

PE-RT Pipe



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PE-RT pipe

PE-RT stands for 'polyethylene of raised temperature resistance'. Polyethylene has excellent properties at high pressures and temperatures as well as being very flexible and easy to use. It is non-corrosive and has very good resistance to frost. It is also creep-resistant and has a high impact strength, which means that if the pipe is distorted it will return to its original shape within a short period of time. The outer layer protects the oxygen barrier from mechanical damage, moisture and other damaging materials.

Polymer adhesive

This is a functionalised polythene that acts as an adhesive layer between the polyethylene and the oxygen barrier.

EVOH oxygen barrier

This is a barrier layer made up of ethanol vinyl alcohol which acts against oxygen diffusion. It prevents oxygen diffusion up

to 80°C. Oxygen diffusion is a very important factor within underfloor heating. The nature of underfloor heating to cover the whole floor area with pipe creates a huge surface area of plastic, making it vulnerable to its surroundings. It is then essential that the pipe has a very low level of oxygen permeability so that oxygen cannot permeate into the system and cause unnecessary damage and costs. A standard plastic pipe would not meet this level of oxygen permeability.

The pipe is installed with no joints within the floor and even when a pipe does need to be joined after the installation, a simple procedure of exposing and reconnecting the two ends is all that is required. GS Underfloor Heating pipe is supplied with a 75 year product guarantee (replacement of faulty pipes) and 10 year insured manufacturer's guarantee (including all consequential damage). However, if the pipe is not disturbed during its use, it is expected to out live the life of the building itself.