



## Technical-approval-with-product certificate **K45005/11**

Issued 2024-07-01

Replaces K45005-10

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### **Alpex F50 PROFI, Alpex Duo XS and Alpex L system**

#### 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

### **Fränkische Rohrwerke Gebr. Kirchner GmbH Co**

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-K536 K** "Multilayer piping systems PE-X/Al, PP-R/Al and PP-RCT/Al intended for transport of hot and cold drinking water inside buildings" dated 15 November 2017.

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.*

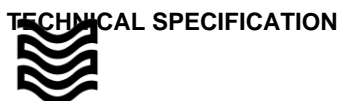
*Advice: consult [www.kiwa.nl](http://www.kiwa.nl) in order to ensure that this certificate is still valid.*

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## Alpex F50 PROFI, Alpex Duo XS and Alpex L system

### Subject

Alpex F50 Profi, Alpex Duo XS and Alpex L system

### Product characteristics

The product complies to BRL K536-K Multilayer piping systems PE-X/Al, PE-RT/Al, PP-R/Al and PP-RCT/Al intended for transport of hot and cold drinking water inside buildings.

The system consists of:

- PE-Xb/Al/PE-RT (type 2) pipes manufactured by Fränkische Rohrwerke Gebr. Kirchner GmbH & Co (certificate K22542);
- Metal fittings manufactured by Fränkische Rohrwerke Gebr. Kirchner GmbH & Co (certificate K42189);
- PPSU press and push-fit fittings manufactured by Fränkische Rohrwerke Gebr. Kirchner GmbH & Co (certificate K42694);

### Specification

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

Nominal outside Diameter (mm)	Wall thickness (mm)	Wall thickness Aluminium (mm)	Press System	Push-Fit System
16	2,0	0,2	X	X
16	2,0	0,3	X	X
20	2,0	0,3	X	X
20	2,0	0,4	X	X
26	3,0	0,3	X	X
26	3,0	0,5	X	X
32	3,0	0,6	X	-
40	3,5	0,85	X	-
50	4,0	1,0	X	-
63	4,5	1,2	X	-

Colour:

- pipes: transparent inside / white outside
- PPSU fittings: white
- Metal fittings: brass

Remarks:

- Alpex F50 Profi (dimensions 16 – 32 mm) PPSU and brass mechanical press fittings with press contour F and U will be used.
- Alpex Duo XS (dimensions 16 – 32 mm) PPSU and brass mechanical press fittings with press contour F and TH will be used.
- Alpex L (dimensions 40 – 63 mm) PPSU and brass mechanical press fittings with press contour F will be used.

### 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 2/ 10 bar;
- material identification: PE-Xb;
- the buildup of the pipe: Pe-Xb/Al/PE-RT type 2;
- 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;

## Alpex F50 PROFI, Alpex Duo XS and Alpex L system

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- production code.

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  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.

### 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 10 bar.

### RECOMMENDATIONS FOR THE 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:

- Fränkische Rohrwerke Gebr. Kirchner GmbH Co
- and, if necessary,
- Kiwa Nederland B.V.

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