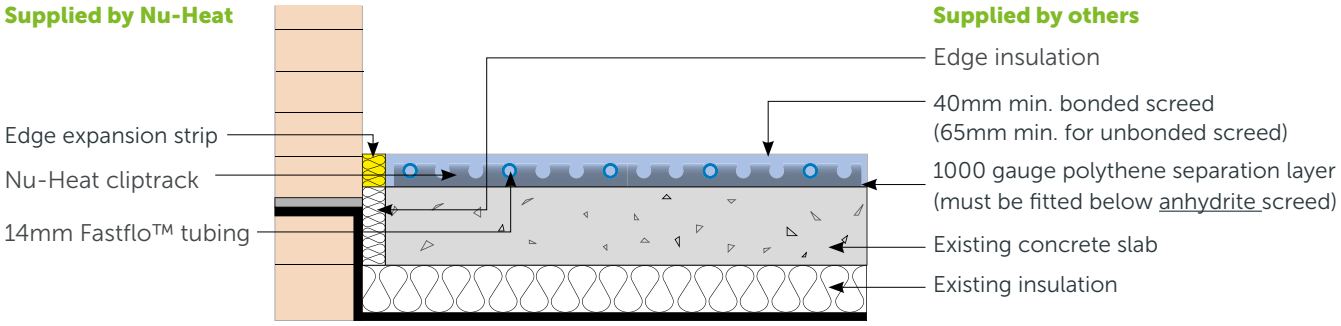
# SCS14 – 14mm Fastflo™ in screed with Cliptrack for installation directly over an existing slab




## 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

Ground floors: The insulation beneath the floor slab should be 70mm 'Celotex' or equivalent, or it must conform to Part L of the Building Regulations, whichever is greater.

Edge insulation should be placed around all walls to act as an expansion medium. This should be to the same thickness as the edge insulation between the slab and the wall, although it should be compressible.

## FLOOR STRUCTURE

**Bonded screed:** 40mm deep bonded sand and cement screed should be used at the ratio of 4 parts sand to 1 part cement to comply with BS 8204-1:2003.

A cement slurry bonding with a proprietary admixture (e.g Dunlop Universal Bonding Agent) should be used to bond the screed to the slab. Care should be taken to ensure good contact between the underfloor heating tube and the screed. It is important that the screed is as dense and consistent as possible to aid heat transfer.

**Unbonded screed:** Standard 65mm deep sand and cement screed should be used in the ratio 4 parts sand to one part cement. A consistent, dense screed will aid heat transfer.

**Anhydrite screed:** Always install a 100 gauge polythene separation layer between the top of the concrete slab and the gypsum screed; all joints should be taped.

## 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.

## CONTROL

It is essential that a setback thermostat feature is incorporated when using this floor construction.

## FLOOR COVERINGS

Tiles, stone and thin laminates offer benefits such as improved response time and higher heat output. Carpets can be used but the Tog value, when combined with performance underlay should be no greater than 2.5. If the system is powered by a heat pump, greater restrictions apply. Natural timber with a low moisture content can be used, but care must be taken to properly acclimatise the wood by following manufacturers' instructions.

## 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.