



RAUGEO GROUND-SOURCE PROBES

OPTIMUM RELIABILITY FOR DEMANDING INSTALLATIONS



AUTHORISED
PARTNER

RAUGEO PE-XA PROBES

MAXIMUM RELIABILITY - BURY AND FORGET



RAUGEO PE-Xa probes offer the highest reliability and reassurance for the client. REHAU are unique in offering a 10 year consequential loss warranty for every PE-Xa probe installed.

Using cross-linked polyethylene (PE-Xa) provides the following advantages:

- PE-Xa probe tip has no welded joint which means no potential leakages
- Temperature resistance up to 95°C, therefore ideal for heat storage and ground-source cooling applications
- Resistant to puncture loads
- High resistance to notches and grooves during transport, handling and installation
- Improved bending radius (up to 2x better than PE 100)
- Probe tip protected by special GRP resin

The renowned leakproof EVERLOC™ fitting is used with all REHAU PE-Xa pipes, including RAUGEO, and offers the highest operational reliability.

- Only has 2 components: fitting and sleeve
- Uses the memory effect of PE-Xa pipe to form permanent seal
- Can be done in all weather conditions (unlike electrofusion welding)
- Fast and reliable connections
- Full range of fittings available

All REHAU PE-Xa probes are double-U loop probes to offer further built in redundancy.

 REHAU can also produce special PE-Xa probes for use in depths up to 800m.

RAUGEO PE-RC AND PE 100 PROBES

NEW GENERATION OF POLYETHYLENE PROBES



REHAU's new generation of ground-source probes are made of PE-RC, which stands for *Polyethylene Resistant to Crack*. It is defined as an advanced non-cross linked polyethylene, characterised by longer lateral chains compared to PE 100. These create an increased resistance to stress cracking and puncture loads (Full Notch Creep Test > 3,300h). All the other properties of PE-RC are the same as conventional PE 100 (temperature resistance, requirement for welded connections).

All REHAU PE-RC and PE 100 probes are factory welded to the German SKZ HR 3.26 probe standard (externally monitored) and come complete with SKZ certification on every probe.

The probe tip includes vertical ribbing and is arrowed for a safer installation. This ribbing provides

more secure mechanical protection for the welded probe tip.

RAUGEO probe weights are available in 12.5kg and 25kg options and can be used with single-U or double-U probes. The same weight is used for all 3 pipe materials and is easy to install.

Available diameters for PE-RC and PE 100 probes:

Probe Dimensions	Length (m)
32mm x 2.9mm	50-150
40mm x 3.7mm	60-300



FURTHER REHAU PROGRAMS



RAUGEO Manifold Chamber



RAUGEO Modular Manifold



RAUGEO PE-Xa Helix Probe



Coaxial probes for geothermal radial drilling



RAUVITHERM PE-Xa Pre-Insulated Pipe



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