Luxusheat - Underfloor Heating - MLCP

KEY BENEFITS >>>

The aluminium core is 100% oxygen diffusion tight, therefore preventing the ingress of any oxygen

Compensates and reduces snap-back forces and heat expansion with changes of temperature

System is designed for easy, safe and fast pipe installation

Highly Flexible yet Form-stable

Available in various coil lengths to simplify installation

Maximum operating temperature (at 70°c) 10 bar

Maximum temperature: 95°c

Made in EU

25 YEAR PIPE WARRANTY

<OVERVIEW

Our PERT-AI-PERT Multilayer pipe is composed by 5 layers using the butt welded system to deliver the highest quality and it is Certified by the most prestigious European Institutes (SKZ, AENOR) complying with the UNE-EN ISO 21003 European regulations and ISO 9001.

The combination of PE-RT and Aluminium provides excellent properties, obtaining the advantages of both materials: Plastic (flexibility, non-corrosive, low thermal conductivity) and Metal (low linear expansion, pressure, and temperature resistance).

PRODUCT LIST >

UFH Only MLCP PIPE COILS

COIL SIZE	PRODUCT CODE
16x2.00mm x 80m	1680MLC
16x2.00mm x 100m	16100MLC
16x2.00mm x 120m	16120MLC
16x2.00mm x 240m	16240MLC
16x2.00mm x 500m	16500MLC

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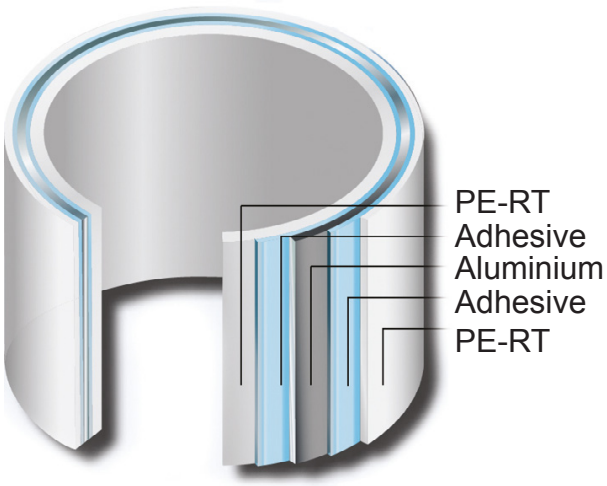
<<< Layers



PE-RT inner layer
Polyethylene with high temperature resistance, according to the regulation UNE-EN ISO 21003.
Adhesive Layer
Specially designed to paste plastic with metal, with a melting point higher than 120ºC
Special butt welded Aluminium alloy designed for pressurized water pipes
Perfect pipe symmetry for Fitting adjustment and major mechanical uniform resistance to water pressure and bending stress (the welded point is the strongest point of the aluminium layer).

PRODUCT CHARACTERISTICS >>>

Physical & Mechanical Characteristics

Characteristic	Value	Unit
Maximum Service Temperature	95	°C
Maximum high Temperature	110	°C
O2 Permeability	<0.0010	g/m3d
Lineal expansion coefficient	0.025	mm/m°K
Thermal conductivity at 60ºC	0.43	W/m°K
Adhesion strength	20	W/m°K
Elongation at break	400	%
Roughness	0.007	mm
Burst pressure	80	bar
Oxidation Induction time (OIT)	> 20	min
Density	> 930	Kg/m³
Heat stability (110ºC-8760h)	Without rupture	bar