

Technical-approval-with-product certificate K93147/04



Issued 2023-07-15

Replaces K93147/03

Page 1 of 3

SYSTEMPEX

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

Van Marcke NV

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 E** "Plastics piping systems of PE-X/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 (product), nor the manufacturing of the (product) 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

Plastics piping systems of PE-X/Al intended for transport of hot and cold drinking water

TECHNICAL SPECIFICATION

Subject

SYSTEMPEX

Product characteristics

The product complies to BRL K536-E Plastics piping systems of PE-X/Al intended for transport of hot and cold drinking water.

The system consists of:

- Plastic pipes of PE-Xb/Al/PE-Xb;
- Metal press fittings.

Specification

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

| Nominal outside diameter (mm) | Wall thickness (mm) | Wall thickness aluminum layer (mm) | Pressing profile fittings |
|-------------------------------|---------------------|------------------------------------|---------------------------|
| 16 | 2,0 | 0,20 / 0,30 | TH |
| 20 | 2,0 | 0,25 / 0,40 | TH |
| 26 | 3,0 | 0,35 / 0,58 | TH |
| 32 | 3,0 | 0,40 / 0,75 | TH |
| 40 | 3,5 | 0,80 | TH |
| 50 | 4,0 | 1,00 | TH |
| 63 | 4,5 | 1,20 | TH |

Colour: Inner pipe Natural
Outer pipe White
Colour of the fitting: Body Brass
Press sleeve Stainless steel

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-Xb;
- the build up of the pipe: PE-Xb/Al/PE-Xb;
- 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.

Plastics piping systems of PE-X/Al intended for transport of hot and cold drinking water

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.

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:



- 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.

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 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.

The corrugated protection pipes have to protect the medium pipes in case the medium pipes are embedded.

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:

- Van Marcke NV
- and, if necessary,
- Kiwa Nederland B.V.

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

Certification-agreement K93147

Appendix 1

Commencing date: 2023-07-15

Flow schedule

The use of the Kiwa Product certificate and the Kiwa quality mark is only granted in combination with the products made by the producers mentioned hereafter and which are stated in the specifications of the certificates to the agreements with the numbers mentioned below.

| | | | |
|--------------------------------|---|-----------------------------|--------|
| Valsir S.p.A. | Localita Merlaro 2 25078 VESTINE (BS) Italy | Mixal and Mixalpex pipes | K88470 |
| Idrosanitaria Bonomi S.p.A. | Via Monsuello 36 25065 LUMEZZANE S.S. Italy | Metal Press Fittings | K45999 |

| | | | |
|--------------------------------|---|-------------------------|--------|
| Valsir S.p.A | Localita Merlaro 2 25078 VESTONE (BS) Italy | Pexal Pipes | K22718 |
| Idrosanitaria Bonomi S.p.A. | Via Monsuello 36 25065 LUMEZZANE S.S. Italy | Metal Press Fittings | K45999 |

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| Valsir S.p.A. Localita Merlaro 2 25078 VESTONE (BS) Italy |
| Mixal and Mixalpex piping system |
| K88459 |

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|--|
| Valsir S.p.A. Localita Merlaro 2 25078 Vestone (BS) Italy |
| Pexal Piping system |
| K22719 |

| |
|---|
| Van Marcke N.V. Lar Blok 25 8511 AALBEKE Belgium |
| SYSTEMPEX |
| K93147 |

The present agreement replaces previous versions, if any.
Drawn up in duplicate and signed,

Rijswijk, 15-07-2023
Kiwa Nederland B.V.

Aalbeke,
Van Marcke N.V.



Ir. A.J. van der Velden
Unit manager products & Installation



Hester Debby
Category Manager Installation