



## Technical-approval-with-product certificate K109430/02

Issued 2022-12-01

Replaces K109430/01

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### PE-X/Al 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

### RIIFO EU BV

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 13-03-2019..

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

# CERTIFICATE

284130610

**Kiwa Nederland B.V.**  
Sir Winston Churchillaan 273  
Postbus 70  
2280 AB RIJSWIJK  
The Netherlands  
Tel. +31 88 998 44 00  
Fax +31 88 998 44 20  
NL.Kiwa.info@Kiwa.com  
[www.kiwa.nl](http://www.kiwa.nl)

**Company**  
RIIFO EU BV  
Avenue du Port 86C  
B-1000 BRUXELLES  
Belgium  
Tel. +32 477 74 58 02  
gert.schuermans@riifo.com



Certification process  
consists of initial and  
regular assessment of:

- quality system
- product

PE-X/Al multilayer piping system

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**TECHNICAL SPECIFICATION**

**Subject**

PE-X/Al multilayer piping system

**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:

- PE-Xb/Al pipes manufactured by Rifeng Enterprise Group Co., LTD. (certificate K110055);
- metal press fittings (type F18) manufactured by Rifeng Enterprise Group Co., LTD. (certificate K109745).

**Specification**

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

Nominal outside Diameter (mm)	Wall thickness (mm)	Wall thickness Aluminium (mm)
16	2,0	0,21
20	2,0	0,27
25	2,5	0,32
26	3,0	0,32
32	3,0	0,37

Remarks: Fittings are press fittings (type F18) and shall be pressed with an H, TH or U-profile with equipment recommended by the manufacturer.

**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-X/Al/PE-X;
  - 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-X/Al multilayer piping system

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### Fittings


The minimum required marking on the fittings shall be:

- **KIWA**  or on small products  or  or **KK** <sup>\*</sup> or **KK** <sup>\*</sup> (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:

- RIIFO EU BV
- and, if necessary,
- Kiwa Nederland B.V.

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