



Technical-approval-with-product certificate **K42737/08**

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Replaces K42737/07

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CERTIFICATE

Smartpipe 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

WRW-Westfälische Rohrwerke GmbH

As specified in this technical approval-with-product certificate and marked with the Kiwa[®]-mark in the manner as indicated in this technical approval-with-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 plastics piping system, nor the manufacturing of the plastics piping system itself.

Ron Scheepers
Kiwa

Publication of this certificate is allowed.

Advice: consult www.kiwa.nl in order to ensure that this certificate is still valid.

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Smartpipe piping system

PRODUCT SPECIFICATION

Plastics piping systems of PE-RT/Al PE-RT intended for the transport of cold and heated drinking water according to BRL-K536 part G.

The system consists of:

- PE-RT/Al/PE-RT Pipes manufactured by WRW-Westfalische Rohrwerke G.m.b.H (certificaat K42738);
- Metal Fittings manufactured by IPA Produktions- & Vertriebsges. G.m.b.H (certificaat K11610);
- Corrugated protection pipes manufactured by Maincor Rohrsysteme GmbH & Co. KG (certificate K5123).

The pipe dimensions as indicated in the table below belong to this certificate.

Nominal outside Diameter (mm)	Wall thickness (mm)	Wall thickness Aluminium (mm)
16	2,0	0,20
20	2,0	0,24
20	2,25	0,24
25	2,5	0,30
26	3,0	0,30
32	3,0	0,35

Metal press fittings are used from IPA.

The jointing is made by special crimping tools, with press contour "TH".

Colour: transparent inside / white or red outside.

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 are marked with the Kiwa-mark.

Pipes

The minimum required marking on the pipes shall be:

- **KIWA**  or  * + Class 2/ 10 bar;
- the manufacturer's name, trade name, system name, logo or certificate number of accompanying technical approval (system)certificate;
- material identification: PE-RT type 2;
- the buildup of the pipe: PE-RT/Al/PE-RT;
- nominal outside diameter and nominal wall thickness of the pipe in mm;
- production code.

Location of the marks: on every pipe at intervals of not more than 2 m.





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

*) for smaller diameters permitted by Kiwa.

Smartpipe piping system

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)**;
- manufacturer's name, trade name or logo;
- nominal outside diameter of the corresponding pipe in mm;
- production code.

Location of the marks: on every fitting.

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

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

- **KIWA** ;
- manufacturer's name, trade name, system name, logo or certificate number of the accompanying technical approval (system) certificate, in accordance with the marking of the connecting pipe;
- nominal outside diameter and nominal wall thickness of the corresponding pipe in mm;
- material identification in case the fitting body is made of plastics.

Location of the marks: on every package.

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

*) for small fittings marking with only KK is permitted

***) only after approval by Kiwa

Protection pipes

The minimum required marking on the protection pipes shall be:

- Kiwa (or Kiwa® 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.

APPLICATION AND USE

The piping system is intended to be used for the transport of cold and hot drinking water according to a temperature profile class 2 of ISO 10508 and an allowable working pressure of maximum 10 bar.

The protection pipes have to protect the medium pipes against the influence of light in case the medium pipes are declared transparent.

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:

- WRW-Westfälische Rohrwerke GmbH

and, if necessary,

- Kiwa Nederland B.V.

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