

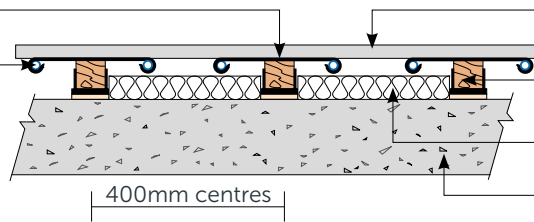
Floor installation instructions

ATPAK14 – 14mm Fastflo™ with ClippaPlate™ in a resilient batten or resilient saddle system with Knauf board

Supplied by Nu-Heat

Nu-Heat ClippaPlate™

14mm Fastflo™ tubing



Supplied by others

Knauf board*

Resilient batten or resilient saddle system conforming to *Robust Details* handbook

Mineral wool insulation

Concrete structural floor conforming to the *Robust Details* handbook

* Can be supplied by Nu-Heat

TECHNICAL INFORMATION

Insulation

In order to offset downward heat transmission, Nu-Heat requires mineral wool to be fitted between the battens. This can be fitted either before or after installing the ClippaPlate™ and tubing. If the area below is unheated, the combined R value of the floor insulation must be at least 1.5m²K/W or comply with Part L of building regulations – whichever is greater. Additional insulation may be placed in the ceiling void. In intermediate floors above heated spaces, an R value of 0.75m²K/W is acceptable.

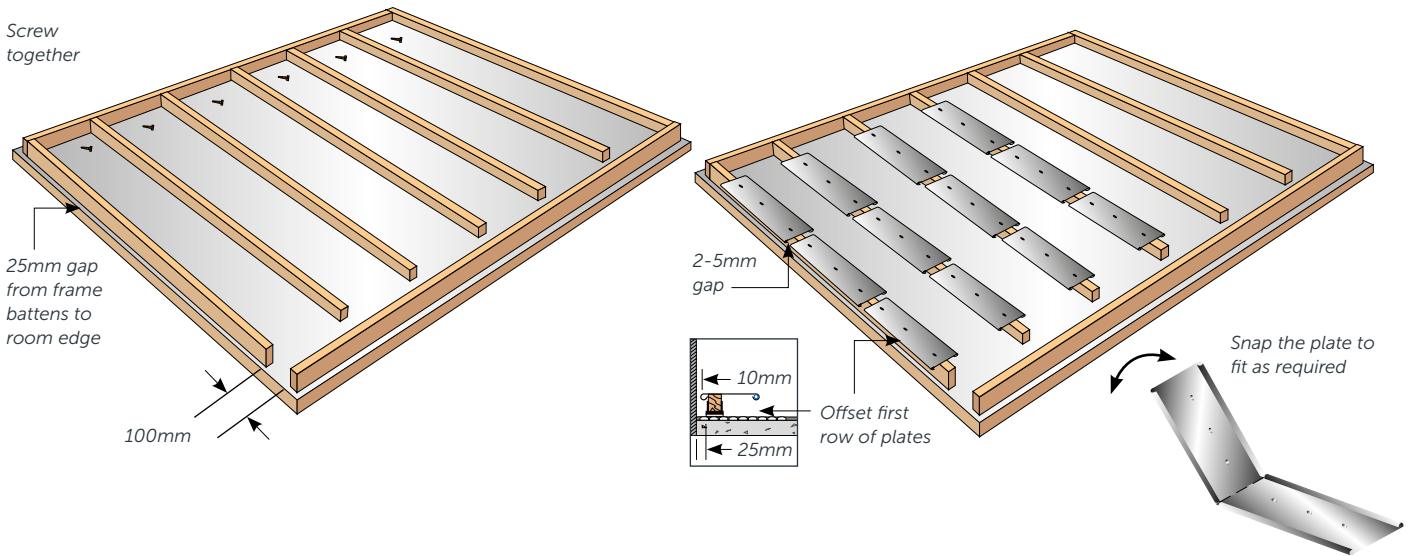
Acoustic bridging

It is important that there is no contact between any elements of the underfloor heating or deck and the structural floor. Ensure that all loose Fastflo™ pipework is either fixed to the battens using the nail clips provided, or it is seated on mineral wool. It must not contact the concrete structural floor.

Resilient battens / saddle system

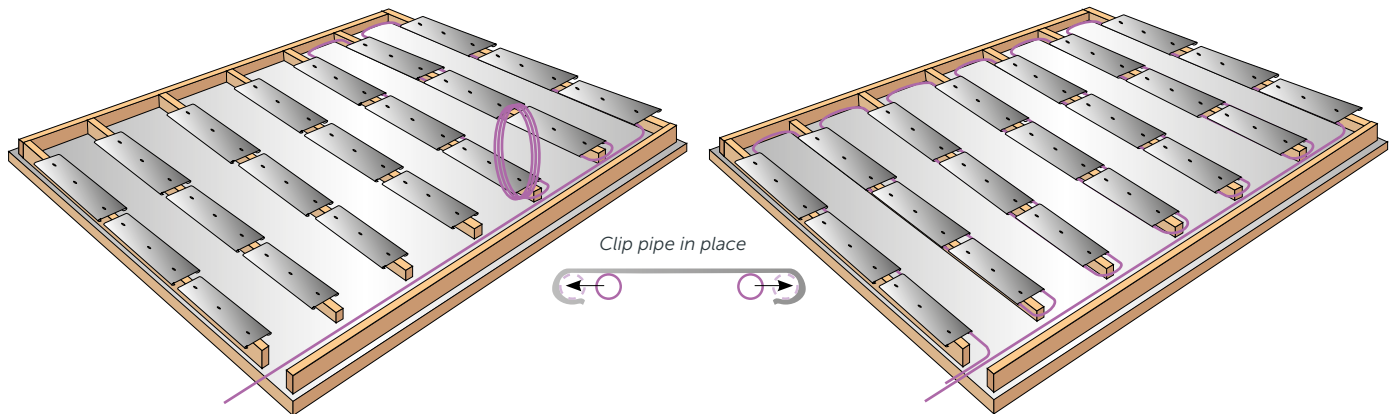
The system must be installed according to the manufacturer's instructions. Use their proprietary resilient acoustic flanking strip around the perimeter of the room.

SEQUENCE OF CONSTRUCTING THE FLOOR

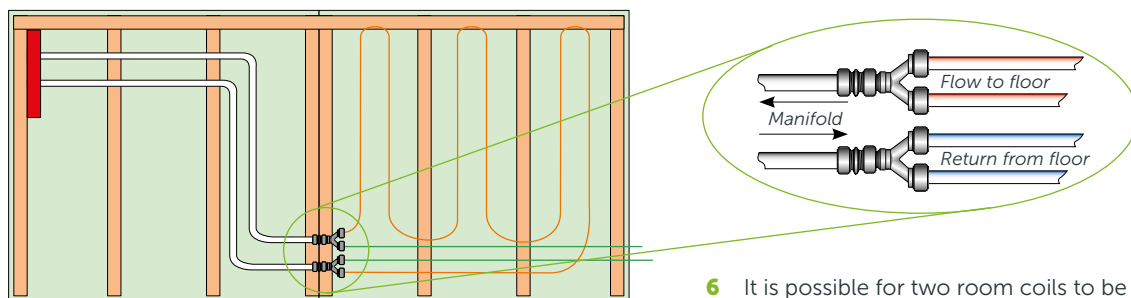


- 1** Lay resilient battens across the room at 400mm centres leaving clearances as illustrated here.
- 2** Fit mineral wool between the battens.
- 3** Ensure the ClippaPlate™ is fixed in place approximately 100mm from the end of the batten. Leave approx. 2-5mm gap between each plate. Offset the plates at the edge of the room.

SEQUENCE OF LAYING THE HEATING TUBE IN THE FLOOR

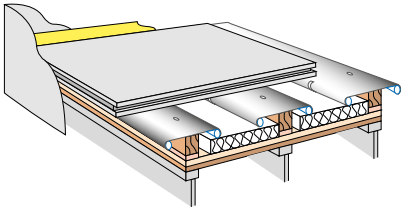


- 4** Starting at the batten farthest from the manifold, installer A holds the pipe coil and feeds a loop between the first 2 rows of plates to installer B. Installer B takes the loop to the end of the bay and clips it either side and below both rows of ClippaPlate™.
- 5** Follow this procedure for all plated battens across the room.



- 6** It is possible for two room coils to be fed by larger bore flow and return pipework, attached dual couplings. This method can simplify installation. The two coils must be of equal length.

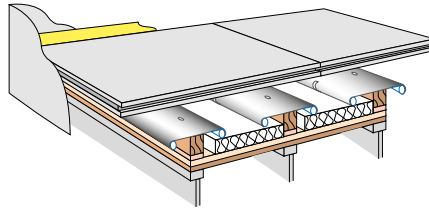
SEQUENCE OF LAYING THE KNAUF BOARD



7 Install Knauf 12mmx100mm flanking strip around the floor perimeter.

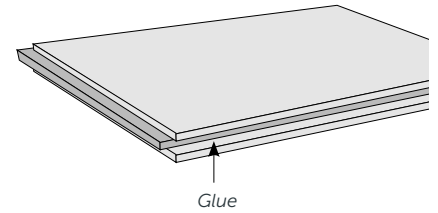
It is important that none of the ClippaPlate™ fixings are allowed to protrude above the level of the plate.

The Knauf board should be installed printed side upward. Any board edges next to walls need to have the rebate removed. The boards can be cut using a jigsaw or circular saw.



8 Take the first board with the printed side upwards and remove the overhang from one edge and one end. Place this board in the first corner, across the battens.

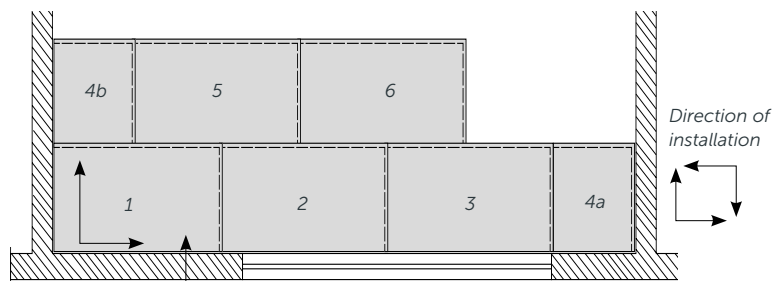
9 Cut the overhang from the long edge on the next board so that it will fit against the wall. Apply two parallel beads of Knauf Rebate Glue ("Knauf Falzkleber") to the first board. Fit the second board and ensure that it is butted to the first board as closely as possible.



10 Continue across the room gluing each joint, trimming the last board to fit. The off cut from this last board will start the next row (pieces of less than 200mm/8" should not be used).

11 Continue laying across the floor. The joints in both the Knauf board should be staggered – see following diagram.

Note: when the flooring passes through doorways the board should be cut to form a continuous section through the doorway. The board should be supported adequately by acoustic battens.



Install Knauf board from the far right corner. Use remaining pieces as beginning of the next row.