



Applications

- Vertical ground source heat exchangers

Features

- Five-year warranty
- Available as single or double loops
- 32 & 40mm diameters (DIN 8074)
- Any length to the nearest metre
- Metre markings
- Made from PE100-RC
- Meets VDI 4060 standards
- Each individual loop is pressure tested

Thermo-Loop® provides the ultimate quality and performance for vertical ground source heat exchangers. They are available in diameters 32 and 40mm, to DIN 8074, as single or double loops in any length to the nearest meter to suit individual project requirements. They can also be supplied complete with an integral sacrificial Tremie Pipe to help ease installation and the grouting procedure.

They are made from virgin grade PE100-RC (polyethylene resistant to crack) material in accordance with BS EN ISO 17855-1 and are rated to 16 bar. PE100-RC is the approved material listed by the GSHPA vertical borehole standards.

The Thermo-Loop® probe foot is designed in accordance with VDI 4060 to ensure a maximum hydraulic loss of 10mbar at 1m³/hr flow and is manufactured to meet the requirements of SKZ HR3.26.

Material Specifications			
Property	Unit	Value	Standard
Density	g/cm ³	0.960	DIN EN ISO 1183
Tensile modulus of elasticity	MPa	1100	DIN EN ISO 527
Yield stress	MPa	23	DIN EN ISO 527
Elongation at yield	%	9	DIN EN ISO 527
Impact strength	kJ/m ²	Without Break	DIN EN ISO 179
Notched impact strength Charpy	kJ/m ²	30	DIN EN ISO 179
Shore hardness	Shore D (15 s)	63	DIN EN ISO 868
Thermal expansion	K ⁻¹	1.8 x 10 ⁻⁴	ISO 11359-2
Thermal conductivity	W/m*K	0.38	DIN EN 12667
Temperature range	°C	-50 to +80	9 Volt