

PRODUCTS FOR THE BUILT ENVIRONMENT



MLC PIPE



TO MIC PIPE PE-AT I AN I PEAT

Our pipe is made under license of the HeliKlima pipe made in the EU by Heliroma Plasticos Centificate Number 2107523

PIPE

MULTILAYER PE-RT / AL / PE-RT - TIO

Raw Material:

PE-RT type II | Aluminium

Standards:

EN ISO 21003 | ISO 22391 | RP 001.71 | HR3.12

Application Fields:

- Drinking water supply systems;
- Heating and cooling systems;
- HVAC systems;
- High temperature heating systems;
- Low temperature heating systems;
- Underfloor heating and colling;
- Compressed air systems.

Profile:

ø 16-75 mm - U | ø 75-110 mm - Flanged



APPROVED FOR



HEATING



DISINFECTION



ANTIMICROBIAL



LEGIONELLA



100%



ECO-FRIENDL

Tio multilayer (TIOMLC) pipes cross-links the best qualities of both metal and plastic pipes in one single system.

It combines the advantages of metal with the corrosion resistance of plastic. The stability of the TIOMLC pipe is ensured by the laser edge welded aluminium.

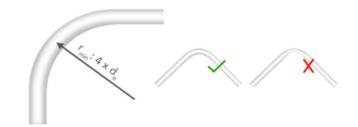
The pipe is built on a 5 layer structure, where the internal and external layers are made of PE-RT type II and middle layer is made of aluminium being all layers connected by a special bonding agent.

TIOMLC pipes can be used for drinking water applications as well as for heating and cooling systems and other industrial applications. The pipe internal wall surface is extremely smooth, avoiding corrosion phenomena and 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.

PIPE BENDING

The PE-RT / AL / PE-RT – TIOMLC pipe, diameters 16mm which can be bent using a bending tool. Make sure to comply with the specified minimum bending radius. The minimum bending radius refers to the centre of the pipe.



PE-RT PIPE

PIPE

PE-RT / PE-RT EVOH PIPE

Raw Material:

PE-RT type II

Standards:

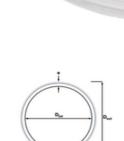
ISO 22391 | DIN 16833 | DIN 16834 | RP01.67

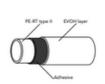
Application Fields:

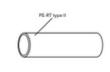
- Underfloor heating and cooling;
- Wall heating and cooling;
- Ceiling heating and cooling;
- Heating systems in general;
- Sanitary system



DIMENSION 16x2.0 EXTERNAL DIAMETER Dext (mm) Min 16 Max16.3 EXTERNAL DIAMETER Dext (mm) Min 2.0 Max 2.2 INNER DIAMETER Dint (mm) 12.0









TIOPER is a pipe made of a specially modified polyethylene – PERT type II, with a unique molecular structure and composition which ensures very good thermal stability, high degree of mechanical strength up to temperatures of 90°C and a good long term hydrostatic strength behaviour.

TIOPER can be supplied in a monolayer without an oxygen barrier – PE-RT type II, or a multilayer pipe with an oxygen barrier – PE-RT type II w/EVOH.

The oxygen barrier is achieved by an ethylene vinyl alcohol – EVOH layer, that prevents oxygen penetration in the system which reduces corrosion within the system, preventing premature failing of system compounds. The EVOH layer provides excellent functional barrier against organic solvents, an excellent and exceptional elasticity, protecting product integrity. In a multilayer pipe, all layers are connected permanently using force-fit methods via an adhesive.

PIPE

Produced within the EU to BS EN ISO 22391 under ISO90001 quality control





3 LAYER PE-RT EVOH UFH PIPE TIOPER0001/TIOPER0002/TIOPER0003

The standard 3 layer PE-ERT pipe is used regularly in screed and is the most common pipe for UFH use.



PERT ALU PERT MULTILAYER PIPE TIOMLC0001/TIOMLC0002/TIOMLC0003/TIOMLC0004

MLCP pipe that is PE-RT/AL/PE-RT Pipe, this has better output characteristics and is easier to install in our floor grid system

HOPERUUUI	TOUNT COIL, 16 X 2.0 3 LAYER PE-KT EVON OFN PIPE
TIOPER0002	240M COIL, 16 X 2.0 3 LAYER PE-RT EVOH UFH PIPE
TIOPER0003	500M COIL, 16 X 2.0 3 LAYER PE-RT EVOH UFH PIPE
TIOPER0004	80M COIL, 12 X 2.0 3 LAYER PE-RT EVOH UFH PIPE
TIOPER0005	240M COIL, 12 X 2.0 3 LAYER PE-RT EVOH UFH PIPE
TIOPER0006	400M COIL, 20 X 2.0 3 LAYER PE-RT EVOH UFH PIPE
TIOPER0007	80M COIL, 10 X 1.25 3 LAYER PE-RT EVOH UFH PIPE
TIOPER0008	240M COIL, 10 X 1.25 3 LAYER PE-RT EVOH UFH PIPE
TIOMLC0001	100M COIL, 16 X 2.0 PERT ALU PERT MULTILAYER PIPE
TIOMLC0002	240M COIL, 16 X 2.0 PERT ALU PERT MULTILAYER PIPE
TIOMLC0003	500M COIL, 16 X 2.0 PERT ALU PERT MULTILAYER PIPE
TIOMLC0004	200M COIL, 16 X 2.0 PERT ALU PERT MULTILAYER PIPE

TIOPEROOO1 100M COLL 16 Y 2 O 3 LAVER PE-PT EVOLUTEH PIPE



TIO Climate Solutions c/o H&H Distribution Unit X&Y The Steventon Depot Hanney Road OX13 6DJ



www.tioclimatesolutions.co.uk 01235 242710 office@tioclimatesolutions.co.uk