



Mercury P20 Pipe

Mercury P20 pipe has been specifically designed for floor heating applications.

Mercury P20 is a polyethylene pipe – The materials have a unique molecular structure and crystalline microstructure, which provides excellent Long Term Hydrostatic Strength at high temperatures without the need for cross-linking the material.

Mercury P20 has been tested well above one year at 110 °C which allows for extrapolation of the pipes performance beyond 50 years at 70 °C, using the ISO 90809 extrapolation factors. The design stress is the basis for the wall thickness calculations for the various conditions defined in ISO 10508 and national pressure classes.

Mercury P20 pipe has been designed and approved to EN ISO 22391 to withstand operating pressures of 6 bar at a maximum temperature of 60°C. Working pressures and temperatures in floor heating systems are below these limits.

Mercury P20 pipe has an oxygen diffusion barrier to limit oxygen being drawn into the system through the pipe wall, which might otherwise cause internal corrosion of the metal components in the heating system. Mercury P20 pipe is oxygen tight to DIN4726.

With a low surface friction coefficient and an almost mirror like internal finish, pump duties are reduced and scale deposits minimised/eliminated.

- Floor heating technology that turns the whole floor area into a gentle, radiant surface warming the room from the floor up.
- No creaks or groans – Mercury P20 underfloor heating is quiet and unobtrusive without the background noise of a radiator system.
- A 20mm pipe is used to enable the system to be designed with a small temperature drop across the heating loops. This minimises temperature differences in the floor and means that a simple serpentine installation pattern can be used – making it easier to install.
- Mercury P20 UFH systems are designed so that pipes are spaced typically at distances of 300mm - less pipe means that the system is quicker to install.
- Only low temperature hot water is required – ideal for use with condensing boilers for low running costs and maximum fuel efficiency.
- Mercury P20 pipe is suitable for most types of floors and floor coverings.

October 2017

