



## Technical approval-with-product certificate **K105506/01**

Issued 2020-08-01

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### **PE-RT/Al KAN-therm UltraLine piping system**

#### STATEMENT BY KIWA

With this technical approval-with-product certificate, issued in accordance with the Kiwa Regulations for Certification, Kiwa declares that legitimate confidence exists that the products supplied by

### **KAN Sp. z o.o.**

as specified in this technical approval-with-product certificate and marked with the Kiwa®-mark in the manner as indicated in this product certificate may, on delivery, be relied upon to comply with Kiwa evaluation guideline BRL-K536 G "Plastics piping systems of PE-RT/Al intended for transport of hot and cold drinking water" dated 15-12-2011 inclusive amendment sheet dated 13-03-2018.

Within the framework of this technical approval-with-product certificate Kiwa does not impose any inspections with regard to the production of other parts of the KAN-therm UltraLine piping system, nor the manufacturing of the KAN-therm UltraLine piping system itself.

Ron Scheepers  
Kiwa

*Publication of this certificate is allowed.*

*Advice: consult [www.kiwa.nl](http://www.kiwa.nl) in order to ensure that this certificate is still valid.*

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**Certification process  
consists of initial and  
regular assessment of:**

- quality system
- product

PE-RT/Al KAN-therm UltraLine piping system

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**TECHNICAL SPECIFICATION****Subject**

PERT/Al KAN-therm UltraLine piping system.

**Product characteristics**

The products comply to BRL K536-G Plastics piping systems of PE-RT/Al intended for transport of hot and cold drinking water.

The system consists of:

- PE-RT/Al/PE-RT (d14) pipes manufactured by Becker Plastics (certificate K44813);
- PE-RT/Al/PE-RT (d16, d20, d25, d32) pipes manufactured by HakaGerodur (certificate K21006);
- Metal sliding sleeve fittings manufactured by KAN Sp. Z.o.o. (certificate K42763);
- PPSU sliding sleeve fittings manufactured by KAN Sp. Z.o.o. (certificate K42677).

**Specification**

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

**PE-RT/Al/PE-RT**

| Nominal outside diameter<br>(mm) | Wall thickness<br>(mm) | Thickness aluminium<br>(mm) |
|----------------------------------|------------------------|-----------------------------|
| 14                               | 2,0                    | 0,2                         |
| 16                               | 2,2                    | 0,2                         |
| 20                               | 2,8                    | 0,25                        |
| 25                               | 2,5                    | 0,35                        |
| 32                               | 3,0                    | 0,5                         |

Colour:

- PE-RT/Al/PE-RT (14 mm) pipes: natural inside / white or silver outside;
- PE-RT/Al/PE-RT (16-32 mm) pipes: natural inside/ white outside;
- Metal fittings: bronze;
- PPSU fittings: white.

**Fitness for contact with drinking water**



The pipes and fittings used in this system are approved on the basis of the requirements for hygienic aspects set in the "Regeling materialen en chemicaliën drink- en warm tapwatervoorziening" dated 01-07-2017; ("Materials and chemicals in the supply of drinking water and warm tap water Regulation"; published in the Government Gazette). The criteria for these hygienic aspects are recorded in the respective product certificates.

**MARKING**

The products shall be marked with the Kiwa-mark.

**Pipes**

The minimum required marking on the pipes shall be:

- **KIWA**  or  \* + class 2 /10 bar;
- material identification: PE-RT type 2;
- the build up of the pipe; 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.





\*) for smaller diameters permitted by Kiwa.

## PE-RT/Al KAN-therm UltraLine piping system

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### Fittings


The minimum required marking on the fittings shall be:

- **KIWA**  or on small products  or  or **KK** \* or **KK** \* (if not possible **KIWA**  only on the smallest packaging unit)\*\*;
- the manufacturer's name, trade name or logo;
- nominal outside diameter of the corresponding pipe;
- production code.

Location of the marks: on every fitting.

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

The smallest packaging unit of the fittings are provided with at least the following information:

- **KIWA** 
- 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.

Location of the marks: on every package.

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

\*) for small fittings marking with only KK is permitted.

\*\*) only after approval by Kiwa.

### LOGISTICS

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

### APPLICATION AND USE

The medium pipes and fittings are designed for drinking water installations with a lifetime of 50 years at an operating temperature profile according to class 2 of NEN-ISO 10508 and an allowable working pressure of maximum 10 bar.

### RECOMMENDATIONS FOR CUSTOMERS

Check at the time of delivery whether:

- the supplier has delivered in accordance with the agreement;
- the mark and the marking method are correct;
- the products show no visible defects as a result of transport etc.

If you should reject a product on the basis of the above, please contact:

- KAN Sp. z o.o.
- and, if necessary,
- Kiwa Nederland B.V.

Consult the supplier's processing guidelines for the proper storage, transport and processing methods.