



Technical approval-with-product certificate **K92045/04**

Issued 2019-08-15

Replaces K92045/03

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KE-KELIT KELOX Multilayer 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

KE KELIT Kunststoffwerk 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.

Ronald Karel
Kiwa

Publication of this certificate is allowed.

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

ATTESTATION

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

- quality system
- product

KE-KELIT KELOX Multilayer Piping System

TECHNICAL SPECIFICATION

Subject

KE-KELIT KELOX Multilayer Piping System

Product characteristics

The product complies 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 pipes manufactured by WRW Westfälische Rohrwerke GmbH (certificate K42738);
- Brass press and push fittings manufactured by KE KELIT Kunststoffwerk Gesellschaft m.b.H. (certificate K91982);
- KELOX PROtec PPSU push fittings (16, 20 and 25 mm) and KELOX KWX PPSU press fittings (16, 20, 25, 26 and 32mm), manufactured by KE KELIT Kunststoffwerk Gesellschaft m.b.H. (certificate K92050).

Specification

The dimensions of the pipe in combination with the KELOX PROtec PPSU and brass fittings according to the table below are part of this certificate.

Nominal outside Diameter (mm)	Wall thickness (mm)	Wall thickness Aluminium (mm)
16	2,0	0,20
20	2,25	0,24
25	2,5	0,30
32	3,0	0,35
40	4,0	0,5
50	4,5	0,5
63	6,0	0,5
75	7,5	0,5

Colour:

- PE-RT/Al pipes: transparent inside / white or blue outside;
- Metal press fittings 16 – 75mm: grey;
- Metal push fittings 16-20-25-32 mm: grey;
- KELOX PROtec PPSU push fittings 16-20-25 mm: natural / beige.

The connection of the brass fittings are made with a special compression tool (press contour U).

The dimensions of the pipe in combination with the KELOX KWX PPSU press fittings according to the table below are part of 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

Colour:

- PE-RT/Al pipes: natural inside / white or blue outside;
- KELOX KWX PPSU press fittings (16, 20, 25, 26 and 32mm): natural / beige.

KE-KELIT KELOX Multilayer Piping System

Remarks:

- Two KELOX KWX PPSU press fitting types are applicable, MM and MC;
- The jointing of the KELOX KWX PPSU press fittings is made by special crimping tools, with press contour:
 - MM fitting: "TH, H and U";
 - MC fitting: "U".

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.

Fittings


The minimum required marking on the fittings shall be:

- **KIWA**  or on small products  or  or  * 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.

KE-KELIT KELOX Multilayer Piping System

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:

- KE KELIT Kunststoffwerk GmbH

and, if necessary,

- Kiwa Nederland B.V.

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