

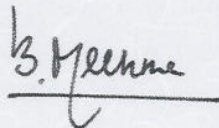
Number	K26821/01	Replaces	--
Issued	2005-08-15	Dated	--

Technical approval-with-product certificate
FLEXALEN 600

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-K17401 part A "Flexible piping systems with plastics inner pipe for the transport of warm drinking water".



ing. B. Meekma
Director Certification and Inspection, Kiwa N.V.

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.

Kiwa N.V.
Certification and Inspection
Sir W. Churchill-laan 273
P.O. Box 70
2280 AB RIJSWIJK ZH
The Netherlands
Telephone 070 414 44 00
Telefax 070 414 44 20
E-mail certif@kiwa.nl
Internet www.kiwa.nl

Company
Thermaflex Isolatie B.V.
Veerweg 1
P.O. Box 531
5140 AM Waalwijk
The Netherlands
Telephone +31 (0)416 567777
Telefax +31 (0)416 567788
E-mail international@thermaflex.com
Internet www.thermaflex.com

FLEXALEN 600

PRODUCT SPECIFICATION

General

Flexible piping systems with plastics inner pipe for the transport of warm drinking water according to BRL-K17401 part A.

The piping system consists of the following parts:

- ◆ a pipe package existing of:
 - PB inner pipes (colour: grey)
 - PE isolation layer around the inner pipe
 - HDPE ducting pipe around the isolation layer (colour: black)
- ◆ electrofusion, socket fusion and mechanical fittings;
- ◆ products for connecting the pipe package to the supply pipe

Detailed specification

The combinations of inner pipe(s) and ducting pipe(s) as indicated in the table below belong to this technical approval-with-product certificate.

Nominal inside pipe diameter x wall thickness in mm	Nominal diameter ducting pipe in mm
16 x 2,2	90
20 x 2,8	125
25 x 2,3	160
32 x 3,0	200
40 x 3,7	
50 x 4,6	
63 x 5,8	
75 x 6,9	
90 x 8,2	
110 x 10,0	

The pipe package can be provided with one (single-pipe) or with two (twin-pipe) inner pipes.

The joints for the inner pipe (electrofusion, socket fusion, clamp fitting) are made with special equipment.

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.

Logistics

Production and assembly are laid down in the annex of the technical approval-with-product certification agreement.

APPLICATION AND USE

The products are intended to be applied in flexible piping systems with plastics inner pipe for the transport of warm drinking water according to a temperature profile of DH1 of BRL-K17401 part A and an allowable working pressure of maximum 8 bar.

Page	3	Number	K26821/01	Replaces	--
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MARKING

The pipes are marked with the Kiwa-mark.

The inner pipes are provided with the following marks:

- ◆ word mark "Kiwa"
- ◆ manufacturer's name or registered trademark;
- ◆ material: "PB";
- ◆ design pressure: 8 bar;
- ◆ class DH1;
- ◆ nominal outside diameter and wall thickness in mm;
- ◆ production code.

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

The fittings are provided with the following marks:

- ◆ word mark "Kiwa";
- ◆ manufacturer's name, registered trademark or logo;
- ◆ nominal outside diameter and wall thickness of the accompanying inner pipe;
- ◆ design pressure (8 bar);
- ◆ production code;
- ◆ 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.

The realization of these marks is as follows: clear and indelible on each fitting.

The ducting pipes are provided with the following marks:

- ◆ word mark "Kiwa" or logo;
- ◆ manufacturer's name, trade name or system name;
- ◆ material indication inner pipe: "PB";
- ◆ class DH1;
- ◆ design pressure: 8 bar;
- ◆ nominal outside diameter ducting pipe in mm;
- ◆ number of inner pipes with nominal outside diameter and wall thickness;
- ◆ production code.

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

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 www.kiwa.nl.