

Engineering progress
Enhancing lives

District Heat Network Solutions

REHAU. Your district heating partner.
rehaubuildingsolutions.com/districtheating

#nextlevelbuilding

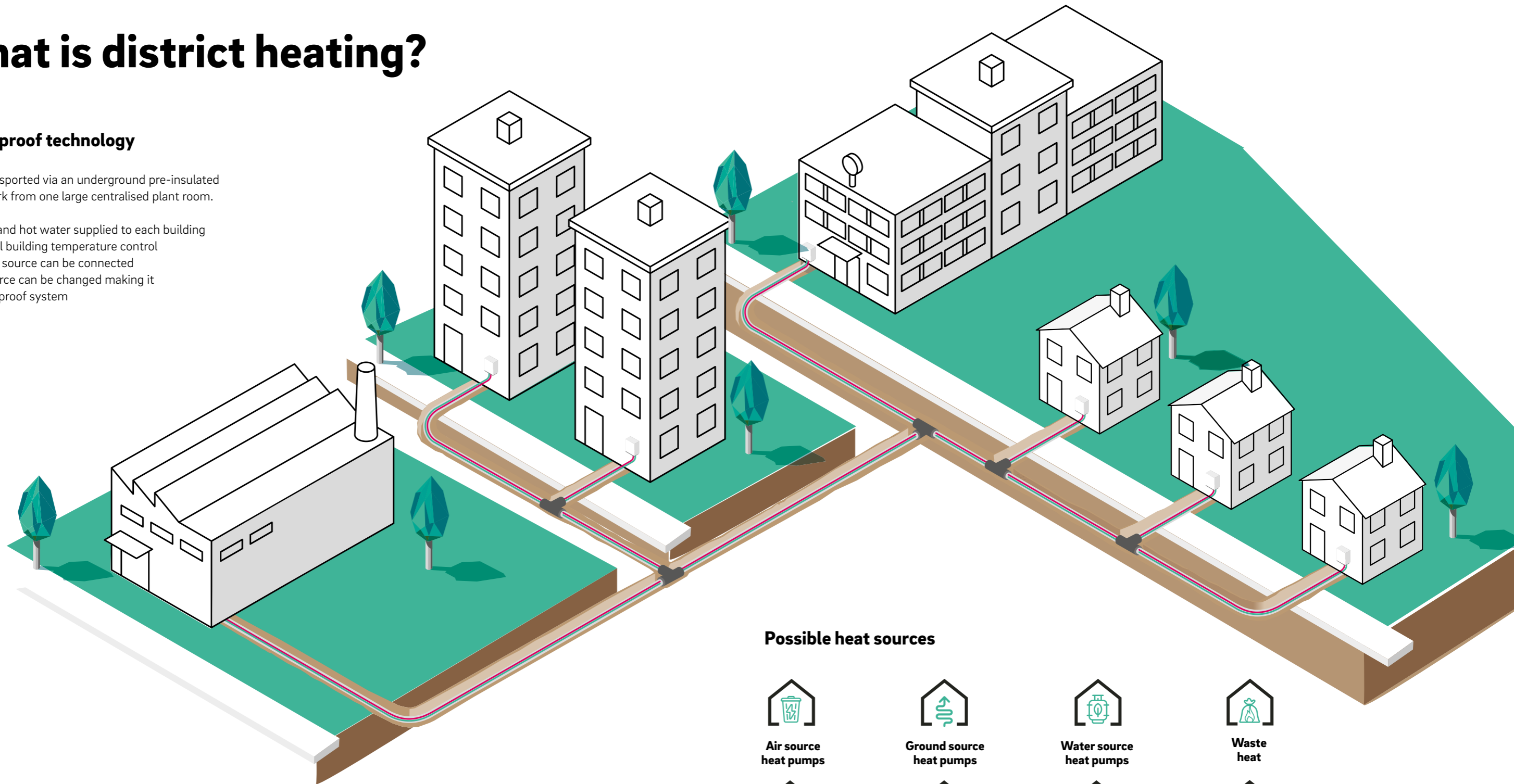


What is district heating?

Future-proof technology

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

- 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 system



Possible heat sources



Air source
heat pumps



Ground source
heat pumps



Water source
heat pumps



Waste
heat



Biomass



Anaerobic
digestion



Energy
from waste



Gas

Service you can rely on

UK based team



Largest UK stock of district heating pipes

- Full cutting service
- RAUVIPEX, RAUTHERMEX and RAUVITHERM
- Delivered direct to site within 5 days



Proud to support UK production

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



UK sales & technical support

- 3 regional sales offices across UK/ROI with a specialist district heating sales team
- On-site support available
- CIBSE-approved CPD presentations on heat networks



Each CLIP-FLEX shroud is made using over 80% recycled materials



Design support

What we offer our customers

REHAU's technical support team are trained CIBSE Heat Network consultants and can assist with the following using bespoke design software.

Pipe sizing

Effective use of pipe sizes can help reduce both capital costs and heat losses

Optimisation of flow/return temperatures

Achieving lower flow/return temperatures improves heat network efficiency

Diversity

Applying a more realistic diversity can reduce plant size and pipe sizes

Pipe routing

Having a more optimised route will reduce material and installation costs

Heat loss calculations

Heat loss calculations are essential to compare different pipes and network layouts

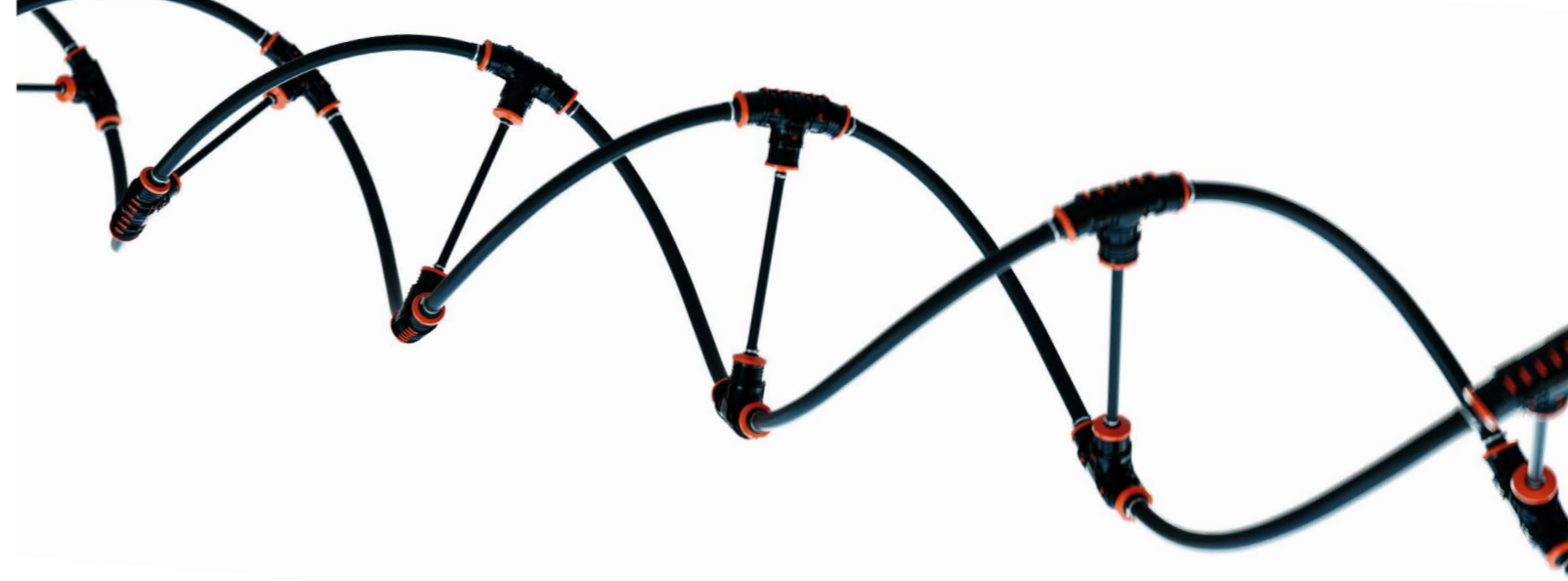
BIM modelling

BIM level 2 models are available for our district heating products

Complete heat network system

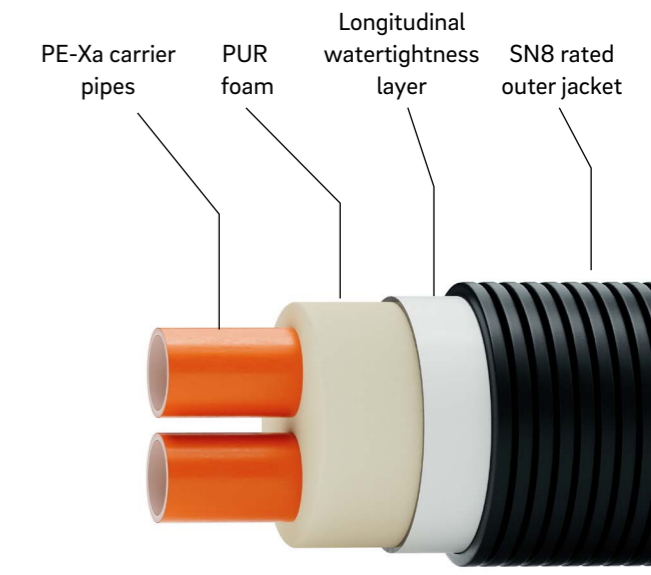
High performance pipes, shrouds and fittings

One fully integrated system, ready for tomorrow's heating needs

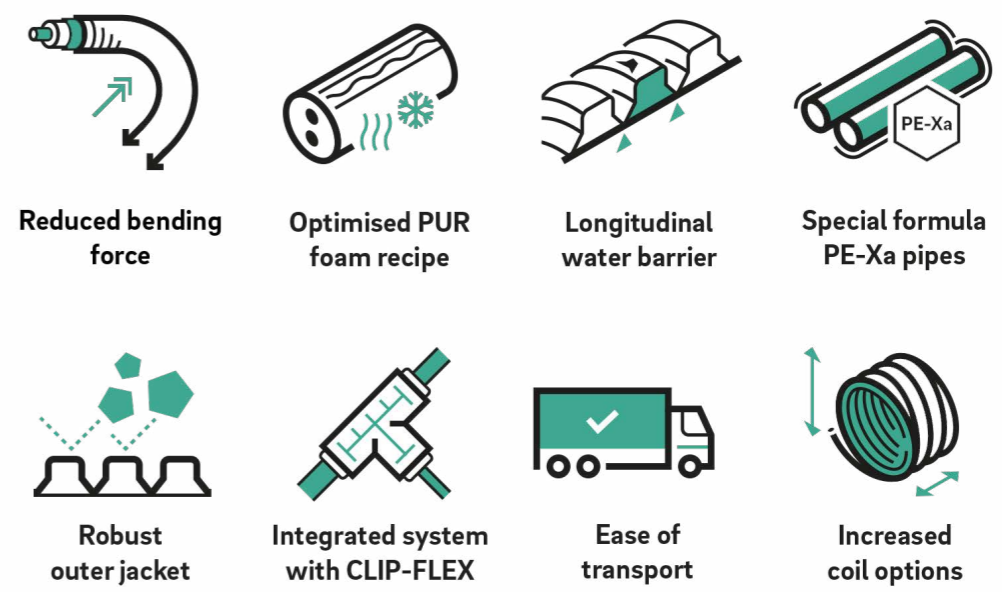


RAUVIPEX The all-round performer for heat networks

- First pre-insulated PUR foam pipe range with SN8 ring stiffness
- First flexible PUR foam pipe to reach 'class A' watertightness - even when tested under stricter conditions
- Newly developed fine-poured PUR foam characterised by excellent insulation properties combined with outstanding flexibility
- Available up to 140 UNO and 75 DUO



RAUVIPEX benefits



RAUTHERMEX
High thermal performance for large heat networks

- Available up to 160 UNO and 75 DUO



RAUVITHERM
Flexibility for small heat networks and remote heat pumps

- Available up to 160 UNO and 63 DUO



CLIP-FLEX shroud
The universal shroud

- Available as T//L configurations
- Two sizes: 90 to 150mm and 90 to 250mm
- Externally tested to 0.3 bar water pressure
- Allows angle deviations of up to 22.5°
- Each shroud is made from over 80% recycled material
- Designed for use with 2K-D foam cans, improving safety and handling on site



CLIP-FLEX offers optimised packaging which reduces transportation space by up to 30%, whilst still offering up to 20% more space for fittings

REHAU EVERLOC™ compression sleeve technology

- Over 1 billion joints installed worldwide
- No hot works
- No O-rings
- Full range of tees and terminations
- Minimal bore reduction



FUSAPEX

Electrofusion jointing system for REHAU's PE-Xa pipework, offering an alternative solution.



PP-R Pipe

Large diameter pipes for heat networks

To meet growing demands for larger heat networks, REHAU now offer pre-insulated PP-R pipes to allow a fully polymer heat network. These can transport over 16MW of heat at 70/40°C.

6 reasons to use PP-R pipe

- No expansion bends – this saves both installation and material costs
- Up to 37% lighter than steel and easier to handle
- Up to 19% lower pressure losses than steel
- Excellent corrosion resistance so no leak detection required
- Can be combined easily with REHAU's PE-Xa for fully polymer heat network
- Over 50 year lifespan at 70°C and 9.5 bar

PP-R pipe SDR 11

Pipe diameter	Nominal diameter	Outer jacket diameter
160 mm	DN 125	250 mm
200 mm	DN 150	315 mm
250 mm	DN 200	400 mm
315 mm	DN 250	450 mm
355 mm	DN 300	500 mm



Internal pipework - plumbing system

Proven alternative to copper and steel

1 RAUTITAN

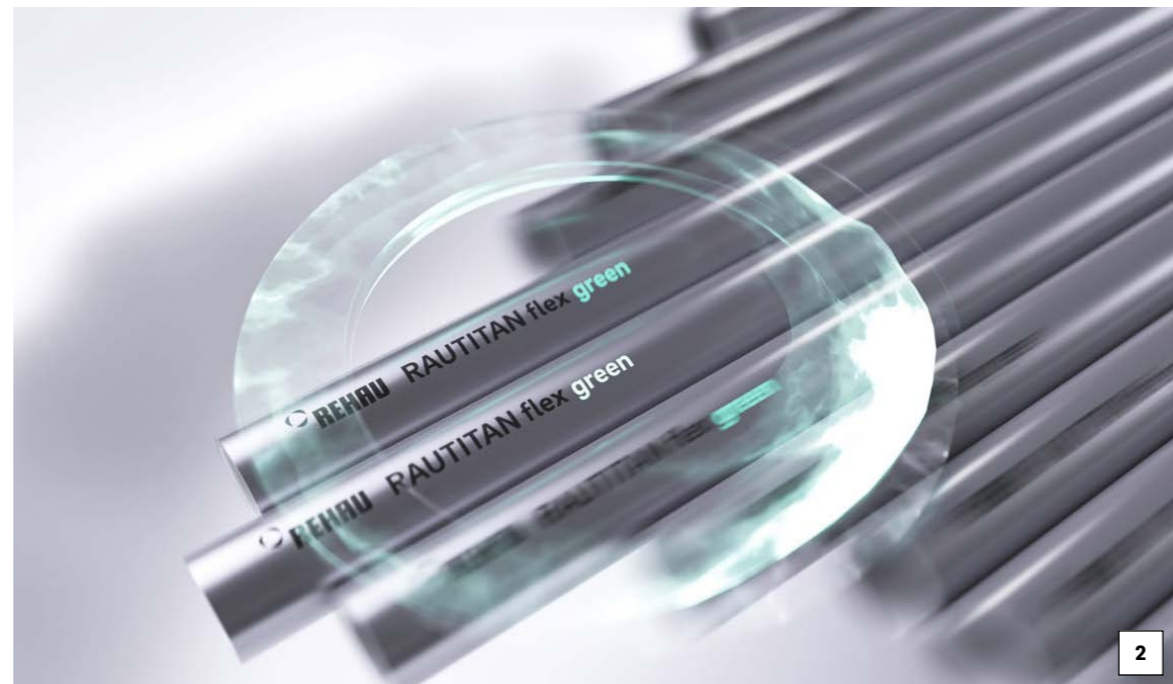
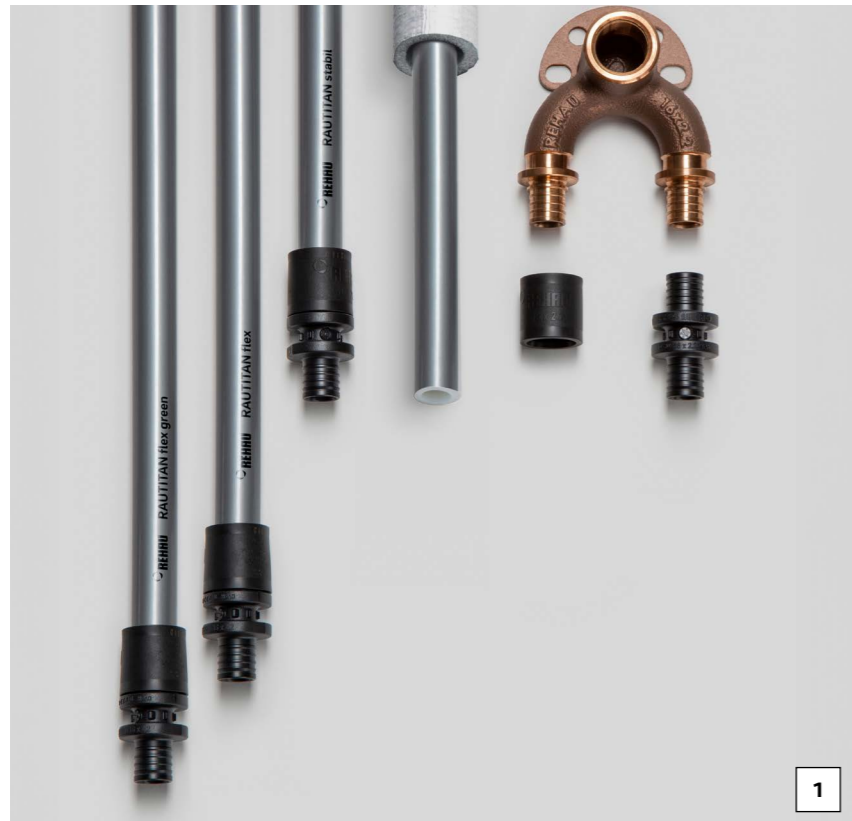
- RAUTITAN Flex (PE-Xa) up to 40mm and Stabil (aluminium multilayer) up to 63mm
- REHAU EVERLOC™ compression sleeve fitting has been installed over 1 billion times
- Independent certification of a 'cavity-free' joint
- Simple visual inspection

2 RAUTITAN flex green

- Bio-based polymer
- Over 90% CO₂ savings in the manufacturing process*

3 PP-R fiber

- PP-R fiber offering pipework up to 125mm
- Proven socket welded jointing system
- High corrosion resistance
- Pre-fabrication possible



*based on life cycle assessment spanning stages A1 to A4 in accordance with EN 15804



1

Case Studies

Across the UK

1 Portmeiron Village, North Wales

Type	Cottages, hotel & other public buildings
Product	RAUTHERMEX



2

2 Pipersdam Luxury Resort, near Dundee

Type	Holiday resort (70 lodges)
Product	RAUTHERMEX, RAUVITHERM, Underfloor Heating

3 Eleanor Street, Sheffield

Type	Social housing (170 homes)
Product	RAUVITHERM



3



5

4 Renaissance Golf Course, Scotland

Type	Holiday properties
Product	RAUVIPEX

5 Technology Park

Type	Education hub
Product	PP-R pipe

6 Hill Park Drive, Glasgow

Type	Housing Association - 350+ homes
Product	RAUTHERMEX

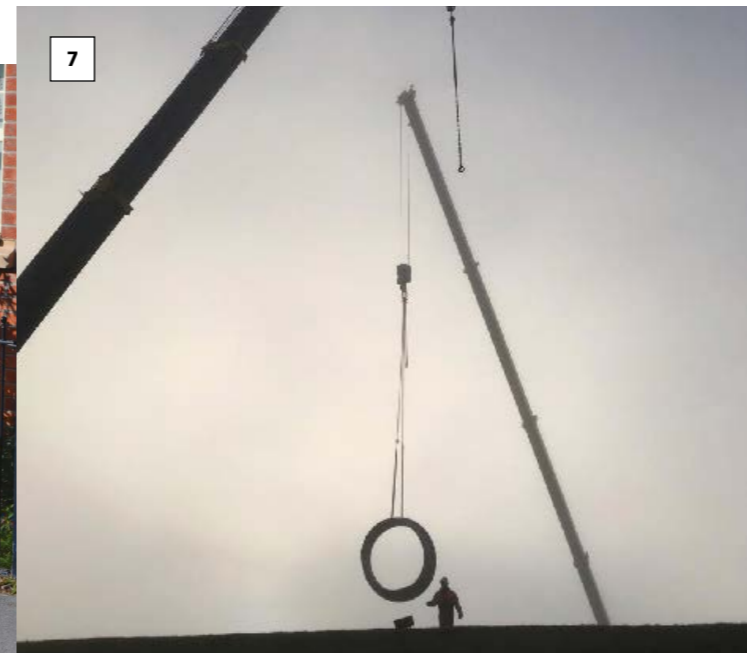


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Project image supplied by Mibec



6



7

7 Historic Military Base

Type	Ministry of Defence
Product	RAUTHERMEX



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