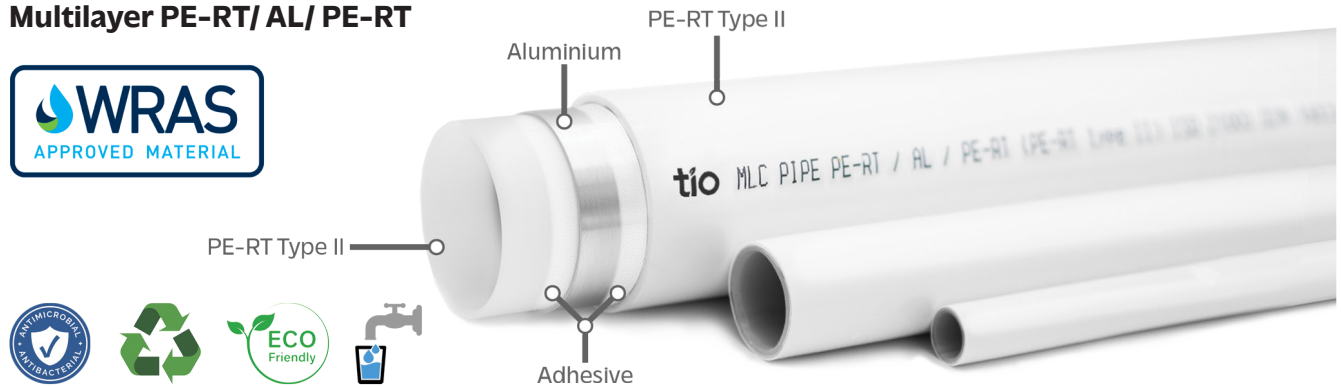


Multilayer PE-RT/ AL/ PE-RT



Tio multilayer pipes cross-link the best qualities of both metal and plastic pipes in one single system. It combines the advantages of aluminium with the corrosion resistance of plastic. The stability of the TIOMLC pipe is ensured by the laser edge welded aluminium. The pipe is built on a 5 layer structure, where the internal and external layers are made of PE-RT type II and the middle layer is made of aluminium and all layers are connected by a special bonding agent.

The pipes internal wall surface is extremely smooth, avoiding corrosion phenomena, limescale or deposits. TIOMLC pipes are flexible and easy to bend. The lightweight of the pipe is also an advantage for its use on wall-mounted installations. TIOMLC pipes can be used for drinking water applications as well as for heating and cooling systems and other industrial applications.

All embedded pipework should be tested in accordance with BSEN 1264-4 prior to the installation of screeds and/or overlay floorings materials.

Applications:

- Heating and Underfloor
- Industrial Facilities
- Surface Heating/Cooling
- Cooling Systems
- Snow and Ice Removal Systems
- Hot and Cold Water Distribution

Diameter (mm)	Tolerance (mm)	Thickness (mm)	Tolerance (mm)
16	16 - 16.3	2.0	1.90 - 2.30

Certifications

PE-RT/ AI / PE-RT pipe produced according to WRAS (UK)

Material:	High temperature resistance polystyrene (PE-RT)
Density:	> 0.941 g/m ³
O2 Permeability:	> 0.001 g/m ³ .d
Working temperature range:	95°C
Maximum temperature:	110°C
Thermal conductivity (60°C):	0.43 W/m ² K
Coefficient of linear extension:	0.025 mm/m ² K
Tensile strength:	>22 N/mm ²
Elongation at break:	>400%
Modulus of elasticity (20°C):	>800 N/mm ²

Design pressure according to ISO 21003	Temperature	Max pressure
	20°C	15 bar
	40°C	10 bar
	60°C	8 bar
	70°C	7 bar

Resistance to internal pressure	40 bar (20°C, h)
	40 bar (20°C, h)
	40 bar (20°C, h)
	40 bar (20°C, h)

Product Code	Product Description	Dimensions
TIOMLC0001	PE-RT / Alu / PE-RT multilayer pipe	16 x 2mm - 100m coil
TIOMLC0002	PE-RT / Alu / PE-RT multilayer pipe	16 x 2mm - 240m coil
TIOMLC0003	PE-RT / Alu / PE-RT multilayer pipe	16 x 2mm - 500m coil
TIOMLC0004	PE-RT / Alu / PE-RT multilayer pipe	16 x 2mm - 200m coil
TIOMLC2020	PE-RT / Alu / PE-RT multilayer pipe	20 x 2mm - 50m coil
TIOMLC2525	PE-RT / Alu / PE-RT multilayer pipe	25 x 2.5mm - 50m coil
TIOMLC3230	PE-RT / Alu / PE-RT multilayer pipe	32 x 3mm - 50m coil