

KOMO[®]

technical approval-with-product certificate



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Issued	2007-03-01	Dated	--
Valid till	Indefinite	Page	1 of 3

Hencovision system

Henco Industries N.V.

STATEMENT BY KIWA

This technical approval-with-product certificate is issued on the basis of BRL 5606 "Plastics piping systems of PE-X intended for heating systems: radiator connections", dated 1997-09-15, in accordance with the Kiwa Regulations for Product Certification.

Kiwa declares that legitimate confidence exists 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 as indicated in this technical approval-with-product certificate;
- the with the certified products composed construction parts fulfill the performance requirements as laid down in this technical approval-with-product certificate, provided that:
 - the manufacturing of the construction part takes place in accordance with the processing methods as laid down in this technical approval-with-product certificate;
 - the application conditions as described in this technical approval-with-product certificate are complied with.

Within the framework of this technical approval-with-product certificate, Kiwa does not impose any inspections with regard to the production of other components of the construction part, nor the manufacturing of the construction part itself.

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Advise: consult www.kiwa.nl in order to ensure that this certificate is still valid.



® is a collective mark of Stichting Bouwkwiteit.

Evaluated is:
quality system
product
performance product
as applied
Periodic inspection

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TECHNICAL SPECIFICATION

Subject

Plastics piping systems of PE-X/Al composite, consisting pipe and plastic pushfitting, according to BRL-K 5606.

PRODUCTSPECIFICATION

The diameters as mentioned in the table below belong to this technical approval-with-product certificate.

Diameter x wallthickness (mm)
16 x 2
20 x 2
26 x 3

Colour fittings: white

Color pipe: transparant inside, white outside

Marking

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

The **PE-X/Al multilayer pipes** are provided with at least the following marks:

- ◆ KOMO (or KOMO[®] word mark)) + temperature profile/design pressure (Class 5 / 6 bar)
- ◆ manufacturer's name, trade name, system name, logo or certificate number of the accompanying technical approval (system) certificate.
- ◆ material identification : PE-X/Al outside layer;
- ◆ nominal outside diameter and nominal wall thickness in mm;
- ◆ production code.

The realization of thes marks is as follows: durable and indelible at intervals of not more than 2 m.

The **fittings** are provided with at least the following marks:

- ◆ manufacturer's name, trade name or logo;
- ◆ nominal outside diameter in mm of the connecting pipe;
- ◆ production code

The smallest packaging unit of the fittings are provided with at least the following information:

- ◆ KOMO (or KOMO[®] word mark);
- ◆ manufacturer's name, trade name, system name, logo or certificate number of the accompanying technical approval (system) certificate, in accordance with the marking of connecting pipe;
- ◆ nominal outside diameter in mm of the connecting pipe;
- ◆ material identification in case the fitting body is made of plastics.

The realization of the marks is as follows: durable and indelible on each fitting/packaging.

The protection **pipes** are provided with the following marks*:

- ◆ KOMO (KOMO[®] word mark or KO);
- ◆ manufacturers's name, trade name, logo, certificate number of the protection pipe or certificate number of the accompanying technical approval (system) certificate.

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

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PROCESSING

General

The producer shall provide installation instructions. A reference to these instructions shall be made at or near the packaging. The instructions must contain specific information in the Dutch language 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 according to class 5 of ISO 10508.

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 products show no visible defects as a result of e.g. transport.

Examine by delivery if the under "processing" mentioned products satisfy to this mentioned specifications.

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

- Henco Industries N.V.
- 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.

Take the under "performances" mentioned applicationconditions in consideration.