



KOMO[®]

Technical approval-with-product certificate

K101227/01



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Valid until Indefinite Dated

Page 1 of 3

Multiskin PE-X/Al Push piping system

COMAP Benelux NV

STATEMENT BY KIWA

This technical approval-with-product certificate on the basis of BRL 5610 Plastics piping systems of PE-X/Al 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 Multiskin PE-X/Al Push piping system are checked periodically and the performance of the Multiskin PE-X/Al Push piping system 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 Multiskin PE-X/Al Push piping 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 they have been marked the Multiskin PE-X/Al Push piping system with the KOMO[®]-mark in the manner as indicated in this technical approval-with-product certificate;
- the Multiskin PE-X/Al Push piping 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 is no inspections with regard to the production of other parts of the Multiskin PE-X/Al Push piping system or the processing of the Multiskin PE-X/Al Push piping system

Ronald Karel
Kiwa

Publication of this certificate is allowed.

Advice: consult www.kiwa.nl in order to ensure that this certificate is still valid. This product certificate is only valid in combination with a Kiwa certified plastics piping system.

Kiwa Nederland B.V.
Sir Winston Churchilllaan 273
Postbus 70
2280 AB RIJSWIJK
The Netherlands
Tel. +31 88 998 44 00
Fax +31 88 998 44 20
info@kiwa.nl
www.kiwa.nl

Holder of Certificate
COMAP Benelux NV
Alsebergsesteenweg 454
B-1653 DWORP
Belgium
Tel. +32 (0)2 371 01 61
info@comap.be
www.comap-group.com



Evaluated is:
Quality system
Product
Performance in
application
Periodic inspection

Multiskin PE-X/Al Push piping system

TECHNICAL SPECIFICATION

Subject

Multiskin PE-X/Al Push piping system

Product characteristics

The product complies to BRL 5610 Plastics piping systems of PE-X/Al intended for heating installations: radiator connections.

The system consists of:

- PE-X/Al/PE-Xc Pipes manufactured by Henco Industries N.V. (Certificate K11401);
- PE-X/Al/PE-Xb Pipes manufactured by Hewing GmbH (Certificate K46895);
- PPSU Push fittings manufactured by COMAP Benelux NV (Certificate K101225);
- Corrugated protection pipes manufactured by Hewing GmbH (Certificate K11411).

Specification

The pipe dimensions as indicated in the table below belong to this certificate.

Nominal outside Diameter (mm)	Wall thickness (mm)	Wall thickness aluminium layer (mm)
16	2,0	0,3 - 0,4
20	2,0	0,35 – 0,4
26	3,0	0,45 – 0,6

Colour pipes: transparent inside/white outside.

Colour PPSU fittings: Creme.

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 5/ 10 bar;
- material identification: PE-Xc;
- the build up of the pipe; PE-Xc/Al/PE-Xc or PE-Xc/Al/PE-Xcb;
- 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;



Multiskin PE-X/Al Push piping system

- 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.

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

4. 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:

- COMAP Benelux NV

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".

