



Technical-approval-with-product certificate **K5173/06**

Issued 2021-08-15

Replaces K5173/06

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CERTIFICATE

Uponor Q&E 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

UPONOR 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 D "Plastics Piping Systems of PE-X, for the transport of hot and cold drinking water" dated 15-12-2011 inclusive amendment sheet dated 10-03-2015.

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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Certification process
consists of initial and
regular assessment of:

- quality system
- product

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PRODUCT SPECIFICATION

The products mentioned below belong to this technical approval-with-product certificate.

Plastics piping systems of PE-X intended for the transport of cold and heated drinking water according to BRL-K536 part D.

The system consists of:

- pipe: Mono layer PE-Xa, Uponor GmbH, certificate K5141;
- pipe: 4 layer PE-Xa/EVOH white, Uponor GmbH, certificate K5141;
- fittings: metal fittings with a plastic sleeve (Quick&Easy) Uponor GmbH, certificate K6434;
- corrugated protection pipe, Uponor GmbH, certificate K23021.

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

Mono layer PE-Xa Colour: natural		4- layer PE-Xa/adhesive/EVOH/adhesive Colour: white	
Nominal outside Diameter (mm)	Wall thickness (mm)	Nominal outside Diameter (mm)	Wall thickness (mm)
16	2.2	12	1.7
20	2.8		
25	3.5		
32	4.4		
40	5.5		
50	6.9		
63	8.6		
75	10.3		
90	12.3		
110	15.1		

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-Xa;
- The build-up of the pipe; PE-Xa or PE-Xa/EVOH;
- 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 realisation of the marks is as follows: clear durable and indelible.

*) for smaller diameters permitted by Kiwa.

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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)**;
- 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 realisation 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 realisation 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 realisation 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.

Corrugated protection pipes are compulsory for PE-X pipes which are not opaque in order to prevent the possible growth of algae in the pipe.

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:

- UPONOR GmbH

and, if necessary,

- Kiwa Nederland B.V.

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