipe pressed into the grooves to line up the plates.
- The pipe work should be run to the desired pattern while ensuring that the plates remain flush with the top of the joists. The pipework can enter the plate system at either end or in the centre. It can be cabled through joists or via grooves at the top of the joists.
- The heat output of the aluminium spreader plates depends on the floor covering and the flow/return temperature of the system. Different types of floor coverings have different tog values and require different temperature settings for optimal heat output.

FLOW/RETURN TEMPERATURE	TILES	WOOD FLOOR	CARPET (1.5 MAX TOG)
	HEAT OUTPUT W/m <sup>2</sup> BASED ON 150MM PIPE SPACINGS		
50/45	70	58	41
45/40	54	41	35
40/35	39	23	25
35/30	24	19	15
FLOW/RETURN TEMPERATURE	TILES	WOOD FLOOR	CARPET (1.5 MAX TOG)
	HEAT OUTPUT W/m <sup>2</sup> BASED ON 200MM PIPE SPACINGS		
50/45	64	53	39
45/40	49	38	33
40/35	35	20	22
35/30	21	17	13

This is just a summary of the installation guide for ThermRite aluminium spreader plates. If you need more detailed information or have any further enquiries, you can contact us via email at [info@tfhw.co.uk](mailto:info@tfhw.co.uk) or by phone at 02033 367444.