

High Tech Pipe System

Multilayer composite pipes (MLCP) of metal and plastic were developed in the early nineties in Finland. Within ten years, the invention had completely changed the entire European market and now is the preferred product for plumbing, heating, and mechanical services and has the greatest market share in many parts of the world.

MLC pipes consist of two layers of plastic with an aluminum layer in the middle. Up to 40mm, the pipe is termed a rigid-flexible pipe. It can be bent by hand or with tools and it retains the shape. This makes it ideal for flexible installations and uses fewer elbows than rigid systems. Plastic normally doesn't suit temperature due to the expansion, but the aluminum layer limits this as well as increasing the strength of the pipe. The pipes are complete with a fittings system, most of which are press-fit brass or plastic fittings.

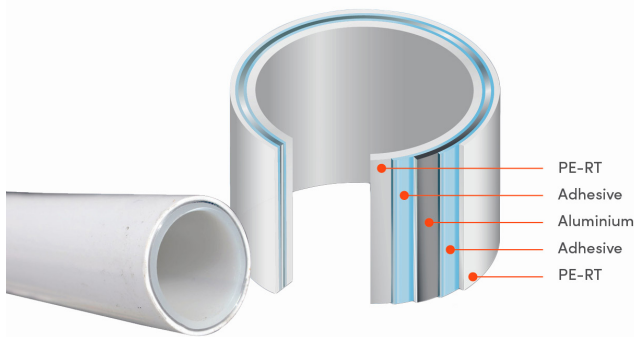
MLC pipe systems have been in NZ since around the year 2000. One of the major brands is Multitubo which is made in Germany and has been distributed by Central Heating New Zealand since 2006. As it is a higher specification than the incumbent polybutylene plumbing systems it has been mainly used in warm water central heating systems. However, due to the



- Lightweight multi-layer design.
- Oxygen-tight composite pipe prevents oxygen diffusion into the heating system.
- Corrosion-resistant Multitubo pipe with high chemical resistance.
- Maximum working pressure and temperature: 1 MPa at 70°C (16, 20, 25, 35mm pipes).
- Maximum working pressure and temperature: 600 kPa at 70°C (40, 50, and 63mm pipes).
- Maximum continuous operating temperature: 70°C for potable water, 80°C for heating.



range of dimensions available and the pre-insulation of pipe coils, it is becoming the system of choice for high-quality plumbing in commercial and residential and for mechanical services of both hot and chilled water. Other uses are in marine applications, compressed air, and industrial processes.



Multitubo piping system has been appraised for use by BRANZ; the multi-layer composite pipe is formed longitudinally overlapped welded aluminum with inner and outer layers of polyethylene raised temperature (PE-RT), tightly bonded to the aluminum with adhesive to form a pipe. Due to its higher specification and the strong flexibility Multitubo Pipe comes with a 25-year warranty.

Product Code	Style
MT16-5T	Composite 16mm Pipe 5m
MT20-5T	Composite 20mm Pipe 5m
MT25-5T	Composite 25mm Pipe 5m
MT32-5T	Composite 32mm Pipe 5m
MT40-5	Composite 40mm Pipe 5m
MT50-5	Composite 50mm Pipe 5m
MT63-5	Composite 63mm Pipe 5m
MT116-200	Composite 11.6mm Pipe 200m Coil
MT16-100	Composite 16mm Pipe 100m Coil
MT16-200	Composite 16mm Pipe 200m Coil
MT16-500	Composite 16mm Pipe 500m Coil
MT20-100	Composite 20mm Pipe 100m Coil
MT25-50	Composite 25mm Pipe 50m Coil
MT32-50	Composite 32mm Pipe 50m Coil
MT40-50	Composite 40mm Pipe 50m Coil