

TECHNICAL DATA SHEET

Revision Date: 7 June 2026

TYCROC PERT

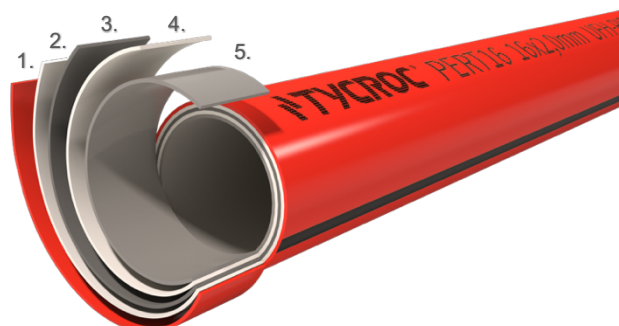
PRODUCT IDENTIFICATION

Product name: Tycroc® PERT

Product type: PE-RT 5-layer oxygen-barrier composite pipe

PRODUCT DESCRIPTION

Tycroc PERT pipe is a high-quality oxygen-barrier 5-layer composite pipe, consisting of PE-RT Type II base layers surrounding a sensitive EVOH oxygen-barrier layer. The layers are fused together with polymer adhesive (A-Polymer), ensuring an inseparable bond. The result is a flexible pipe suitable for both floor and ceiling heating as well as radiator heating, with a guaranteed service life of 50 years.



APPLICATIONS

Tycroc PERT pipes are used for:

- underfloor heating with Tycroc UHP or NOB panel systems,
- underfloor heating in concrete or anhydrite (liquid screed) systems,
- ceiling and floor cooling,
- ceiling or wall heating,
- radiator heating.

MATERIAL COMPOSITION

1. Polyethylene (PE-RT)
2. Adhesive layer (A-Polymer)
3. Oxygen barrier layer (EVOH)
4. Adhesive layer (A-Polymer)
5. Polyethylene (PE-RT)

1.

STORAGE AND HANDLING

Pipes must be transported, stored and handled in a manner that protects them from damage. In harsh weather conditions, protect with cardboard or black polythene. Avoid direct sunlight.

INSTALLATION

Pipes can be installed in Tycroc UHP and NOB underfloor heating panels, in concrete or anhydrite (liquid screed) floors. Connections are made using brass compression or press fittings (DIN Certco / KIWA KOMO certified). For detailed instructions, refer to the Tycroc PERT installation guide.

HEALTH, SAFETY AND ENVIRONMENT

Standard construction site handling and safety requirements apply.

Waste must be handled in accordance with local requirements.

CERTIFICATES AND COMPLIANCE

KIWA KOMO BRL 5602, certificate No. K86478

DIN CERTCO, certificate No. 3V399 PE-RT

Oxygen diffusion barrier in accordance with DIN 4726

Oxygen diffusion barrier in accordance with ISO 17455

European Technical Assessment ETA 17/1013

ISO 10508 class 4 (underfloor heating) and class 5 (radiator heating)

ARTICLES	DIMENSIONS
PERT16-120	Ø 16 × 2,0 mm 120 m
PERT16-240	Ø 16 × 2,0 mm 240 m
PERT16-480	Ø 16 × 2,0 mm 480 m
PERT16-640	Ø 16 × 2,0 mm 640 m
PERT17-120	Ø 17 × 2,0 mm 120 m
PERT17-240	Ø 17 × 2,0 mm 240 m
PERT17-480	Ø 17 × 2,0 mm 480 m
PERT20-120	Ø 20 × 2,0 mm 120 m
PERT20-240	Ø 20 × 2,0 mm 240 m
PERT20-480	Ø 20 × 2,0 mm 480 m
PERT20-640	Ø 20 × 2,0 mm 640 m

TECHNICAL SPECIFICATIONS

Parameter	Value	Standard
Material	PE-RT Type II	ISO 22391
Max. operating temperature (class 5)	90 °C	ISO 10508
Max. operating pressure (class 5)	6 bar	ISO 10508
Thermal conductivity at 20 °C	0,41 W/(m·K)	DIN 52612
Linear thermal expansion coefficient	0,195 mm/(m·K)	DIN 52328
Outer wall roughness	0,007 mm	Prandtl/Colebrook
Oxygen diffusion resistance at 40 °C (class 4)	< 0,32 mg/(m ² ·d)	DIN 4726
Oxygen diffusion resistance at 80 °C (class 5)	< 3,60 mg/(m ² ·d)	DIN 4726
Minimum permitted bending radius	5 × outer diameter (Ø 20: 8 ×)	
Max. circuit length Ø 16	up to 80 m	EVS 941-1:2024
Max. circuit length Ø 17	up to 90 m	EVS 941-1:2024
Max. circuit length Ø 20	up to 120 m	EVS 941-1:2024
Service life	50 years (guaranteed)	

LEGAL NOTICE

The information provided in this technical data sheet is based on knowledge and testing available at the time of preparation and is intended as general guidance only. Installation must be carried out in accordance with the manufacturer's instructions and applicable building regulations. Tycroc OÜ reserves the right to modify product specifications without prior notice.