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## FLEXALEN PB system

Number : K25548/01  
Issued : 2004-12-01  
Replaces : - -

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### STATEMENT BY KIWA

This technical approval-with-product certificate is issued by Kiwa on the basis of BRL 5605, "Plastics piping systems of PB intended for heating systems: radiator connections", in accordance with the Kiwa Regulations for Product Certification: 2004.

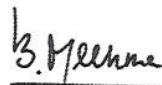
Kiwa declares that the plastics piping systems of PB intended for heating systems: radiator connections, are suitable for the manufacturing of plastics piping systems intended for heating systems that provide the performances as described in this technical approval-with-product certificate, provided that:

- the products fulfil the specifications as laid down in this technical approval-with-product certificate;
- the manufacturing of the plastics piping systems of PB intended for heating systems takes place according to the processing methods as laid down in this technical approval-with-product certificate;
- the application conditions as described in this approval-with-product certificate are met.

Kiwa declares that legitimate confidence exists that the by the producer manufactured and certified products comply with the technical specifications as laid down in this technical approval-with-product certificate, provided that they have been marked with the KOMO®-mark reproduced below in the manner indicated in this technical approval-with-product certificate.

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 plastics piping systems of PB intended for heating systems, nor the manufacturing of plastics piping systems of PB intended for heating systems.

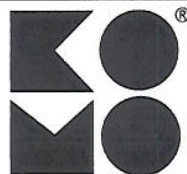
For the relation of the contents of this product certificate with the regulations of the 'Bouwbesluit', reference is made to the 'List of quality declarations for the building industry', which is published by the 'Stichting Bouwkwiteit' (SBK) in Rijswijk.



ing. B. Weekma,  
director Certification and Inspection, Kiwa N.V.

In order to ensure that this document is still valid, it is advised to consult [www.kiwa.nl](http://www.kiwa.nl).

Reproduction of the KOMO®-mark.



® is a collective mark of Stichting Bouwkwiteit (SBK)

This technical approval-with-product certificate exists of 3 pages. \* This is a translation.

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Only the Dutch text shall be legally binding.

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## PRODUCT SPECIFICATION

### Technical specification of the product

Plastics piping systems of PB intended for heating systems: radiator connections, according to BRL5605.

The piping system consists of the following parts:

- pipes;
- socket fusion and electrofusion fittings of PB;
- metal, mechanical fittings;
- ducting pipes.

### Detailed specification

The diameters and applicable wall thicknesses mentioned in the table below belong to this technical approval-with-product certificate.

#### PB

Nominal outside diameter in mm	Minimum wall thickness in mm	Nominal outside diameter in mm	Minimum wall thickness in mm
16	2,2	50	4,6
20	2,8	63	5,8
25	2,3	75	6,9
32	3,0	90	8,2
40	3,7	110	10,0

Colour: ivory inside / red outside

### Other details

The system is also suitable for flexible piping systems with plastics inner pipe for heated water distribution according to BRL 5609, with a design pressure of 0,8 MPa.

## PROCESSING

### General

The supplier shall provide installation instructions. A reference to these instructions shall be made at or near the packaging. The instructions must contain 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 technical approval Toxicological Aspects (ATA) has been issued.

### Marking

The products are marked with the KOMO<sup>®</sup>-mark.

The PB pipes are provided with the following marks:

- ◆ KOMO<sup>®</sup> CV;
- ◆ design pressure 0,6 MPa;
- ◆ PB;
- ◆ system name;
- ◆ nominal outside diameter and nominal wall thickness in mm;
- ◆ production code.

The realization of the marks is as follows: clear and indelible, at intervals of not more than 2 m.

The fittings are provided with the following marks:

- ◆ KOMO<sup>®</sup> (or KO) or logo;
- ◆ manufacturer's name, trade name or logo;
- ◆ nominal outside diameter of the connecting pipe in mm;
- ◆ system name\*.

\* If desired, the system name may be provided on the packaging.

The realization of the marks is as follows: clear and indelible on each fitting.

The ducting pipes are provided with the following marks:

- ◆ KOMO<sup>®</sup> (or KO);
- ◆ manufacturer's name, trade name or system name.

The realization of the marks is as follows: clear and durable, at intervals of not more than 2,5 m.

### Logistics

Production and assembly are laid down in annex 1 of the technical approval-with-product certification agreement.

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## PERFORMANCES

1. The system must be oxygen tight.
  2. All joints must be leak tight and possess sufficient clamp force to resist external influences.
  3. For all parts of the system applies that they are designed for a lifetime of 50 years at a working pressure of 6 bar absolute and a temperature profile class V according to ISO 10508.
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## RECOMMENDATIONS FOR THE USERS

1. The products are intended to be applied as part of a PB piping system for the transport of heated water in heating systems: radiator connections. Hereby the following application conditions must be taken into account:
    - ◆ the installation instructions of the producer.
  2. Check at the time of delivery whether:
    - 2.1 the products are in accordance with the agreement;
    - 2.2 the mark and marking method are correct;
    - 2.3 the products show no visible defects as a result of e.g. transport etc.
  3. If you should reject a product on the basis of the above, please contact:
    - 3.1 Thermaflex Isolatie B.V.
    - and, if necessary:
    - 3.2 Kiwa N.V.
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