

KOMO® product certificate
K84664-5



Valid from **2025-10-01** Replaces **K84664-04**
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GEROTHERM® PE100 fittings for geothermal energy systems (feet for soil heat exchangers and fittings for horizontal supply and return pipes)

HakaGerodur AG

STATEMENT BY KIWA

This product certificate is based on Guideline/BRL 5219 "Plastics piping systems intended for closed geothermal energy systems" dated 1 September 2023, issued according to the Kiwa-Regulation for Certification.

The quality system and the product characteristics of this product are checked periodically. Based on this, **Kiwa declares that** there is legitimate confidence that:

Upon delivery, the product supplied by the certificate holder meets the requirements:

- Of the technical specifications laid down in this product certificate,
- The product requirements laid down both in this product certificate and in the Guideline/BRL.

Provided the product / packaging / delivery documents is/are accompanied by the KOMO® quality mark in the manner set out in this product certificate.

Wim van Loon
Managing Director Nederland

This product certificate is also included on the KOMO foundation websites: www.komo.nl and www.komo-online.nl. Users of this product certificate are advised to check whether it is still valid. For this purpose consult the website of Kiwa: www.kiwa.com.

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Assessed is:
• Quality system
• Product
Periodic control

K84664-5**GEROTHERM® PE100 fittings for geothermal energy systems (feet for soil heat exchangers and fittings for horizontal supply and return pipes)****TECHNICAL SPECIFICATION**

This product certificate relates to the product characteristics of HDPE fittings intended for closed geothermal energy systems according to evaluation guideline BRL 5219.

The following product(s) are part of this product certificate:

- PE100 feet for soil heat exchangers consisting of U-bends and plugs with diameters 25mm, 32mm, 40mm and 50mm;
- PE100 Y-pieces 32-40mm and 40-50mm;
- PE100 fittings for horizontal supply and return pipes as part of the closed geothermal energy system according to table 1;
- Probe foot protection cover, weight container and iron weight.

The PE100 feet for closed geothermal energy systems are part of a standard vertical system, class cold and designed to be used for operational pressures of maximum 16 bar (SDR 11), 20 bar (SDR 9) or 25 bar (SDR 7,4).

The colour of the products is black.

Table 1 – Specification of the fittings for horizontal supply and return pipes

Material: PE100	
Nominal pressure: PN16	
Description: electrofusion fittings	
Coupler	d25, d32, d40, d50
Elbow 90°	d25, d32, d40, d50
Elbow 45°	d25, d32, d40, d50

MARKING AND DESIGNATIONS

The products are marked with the KOMO® - image mark or KOMO® - word mark.

The realization of the KOMO® - image mark is as follows: :

**Feet for soil heat exchangers, Y-pieces and fittings**

- KOMO® word mark or KOMO® logo (if not possible the KOMO® word mark or KOMO® logo shall be affixed only on the smallest packaging);
- Name of the certificate holder, factory name, trade name or company logo;
- Nominal outside diameter in mm of the corresponding pipe;
- Production code or production date.

Location of the marks: on every product.

The realization of the marks is as follows: durable and indelible.

The smallest packaging of the auxiliary parts and fittings are to be provided with at least the following information:

- KOMO® word mark or KOMO® logo;
- Certificate number of the technical approval-with-product certificate;
- Name of the certificate holder, factory name, trade name or company logo;
- Nominal outside diameter in mm of the corresponding pipe;
- “Bestemd voor toepassing in gesloten bodemenergiesystemen”;
- Production code or production date.

Location of the marks: on every package.

The realization of the marks is as follows: clearly and indelible on every packaging.



K84664-5**GEROTHERM® PE100 fittings for geothermal energy systems (feet for soil heat exchangers and fittings for horizontal supply and return pipes)**

PRODUCT CHARACTERISTICS

The products are in accordance with the product requirements as laid down in BRL 5219.

APPLICATION AND USE

The products are intended to be used for closed geothermal energy systems, with a lifetime of 50 years at a temperature profile of -20 °C till +20 °C and with a nominal operating pressure of maximum 16 bar or 20 bar.

The products are to be stored and installed in such a way that they are not exposed to direct sunlight.

RECOMMENDATIONS FOR USERS

Check on delivery of the products listed under the “technical specification” whether:

- The product(s) and material(s) ordered are delivered in accordance with the agreement you made.
- The brand and the method of marking is correct
- No defects or damage is visible (for example, resulting from the transportation).

If on the basis of the foregoing you decide to proceed to rejection, please contact

- HakaGerodur AG;

And if necessary,

- Kiwa Nederland B.V.

Carry out storage, transport and processing in accordance with the provisions as included in this product certificate and/or documents of the certificate holder.

Check whether this product certificate is still valid, consult the website www.kiwa.com/en.

