

Technical Support Sheet

Pipe Characteristics

Acceptable Temperature Range for Gravity Pipes

PIPE TYPE	Acceptable Temperature Range	Jointing	Issues	Source of information
Spun Reinforced Concrete Pipes	Pipes and jointing system can withstand cyclic temperatures changes of 0°C to +55°C	Rubber Ring	 Thermal shock, a rapid change of temperature producing a thermal gradient in the pipe wall, may damage the pipe. Hydura concrete pipe is necessary for sulphate or acid soil resistance 	Hynds Pipe Systems Limited
Vitrified Clay pipes	Pipes and jointing system can withstand cyclic temperature changes of -10°C to +70°C	Rubber Ring	 Thermal shock, a rapid change of temperature producing a thermal gradient in the pipe wall, may damage the pipe. Pipes are resistant to chemical attacks from normal sewage and other harmful effluents in concentrations from pH 0 (sulphuric acid) to pH 14 (caustic soda) 	Keramo Steinzeug "Glazed Vitrified Clay Pipes A Natural Solution"
uPVC Pipes	Class SN 4 to SN 16 uPVC pipes can withstand cyclic temperature change of +10°C to +55°C	Rubber Ring Socketed joints	 SN 16 pipe is recommended for ground temperatures exceeding 30°C Can withstand the Thermal Shock. Rubber ring seals accommodate thermal expansion and contraction, when installed to witness mark, and to manufacturer's instructions. Pipes and seal rings are unaffected by Hydrogen Sulphide 	Iplex Pipelines Ltd
PE Pipes	Can withstand cyclic temperature change of – 10°C to +55°C	Welded Joints	 Can withstand the Thermal Shock. Special design to accommodate expansion and contraction is required for application where frequent or cyclic temperature variation occurs. Unaffected by Hydrogen Sulphide. 	Iplex Pipelines Ltd
Polypropylene (PP) Pipes	Can withstand cyclic temperature change of – 10°C to +60°C, short-term – up to 90°C	Rubber ring socketed joints	 SN 16 pipe is in general recommended for ground temperatures exceeding 35°C. Pipes are resistant to chemical attack from normal sewage (as well as EPDM rings) and to hydrogen sulphide. Can withstand the Thermal Shock. Rubber ring seal accommodate thermal movement of pipes installed to witness mark and to manufacturer's recommendations. 	Waters & Farr

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