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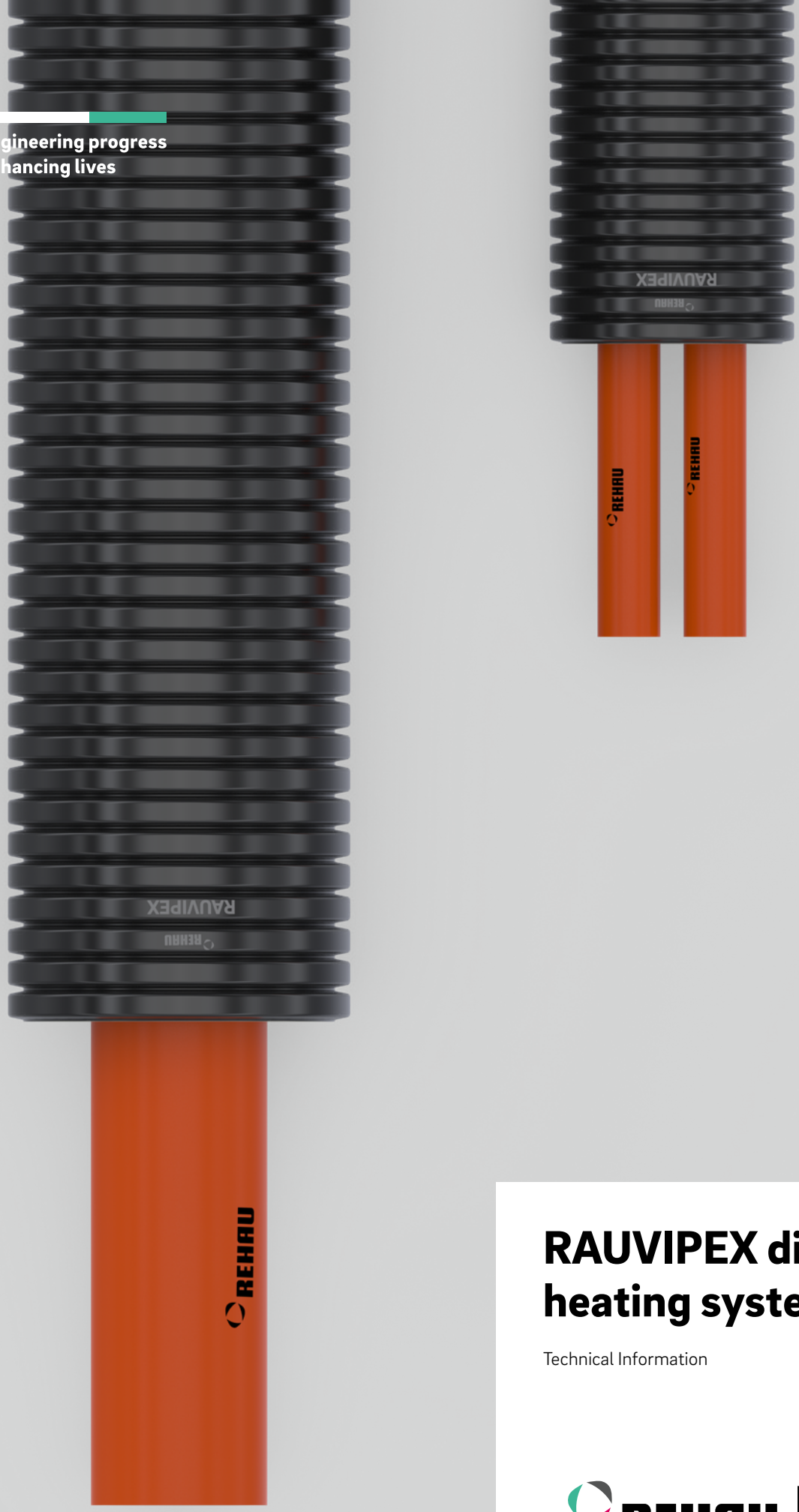


# RAUVIPEX district heating system

Technical Information

REHAU | Building Solutions

This Technical Information "RAUVIPEX district heating system" is valid from January 2025. With its publication, the previous Technical Information 817603 (as of November 2024) loses its validity.

All of the following data supplement the corresponding data and technical properties of the Technical Information "RAUTHERMEX and RAUVITHERM Pre-insulated pipe systems", print number 817602 as of 06/2020, and apply to the RAUVIPEX pipe system.

You can download our current technical documents from **www.rehau.com/TI.**



All dimensions and weights are reference values. Subject to errors and modifications.

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# 01 Information and safety instructions

**Validity**
This Technical Information is valid for United Kingdom and Ireland.

**Other applicable Technical Information**
- RAUTHERMEX and RAUVITHERM Pre-insulated pipe systems, print number 817602

**Navigation**
You will find a detailed table of contents with hierarchical headings and corresponding page numbers at the start of this Technical Information.

**Pictograms and logos**

 Safety notice

 Legal notice

 Important information to observe

 Your benefits

 Information available online

**Currentness of Technical Information**
To ensure your safety and the proper use of our products, please regularly check whether a more recent version of the Technical Information is available. You will find the issue date of your Technical Information on the bottom right-hand side of the back cover or on the inside of the title page. You can obtain the current Technical Information from your REHAU Sales Office, specialist wholesaler or you can download it from the internet at **www.rehau.uk/districtheating**

**Intended use**
The REHAU pipe systems must only be designed, installed and operated as described in this Technical Information or in the installation instructions associated with the individual components. Any other use is deemed to be outside the scope of intended use and therefore is not permitted. For more detailed consulting support, please contact your REHAU Sales Office.

Use in line with specification means compliance with all of the information in this Technical Information as well as the assembly, operating and maintenance instructions. No liability can be accepted for any use which is not in line with the specifications or inadmissible alterations to the product or any consequences resulting from this.

**Safety instructions and operating instructions**
- For your own safety and the safety of other people, please read through all safety instructions and operating instructions carefully and completely before commencing installation.
- Keep the operating instructions safe and have them available.
- If you do not understand the safety instructions or the individual installation procedures, or if something is unclear, please contact your REHAU Sales Office.
- Failure to follow the safety instructions can result in damage to property, environment or personal injury.

Observe all national and international piece laying, installation, accident prevention and safety regulations as well as the notes in this Technical Information when installing pipe systems.
Also observe the applicable laws, standards, guidelines and regulations (e.g. DIN, EN, ISO, DVGW, TRGI, VDE and VDI) as well as regulations on environmental protection, regulations of the Employer's Liability Insurance Association and specifications of the local public utilities companies. Please ensure that the guidelines, standards and regulations are the valid issue in each case.
The planning and installation instructions relate directly to the relevant REHAU product. At points, we will refer to generally applicable standards or regulations.
More specific standards, regulations and instructions relating to the planning, installation and operation of drinking water or heating systems or systems for building services must also be observed and do not form part of this Technical Information.

Application areas which are not covered by this Technical Information (special applications) require consultation with our Technical Applications Department.
For more detailed advice, please contact your REHAU Sales Office.

**Prerequisites for personnel**
- Our systems must only be installed by authorised and trained persons.
- Only trained and authorised personnel may work on electrical installations or piecework components.

**General precautions**
- Keep your workplace clean and free of obstructions.
- Ensure that your work space has adequate lighting.
- Keep children, pets and unauthorised persons away from tools and installation areas. This particularly applies to renovations in occupied areas.
- Only use the components intended for your particular REHAU system. The application of components from other systems or the use of tools which do not come from the relevant REHAU installation system can result in accidents or other hazards.

**Working clothes**
- Wear safety glasses, appropriate working clothes, safety shoes, a protective helmet and, if you have long hair, a hairnet.
- Do not wear loose-fitting clothing or jewellery, as they may get caught in moving parts.

**During installation**
- Always read and follow the operating instructions for the REHAU installation tool you are using.
- Incorrect handling of tools can cause serious cut injuries, crushing or removal of limbs.
- Incorrect handling of tools can damage connecting components or cause leaks.
- The REHAU pipe cutters have a sharp blade. Store and handle them in such a way that there is no risk of injury from the REHAU pipe cutters.
- When cutting pipes, make sure to maintain the safety gap between the holding hand and the cutting tool.
- Never reach into the cutting area of the tool or touch moving parts during the cutting process.
- After the expanding procedure, the expanded pipe end returns to its original shape (memory effect). Do not place any foreign objects in the expanded pipe end during this phase.
- During the compression process, never reach into the pressing zone of the tool or touch moving parts.
- Until the pressing procedure is complete, the fitting part can fall out of the pipe. Risk of injury!
- During all maintenance or refitting work and when changing installation areas, always unplug the tool and make sure that it cannot be switched on unintentionally.

**Operating parameters**
- If the operating parameters are exceeded, this leads to overstressing of the pipes and connections. It is therefore not permitted to exceed the operating parameters.
- Compliance with the operating parameters is to be ensured through safety and control systems (e.g. pressure reducer, safety valves and similar).

**System-specific safety instructions**
- Deburr or remove edges on insulating sleeves in order to prevent possible injury.
- When working with PUR shroud foam (polyol and isocyanate components) the safety data sheets must be observed and chemicalresistant protective gloves and protective goggles worn at all times.
- A dust mask must be worn when sawing or sanding PUR rigid foam.
- When welding electrofusion couplers and foam moulding with PUR shroud foam, the component heats up.
- When working with tension belts to fix the pipes there is a crushing risk. Do not reach into the hazardous areas.

# 02 Heat supply for generations with RAUVIPEX

The use of polymer pipe systems enables the expansion of heating networks to be accelerated and thus makes a substantial contribution to the green transformation of the heating supply towards climate neutrality. The decisive factors for the acceptance of products and system solutions are their technical suitability for the specific application and their user-friendliness. In this context, REHAU has developed the new RAUVIPEX pipe system – the all-rounder for heating and cooling.

The new RAUVIPEX pipe system is a PU-foamed flexible pipe with an outstanding combination of insulating effect, robustness and flexibility during installation, thus setting a new standard. It is ideally suited to connecting heat pumps and district heating networks.

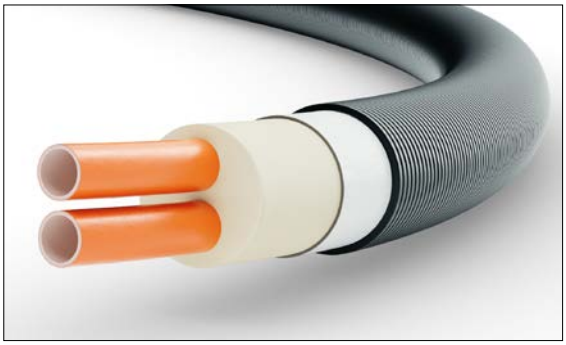


Fig. 02-1 RAUVIPEX – all-rounder for heating and cooling

The material properties of the pipes and pipe connections used are a decisive factor for the service life, safety and cost-effectiveness of heating networks. REHAU has more than 40 years of experience in the development and manufacturing of high-pressure cross-linked polyethylene PE-Xa pipes. In addition, REHAU has been offering a compression sleeve system since 1987, which enables a permanent seal without O-rings. The system approval for PE-Xa service pipes and fittings in accordance with DIN EN ISO 15875-5 by the independent, certified and accredited IMA Dresden test centre guarantees a long-term and reliable supply. With RAUVIPEX, the patented longitudinally watertight barrier also ensures maximum safety during installation and operation. And finally, the clip and shrink shrouds are certified as watertight under increased testing requirements.


Fig. 02-2 RAUVIPEX is the new integral component of the REHAU overall system

The use of highly stabilised REHAU PE-Xa service pipes specially designed for district heating has guaranteed the longevity of the application since 2000 – i.e. district heating supplies for generations. Modern low-temperature heating networks with a flow temperature of 65 °C in continuous operation, for example, have a service life of at least 100 years. Compared to conventional PE-Xa pipes, a service life that is up to 70 % longer is achieved by fulfilling the requirements of DIN EN 15632.

# 03 Material properties

The following data supplements the corresponding chapter of the Technical Information "RAUTHERMEX and RAUVITHERM Pre-insulated pipe systems", print number 817602, and assumes knowledge of the chapter.

## 03.01 Carrier pipes

The same REHAU PE-Xa carrier pipes SDR 11 are used for the RAUVIPEX pipe system as for RAUVITHERM and RAUTHERMEX. REHAU PE-Xa service pipes SDR 11 are highly stabilised and externally tested in accordance with EN 15632 especially for local and district heating applications. Therefore, the contents of the following chapters from the Technical Information "RAUTHERMEX and RAUVITHERM Pre-insulated pipe systems" (print number 817602) apply unchanged to RAUVIPEX:

- 03.01 Carrier pipes
- 03.01.01 District heating application: PE-Xa SDR 11 carrier pipe
- 03.01.04 Continuous quality control

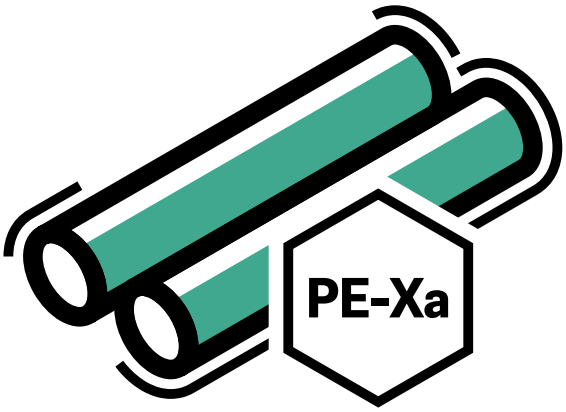



Fig. 03-1 District heating carrier pipes SDR 11

## 03.02 RAUVIPEX SDR 11 pipe system

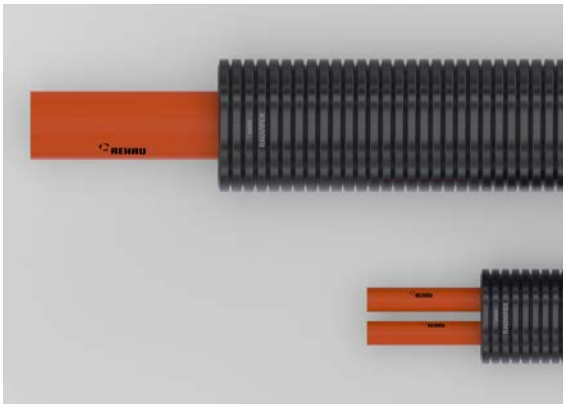


Fig. 03-2 RAUVIPEX composite pipe

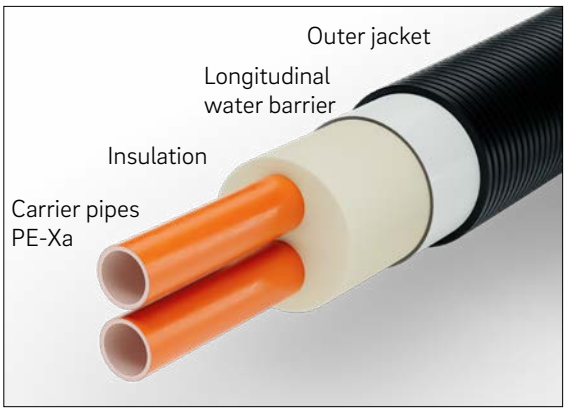


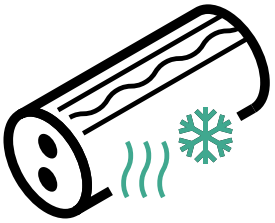

Fig. 03-3 RAUVIPEX main components

## 03.03 Pipe insulation

The main insulating layer of RAUVIPEX pipes consists of continuously produced, innovative, flexible and CFC-free PU foam.

| Property | Value | Standard |
|---|---|---|
| Thermal conductivity $\lambda_{50, \text{ initial}}$ | 0,022 W/mK | EN 15632 |
| GWP (global warming potential) | 0.5 | - |
| ODP (ozone depletion potential) | 0 | - |
| Density ρ | > 50 kg/m³ | ISO 845 |
| Compressive strength | 0.15 MPa | ISO 844 |
| Water absorption | ≤ 10 % | EN 15632-1 |
| Axial shear strength | ≥ 90 kPa | EN 15632-2 |
| Construction material class | B2 (normal flammability) | DIN 4102 |

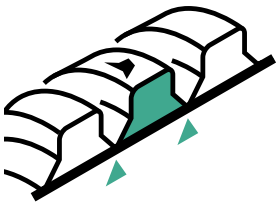
Tab. 03-1 Technical properties of the thermal insulation PU foam



A patented additional, multi-layered longitudinal water barrier layer made of cross-linked and closed-cell PE material is included between the pipe insulation and the outer casing. The barrier layer is extremely elastic and adheres fully to both the PU foam and the corrugated valleys of the outer shell.
This longitudinal water barrier layer achieves longitudinal water tightness in accordance with AGFW FW 420-1 Class A for the RAUVIPEX pipe system.

| Property | Value | Standard |
|---|---|---|
| Thermal conductivity $\lambda_{50}$ | 0.05 W/mK | EN 15632 |
| Density ρ | ≥ 30 kg/m³ | ISO 1183 |
| Water absorption | ≤ 1 % vol. | DIN 53428 |
| Long-term temperature resistance | ≥ 95 °C | |
| Construction material class | B2 (normal flammability) | DIN 4102 |
| Longitudinal watertightness | Class A | FW 420-1 |

Tab. 03-2 Technical properties of the longitudinal water barrier layer

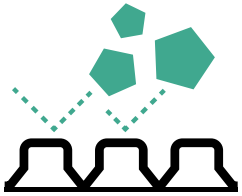


## 03.04 Outer jacket

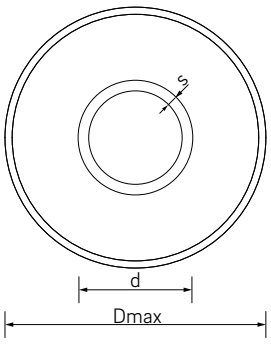
RAUVIPEX pipes have a special outer casing geometry consisting of U-shaped wave crests and V-shaped wave troughs. This mould is produced using state-of-the-art vacuum corrugator technology in a continuous process with a PE-MD material and significantly improves the static properties, robustness and bending flexibility of the pipe.

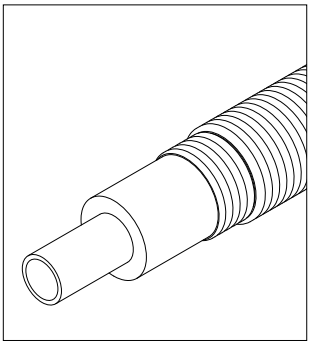
| Property | Value | Standard |
|---|---|---|
| Thermal conductivity $\lambda_{50}$ | 0.40 W/mK | DIN 52612 |
| Density ρ | 0.95 g/cm³ | ISO 1183 |
| Construction material class | B2 (normal flammability) | DIN 4102 |

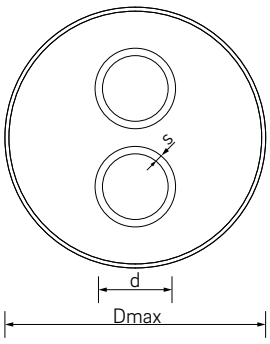
Tab. 03-3 Technical properties of the outer casing

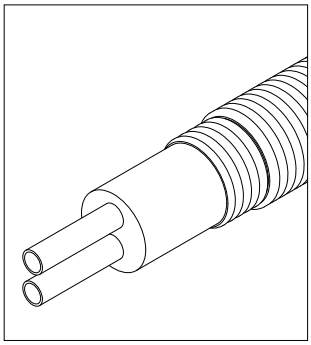


## 03.05 Pipe dimensions RAUVIPEX





| Typ | d | s | di | Dmax | U-value | Volume | 2.4 m x 1.2 m Standard coil | 2.8 m x 1.6 m Special coil [1] | Weight |
|---|---|---|---|---|---|---|---|---|---|
| | mm | mm | mm | mm | W/(mK) | l/m | m | m | kg/m |
| UNO 25/100 | 25 | 2.3 | 20.4 | 100 | 0.095 | 0.33 | 325 | - | 1.6 |
| UNO 25/125 | 25 | 2.3 | 20.4 | 125 | 0.079 | 0.33 | 215 | - | 2.0 |
| UNO 32/100 | 32 | 2.9 | 26.2 | 100 | 0.116 | 0.54 | 325 | - | 1.5 |
| UNO 32/125 | 32 | 2.9 | 26.2 | 125 | 0.093 | 0.54 | 215 | - | 2.1 |
| UNO 40/100 | 40 | 3.7 | 32.6 | 100 | 0.145 | 0.84 | 325 | - | 1.6 |
| UNO 40/125 | 40 | 3.7 | 32.6 | 125 | 0.109 | 0.84 | 215 | - | 2.2 |
| UNO 50/125 | 50 | 4.6 | 40.8 | 125 | 0.144 | 1.31 | 215 | - | 2.4 |
| UNO 63/150 | 63 | 5.8 | 51.4 | 150 | 0.151 | 2.08 | 165 | 305 | 3.4 |
| UNO 75/175 | 75 | 6.8 | 61.4 | 175 | 0.155 | 2.96 | 110 | 210 | 5.7 |
| UNO 90/175 | 90 | 8.2 | 73.6 | 175 | 0.199 | 4.25 | 110 | 210 | 5.7 |
| UNO 110/175 | 110 | 10.0 | 90.0 | 175 | 0,287 | 6.36 | 110 | 210 | 5.7 |
| UNO 110/200 | 110 | 10.0 | 90.0 | 200 | 0.199 | 6.36 | 105 [2] | 140 | 7.2 |
| UNO 125/200 | 125 | 11.4 | 102.2 | 200 | 0.286 | 8.20 | 105 [2] | 140 | 7.5 |
| UNO 140/225 | 140 | 12.7 | 114.6 | 225 | 0.285 | 10.32 | 90 [2] | 120 | 9.3 |
| DUO 20 + 20/125 | 20 | 1.9 | 16.2 | 125 | 0.111 | 0.21 | 215 | - | 2.4 |
| DUO 25 + 25/125 | 25 | 2.3 | 20.4 | 125 | 0.134 | 0.33 | 215 | - | 2.4 |
| DUO 32 + 32/125 | 32 | 2.9 | 26.2 | 125 | 0.176 | 0.54 | 215 | - | 2.3 |
| DUO 40 + 40/150 | 40 | 3.7 | 32.6 | 150 | 0.200 | 1.31 | 165 | 305 | 3.3 |
| DUO 50 + 50/175 | 50 | 4.6 | 40.8 | 175 | 0.181 | 2.07 | 110 | 210 | 5.7 |
| DUO 63 + 63/200 | 63 | 5.8 | 51.4 | 200 | 0.219 | 2.07 | 105 [2] | 140 | 7.4 |
| DUO 75 + 75/225 | 75 | 6.8 | 61.4 | 225 | 0.253 | 2.96 | 90 [2] | 120 | 9.1 |

1) Special order production
2) 2.8 m x 1.2 m
Tab. 03-4 Pipe dimensions RAUVIPEX

# 04 Jointing technology and secondary insulation

The following data supplements the corresponding chapter of the Technical Information "RAUTHERMEX and RAUVITHERM Pre-insulated pipe systems", print number 817602, and assumes knowledge of the chapter.

## 04.01 Shroud technology

RAUVIPEX can be used for buried joints with both the REHAU heat shrink shroud system and the REHAU CLIP-FLEX shroud system (see current catalogue).

Fig. 04-1 REHAU heat shrink shrouds

Fig. 04-2 CLIP-FLEX shrouds

| System | Watertightness | Angle deviation | Standard |
|---|---|---|---|
| REHAU heat shrink shrouds | 5 m water column | ± 20° | EN 489 |
| REHAU CLIP-FLEX shrouds | 3 m water column | ± 22.5° | EN 489 |

Tab. 04-1 Watertightness combination of RAUVIPEX pipes and shrouds technology

- RAUVIPEX can be combined with the RAUTHERMEX and RAUVITHERM Pre-insulated pipe systems using the specified shrouds.
- RAUVIPEX is not compatible with the RAUTHERMEX clip shroud system.

# 05 Building connection and wall entry

The following data supplements the corresponding chapter of the Technical Information "RAUTHERMEX and RAUVITHERM Pre-insulated pipe systems", print number 817602, and assumes knowledge of the chapter.

## 05.01 Sealing collar

Fig. 05-1 Sealing collar

For direct integration into in-situ concrete components or for sealing with expanding mortar in masonry, a sealing collar has been specially developed for the RAUVIPEX system to match the outer casing of the pipe.

This achieves a tightness of up to 2 m water column (see current catalogue).

The radon-proof sealing collar is mounted directly onto the RAUVIPEX pipe using a stainless steel jubilee clamp. Tightening torque: 3 Nm

Other wall sealing rings or labyrinth seals are not approved for RAUVIPEX.

## 05.02 Sealing flange

Fig. 05-2 Sealing flange FA 40-B (left) and FA 80-B (right)

The FA 40-B and FA 80-B sealing flanges can be used as a sealing flange in casing pipes or core drill holes for all pipe sizes of the RAUVIPEX system (see current catalogue).

| | FA 40-B | FA 80-B |
|---|---|---|
| Tightness | 3 m water column | 5 m water column |
| | radon leak-proof | |
| Width | 85 mm | 125 mm |
| Implementation | split for retrofitting | |

Tab. 05-1 Technical data and properties of sealing flanges

| Outside pipe diameter | Diameter Core drill hole or casing pipe |
|---|---|
| 100 mm | 150 ± 2 mm |
| 125 mm | 200 ± 2 mm |
| 150 mm | 200 ± 2 mm |
| 175 mm | 250 ± 2 mm |
| 200 mm | 300 ± 2 mm |
| 225 mm | 300 ± 2 mm |

Tab. 05-2 Outer diameter and core bore

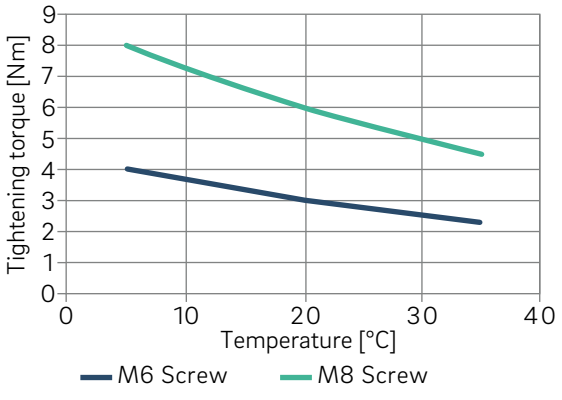



Fig. 05-3 Tightening torques for sealing flange

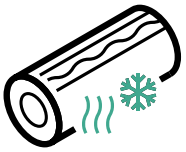
# 06 Planning and sizing heating networks

The following data supplements the corresponding chapter of the Technical Information "RAUTHERMEX and RAUVITHERM Pre-insulated pipe systems", print number 817602, and assumes knowledge of the chapter.

## 06.01 Heat losses

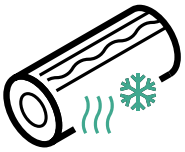
### Heat loss data Q̇/metre [W/m] RAUVIPEX UNO/DUO SDR 11

| Pipe size | Average operating temperature $\vartheta_B$ | | | | | |
|---|---|---|---|---|---|---|
| | 30 °C | 40 °C | 50 °C | 60 °C | 70 °C | 80 °C |
| UNO 25/100 | 2 x 1.9 | 2 x 2.9 | 2 x 3.8 | 2 x 4.8 | 2 x 5.7 | 2 x 6.7 |
| UNO 25/125 | 2 x 1.6 | 2 x 2.4 | 2 x 3.2 | 2 x 4.0 | 2 x 4.7 | 2 x 5.5 |
| UNO 32/100 | 2 x 2.3 | 2 x 3.5 | 2 x 4.6 | 2 x 5.8 | 2 x 7.0 | 2 x 8.1 |
| UNO 32/125 | 2 x 1.9 | 2 x 2.8 | 2 x 3.7 | 2 x 4.7 | 2 x 5.6 | 2 x 6.5 |
| UNO 40/100 | 2 x 2.9 | 2 x 4.4 | 2 x 5.8 | 2 x 7.3 | 2 x 8.7 | 2 x 10.2 |
| UNO 40/125 | 2 x 2.2 | 2 x 3.3 | 2 x 4.4 | 2 x 5.5 | 2 x 6.5 | 2 x 7.6 |
| UNO 50/125 | 2 x 2.9 | 2 x 4.3 | 2 x 5.8 | 2 x 7.2 | 2 x 8.6 | 2 x 10.1 |
| UNO 63/150 | 2 x 3.0 | 2 x 4.5 | 2 x 6.0 | 2 x 7.6 | 2 x 9.1 | 2 x 10.6 |
| UNO 75/175 | 2 x 3.1 | 2 x 4.7 | 2 x 6.2 | 2 x 7.8 | 2 x 9.3 | 2 x 10.9 |
| UNO 90/175 | 2 x 4.0 | 2 x 6.0 | 2 x 8.0 | 2 x 10.0 | 2 x 11.9 | 2 x 13.9 |
| UNO 110/175 | 2 x 5.7 | 2 x 8.6 | 2 x 11.5 | 2 x 14.4 | 2 x 17.2 | 2 x 20.1 |
| UNO 110/200 | 2 x 4.0 | 2 x 6.0 | 2 x 8.0 | 2 x 10.0 | 2 x 11.9 | 2 x 13.9 |
| UNO 125/200 | 2 x 5.7 | 2 x 8.6 | 2 x 11.4 | 2 x 14.3 | 2 x 17.2 | 2 x 20.0 |
| UNO 140/225 | 2 x 5.7 | 2 x 8.6 | 2 x 11.4 | 2 x 14.3 | 2 x 17.1 | 2 x 20.0 |



Tab. 06-1 Heat loss data Q̇/metre [W/m] RAUVIPEX UNO SDR 11

| Pipe size | Average operating temperature $\vartheta_B$ | | | | | |
|---|---|---|---|---|---|---|
| | 30 °C | 40 °C | 50 °C | 60 °C | 70 °C | 80 °C |
| DUO 20 + 20/125 | 2.2 | 3.3 | 4.4 | 5.6 | 6.7 | 7.8 |
| DUO 25 + 25/125 | 2.7 | 4.0 | 5.4 | 6.7 | 8.0 | 9.4 |
| DUO 32 + 32/125 | 3.5 | 5.3 | 7.0 | 8.8 | 10.6 | 12.3 |
| DUO 40 + 40/150 | 4.0 | 6.0 | 8.0 | 10.0 | 12.0 | 14.0 |
| DUO 50 + 50/175 | 3.6 | 5.4 | 7.2 | 9.1 | 10.9 | 12.7 |
| DUO 63 + 63/200 | 4.4 | 6.6 | 8.8 | 11.0 | 13.1 | 15.3 |
| DUO 75 + 75/225 | 5.1 | 7.6 | 10.1 | 12.7 | 15.2 | 17.7 |



Tab. 06-2 Heat loss data Q̇/metre [W/m] RAUVIPEX DUO SDR 11

# 07 Installation of the heat network

The following data supplements the corresponding chapter of the Technical Information "RAUTHERMEX and RAUVITHERM Pre-insulated pipe systems", print number 817602, and assumes knowledge of the chapter.

## 07.01 Additional information on traffic loads

RAUVIPEX can be driven over and loaded up to SLW 60. Static calculations for pipe are recommended depending on the local conditions and the design of the pipe trench.

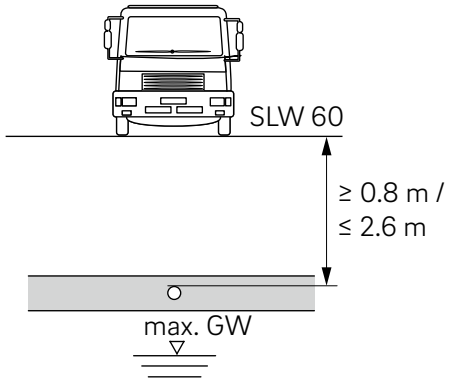



Fig. 07-1 Pipe cover with moving loads over RAUVIPEX

All RAUVIPEX pipe sizes have a ring stiffness of SN 8, making RAUVIPEX a high-load pipe for civil engineering applications.

## 07.02 Trench cross-sections

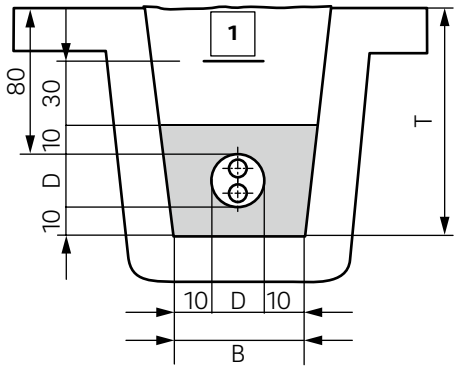



Fig. 07-2 Trench cross-section of RAUVIPEX pipe

Thanks to its very robust pipe construction and special outer casing, RAUVIPEX is also suitable for crushed and granular backfill and bedding material up to a maximum grain size of 16 mm in accordance with Table 07-1.

Fig. 07-3 RAUVIPEX pipe in a trench

In addition to DIN EN 1610, approved coating materials for RAUVIPEX in the pipe area.

| **Backfilling material** | **Actual grain size** [mm] Uniform distribution |
|---|---|
| Backfilling sand | 0-4 |
| Round sand | 0-4 |
| | 0-8 |
| Grit (crushed material) | 2-4 |
| | 4-8 |
| | 4-11 |
| Round gravel Round gravel mixture | 0-16 |
| | 4-8 |
| | 4-16 |
| Gravel mixture (crushed material) | 0-11 |
| | 4-8 |
| Glass sand and glass chippings | 0-8 |
| Glass chippings from Recycled glass | 4-8 |

Tab. 07-1 Grain sizes of various backfilling materials

The pipe area around the shrouds must bebackfilled in line with existing systems with backfilling sand 0-4, with ZFSV or with special protection against mechanical damage.

## 07.03 Bending radii RAUVIPEX

| Typ | Minimum bending radius at 10 °C jacket temperature cm |
|---|---|
| UNO 25/100 | 55 |
| UNO 25/125 | 60 |
| UNO 32/100 | 55 |
| UNO 32/125 | 60 |
| UNO 40/100 | 55 |
| UNO 40/125 | 60 |
| UNO 50/125 | 60 |
| UNO 63/150 | 70 |
| UNO 75/175 | 90 |
| UNO 90/175 | 90 |
| UNO 110/175 | 90 |
| UNO 110/200 | 110 |
| UNO 125/200 | 110 |
| UNO 140/225 | 130 |

Tab. 07-2 Bending radius UNO pipes

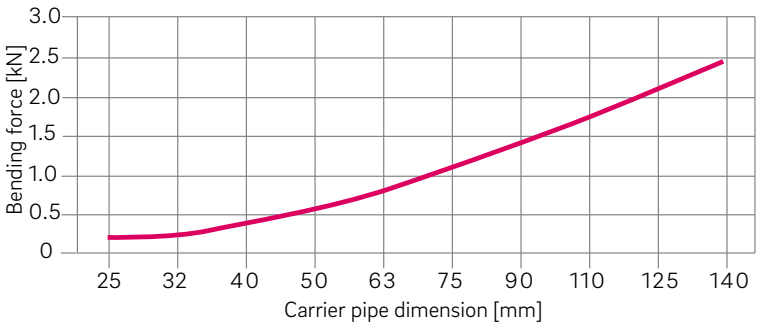
| Type | Minimum bending radius at 10 °C jacket temperature cm |
|---|---|
| DUO 20 + 20/125 | 60 |
| DUO 25 + 25/125 | 60 |
| DUO 32 + 32/125 | 60 |
| DUO 40 + 40/150 | 70 |
| DUO 50 + 50/175 | 90 |
| DUO 63 + 63/200 | 110 |
| DUO 75 + 75/225 | 130 |

Tab. 07-3 Bending radius DUO pipes

## 07.04 Bending forces

Compared to other pipe systems, RAUVIPEX is characterised by its significantly reduced bending forces during installation. This significantly simplifies handling and assembly on the construction site.

**Bending forces RAUVIPEX (at 20 °C)**



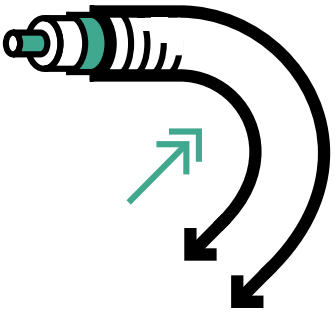
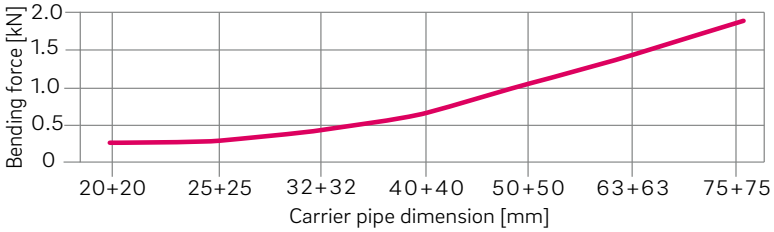



Fig. 07-4 Bending forces UNO pipes



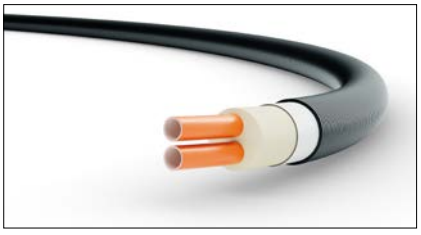



Fig. 07-5 Bending forces DUO pipes

Further extensive system accessories such as end caps, fittings or pre-insulated components for the RAUVIPEX pipe system can be found in the current parts/price list.

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