

Technical data sheet

ARMOPEX

For local and district heating networks

21/10/2025

GENERAL PRODUCT INFORMATION

ARMOPEX district heating pipe system for an operating temperature of up to max. 115°C and a max. operating pressure of 12.0 bar, consisting of:

- ARMOPEX district heating pipe in accordance with EN 15632-1/-2 and TS 17889
- ARMOPEX moulded parts
- ARMOPEX accessories

The required length of the ARMOPEX district heating pipe is delivered to the construction site in one piece in rings. The pipe can be laid in the ground largely without connection points.

ARMOPEX fulfils the highest requirements for use in local and district heating pipes and is also ideal for transporting media in agriculture, food technology, irrigation and mining. The ARMOPEX system is manufactured in accordance with EN 15632-1/-2 and TS 17889.



STRUCTURE

Medium pipe

Materials	High-density polyethylene (HDPE), peroxide cross-linked (PEXa), aluminium barrier, aramid-reinforced (Kevlar mesh), protective polypropylene film
Oxygen barrier layer	Aluminium foil, elongation >20%
Standard	In accordance with CEN/TS 17889:2024
Thermal conductivity	0.38 W/mK, ASTM C1113 for PEXa

Protective casing

Material	Linear low-density polyethylene (LLDPE), seamlessly extruded, UV-resistant
Density	918-922 kg/m ³ , ASTM D792
Thermal conductivity	0.33 W/mK, EN 15632-1

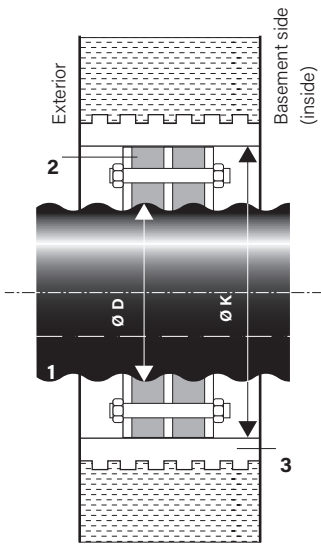
Thermal insulation

Material	CFC-free polyurethane foam (PUR)
Density	50 kg/m ³ , EN 253
Thermal conductivity	0.0199 W/mK at 50°C, EN 253
Water absorption	≤ 10%, EN 15632-1

MOULDED PARTS AND ACCESSORIES

- Y-pipe with steel medium pipe
- Screw connections for PEX with external thread, weld end or as a coupling piece, either straight or as a T-piece
- Clip shell or socket connections
- Shrink-on or PE end caps
- Wall ducts as ring seals or labyrinth wall sealing rings

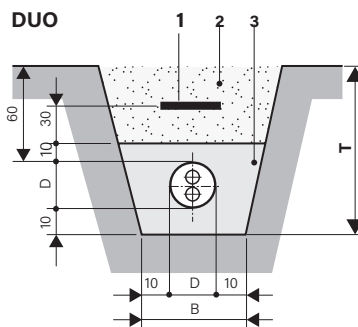
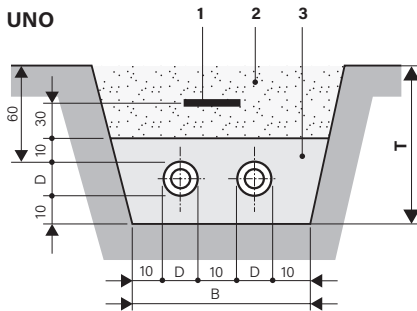
WALL DUCT



- 1 ARMOPEX district heating pipe
- 2 Ring seal, double-sealing 2x 40 mm, Shore hardness 35
- 3 Casing pipe made of fibre cement or coated wall opening

Protective sheath Ø D	Casing pipe/Wall opening Ø K
78	150
93	150
113	200
128	200
143	200
163	250
183	250
202	300

TRENCH PROFILE AND DIMENSIONS



All figures in cm

Protective sheath Ø D mm	Width B cm	Depth T cm
78	45	80
93	50	80
113	55	85
128	55	85
143	60	85
163	65	90
183	70	95
202	75	95

Protective sheath Ø D mm	Width B cm	Depth T cm
113	30	85
128	35	85
143	35	85
163	35	90
183	38	95
202	40	95

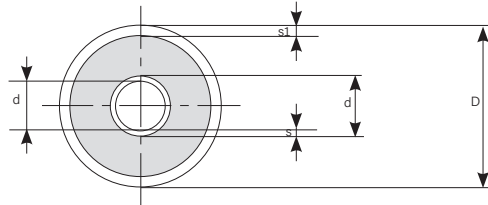
COVERING MATERIAL

Round-edged, washed sand, max. grain size 8 mm

PRODUCT RANGE

ARMOPEX pipes in rings:

Dimensions: 40/91 to 125/182



ARMOPEX heating 12 bar, UNO

Type	PEX carrier pipe d x s mm	Protective sheath D x s mm	U-value [W/mK]	Min. Bending radius m	Volume Carrier pipe l/m	Weight kg/m	Max. Delivery Length m
40/ 91	40 x 3.7	93 x 2.1	0.1380	0.55	0.83	1.40	400
50/111	50 x 4.5	113 x 2.3	0.1460	0.60	1.32	1.97	300
63/126	62 x 5.2	128 x 2.7	0.1583	0.65	2.09	2.55	300
75/142	73 x 5.7	143 x 2.9	0.1698	0.75	2.98	3.18	250
90/162	87 x 6.5	163 x 3.2	0.1811	1.00	4.30	4.18	150
110/162	104 x 7.4	163 x 3.2	0.2444	1.10	6.25	4.62	150
125/182	117 x 7.4	183 x 3.3	0.2453	1.40	8.20	5.52	90