

PE-X/Al system

RIIFO EU BV

STATEMENT OF KIWA

This technical-approval-with-product certificate on the basis of BRL 5610 "Plastics piping systems of PE-X/Al intended for heating installations: radiator connections" issued on 25 October 2016 by Kiwa, in accordance with the Kiwa Regulation for Certification.

The quality system and the product characteristics belonging to the PE-X/Al system are checked periodically and the performance of the PE-X/Al system in the application as floor heating is assessed. The basic principles for the assessment are checked periodically.

Based on this Kiwa declares that:

- legitimate confidence exists that the by the holder of the technical-approval-with-product certificate delivered PE-X/Al system comply with:
 - o the technical specifications as laid down in this technical-approval-with-product certificate;
 - o the product requirements as laid down in this technical-approval-with-product certificate,
 provided that they have been marked the PE-X/Al system with the KOMO®-mark in the manner as indicated in this technical-approval-with-product certificate;
- the PE-X/Al system provides the performances as described in this KOMO technical-approval-with-product certificate, provided that:
 - o the application conditions and technical specifications as described in this KOMO technical-approval-with-product certificate are met;
 - o the manufacturing takes place according to the processing methods as laid down in this technical-approval-with-product certificate.

Within the framework of this KOMO technical-approval-with-product certificate there is no inspections with regard to the production of other parts of the PE-X/Al system or the processing of the PE-X/Al system.



Wim van Loon
Managing Director Nederland

This Technical approval-with-product certificate is also included on the KOMO foundation websites: www.komo.nl and www.komo-online.nl. Users of this Technical approval-with-product certificate is advised to check whether it is still valid. For this purpose consult the website of Kiwa: www.kiwa.com.



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Assessed is:

- Quality system
- Product
- Periodic control

PE-X/Al system**TECHNICAL SPECIFICATION****Subject**

PE-X/Al multilayer piping system

Product characteristics

The product complies to BRL 5610 "Plastics piping systems of PE-X/Al intended for heating installations: radiator connections".

The system consists of:

- PE-Xb/Al pipes from RIIFO EU BV (certificate: K211865);
- Metal press fittings (type F18) from RIIFO EU BV (certificate: K-0213039);
- Protection pipes from RIIFO EU BV (certificate: K211866), only for DN16, 20 & 26;

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 layer (mm)
16	2,0	0,21
20	2,0	0,27
26	3,0	0,32
32	3,0	0,37

Remarks: The certified press profiles for making connections are H, TH and U. The fittings body, threaded piece and reducer consist out of either CW617N or CW724R.

Marking

The products shall be marked with the KOMO® mark.

Pipes

The minimum required marking on the pipes shall be:

- KOMO (or KOMO® word mark) + class 5/ 10 bar;
- material identification: PE-Xb;
- the buildup 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.

Fittings

The minimum required marking on the fittings shall be:

- KOMO (if not possible KOMO only on the smallest packaging);
- 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.



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The minimum required marking on the smallest packaging unit of the fitting shall be:

- KOMO (or KOMO® word mark);
- certificate number of the accompanying technical approval-with-product certificate of the piping system, according to 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:

- KOMO (KOMO® 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.

PROCESSING

The supplier shall provide installation instructions, approved by Kiwa. A reference to these instructions shall be made at or near the packaging. The instructions are published in the Dutch language and contains at least specific information with regard to storage, transport, processing temperature and construction of the joints.

So-called "combination boilers" are often applied in individual house heating systems. In such boilers, no double separation between drinking water and heating medium exists. A leak in the single separation may result in the heating medium coming into contact with drinking water. In relation to this the requirement is that in case additives are added to the heating medium these additives have to comply with the Dutch drinking water regulations.

The heat emission to the floor is dependent on the thickness of the finishing coat and the mutual distance between the pipes. The preconditions have to be clearly described in the instructions.

PERFORMANCES

1. The system is oxygen tight.
2. All joints are leak tight and possess sufficient clamp force to resist external influences.

PERFORMANCES OF THE PRODUCTS

All the products of the system are designed for a lifetime of 50 years at an operating temperature profile according to class 4/ 5 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 THE CUSTOMER

Check on delivery of the products listed under the "technical specification" whether:

- The product(s) and material(s) ordered are delivered in accordance with the agreement you made.
- The brand and the method of marking is correct
- No defects or damage is visible (for example, resulting from the transportation).



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If on the basis of the foregoing you decide to proceed to rejection, please contact

- RIIFO EU BV

And if necessary,

- Kiwa Nederland B.V.

Carry out the storage, transport and processing in accordance with the provisions included in this product certificate with attestation and/or documents of the certificate holder.

