JUPITER Multi-layer composite pipe

16mm x 2mm PE/RT

Multi-layer composite pipe

JUPITER MLC pipe

JUPITER Multi-Layer Composite pipe is the perfect solution for many types of plumbing and heating installation.

**Applications** JUPITER MLC pipe is suitable for use in plumbing systems, radiator connections and underfloor heating.

**Authority** Full certification from all relevant testing and approval bodies. The manufacture is to the highest quality control including BS EN ISO 9001: 2000. It is manufactured in Germany according to DIN 16836. All MLC pipe manufactured in Germany has a minimum design life of 200 years and a manufacturer’s guarantee of 10 years.

**Description** The five-layer composite pipe offers product advantages that are second to none: the aluminium core is 100% oxygen diffusion tight. It compensates and reduces snap-back forces and heat expansion with changes in temperature. The system is designed for easy, safe and fast pipe installations; simply bend, cut-to-length, bevel, join and press.

**Dimensions** JUPITER MLC pipe is available in sizes between 16 mm and 63 mm for a multitude of domestic and commercial applications, from battened walls to riser pipes.

**Performance**

The inner and outer polyethylene pipes prevent scaling and corrosion and its special combination of overlapped aluminium and raised temperature polyethylene (PE-RT) ensures that JUPITER MLC is a full strength plastic alternative to copper and now gives the installer the advantage of both metal and plastic, but with none of the disadvantages.

The advantage of PE-RT pipe is its increased flexibility over PE-X (tighter bend radius) and its 100% airtightness.

PE-RT has a maximum temperature / pressure rating of 70°C @ 10 Bar.

**Bending radius:** 5 x d (external diameter)

**Note on other multi layer pipes**

For plastic pipes (PB, PP-R, PE-X, PE-X-MD), DIN 4726 determines the diffusion rate requirements that have to be satisfied in order to claim that a pipe is diffusion-protected. According to this standard diffusion-protected pipes must have an oxygen diffusion rate of <0.10 g/(m³ x d) per day at 40°C, where d is the internal diameter of the pipe.

Under ideal conditions a newly manufactured pipe that has not been damaged through exposure to ultraviolet light, abrasion etc. should have an oxygen ingress rate of approximately 0.005g/l(m³xd).

Depending on the system temperature etc. the oxygen ingress rate can rise.

PE-X tubes only fulfil the standard but technically are not 100% diffusion safe as pipe with an aluminium core is.