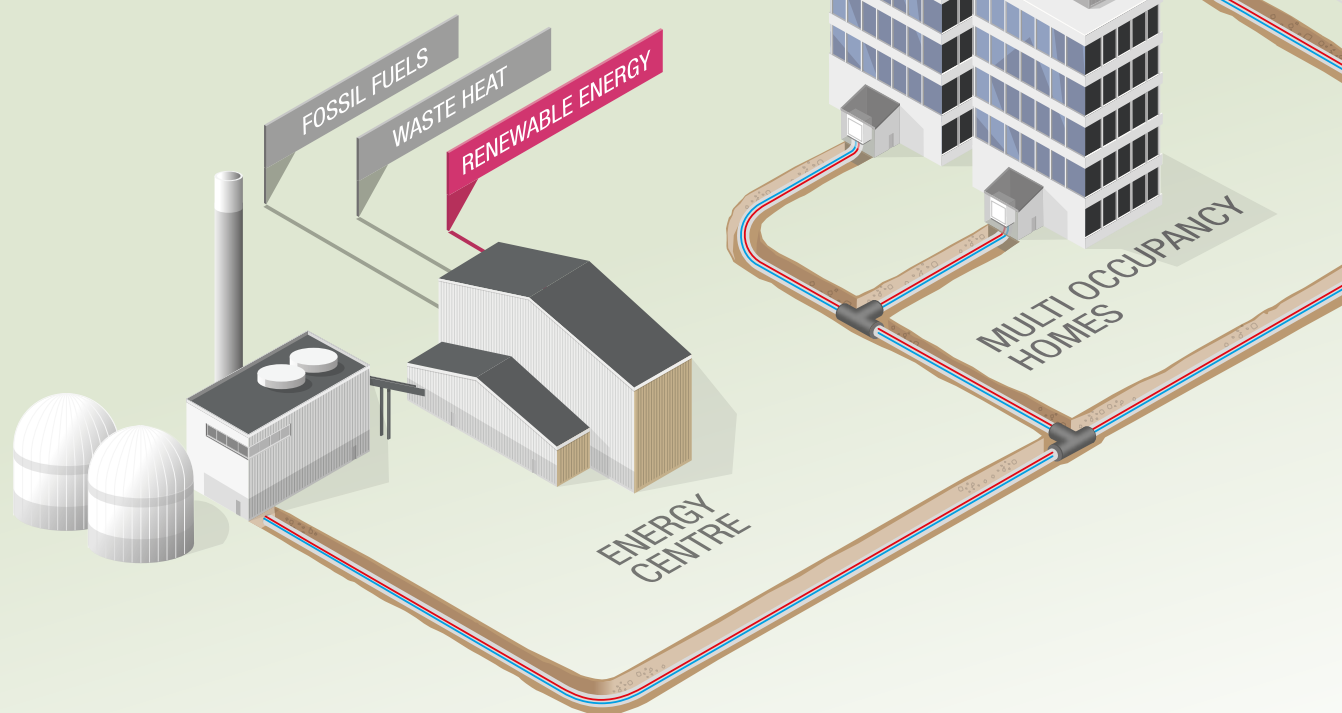

HEAT NETWORK SOLUTIONS

REHAU. Your district heating partner

WHAT IS DISTRICT HEATING?



Future proof technology

Heat is transported via an underground pre-insulated pipe network from one large centralised boiler.

- ✓ Heating and hot water supplied to each building
- ✓ Individual building temperature control
- ✓ Any heat source can be connected
- ✓ Heat source can be changed making it a future proof technology

Benefits



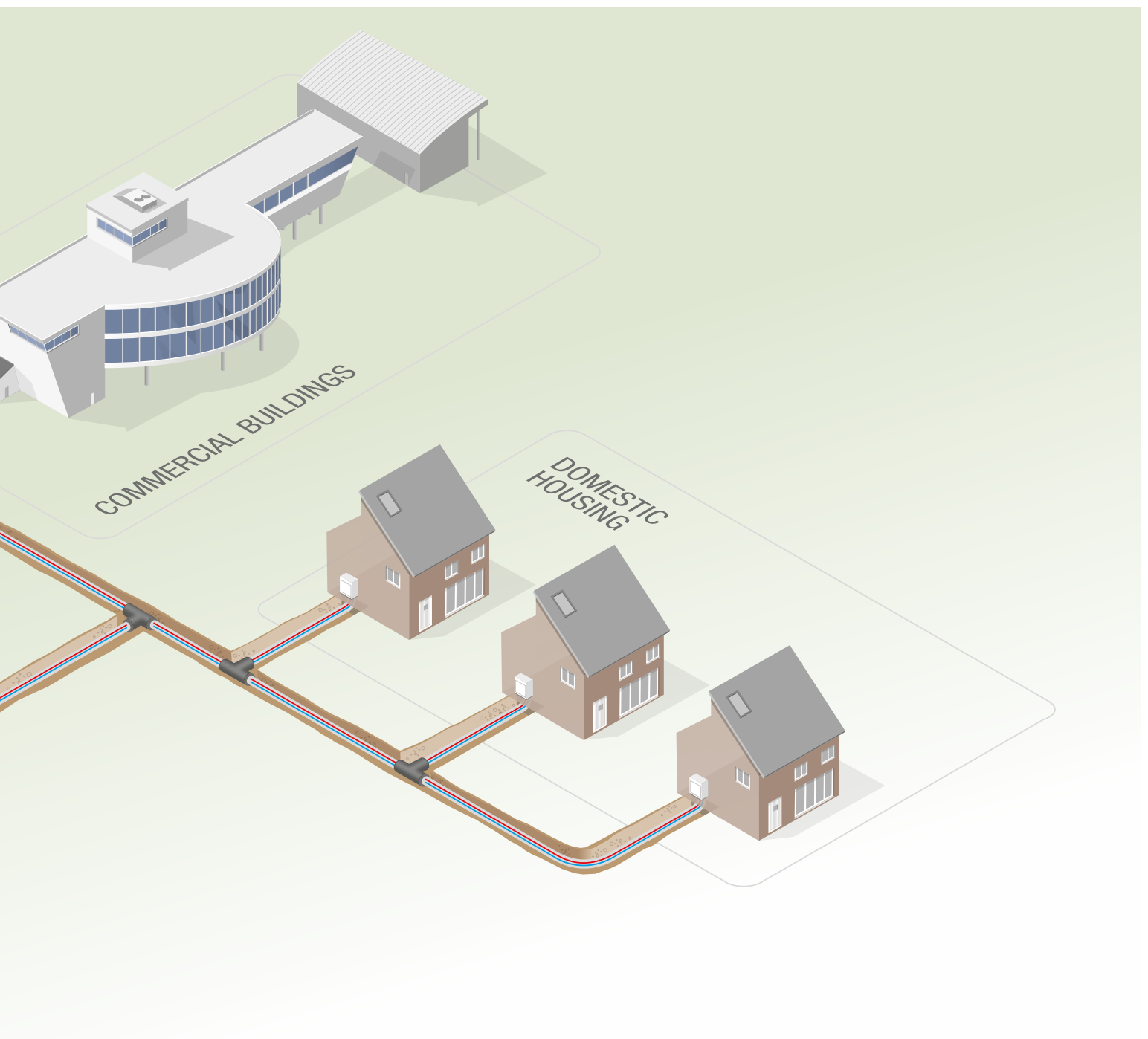
Carbon Reductions



Environmentally Friendly



Cost Savings



Possible heat sources

Gas

ASHP

GSHP

WSHP

Biomass

AD

EfW

Waste
Heat

DESIGN SUPPORT

What we offer our customers

BIM level
2 models
available

REHAU's key designers are trained CIBSE Heat Network consultants and can assist with the following, using bespoke inhouse software.

Pipe Sizing

Effective use of pipe sizes can help reduce costs and heat loss.

Optimisation of flow/return temperatures

Achieving lower flow/return temperatures meets best practice.

Diversity

Applying a more realistic diversity can reduce costs further.

Pipe Routing

Having a more optimised route will reduce material and installation costs.

BIM Modelling

BIM level 2 models are available for our district heating products.

Heat Loss Calculations

Heat loss calculations are essential to ensure an optimised system.



SERVICE YOU CAN RELY ON

UK based team



Proud to support UK production

- Only UK manufacturer of PE-Xa district heating pipes.
- Estimated 29% CO₂ reduction
- UK production started in 2012



Largest UK stock available

- Largest UK stock of district heating pipes.
- Full cutting service
- 25-160mm in RAUVITHERM & RAUTHERMEX stocked



UK sales & technical support

On-site support from UK-based specialist district heating sales and technical teams, with 4 regional sales offices plus a UK head office for:

- On-site support
- Tool training
- CIBSE approved CPDs on heat networks



RAUTHERMEX pre-insulated pipe

The solution for medium - large heat networks

- Bonded PU foam with a **best in class** lambda value of 0.0216 W/mK
- Largest flexible coiled pipe on the market (140mm)
- Largest DUO pipe on the market (75 DUO)
- RAUTHERMEX Plus available with thicker insulation
- 10 bar option available
- No expansion/contraction, so no requirements for expansion provisions.
- 5 year product warranty

SELECT THE RIGHT SYSTEM.



Flexible solution for small - medium heat networks

- Low weight and high flexibility
- Non-bonded PEX foam
- **Only UK manufactured PE-Xa district heating pipe**
- Coils up to 330m
- WRAS approval for potable water applications
- Now available up to 160mm
- Outer layer of foam is bonded to the outer jacket
- 5 year product warranty

IT'S MADE
IN THE U.K. 



RAUVITHERM pre-insulated pipe



Safety without compromise

12 reasons to install RAUVITHERM and RAUTHERMEX

80% faster installation

RAUTHERMEX and RAUVITHERM only require narrow trenches for laying and installation due to their flexibility. As they are a self-compensating system you need less pipe and fittings than a steel system.

Minimum 50 year life span

At an operating temperature up to 70°C and max 8.5 bar, REHAU's PE-Xa pipes have a life expectancy of at least 50 Years. The pipe also has a maximum operating temperature of 95°C.

10% less materials

Compared to steel systems, RAUVITHERM and RAUTHERMEX use up to 10% less materials. There is hardly any waste created and no expansion bends means fewer joints are required.

Smallest bending forces

Tight bends for RAUVITHERM and RAUTHERMEX are no problem. The outer jacket is contoured which enables a high degree of flexibility and allows for small radii at low bending forces.

Up to 400m long

RAUVITHERM and RAUTHERMEX are available in DUO pipes up to 400m. This reduces the number of joints required.

Safe installation

Use of the leak-proof, secure and permanently sealed REHAU EVERLOC™ compression sleeve connection technology.

Best insulation in the market

RAUTHERMEX has a lambda value 0,0216 W/mK: the best in the market.

Up to 12 bar pressure

In RAUTHERMEX Strong, REHAU is the only manufacturer of a SDR 7,4 heating pipe which can be used at operating pressures of up to 12 bar.

50% faster connections

Using the superior REHAU joining technology, tees and branches can be installed up to 50% faster.

100% longitudinally watertight

Longitudinal watertight according to DIN EN15632-2 or AGFW FW 420-1, Class B: for maximum reliability in operation.

100% safe from stress whitening

PE-Xa is safe from stress whitening: when the pipe is kinked there is no danger of pipe fractures due to the cross linking of the polymer.

100% memory effect

By squeezing off pipes, the network can be prepared for future expansion. PE-Xa has the 'memory effect' in which the pipes return to their original shape.



REHAU EVERLOC™ jointing technology creates a permanent, leak-proof and secure connection with pipe, fitting and compression sleeve. Without the need for O-rings! The pipe itself is the sealant, installation is immediately resistant to pressure. The robust materials allow processing at temperatures down to -10°C.

No hot works

The REHAU EVERLOC™ connection technology can be used in all weather conditions.

NO
O-ring



Large range of tees, terminations and accessories

Both RAUTHERMEX and RAUVITHERM have I, L and T shrouds for highly insulated joints to minimise heat losses.

The REHAU EVERLOC™ range covers all possible tee combinations and terminations including male BSP adapter and steel welding adapters.



UK stock of all tool sizes

The RAUTOOL range from 16-160mm are stocked across the UK. The tools come in manual, hydraulic and battery operated versions.

Please contact your local sales office to discuss your tool requirements.



CASE STUDIES

Installations from across the UK

Portmeirion Village, North Wales

Type	Cottages, hotel & other public buildings
Product	3km of RAUTHERMEX
Heat source	1MW Biomass boiler



Marine Court, Dunbeg

Type	Residential development
Product	1.1km of RAUTHERMEX
Heat source	Biomass



Eleanor Street, Sheffield

Type	Social housing
Product	2km of RAUVITHERM
Heat source	1.9MW Gas boiler





Soho Farmhouse, The Cotswolds

Type	Private estate
Product	7km of RAUTHERMEX
Heat source	1MW Biomass boiler & 3MW fossil fuel back up



Gaunts Estate, Wimborne

Type	Farm dwellings and countryside buildings
Product	1.6km of RAUVITHERM
Heat source	Anaerobic digestion



Bluestone Holiday Resort, Pembrokeshire

Type	Accommodation
Product	1.5km of RAUTHERMEX
Heat source	Biomass boiler

The REHAU portfolio.
Systems for installation professionals:

Underfloor heating and cooling
Heating and plumbing
Ground source energy
Ground-air heat exchanger
Sewer pipes
Cable trunking

Follow REHAU Renewables



The REHAU Docs app contains all relevant document about our systems. Whether you need brochures, technical information, installation instructions or a catalogue – the app provides fast access at any time.

More information and download at: www.rehau.co.uk/districtheating

Your REHAU sales office is happy to assist you:

London, REHAU Ltd, The Building Centre, 25 Store Street, London WC1E 7BT Phone: 0207 580 6155 Fax: 0207 307 8595 **Slough**, Units 5 J & K, Langley Business Centre, Station Road, Langley, Slough SL3 8DS Phone: 01753 588500 Fax: 01753 588501 **Manchester**, Brinell Drive, Irlam, Manchester M44 5BL Phone: 0161 777 7400 Fax: 0161 777 7401 **Glasgow**, Phoenix House, Phoenix Crescent, Strathclyde Business Park, Bellshill, North Lanarkshire ML4 3NJ Phone: 01698 503700 Fax: 01698 503701 **Dublin**, 9 St. Johns Court, Business Park, Swords Road, Santry, Dublin 9 Phone: 00353 (0)1 8165020 Fax: 00353 (0)1 8165021

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