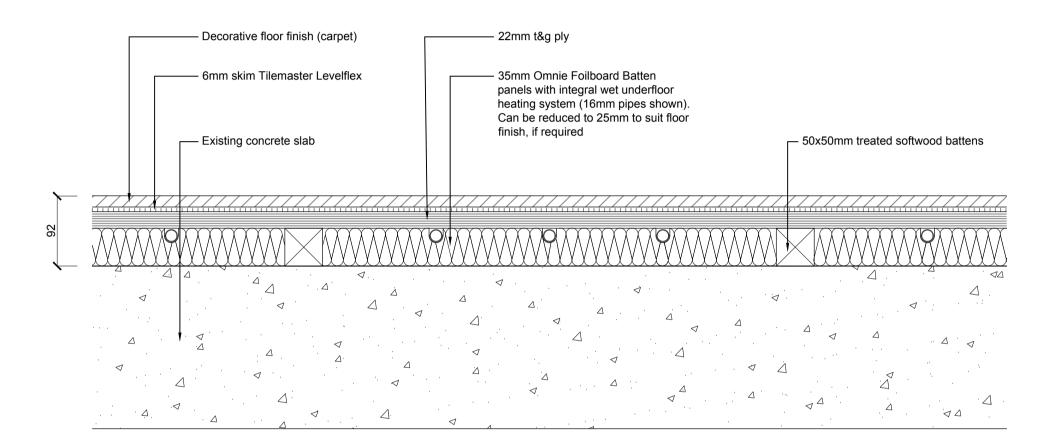


NEW UNDERFLOOR HEATING EXISTING GROUND FLOOR - TILE FINISH

DETAIL .



NEW UNDERFLOOR HEATING

EXISTING GROUND FLOOR - DECORATIVE FLOOR FINISH SCALE 1:5

DETAIL K

Listed Building Consent Ref: LBC SMD/2017/0233 Condition 11

OMNIE FOILBOARD BATTEN METHOD OF INSTALLATION

1) STORAGE OF UNDERFLOOR HEATING, PRIOR TO INSTALLATION

- Store in a dry, weather tight area Out of direct sunlight
- Away from sharp objects or chemical spillages

2) SITE PREPARATION

- Ensure existing slab/floor deck meets at least SR2 (5mm deviation in 2m) requirements for floor regularity (BS8204) and preferably SR1 (3mm deviation in 2m).
- The floor finish company may have their own requirements which take precedent.

- Lay battens of the same thickness as the FoilBoard around the perimeter of the room.

4) LAYING THE INSULATION BOARDS

- Starting in the corner of the room, lay (do not glue or mechanically fix) the FoilBoard across the floor in a run. Use the off cuts to start the next run of panels, ensuring that the return loops line up. Between each run, lay battens of the same thickness as the FoilBoard. - Use plain insulation of the same grade and thickness to complete the insulation layer in unheated areas or where necessary.

5) CHANNELS FOR HEATING PIPES

- Use a hot blade cutter to create channels for flows and returns where required (especially approaching the manifold).

6) INSERT HEATING PIPEWORK

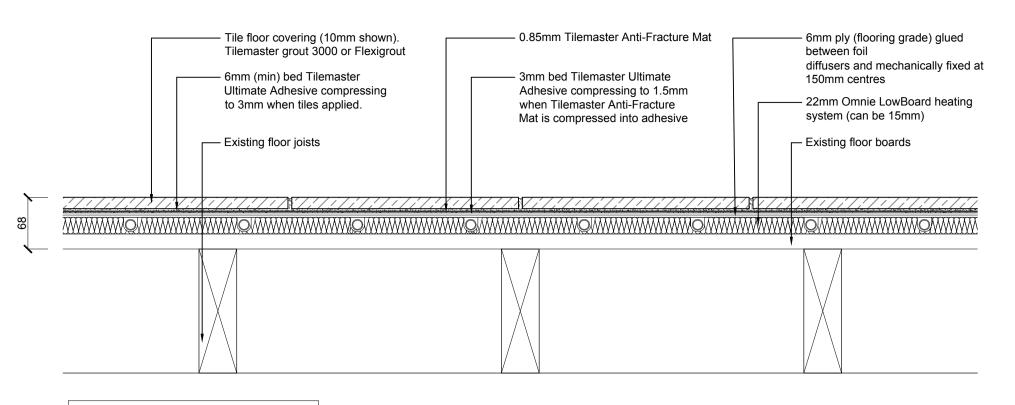
- Starting at the manifold and referring to the manufacturer's instructions, insert the underfloor heating pipework into the FoilBoard panels by piercing the foil layer. Continue laying the pipe until all circuits have been laid. Where pipe passes from one inter batten space to the next notch battens to suit.
- The minimum temperature for laying the pipe should be +5°C. - If the pipework is kinked during the installation, the coil must be replaced or the pipe repaired with an OMNIE connector and then pressure tested. No connections should be made unless fully accessible following the completion of the finished floor.

- Once the panels have been laid, they should be protected with walking boards (especially in areas with high levels of foot traffic).

8) PRESSURE TEST THE SYSTEM

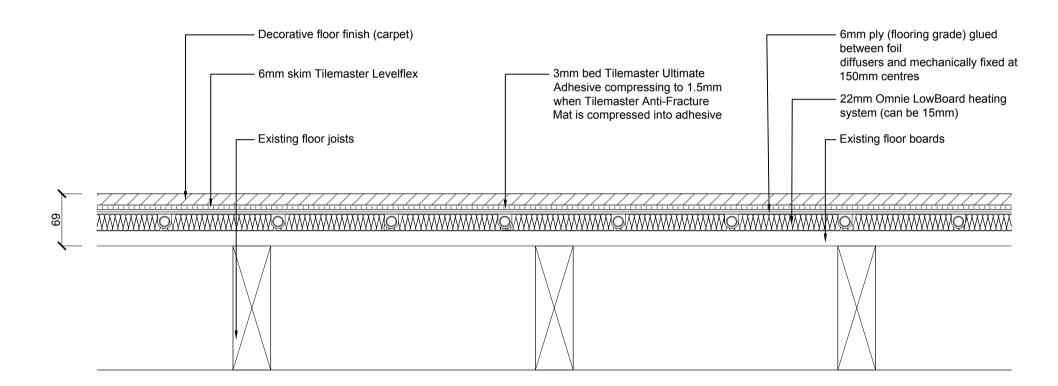
- Once the panels and pipe have been installed, the circuits should be hydraulically pressure tested. It is preferable for the pipe to be kept under pressure while the covering deck is laid. If this is not possible, the pressure test must be carried out for a second time once the covering deck has been installed.

All to be carried out in strict accordance with the manufacturer's



NEW UNDERFLOOR HEATING EXISTING FIRST FLOOR - TILE FINISH SCALE 1:5

DETAIL L



NEW UNDERFLOOR HEATING

EXISTING FIRST FLOOR - DECORATIVE FLOOR FINISH SCALE 1:5

DETAIL M

Listed Building Consent Ref: LBC SMD/2017/0233 Condition 11

OMNIE LOWBOARD 22 METHOD OF INSTALLATION

1) STORAGE OF UNDERFLOOR HEATING, PRIOR TO INSTALLATION

- Store in a dry, weather tight area Out of direct sunlight
- Away from sharp objects or chemical spillages - All chipboard, woodboard or plywood must be stacked horizontally and raised off the ground. It must not be exposed to moisture or high

Note: For tile & Decorative floor finishes refer Tilemaster Adhesives Ltd specification guide or obtain specific conformation and guidance from floor finish installer or manufacturer/supplier.

Note: Any undulations in the floor will transfer through the LowBoard. If laying on a solid floor, a thin layer of non-compressive insulation/insulative matting can be laid prior to fitting LowBoard 22 to provide some resistance when layering over a floor. (Not applicable when laying tiles or decorative finishes see note above)

2) SITE PREPARATION

- Where flows and returns are planned to run along a wall, lay a 50mm wide x 15mm high batten or LowBoard 22 offcut against the wall.

3) LAYING THE INSULATION BOARDS

- Starting from one corner, lay the first LowBoard 22 panel. Leave the following gaps when laying the panels:
- 75mm gap between the panel and the batten 10mm gap between the panel and the wall (using a spacer)
- Continue laying the LowBoard panels across the floor in a 'run'. Fully glue together the tongue and groove panels. Use the off cuts to start the next run of panels.

4) MULTIPLE FLOWS AND RETURNS

- If there are multiple flows and returns that cannot be accommodated in the pre-routed channel (such as the approach to the manifold), use one of the following methods:
- a) Leave a 75mm gap between LowBoard 15 panels b) Lay 50mm wide x 15mm high battens with a 75mm gap between
- c) Hand rout the required 12mm channels in the LowBoard panels

Refer to the manufacturer's instructions for further information.

5) INSERT HEATING PIPEWORK - Starting at the manifold and referring to the OMNIE CAD design,

insert the pipe into the LowBoard 22 panels by piercing the foil layer. Continue laying the pipe until all circuits have been laid. - The minimum temperature for laying the pipe should be +5°C.

NOTE: If the pipe work is kinked during the installation, the coil must be replaced or the pipe repaired with an OMNIE connector (where possible) and then pressure tested. No connections should be made unless fully accessible following the completion of the finished floor.

6) PRESSURE TESTING

- Once the panels and pipe have been laid, the circuits should be hydraulically pressure tested and kept under pressure while the floor finish and/or covering ply or similar are laid.

SCALE 1:50

revisions

ref	date		drawn	chk'd
Α	20/07/18	First floor spec amended	KM	СМ

notes for construction

1. This drawing shall not be scaled to

ascertain dimensions 2. Dimensions shall be checked and verified prior to work being commenced

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Cloud House Farm Toft Green, Congleton CW12 3QF for Mr & Mrs Needham

Proposed Floor Details to **Existing House**

	0500 0	0.04		revisio		
drawn	KM	checked	СМ			
date	June 2018					
scale	1:5 @A1					

number | 3590_23_01