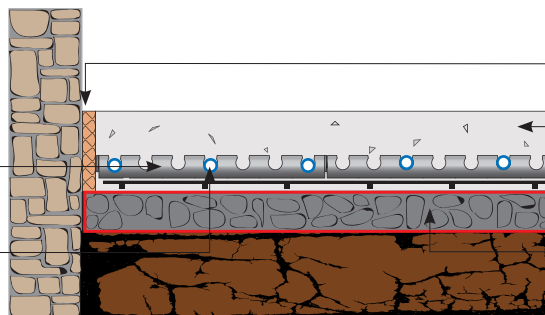


Floor installation instructions

SCLM14 – 14mm Fastflo® in Cliptrack® fixed to mesh with lime-based screed

Supplied by Nu-Heat

Cliptrack®
Cable ties (not shown)
14mm Fastflo® tubing



Supplied by others

Cork perimeter strip
Lime screed
Mesh
Geotextile membrane
Aggregate
Subsoil

FLOOR HEATING TUBE

Nu-Heat's 14mm Fastflo® tubing is extremely flexible which means that it can easily be installed around the numerous turns typical to any design. The use of multiple, shorter Fastflo® coils within each temperature control zone means the tubing is installed at closer centres, suitable even for low temperature heat sources such as heat pumps.

INSULATION

Insulation should conform to Part L of the Building Regulations in relation to lime-based construction.

Note: An expansion strip (cork or equivalent) should be fitted around all walls as an expansion medium. This should be the full depth of the floor insulation and screed. On external walls additional insulation material may be required to comply with Building Regulations.

FLOOR STRUCTURE

Take advice from the lime screed supplier.

The screed must be sufficiently dry before coverings may be applied.

EXPANSION JOINTS

Expansion joints must be incorporated in areas over 40m², or with length greater than 8m and across doorways and other changes of section. Where tube passes across expansion joints it must be covered with sleeving for at least 200mm either side.

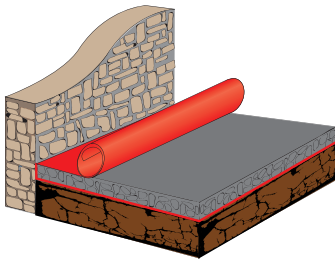
WARRANTIES/INSURANCE

Manufacturer's warranty: all UFH tube supplied by Nu-Heat is covered by a 50-year warranty, the first 10 years of which are insurance-backed.

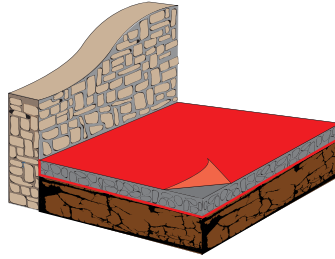
Product liability: Nu-Heat maintains product liability insurance to £5 million.

Professional indemnity: As Nu-Heat's design service is integral to the operational effectiveness of the UFH system, the company holds professional indemnity insurance of £5 million to cover all aspects of our consultation and design services.

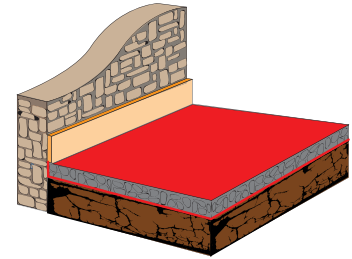
SEQUENCE OF LAYING THE FLOOR



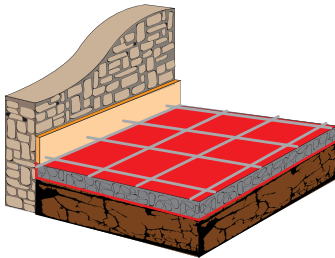
- 1** Lay the geotextile membrane over the subsoil in accordance with supplier instructions and current Building Regulations. Install aggregate material on top in accordance with supplier instructions.



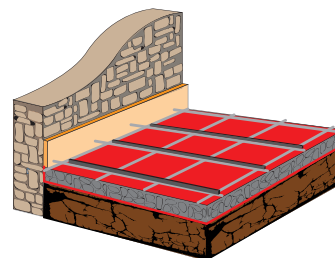
- 2** Fold the geotextile membrane over the top of the aggregate to create an envelope.



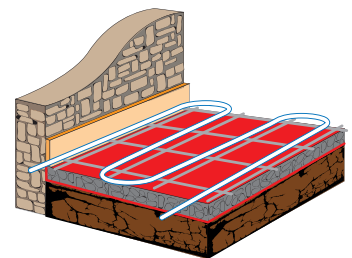
- 3** Place the cork perimeter board around the edges of the room to form an expansion medium.



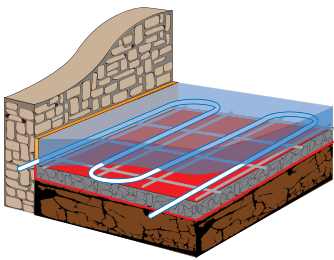
- 4** Lay mesh across the entire floor.



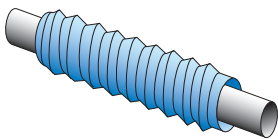
- 5** Fix Cliptrack® to the mesh at 1m intervals as shown on the CAD using the cable ties supplied.



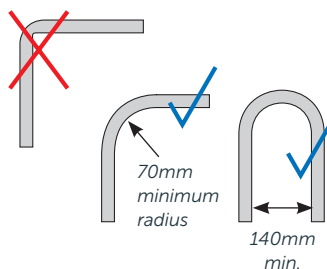
- 6** Install the Fastflo® tube as in the instructions on the following page.



- 7** Screed the floor whilst the system is under 1 Bar pressure. (For commercial applications a minimum screed thickness of 75mm is required. The floor heating tube must be at least 25mm from the surface of the screed.)



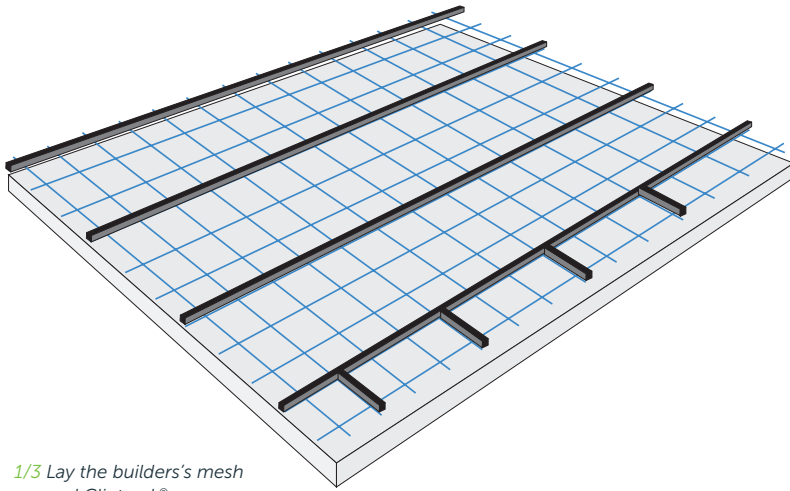
Notes: On floor areas over 40m² a protective sleeve should be used to cover pipe where it crosses expansion joints. Please contact Nu-Heat for supply.



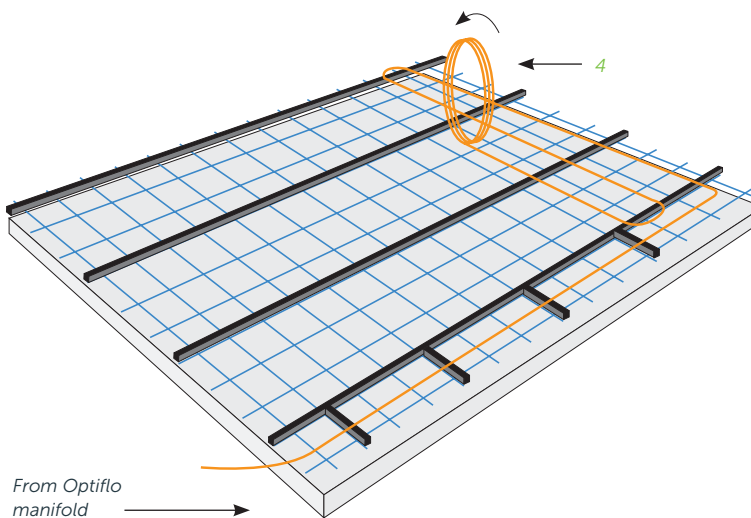
Never kink the Fastflo® floor heating tube as this will damage the pipe and restrict water flow.



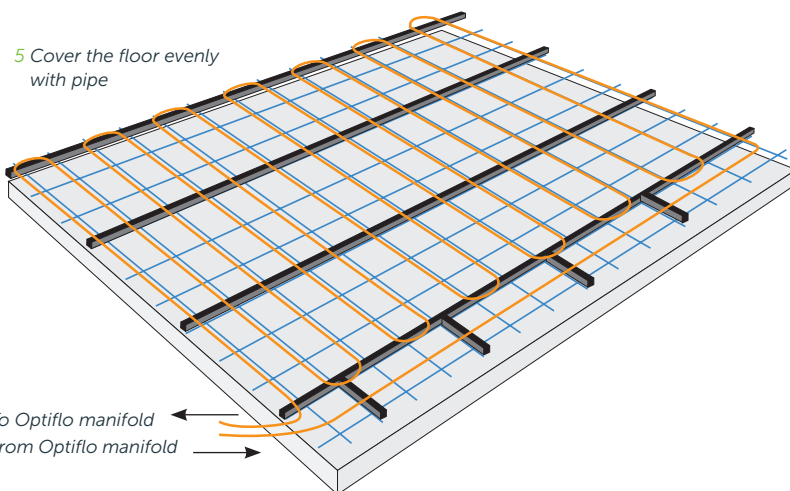
SEQUENCE OF LAYING THE HEATING TUBE IN THE FLOOR



1/3 Lay the builders' mesh and Cliptrack®



From Optiflo manifold



5 Cover the floor evenly with pipe

- 1 Lay mesh over the entire floor.
 - 2 Check the pipe layout of the room on the system plans.
 - 3 Cable-tie the Cliptrack® to the mesh at 1m intervals so that the pipe can run in the orientation shown on the CAD.
 - 4 With one end of the pipe connected to the Optiflo manifold, start unrolling the pipe securing it into the Cliptrack® as you go. Follow the layout shown on the system plans making sure to use the correct spacing as detailed.
 - 5 Continue working across the floor and back to the Optiflo manifold making sure the floor is fully and evenly covered with pipe.
 - 6 When the correct amount of pipe is laid in the floor, trim and connect to the return manifold as described in the *Installation Manual*.
- Note:** There may be more than one coil of pipe specified in a zone.
- 7 Pressure test the system as described in the *Installation Manual*.

