

KOMO[®]

technical approval-with-product certificate



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Issued	2006-04-01	Dated	- -
Valid till	indefinite	Pages	1 van 3

Smartpipe system

WRW-Westfälische Rohrwerke GmbH

STATEMENT BY KIWA

This product certificate is issued by Kiwa on the basis of BRL 5607 "Plastics piping systems of PE-RT/Al intended for heating systems: radiator connections" d.d. 1997-09-15, in accordance with the Kiwa regulations for product certification.

Kiwa declares that legitimate confidence exists that:

- that the by the producer manufactured 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 in the manner as indicated in this technical approval-with-product certificate;
- The with certified products composed Smartpipe system provides the performances as described in the technical approval-with-product certificate, provided that:
 - The manufacturing of the Smartpipe system of PE-RT/Al 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.

Within the framework of this technical approval-with-product certificate Kiwa does not impose any inspections with regard to the production of the Smartpipe system, nor the manufacturing of the Smartpipe system.

ing. B. Meekma
directeur Certificatie en Keuringen, Kiwa N.V.

In order to ensure that this document is still valid, it is advised to consult www.kiwa.nl.

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Evaluated:
Quality system
Product in application
Periodic inspection

Smartpipe system

PRODUCTSPECIFICATION

Technical aspects of the product

General

PE-RT/Al Pipes for heating systems, radiator connections according to BRL 5607.

The piping system consists of the following parts:

- PE-RT/Al multilayer;
- Mechanical fittings; IPA fittings
- Protection pipes.

Specifications

The diameters and accompanying wall thickness as mentioned in the table below belong to this product certificate.

PE-RT/Al

Diameter	Wall thickness mm
16	2,0
20	2,25
25	2,5
26	3,0
32	3,0

Metal press fittings are being used.

The jointing is being made by special crimping tools

Color: transparent inside / white or red outside.

Remarks

The pipes are also suitable for underfloor heating.

Marking

The products are marked with the KOMO[®]-mark.

The PB pipes are provided with the following marks:

- KOMO[®] or KOMO[®] CV;
- design pressure 6 bar;
- PE-RT/Al;
- 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[®] (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 protection pipes are provided with the following marks:

- KOMO[®] (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.

Smartpipe system

Logistics

Production and assembly are laid down in the annex(es) of the product certification agreement.

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

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 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 5 according to ISO 10508.
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RECOMMENDATIONS FOR USERS

Check at the time of delivery whether:

- the products are in accordance with the agreement;
- the mark and marking method are correct;
- the product show no visible defects as a result of e.g. transport.

If you should reject a product on the basis of the above, please contact:

- WRW-Westfälische Rohrwerke.

and, if necessary:

- Kiwa N.V.

Consult the installation instructions of the producer for the correct way of storage, transport and processing of the products.
