

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.

Roth 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 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	1.95×10^{-4}	1.95×10^{-4}	1.95×10^{-4}
Minimum bend radius	5 x dia.	5 x dia.	5 x dia.
Pipe roughness, mm	0.0003	0.0003	0.0003
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	0.06	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		
Possible delivery lengths:			
70 metres	X		
90 metres		X	
120 metres			X
140 metres		X	
200 metres	X	X	
240 metres			X
400 metres		X	
600 metres			X
650 metres		X	

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Pressure-loss diagram for PE-RT

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

