



KOMO®

Technical-approval-with product certificate
K86478/07



Issued	2022-11-01	Replaces	K86478/06
Valid until	Indefinite	Dated	2021-08-15
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enflx

Enetec Plastics GmbH

STATEMENT BY KIWA

This technical approval-with-product certificate on the basis of BRL 5607 Plastics piping systems of PE-RT 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 enflx are checked periodically and the performance of the enflx 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 enflx comply with:
 - the technical specifications as laid down in this technical approval-with-product certificate;
 - the product requirements as laid down in this technical approval-with-product certificate, provided that they have been marked the enflx with the KOMO®-mark in the manner as indicated in this technical approval-with-product certificate;
- the enflx provides the performances as described in this KOMO technical approval-with-product certificate, provided that:
 - the application conditions and technical specifications as described in this KOMO approval-with-product certificate are met;
 - 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 enflx or the processing of the enflx.

Ron Scheepers
Kiwa

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.nl.

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Assessed is:

- Quality system
- Product
- Performance in the application

Periodic control

enflx

TECHNICAL SPECIFICATION

Subject

enflx

Product characteristics

The product complies to BRL 5607 Plastics piping systems of PE-RT intended for heating installations: radiator connections.

The system consists of:

- 5 layer PE-RT type 1 an PE-RT type 2 pipes manufactured by Enetec Plastics GmbH (certificate K86477);
- Metal press and compression fittings manufactured by IPA Produktions & Vertriebsges.m.b.H (certificate K11612);
- Corrugated protection pipes: manufactured by Hegler Plastics GmbH (certificate K13791).

Specification

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

Class 4 / 6 bar		Class 4 / 10 bar		Class 5 / 6 bar			
PE-RT Type 1 and PE-RT Type 2		PE-RT type 2		PE-RT type 1		PE-RT type 2	
Nominal outside diameter (mm)	Wall thickness (mm)	Nominal outside diameter (mm)	Wall thickness (mm)	Nominal outside diameter (mm)	Wall thickness (mm)	Nominal outside diameter (mm)	Wall thickness (mm)
10	1,3	-	-	10	1,3	10	1,3
12	2,0	-	-	12	2,0	12	2,0
14	1,25	-	-	-	-	-	-
14	2,0	-	-	14	2,0	14	2,0
15	1,5	-	-	-	-	-	-
16	2,0	16	2,2	16	2,0	16	2,0
17	2,0	-	-	17	2,0	17	2,0
18	2,0	-	-	-	-	18	2,0
20	2,0	-	-	-	-	20	2,0
25 ¹⁾	2,3	-	-	-	-	-	-

¹⁾ only press fittings

Colour:

- inner layer of the pipe is: natural
- outer layer of the pipe is: natural, red, blue, green, yellow, white, black, silver
- metal fittings: brass
- protection pipe: color red, blue, black and white

Remarks:

- The piping system can also be used for underfloor heating according to BRL 5602 (without the protection pipes)
- The press fittings are certified in combination with the TH pressing profile

enflx

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 4 / 6 or 10 bar and class 5 / 6 bar;
- material identification: PE-RT type 1 or 2;
- the build-up of the pipe; PE-RT/EVOH/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.

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.

Location of the marks: on every fitting.

The realization of the marks is as follows: clearly, durable and indelible.

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 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.

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. Because of this it is important that in case additives are added to the heating medium a Kiwa product certificate for these additives has been issued.



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

The medium pipes and fittings are designed for heating installations: radiator connections and floor heating systems with 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 6 bar and if applicable class 4 / max. 10 bar.

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

TIPS FOR THE USER

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).

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

- Enetec Plastics GmbH

And if necessary,

- Kiwa Nederland B.V.

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