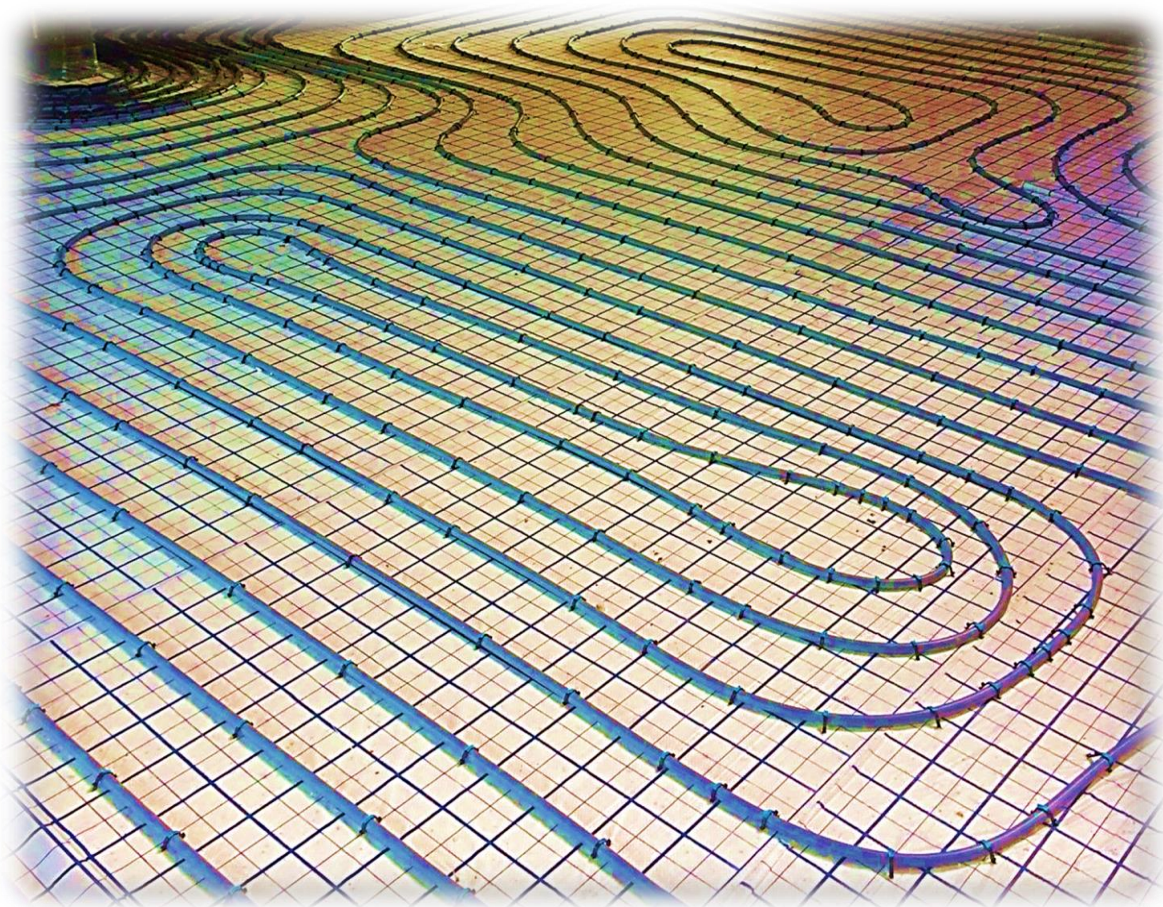


# **THERMAL SURFACES**

Surface Heating & Cooling Specialists

## **SOLID FLOORS**

### **SCREED OVER LAMINATED GRID FLOOR INSULATION**



Thermal Surfaces underfloor heating/cooling systems can be incorporated in to any type of floor construction that has a floor screed above it.

The elements of the system above the concrete sub-floor are perimeter/edge insulation to all walls and elevations projected through the screed, floor insulation, vapour barrier/separating layer above the insulation, pipe fixing system and underfloor heating/cooling pipe-work.

The system will be selected according to the constructional requirements of the project and we can recommend the most suitable underfloor heating/cooling system for the application. We can also provide guidance on the type and depth of screed most suitable for the system being installed. Typically solid floor underfloor heating systems can give outputs up to 120 watts/m<sup>2</sup> dependant on flow water temperature to the underfloor heating pipe-work and the floor finish type.

Once the underfloor heating/cooling pipe-work has been installed, it is pressure tested to ensure it is mechanically sound before the floor screed is installed. The floor screed is then allowed to dry and

cure on the recommendations of the floor screed installer/manufacturer. Once the floor screed is sufficiently dry and cured the floor finish can be installed.

# **THERMAL SURFACES**

## Surface Heating & Cooling Specialists

### Laminated Grid Insulation ('Tacker') System.

The laminated grid floor insulation is specifically designed for solid floor underfloor heating installations to provide a secure way of clipping underfloor heating pipework to insulation panels. The woven polypropylene grid laminated to the insulation panel acts as a vapour barrier and provides a more secure fixing for the pipe staples to prevent the pipe from being moved or disturbed during the floor screed installation. The floor insulation panels can be laminated in a variety of depths and materials such as, expanded polystyrene or the higher 'U' value polyisocyanurate insulation (Kingspan/Celotex type) to suit all types of building construction and project requirements.

## ***SOLID FLOORS - FLOOR SECTION SCREED OVER LAMINATED GRID FLOOR INSULATION***

