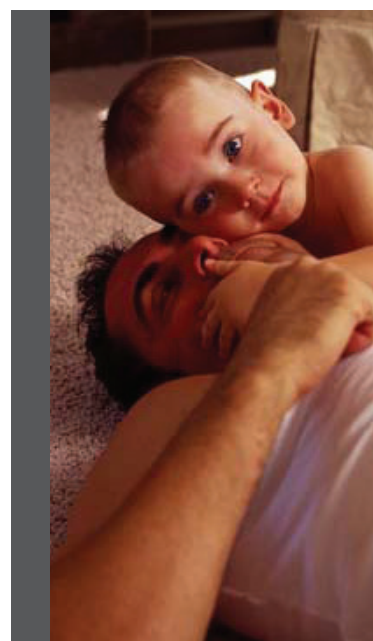
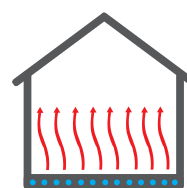


Underfloor Heating



- The most comfortable heat for the human body because it warms your feet and is cooler up near your head
- Low surface temperature suitable for children and the elderly
- Fully controllable - different heating zones in each part of the house
- Faster response time & more economical than electric underfloor heating
- Future-proof - the heat source can be changed in the future



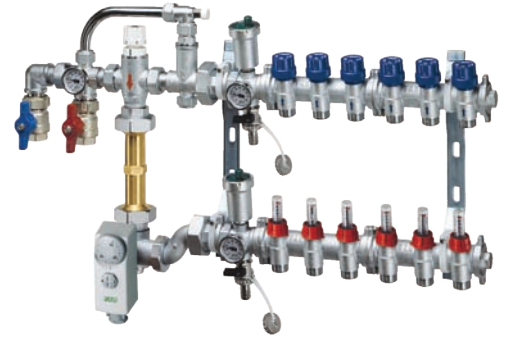
Central Heating
NEW ZEALAND

LIVE LIKE IT'S
SUMMER
ALL YEAR ROUND



Underfloor Heating

Underfloor Distribution Manifold



Luxurious & comfortable

Radiant underfloor heating is recognised as the most luxurious & comfortable form of heating as the heat is evenly distributed throughout each room, and is especially comfortable on concrete, tiled, or timber flooring.

As the heating system is part of the fabric of the house it is hidden and more options are available for furniture and window placement.

Underfloor heating runs at lower temperatures and so it can use heat from either air to water or ground source heat pumps, or boilers running on natural gas, diesel, wood pellets, or logs. You can choose the cheapest system to run at your location. If you use a boiler or high temperature heat pump it is possible to have a mixture of underfloor and radiator heating.

How it works

The floor is heated by pumping warm water from a boiler or heat pump through pipes embedded in a concrete floor slab. As water is used to carry the heat this is sometimes known as hydronic underfloor heating.

Since the whole slab is heated it takes more time to change temperature and generally underfloor systems are run continuously throughout the winter providing 24 hour heating.

Individual heating zones or even rooms can be controlled independently using room thermostats and slab temperature sensors.

A faster response system can be achieved using European style screed flooring where the pipes are embedded in a fully insulated screed which is thermally separate from the main floor slab.

A NZ screed underfloor heating system during installation.



Economical

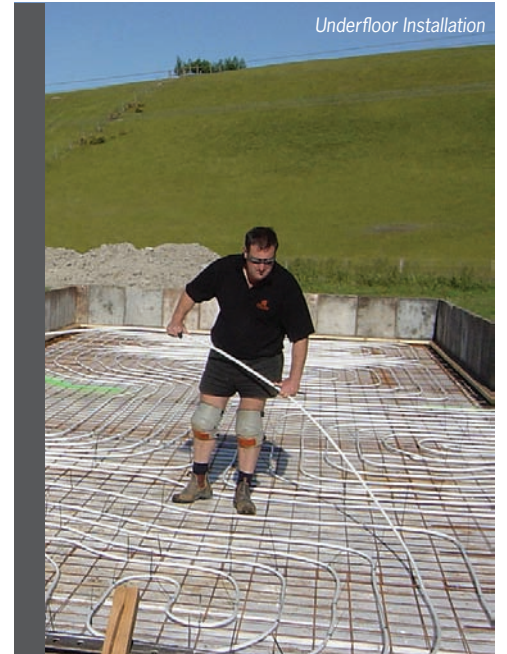
As the radiant heat is evenly distributed about the floor area of the house it is possible to have the room temperature at lower levels than with other systems and still achieve the same comfort levels.

Installation & Design

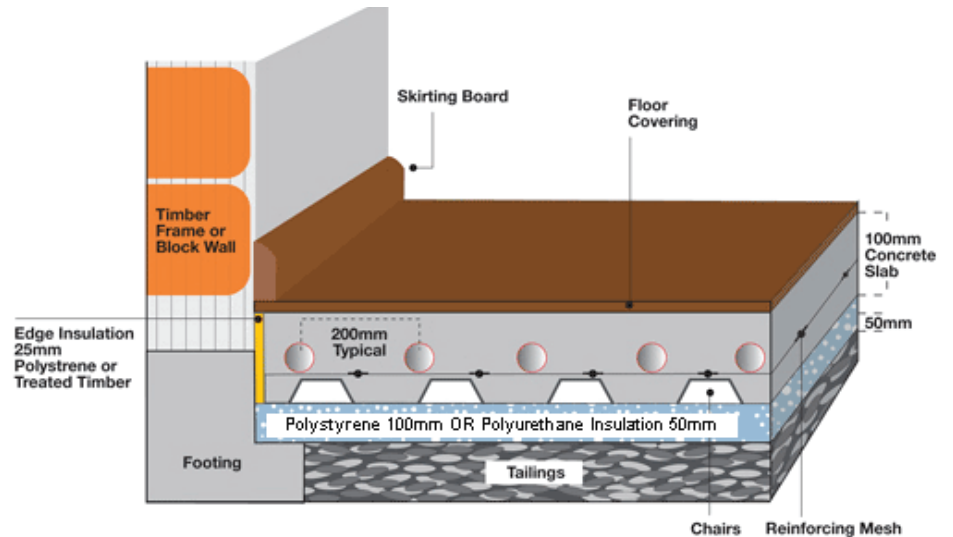
Central Heating New Zealand uses European heating pipes that have been certified for a life span of 50 years. Piping is laid in loops and secured to the reinforcing mesh in the slab during construction. Each loop runs back to a manifold enabling separate control of different heating zones. All pipework is pneumatically pressure tested before the floor slab is poured and left pressurised during the construction period.

Please note: Care must be taken with the choice of floor coverings. In general, underfloor heating works best with tiled or concrete floor surfaces. It can work well however with carpet and timber floors providing that is known at the design stage.

Underfloor Installation



TYPICAL NEW ZEALAND FLOOR SLAB WITH UNDERFLOOR HEATING



Systems supplied by:

The company named above is an approved supplier and/or installer of Central Heating New Zealand products.



Central Heating
NEW ZEALAND

11 Parkhouse Rd, Sockburn
PO Box 31-274, Christchurch.
Ph 03 357 1233. Fax 03 343 1236.
Email info@centralheating.co.nz
www.centralheating.co.nz