



KOMO®

# Technical-approval-with product certificate K45516/07



Issued 2023-03-01 Replaces K45516/06

Valid until Indefinite Dated 2017-05-01

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PE-RT/Al system

## HakaGerodur AG

### STATEMENT OF KIWA

This technical approval-with-product certificate on the basis of BRL 5611 Plastics piping systems of PE-RT/Al intended for heating installations: radiator connections issued on 25 October 2016 by Kiwa, in accordance with the Kiwa Regulation for Certification.

The quality system and the product characteristics belonging to the PE-RT/Al system are checked periodically and the performance of the PE-RT/Al system in the application as floor heating is assessed. The basic principles for the assessment are checked periodically.

Based on this Kiwa declares that:

- legitimate confidence exists that the by the holder of the technical approval- with-product certificate delivered PE-RT/Al system comply with:
  - the technical specifications as laid down in this technical approval-with-product certificate;
  - the product requirements as laid down in this technical approval-with-product certificate, provided that they have been marked the PE-RT/Al system with the KOMO®-mark in the manner as indicated in this technical approval-with-product certificate;
- the PE-RT/Al system provides the performances as described in this KOMO technical approval-with-product certificate, provided that:
  - the application conditions and technical specifications as described in this KOMO approval-with-product certificate are met;
  - the manufacturing takes place according to the processing methods as laid down in this technical approval-with-product certificate.

Within the framework of this KOMO technical approval-with-product certificate there is no inspections with regard to the production of other parts of the PE-RT/Al system or the processing of the PE-RT/Al system.

Ron Scheepers  
Kiwa

*Technical-approval-with-product certificate is also included on the KOMO foundation websites: [www.komo.nl](http://www.komo.nl) and [www.komo-online.nl](http://www.komo-online.nl).*

*Users of this technical-approval-with-product certificate is advised to check whether it is still valid. For this purpose consult the website of Kiwa: [www.kiwa.nl](http://www.kiwa.nl).*

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**Assessed is:**

- Quality system
- Product
- Performance in the application
- Periodic control

CERTIFICATE

474200612

PE-RT/Al system

**TECHNICAL SPECIFICATION**

**Subject**

PE-RT/Al system

**Product characteristics**

The product complies to BRL 5611 Plastics piping systems of PE-RT/Al intended for heating installations: radiator connections.

The system consists of:

- PE-RT/Al/PE-HD and PE-RT/Al/PE-RT pipes manufactured by HakaGerodur AG, certificate K20900;
- IPANA metal press fittings manufactured by IPA, certificate K11612;
- Protection pipes manufactured by Maincor Rohrsysteme GmbH & CO. KG, certificate K11408;
- Protection pipes manufactured by Hegler Plastics GmbH, certificate K13791.

**Specification**

The dimensions of the pipe in the table below are part of this certificate.

Nominal outside diameter (mm)	Wall thickness (mm)	Wall thickness aluminium layer (mm)	
		Hakathen – L	Hakathen
14 <sup>1)</sup>	2,0	0,18	-
16	2,0	0,2	0,4
20	2,0	0,25	0,4
25	2,5	0,35	0,5
26	3,0	0,35	0,5
32	3,0	0,5	-
40	3,5	0,5	-

<sup>1)</sup> Only PE-RT/Al/PE-RT

**Colour:**

- Pipes: opaque within/ white outside.
- Fittings: brass

**Remarks:**

The press profiles as stated below are part of this certificate:

- Press profile: TH: all diameters except 14 mm
- Press profile: TH-U: all diameters
- Press profile: U: 16 and 20 mm
- Press profile: H: 26 and 32 mm

The pipes are also suitable for floor heating.

**MARKING**

The products shall be marked with the KOMO® mark.

**Pipes**

The minimum required marking on the pipes shall be:

- KOMO (or KOMO® word mark) + class 5/ 10 bar;
- material identification: PE-RT type 2;
- the build up of the pipe: PE-RT/Al/PE-HD or PE-RT/Al/PE-RT;
- certificate number of accompanying technical approval-with-product certificate of the piping system;
- the manufacturer's name, trade name, system name or logo;
- nominal outside diameter in mm;
- nominal wall thickness of the pipe in mm;
- production code.

The realization of the marks is as follows: clearly, durable and indelible at intervals of not more than 2 meters.



## PE-RT/Al system

### Fittings

The minimum required marking on the fittings shall be:

- KOMO (if not possible KOMO only on the smallest packaging);
- the manufacturer's name, trade name or logo;
- nominal outside diameter of the corresponding pipe;
- production code.

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

The minimum required marking on the smallest packaging unit of the fitting shall be:

- KOMO (or KOMO<sup>®</sup> word mark);
- certificate number of the accompanying technical approval-with-product certificate of the piping system, according the marking of the belonging pipe;
- the manufacturer's name, trade name, system name or logo;
- material identification if the fitting body is made of plastics;
- nominal outside diameter and nominal wall thickness of the corresponding pipe in mm.

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

### Protection pipes

The minimum required marking on the protection pipes shall be:

- KOMO (KOMO<sup>®</sup> word mark);
- the manufacturer's name, trade name, certificate number of the protection pipe or the certificate number of the belonging technical approval (system) certificate.

The realization of the marks is as follows: clearly and indelible at intervals of not more than 2,5 m.

### Logistics

Production and assembly of the system is laid down in the annex of the certification agreement.

### PROCESSING

The supplier shall provide installation instructions, approved by Kiwa. A reference to these instructions shall be made at or near the packaging. The instructions are published in the Dutch language and contains at least specific information with regard to storage, transport, processing temperature and construction of the joints.

So-called "combination boilers" are often applied in individual house heating systems. In such boilers, no double separation between drinking water and heating medium exists. A leak in the single separation may result in the heating medium coming into contact with drinking water. Because of this it is important that in case additives are added to the heating medium a Kiwa product certificate for these additives has been issued.

The heat emission to the floor is dependent on the thickness of the finishing coat and the mutual distance between the pipes. The preconditions have to be clearly described in the instructions.

### PERFORMANCES

1. The system is oxygen tight.
2. All joints are leak tight and possess sufficient clamp force to resist external influences.

### PERFORMANCES OF THE PRODUCTS

The medium pipes and fittings are designed for heating installations: radiator connections and floor heating systems with a lifetime of 50 years at an operating temperature profile according to class 4/ 5 of NEN-ISO 10508 and an allowable working pressure of maximum 10 bar. The corrugated protection pipes have to protect the medium pipes for radiator connections in case the medium pipes are embedded.

### TIPS FOR THE USER

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



## PE-RT/Al system

- 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 the storage, transport and processing in accordance with the provisions included in this technical-approval-with-product certificate and/or documents of the certificate holder.