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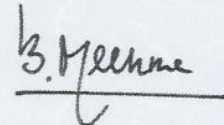
Technical approval-with-product certificate
FLEXALEN PB system

Based on pre-certification tests as well as periodic inspections by Kiwa, the products referred to in this certificate and marked with the Kiwa- mark as indicated under 'marking', manufactured by

Thermaflex Isolatie B.V.

may, on delivery, be relied upon to comply with the Kiwa Evaluation Guideline BRL-K536 part C "Plastics piping systems of PB, intended for the transport of cold and warm drinking water".

Kiwa N.V.



ing. B. Meekma
Director
Certification and Inspection

This certificate is issued in accordance with the Kiwa Regulations for Product Certification.

This certificate consists of 3 pages.

Publication of the certificate is allowed.

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FLEXALEN PB system

PRODUCT SPECIFICATION

Plastics piping systems of PB intended for the transport of cold and warm drinking water according to BRL-K536/03 part C.

The piping system consists of the following parts:

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

Toxicological requirements

The pipes and fittings as applied in this system are accepted on the basis of the requirements as laid down in the "Guideline quality of materials and chemicals for drinking water supplies" (published in the Gazette). The ATA criteria are laid down in the corresponding product certificates.

Detailed specification

Logistics

The diameters and accompanying wall thicknesses as indicated in the Production and assembly are laid down in the annex of the technical table below belong to this technical approval-with-product certificate. approval-with-product certification agreement.

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

Use is made of PB socket fusion and electrofusion fittings and of metal mechanical fittings.

Colour: grey.

APPLICATION AND USE

The products are intended to be used for the construction of household installations for the transport of cold and warm drinking water according to a temperature profile of class 2 of ISO 10508 and an allowable working pressure of maximum 10 bar. The products are also intended to be applied in flexible piping systems with plastics inner pipe for the transport of heated drinking water according to a temperature profile of DH1 of BRL-K17401 part A and an allowable working pressure of maximum 8 bar.

FLEXALEN PB system

MARKING

The parts of the system are marked with the KIWA-mark

Pipes:

Place and realization of the mark: indelible imprint on each pipe at intervals of not more than 2 meter.

Compulsory indications:

- ◆ word mark Kiwa;
- ◆ manufacturer's name or registered trademark;
- ◆ PB;
- ◆ the design pressure (10 bar);
- ◆ the nominal outside diameter in mm;
- ◆ the wall thickness in mm;
- ◆ the production code.

Fittings:

Place and realization of the mark: indelible imprint on each fitting.

Compulsory indications:

- ◆ word mark KIWA or KK;
- ◆ manufacturer's name, tradename or logo;
- ◆ the nominal outside diameter and wall thickness of the connecting pipe in mm;
- ◆ the name under which the system is put on the market*.

* If desired, the system name may be provided on the packaging. In case the system name is fully mentioned on the fittings, the trade name may, if desired, be provided with a code or emblem.

RECOMMENDATIONS FOR USERS

1. Check at the time of delivery whether:
 - 1.1 the delivery is in accordance with the agreement;
 - 1.2 the mark and the marking method are correct;
 - 1.3 the products show no visible defects as a result of e.g. transport.
 2. If you should reject a product on the basis of the above, please contact:
 - 2.1 Thermaflex Isolatie B.V.
and, if necessary:
 - 2.2 Kiwa N.V.
 3. Consult the supplier's processing guidelines for the proper methods of storage and transport.
 4. Check whether this certificate is still valid by consulting the list of certified companies at www.kiwa.nl.
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