



Reduce your carbon footprint to a fingerprint Low Energy Underfloor Heating

Quality comes as standard

Whether fitting our standard or Quantum control you're assured of top quality equipment. The Quantum system allows remote access via the optional gateway hub. Both systems use the same nickel plated manifold and reliable fittings, which are covered by a 10-year system guarantee. The Pe-X floor pipe has a 50-year guarantee.

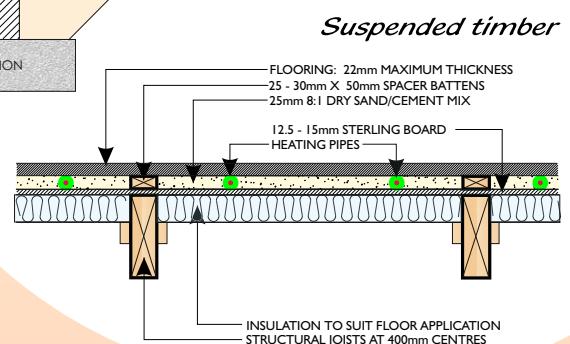
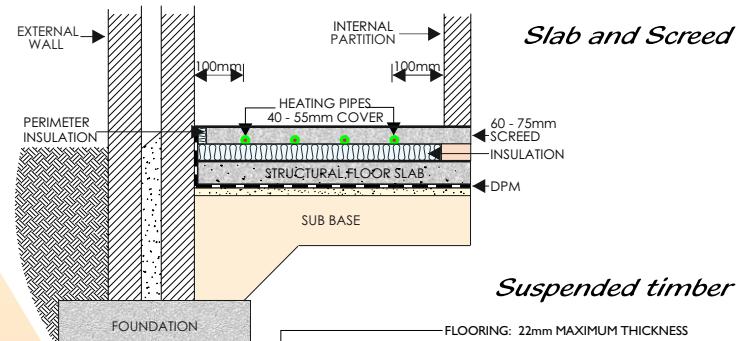
Suitable for most floors

Our system can be fitted in most types of floor construction, and on any floor level, but for the majority of buildings the slab and screed/beam and block or suspended timber methods are the most popular.

Ideal with heat pumps

Underfloor heating and heat pumps are a match made in heaven. The low water flow temperatures best suited for UFH enable a heat pump to work at peak efficiency, resulting in a 6 star energy efficiency rating if you have UFH throughout.

Whole House Underfloor Heating



Choice of Controls

Standard Control

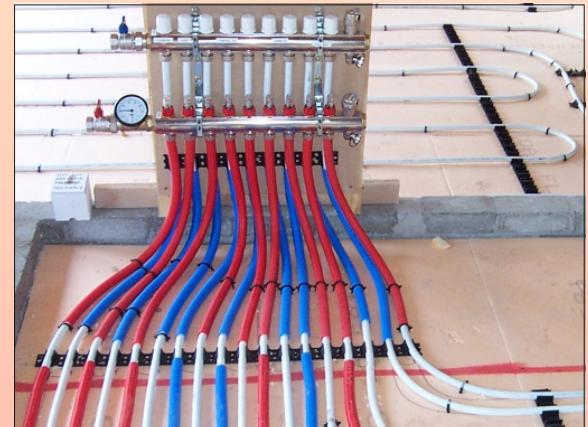
This system includes individual digital room thermostats, and usually a clockstat with set-back control for each manifold.

Salus Quantum Control

This is the most popular system because it is fully programmable for time and temperature. Each thermostat is self-learning, ensuring that the rooms are efficiently heated to the required temperatures at the times you choose. If you want the bathroom at 23°C by 6.00 a.m. and the kitchen at 21°C by 7.00 a.m., that's what it will do.

As an option, the thermostats can be controlled from anywhere using the Salus Quantum app and gateway hub.

Both control systems are compatible with any heat source, including heat pumps.



Water Temperature Control

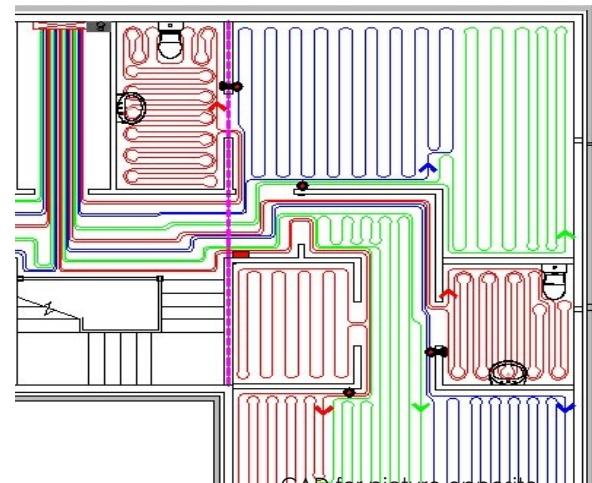
If using a heat pump, the water flow temperature is automatically adjusted by the heat pump controller. If using a boiler, the water flow temperature will be seasonally adjusted at the manifold by the end user from approx 35 - 40°C in spring and autumn, to approximately 50 - 55°C in winter.



We won't compromise on quality



Pipe layout for suspended timber floor



CAD for picture opposite



Pipe layout for slab and screed floor

Floor coverings

Stone or tiles are the best with underfloor heating because of their thermal mass, but most floor coverings can be used, including engineered hardwood and carpet. However, don't use thick carpets because they have high insulation properties and will prevent heat coming from the floor, causing your heating system to become less efficient. Stone and tiles can form part of your screed up to a maximum thickness of 65 mm. Engineered hardwood should be no thicker than 22 mm. Whatever floor covering you intend using, we recommend you follow the manufacturer's guidelines.

Insulation and screed

For slab and screed or beam and block floors we recommend high density rigid extruded polyurethane insulation boards with a minimum compressive strength of 200 kPa such as Ravatherm XPS, Polyfoam Floorboard, or Cellecta Hexatherm XFloor. Suspended timber ground floors must use rigid insulation fully supported between the joists. Mineral wool may be used in suspended timber upper floors, but must not be used for ground floors.

We can supply and install your ground floor insulation for slab and screed floors, and can arrange a liquid pouring screed from a specialist contractor.

Our Expertise and Experience

- We are the leading underfloor heating company in the Borders, and have extensive experience of integrated renewable energy heating systems.
- We are MCS accredited for the installation of ground and air source heat pumps and solar thermal panels. MCS number: NAP14681
- We care for every project as if it were our own.
- We use quality products and equipment with excellent guarantees.
- We provide a bespoke design service to suit your project.
- Our installation photos are used in our suppliers' manuals and training literature, and have also been used in various national building magazines.
- We offer advice and support from the planning stage, right through to completion and beyond.
- We provide an unrivalled after sales service.

Thank you for considering
our company.

Simon & Pauline Currie



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Borders Green Energy is a trade name of Borders Underfloor Heating Ltd. Company Reg: SC301968 MCS number: NAP14681

