

# Roth X-PERT S5® floor-heating pipe

## – A floor-heating pipe for all types of underfloor heating

### Description

Roth X-PERT S5® meets all the requirements for an underfloor heating pipe. The pipe is flexible and easy to work with, especially in cold temperatures. The pipe is supplied in the dimensions 10.5 – 16 and 20 mm, and fits all of the Roth underfloor heating systems and relevant fittings.

X-PERT S5® is a 5-layer pipe, includes a co-extruded oxygen diffusion barrier to protect the system from the entry of oxygen.

Production is carried out at the company's own German factories, and is quality-assured in accordance with ISO 9001.

### The Roth X-PERT S5® pipe has many advantages:

- › Longevity
- › High level of heat stability, permissible operating temperature up to 70°C (95°C in the short term) at an operating pressure of 6 bar.
- › Withstands "construction-site treatment"
- › The oxygen oxygen diffusion barrier is located within the pipe wall
- › Great flexibility that makes it easy to work with, including in cold conditions
- › Diffusion-resistant in accordance with DIN 4726



Physical properties of X-PERT S5® pipes			
	10.5 mm	16 mm	20 mm
Heat-conduction capacity W/m K	0.35	0.35	0.35
Longitudinal coefficient of expansion	$1.95 \times 10^{-4}$	$1.95 \times 10^{-4}$	$1.95 \times 10^{-4}$
Minimum bend radius	5 x dia.	5 x dia.	5 x dia.
Pipe roughness, mm	0.007	0.007	0.007
Number of layers in pipe wall	5	5	5
Max. operating temperature, °C	70	70	70
Max. short-term temperature, °C	95	95	95
Max. operating pressure, bar	6	6	6
Weight, Kg/m	0.04	0.10	0.12
Water content L/m	0.05	0.11	0.21
Diffusion-resistant in accordance with	DIN 4726		
Manufactured in accordance with	EN ISO 22391		
<b>Possible delivery lengths:</b>			
70 metres	X		
90 metres		X	
120 metres			X
200 metres	X	X	
240 metres			X
600 metres			X
650 metres		X	

# Roth X-PERT S5® underfloor heating pipe

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- \_\_\_\_\_ Polyethylene PE-RT
- \_\_\_\_\_ Glue
- \_\_\_\_\_ EVOH oxygen barrier
- \_\_\_\_\_ Glue
- \_\_\_\_\_ Polyethylene PE-RT

## Pressure-loss diagram for PE-RT

**Pressure-loss diagram for PE-RT**  
( $\epsilon=0,007$  mm/mean temperature 50°C)

