UNDERFLOOR HEATING

Nu-Heat UNDERFLOOR & RENEWABLES

Floor constructions

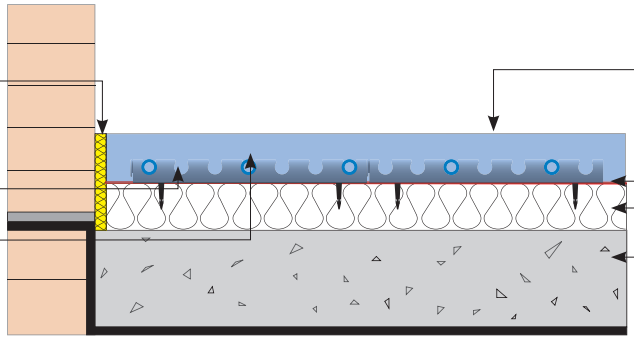
SC17 & SL17 – 17mm Fastflo™ in screed with Cliptrack

Supplied by Nu-Heat

Edge isolation strip

Nu-Heat cliptrack with self-adhesive backing

17mm Fastflo™ tubing



Supplied by others

Liquid or standard screed

125–250µm polythene protection layer

Insulation

Concrete slab

FLOOR HEATING TUBE

Nu-Heat's 17mm Fastflo™ tubing used within this floor construction is ideally suited to larger open plan areas. The longer coil length utilized offers a simplified installation, allowing greater areas to be covered with each coil and reducing any clustering of tube close to the manifold. In order to keep wastage to a minimum and help meet the requirements of the site waste management plan, tubing is supplied in larger coils and cut to length on site in accordance with the CAD design supplied by Nu-Heat.

INSULATION

In ground floors the insulation beneath the screed should meet the requirements of Part L of the Building Regulations.

In upper floors insulation should be a minimum of 30mm rigid insulation board to prevent downward heat transmission. Apart from the edge isolation strip for the perimeter, which is supplied by Nu-Heat, these materials and the polythene protection layer are standard and are most economically sourced from local builders' merchants.

Note: The edge isolation strip supplied by Nu-Heat 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 will be required to comply with Building Regulations.

FLOOR STRUCTURE

Overlap and tape the slip layer and polythene apron of the edge insulation. Care should be taken to ensure good contact between the underfloor heating tubes and the screed. It is important that the screed is as dense and consistent as possible to aid heat transfer.

Sand and cement screed should be laid to a minimum depth of 65mm; liquid screed should be laid at a minimum depth of 50mm.

Cliptrack: Installed at each end of a room or pipe run to ensure an even heat output across the entire floor surface.

Staples: Are used to fix tube between cliprails, around loops and at the manifold, providing further anchorage and ensuring the tube is held in place securely during screeding. When a liquid screed is used additional staples are provided to allow the tube to be fixed at 500mm centres.

EXPANSION JOINTS

Expansion joints must be incorporated in areas over 40m^2, 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.

EXTRAS

STAPGUN18-C staple gun	**Optional**
UTD4-C tube de-coiler	**Optional**

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.