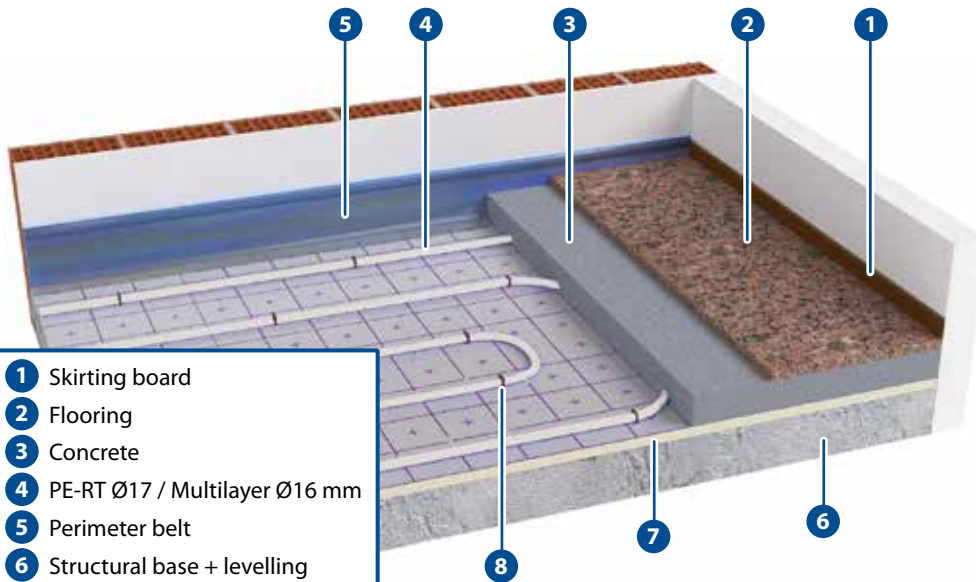


## TECHNICAL DATA SHEET



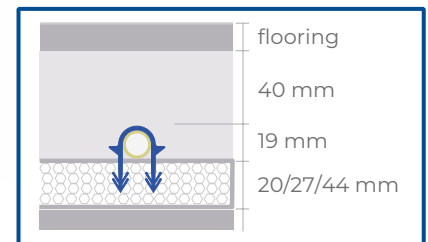
PRL smooth insulating panels are used in underfloor heating and cooling systems to support the hydraulic circuits. Quick and easy to install, they are suitable for any type of pipe. The panels are made of closed-cell sintered expanded polystyrene, with white EPS class 100. A PET film is applied to the insulating material, with geometric patterns to ease the pipe laying at spacing of 50 mm and 100 mm. Roll size: 1000x10000 mm; panel thickness: 20, 27 and 44 mm. The roll panel is also equipped with overlapping edges. CFC-free and CE marking according to UNI EN 13163.



- 1 Skirting board
- 2 Flooring
- 3 Concrete
- 4 PE-RT Ø17 / Multilayer Ø16 mm
- 5 Perimeter belt
- 6 Structural base + levelling
- 7 PRL Panel
- 8 Heat-sealed clips



Size (mm)	Code
10000x1000x20	1045420
10000x1000x27	1045427
10000x1000x44	1045444



PROPERTIES	LEVEL/ CLASS	PANELS (mm)			UNIT	STANDARD
		20	27	44		
Necessary Length	L(3)	10000 ± 3			mm	UNI EN 13163:2015
Necessary Width	W(3)	1000 ± 3				
Total Thickness	T(2)	20 ± 2	27 ± 2	44 ± 2		
Orthogonality	S(2)	± 2			mm/m	
Planarity	P(5)	5				
Thermal conductivity at 10 °C	$\lambda_p$	0,035			W/(m·K)	
Thermal resistance	$R_p$	0,55	0,75	1,25	(m <sup>2</sup> ·K)/W	
Compressive resistance at 10% deformation	CS(10)100	$\sigma_{10} \geq 100$			kPa	
Bending strength	BS150	$\geq 150$			kPa	
Water vapour resistance factor		$\mu = 30 \div 70$				
Water absorption by total immersion	WL(T) 1	$\leq 1$			%	
Steam water permeability		$\delta = 0,009 \div 0,020$			mg/(Pa·h·m)	
Duration of the fire reaction against aging and/or degradation		Fire performance for EPS does not change as time goes by				
Duration of the thermal resistance against aging and/or degradation		EPS thermal conductivity does not change as time goes by				
Reaction to fire for the product as it is sold on the market		Euroclass E				
Size stability 23 °C , 50% R.H.	DS(N)2	± 0,2			%	
Size stability in specific conditions of temperature and humidity 48h , 70 °C	DS(70,-)1	1			%	
Dynamic rigidity		NPD				
Compressibility		NPD				
Dangerous substances		NPD (EN standard test method is not available)				

**Single identification code of the product:** T2-L3-W3-S2-P5-BS150-CS(10)100-DS(70,-)1-WL(T)1-MU(30-70)