



**Engineering progress
Enhancing lives**

Underfloor Heating & Cooling Solutions

Efficient and reliable underfloor heating and cooling systems, as well as smart controls and accessories to complete the range.

www.rehau.uk/underfloorheating
#expectmore from REHAU







Underfloor heating and cooling

Perfect match for our zero-carbon future

The UK has committed to zero carbon by 2050 and decarbonising how we heat our buildings is a key challenge. Underfloor heating is ideally match for a low carbon heat pumps or can used on a district heat network to distribute heat within a building.

For new build residential projects, underfloor heating is now increasingly in popularity in both single houses but in particular in apartments where precious floor space can be saved by removing radiators. The increased comfort for the occupants from a radiant heating system is also driving its growth within the UK.

As we are insulating buildings better, the requirement for cooling in both residential and commercial projects has increased. An underfloor system, with the correct design and controls, can be used to cool a building using the same pipework as for heating. Additionally, cooling can also be achieved via chilled ceiling panels or Thermally Activated Building Structures (TABS).



Underfloor Heating

Underfloor heating can be up to 20% more efficient than radiators when used with a gas boiler and up to 40% more efficient than radiators when used with a heat pump.

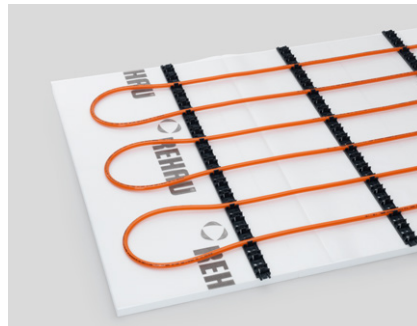


Floor systems

REHAU have an underfloor heating and cooling solution for all your project needs covering both wet and dry floor constructions

Systems include:

- RAUFIX clip rail (screeded)
- Tacker staples (screeded)
- Industrial floor heating (screeded)
- Floating floor (dry)
- Diffusion plate (dry)
- Sprung floor (dry)
- Acoustic batten (dry)





REHAU quality

REHAU have been manufacturing PE-Xa pipes for over 45 years and our PE-Xa pipes go through a strict testing regime throughout the production process. REHAU launched its first underfloor heating range in 1975 in Germany and have been selling underfloor heating for over 30 years in the UK.

- PE-Xa pipe with EVAL oxygen barrier
- 16mm or 20mm (in 240m or 500m coils)
- 12mm available as non-standard
- Lifespan of over 50 years (to BS EN 15785)
- 6 bar / max 95°C rated

PE-Xa has many advantages over alternative pipe materials due to its high flexibility and memory effect. This memory effect is how the renowned Everloc™ compression sleeve can be used for jointing or pipe repairs in an underfloor heating system. It comprises of a fitting and a sleeve, which means no O-rings.



Everloc™ Jointing Solution

REHAU's Everloc™ compression sleeve system has been used over 850,000,000 times worldwide. A 10 year comprehensive warranty is standard for all REHAU underfloor systems.





NEA Smart 2.0

With the growing demand for smart heating controls, REHAU have launched NEA Smart 2.0 to offer a stylish control solution with a wide range of smart features. Smart controls can offer up to 20% energy savings versus traditional heating controls.

The LED dot-matrix design is ideal for modern buildings and can be used on both residential and commercial projects.

- Unique design with energy saving LED dot-matrix display
- Wired and wireless versions can be paired to the same base station
- Up to 8 zones per base station but **up to 60 zones possible** when paired together
- Self-learning software to optimise performance
- **Amazon Alexa** integration and geofencing
- Simple installation wizard and over-the-air software updates





A first class service

A partner you can rely on



Accredited installers

REHAU has a network of trained contractors to ensure the highest installation standards.



Academy/CPDs

Training is available for contractors on-site. Our accredited CPDs can be provided online



On site support

Our technical team can visit site to assist with tool training, installation and commissioning.



UK stock

Our product ranges are stocked in the UK and at major national distributors.



Design services

Unrivalled design support from concept to detailed design.



BIM ready

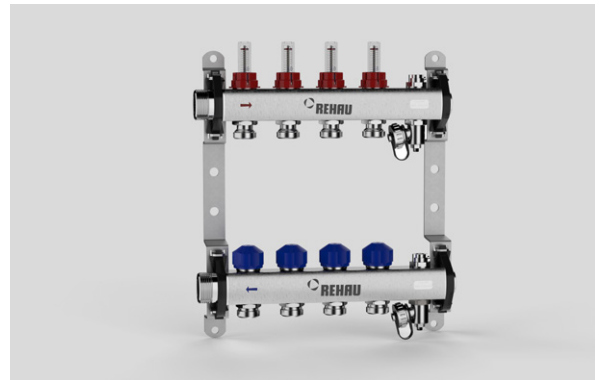
All our products are BIM Level 2 ready.

Complete range from REHAU



NEA HT

- Simple thermostat with timer
- 230V system
- Simple wiring installation
- 6 stats per wiring centre



Stainless steel manifolds and E-mix module

- 2-12 port variants as standard
- Integrated flowmeters and balancing valves
- Industrial manifolds also available
- E-mix module includes high limit stat and latest high efficiency pump



Actuators:

- 24V and 230V options
- 1m cable length
- Includes 'first-open-function' to assist installation
- Adapters available for various manifolds



RAUTITAN heating & plumbing

- 10 bar WRAS approved plumbing system
- Available as PE-Xa or MLCP PE-Xa
- Simple visual inspection of joint
- No O-rings



Thermally Activated Building Structures (TABS)

TABS is increasingly in popularity as developers and specifiers are looking at ways to heat and cool building efficiently. It has been extensively used on education, retail and commercial buildings. The UK projects where TABS have been used, are often BREEAM Excellent or Very Good or Passivhaus certified.

TABS utilises the thermal mass of a building for building and cooling. 20mm PE-Xa pipes are embedded in the concrete structure and joints can be made in the concrete using the leakproof REHAU Everloc™ jointing system.

It can reduce the demand for air-conditioning which can save up to 30% on the capital costs but up to 50% on the operating costs. This is why it is being specified across the UK on energy efficient projects looking for a low carbon cooling option.





WHITE
COLLAR
FACTORY

HAIR DRESSERS
EXIT 1&2

HAIR DRESSERS EXIT 1&2

Case studies

Installations across the UK



Leicester University – centre for medicine

Building type: University, Education

REHAU products: TABS, AWADUKT

Thermo ground-air heat exchanger,
Underfloor heating



South Quay Plaza

Building type: Residential apartments

REHAU products: Underfloor heating



Llandysul School

Building type: School, education

REHAU products: Underfloor heating,
heating controls, RAUVITHERM
pre-insulated pipework



Chancery Lane

Building type: Offices

REHAU products: Chilled ceiling



White Collar Factory

Building type: Offices

REHAU products: Thermally Activated
Building Structures (TABS)



Ripple Retreat

Building type: Respite accommodation

REHAU products: Underfloor heating



BBC White City Redevelopment

Building type: Hotel, apartments

REHAU products: Underfloor heating, plumbing, chilled ceiling



Tate Modern

Building type: Gallery

REHAU products: Thermally Activated Building Structures (TABS)



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