



Technical approval-with-product certificate K26821/05

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Replaces K26821/04

Page 1 of 3

Flexalen 600

STATEMENT BY KIWA

With this technical approval-with-product certificate, issued in accordance with the Kiwa Regulations for Certification, Kiwa declares that legitimate confidence exists that the products supplied by

Thermaflex Isolatie B.V.

As specified in this technical approval-with-product certificate and marked with the Kiwa®-mark in the manner as indicated in this technical approval-with-product certificate may, on delivery, be relied upon to comply with Kiwa evaluation guideline **BRL-K17401 part A** "Flexible piping systems intended for the transport of hot and cold drinking water" dated 16 April 2004, inclusive amendment sheet dated 8 January 2020.

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 the plastics piping system, nor the manufacturing of the plastics piping system itself.

Ron Scheepers
Kiwa

Publication of this certificate is allowed.

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

CERTIFICATE

28317/015

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Flexalen 600

TECHNICAL SPECIFICATION

Subject

Flexalen 600

Product characteristics

The product complies to BRL-K170401 Part 1 : Flexible piping systems intended for transport of hot and cold drinking water.

The piping system consists of the following parts:

- A pipe package consisting of:
 - PB inner pipes (colour: grey)
 - PE insulation layer around the inner pipe
 - HDPE sleeve around the insulation layer (color: black)
- Electro welded-, mirror welded and socket welded fittings;
- Products to connect the pipe package to a supply pipe.

Specification

The dimensions of the pipe in the table below are part of this certificate.

Nominal outside diameter x Wall thickness (mm)	Nominal diameter protection pipe, single pipe (mm)	Nominal diameter protection pipe, double pipe (mm)
16 x 2,2	40, 50, 63, 75,90,125	90, 125, 160
20 x 2,8	40, 50, 63, 75,90, 125	90, 125, 160
25 x 2,3	50, 63, 75, 90, 125, 160	125, 160, 200
32 x 3,0	63, 75, 90, 125, 160	125, 160, 200
40 x 3,7	75,90, 125, 160	125, 160, 200
50 x 4,6	75, 90, 125,160	160, 200
63 x 5,8	90, 125, 160, 200	200
75 x 6,9	125, 160, 200	
90 x 8,2	160, 200	
110 x 10,0	160, 200	
125 x 11,4	200	

Remarks: The connections for the inner pipe (electro weld, mirror weld, socket weld, clamp fitting) are made with special tools.

Fitness for contact with drinking water

The pipes and fittings used in this system are approved on the basis of the requirements for hygienic aspects set in the "Regeling materialen en chemicaliën drink- en warm tapwatervoorziening" dated 01-07-2017; ("Materials and chemicals in the supply of drinking water and warm tap water Regulation"; published in the Government Gazette). The criteria for these hygienic aspects are recorded in the respective product certificates.

MARKING

The products shall be marked with the Kiwa-mark.

Pipes

The minimum required marking on the pipes shall be:

- **KIWA**  or  * + class DH1/ 8 bar;
- material identification: PB
- the buildup of the pipe: PB
- 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.

Flexalen 600

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

*) for smaller diameters permitted by Kiwa.

Fittings

The minimum required marking on the fittings shall be:

- **KIWA**  or on small products  or  or **KK** or **KK** (if not possible **KIWA**  only on the smallest packaging unit);
- the manufacturer's name, trade name or logo;
- nominal outside diameter of the corresponding pipe;
- production code.

The realization of the marks is as follows: clearly, durable and indelible.

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

- **KIWA** 
- 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;
- material identification if the fitting body is made of plastics;
- nominal outside diameter and nominal wall thickness of the corresponding pipe in mm.

The realization of the marks is as follows: clearly, durable and indelible.

Protection pipes

The minimum required marking on the protection pipes shall be:

- Kiwa (or Kiwa® word mark);
- the manufacturer's name, trade name, certificate number of the protection pipe or the certificate number of the belonging technical approval (system) certificate.

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

LOGISTICS

Production and assembly of the system is laid down in the annex of the certification agreement.

APPLICATION AND USE

The medium pipes and fittings are designed for drinking water installations with a lifetime of 50 years at an operating temperature profile according to class 2 of NEN-ISO 10508 and an allowable working pressure of maximum 8 bar.

The corrugated protection pipes have to protect the medium pipes in case the medium pipes are embedded.

The corrugated protection pipes are used to avoid growth of algae in the drinking water by sunlight

RECOMMENDATIONS FOR CUSTOMERS

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.

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

- Thermaflex Isolatie B.V.
- and, if necessary,
- Kiwa Nederland B.V.

Consult the supplier's processing guidelines for the proper storage, transport and processing methods.