

DVGW, Kiwa & TEPPFA initiative

Introduction

At this moment in Europe the standard EN ISO 21003 is in force for multilayer piping systems for hot and cold water installations inside buildings.

The European countries are using this standard as base for the (mechanical part) of the private certification. On top of this most European countries have their own hygienic requirements (and some additional mechanical requirements).

This results in a separate application process per EU country for certification of the products under the scope of EN ISO 21003. According to the accreditation rules, also the third party (certification) audits shall be executed per certification institute.

In many cases each certification institute has its own qualified inspectors to visit the relevant production location(s). This results in many inspection audits per year for the same product at the same location.

Goal

Kiwa has, together with DVGW Zert and the TEPPFA (The European Plastic Pipes and Fittings Association) taken the initiative to introduce harmonized requirements and procedures per certification mark (in the European market) for the aspects below:

- Mechanical requirements;
- Hygienic requirements;
- Quality requirements.

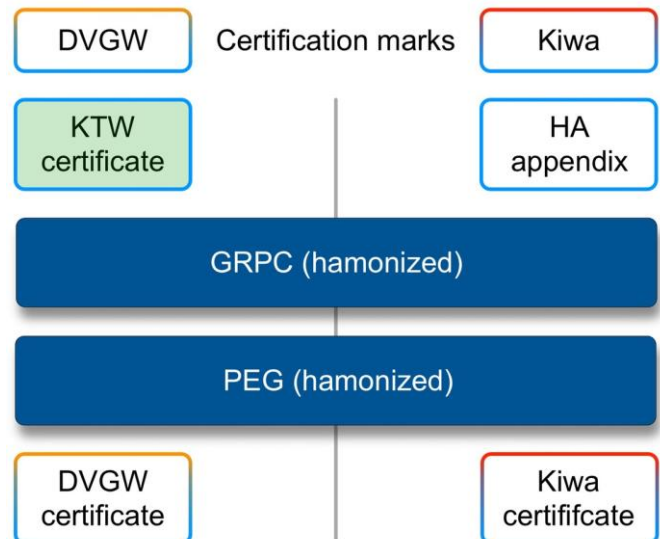
These requirements are fixed in a joint evaluation guideline; the Product Evaluation Guideline (**PEG**).

The initiative has resulted in a Harmonized Certification System (**HCS**).

The HCS rules are public and fixed in the General Rules for Product Certification (**GRPC**)

Scope

- The current certification marks stays in force;
- The accreditation per certification institute stays in force as required by EN ISO17065;
- Audit-Inspection and testing (reports) shall be recognized by the participating Certification Institutes;
- After implementation of the HCS other Certification Institutes will be invited to join the initiative.



Implementation

General

Following the accreditation rules the Guideline BRL-K536 Part K is in force, including the relevant documents (PEG and GRPC).

Hygienic Requirements

These requirements are a concrete implementation of Article 10 of the European Directive 98/83/EC (3 November 1998: the quality of drinking water intended for human consumption) and based on the notified scheme (Notification number 2015/234/P) to the European commission.

Kiwa Nederland B.V.

Sir Winston Churchillaan 273
Postbus 70
2280 AB RIJSWIJK

Tel.: + 31 88 998 44 00
Fax: + 31 88 998 44 20
E-mail: info@kiwa.nl
www.kiwa.nl

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Mechanical requirements

The mechanical requirements follow the EN ISO 21003 without additional requirements.

Quality requirements

The quality requirements follow CEN ISO/TS 21003-7 as well as the accredited Kiwa procedures and rules.

Certification Requirements

The points 4.2 until 4.4 are included in the Guideline BRL-K536 Part K intended to certify the products for marking with:



Management

To manage the HCS a Board of Stakeholders (BoS) is established with representatives of all stakeholders (for instance Kiwa, DVGW Zert, TEPFPA, customers, etc).

Current Kiwa-certificate holders

General

Kiwa certificates based on the EN ISO 21003 are following the Kiwa guidelines below:

BRL-K536 Part E: *"guideline for the Kiwa (technical approval-with-)product certificate for plastics piping systems of PE-X /Al intended for transport of hot and cold drinking water"*;

BRL-K536 Part F: *"guideline for the Kiwa (technical approval-with-)product certificate for plastics piping systems of PP-R /Al intended for transport of hot and cold drinking water"*;

BRL-K536 Part G: *"guideline for the Kiwa (technical approval-with-)product certificate for plastics piping systems of PE-RT /Al intended for transport of hot and cold drinking water"*.

Differences

In comparison with BRL K536 Part E, F and G the BRL-K536 Part K: "guideline for the Kiwa (technical approval-with-)product certificate for plastics piping systems of PE-X /Al, PE-RT/Al, PP-R/Al and PP-RCT/Al intended for transport of hot and cold drinking water" shows the following differences:

- The dimension groups from EN ISO 21003 are followed (see table 2 in the PEG)
 - group 1:** $10 \text{ mm} \leq \text{dn} \leq 26 \text{ mm}$
 - group 2:** $26 \text{ mm} < \text{dn} \leq 63 \text{ mm}$
 - group 3:** $\text{dn} > 63 \text{ mm}$
- With BRL-K536 Part K it is possible to certify PP-RCT/Al piping systems.

Choices for the certificate holders

The Kiwa guidelines as mentioned with point 5.1 will stay in force.

Certificate holders can also choose to be certified (only) according to the Guideline BRL-K536 Part K.

More information:

Visit our website at: www.kiwa.com

For questions, more information or a quotation for this certification, please contact us at: Hot-Cold@kiwa.nl

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2280 AB RIJSWIJK

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Fax: + 31 88 998 44 20
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www.kiwa.nl