



**KOMO<sup>®</sup>**  
 technical approval-with-product certificate  
**K11413/07**



Issued 2017-08-15 Replaces K11413/06  
 Valid until Indefinite Dated 2014-12-01  
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Hep2O system  
**Wavin Limited**

STATEMENT OF KIWA

This technical approval-with-product certificate on the basis of BRL 5605 Plastics piping systems of PB intended for heating installations: radiator connections issued on 25 October 2016 by Kiwa, in accordance with the Kiwa regulations for product certification.

The quality system and the product characteristics belonging to the Hep2O system are checked periodically and the performance of the Hep2O system in the application as radiator connections 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 Hep2O system 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 the Hep2O system has been marked the Hep2O system with the KOMO<sup>®</sup>-mark in the manner as indicated in this technical approval-with-product certificate;
- the Hep2O system 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 are no inspections with regard to the production of other parts of the Hep2O system or the processing of the Hep2O system.

Luc Leroy  
 Kiwa

*The certificate is listed in the overview on the website of Stichting KOMO: [www.komo.nl](http://www.komo.nl).  
 Advice: consult [www.kiwa.nl](http://www.kiwa.nl) in order to ensure that this certificate is still valid.*

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Evaluated is:  
 Quality system  
 Product  
 Performance in  
 application  
 Periodic inspection

**CERTIFICATE**

474170526

## Hep2O system

## TECHNICAL SPECIFICATION

## Subject

Hep2O system

## Product characteristics

The product complies to BRL 5605 Plastic piping systems of PB intended for heating installations: radiator connections.

The system consists of:

- 3-layer PB pipes with EVOH barrier layer ;
- push fit PB fittings of the type Hep2O Bitite and Hep2O G4, grey or white;
- metal push-fit transition fittings.

## Specification

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

| Nominal outside diameter (mm) | Wall thickness (mm) | Hep2O Bitite | Hep2O G4 | Metal fittings |
|-------------------------------|---------------------|--------------|----------|----------------|
| 10                            | 1,5                 | X            | X        | -              |
| 12                            | 1,5                 | X            | -        | -              |
| 15                            | 1,7                 | X            | X        | X              |
| 16                            | 1,5                 | X            | -        | X              |
| 16                            | 1,8                 | X            | -        | -              |
| 20                            | 1,9                 | X            | -        | X              |
| 22                            | 2,0                 | X            | X        | X              |
| 25                            | 2,3                 | X            | -        | -              |
| 28                            | 2,6                 | X            | X        | X              |

Colour: Pipes: (inner/outer) grey/grey or white/white or grey/white (10 mm only);

PB fittings: Hep2O Bitite and Hep2O G4, grey or white;

Metal fittings: brass

## Markings

The products shall be marked with the KOMO<sup>®</sup> mark.

## Pipes

The minimum required marking on the pipes shall be:

- KOMO (or KOMO<sup>®</sup> word mark) + class 5/ 6 bar;
- certificate number of accompanying technical approval-with-product certificate of the piping system;
- the manufacturer's name, trade name, system name or logo;
- material identification: PB-H;
- the build up of the pipe: PB-H/EVOH;
- nominal outside diameter and 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.



## Hep2O system

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

- KOMO (or KOMO<sup>®</sup> 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.

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 (or KOMO<sup>®</sup> 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

All system components must be designed for a lifetime of 50 years at an operating temperature profile according to class 5 of NEN-ISO 10508 and an allowable working pressure of maximum 6 bar.

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

## RECOMMENDATION FOR THE CUSTOMER

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.

Examine at delivery of the products mentioned under "processing" that they comply to the mentioned specifications.

if you should reject a delivery on the basis of the above, please contact:

- Wavin Limited

and, if necessary:

- Kiwa Nederland B.V.

For the proper storage, transport and processing follow the instructions given under "processing".

Take notice of the application conditions given under "Performances in application".

