

BRL-K762

Datum 2018-01-16

Evaluation Guideline

for the Kiwa product certificate for steel pipes for
the transport of drinking water



▶ **Trust
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Progress**

Preface

This evaluation guideline has been accepted by the Kiwa Board of Experts Watercycle (CWK), in which all relevant parties in the field of steel pipes are represented. The Board of Experts also supervises the certification activities and where necessary requires the evaluation guideline to be revised. All references to Board of Experts in this evaluation guideline pertain to the above mentioned Board of Experts.

This evaluation guideline will be used by Kiwa in conjunction with the Kiwa Regulations for Certification.

In this version of BRL-K762, BRL-K762/03 and BRL-K795/02 have been merged.

The result is a clear difference between the drinking water applications (BRL-K762) and general applications (BRL-K771).

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The use of this evaluation guideline by third parties, for any purpose whatsoever, is only allowed after a written agreement is made with Kiwa to this end.

Validation

This evaluation guideline has been validated by the Director Certification and Inspection of Kiwa on January 16, 2018

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1 Introduction

1.1 General

This evaluation guideline includes all relevant requirements which are adhered to by Kiwa as the basis for the issue and maintenance of a product certificate for steel pipes for the transport of drinking water.

This guideline replaces the evaluation guidelines BRL-K762/03 "Kiwa product certificate for seamless and welded stainless steel pipes for drinking water installations, d.d. 01-02-2012 and BRL-K795 "Kiwa product certificate for seamless and welded steel pipes from unalloyed steel", d.d. 01-02-2012.

The quality declarations issued and based on these two guidelines will lose their validity at least 2 years after the validation date of this guideline.

For the performance of its certification work, Kiwa is bound to the requirements as included in NEN-EN-ISO/IEC 17065 "Conformity assessment - Requirements for bodies certifying products, processes and services".

1.2 Field of application / scope

The seamless or welded steel pipes and corrosion resistant steel pipes are intended to be used for the transport of drinking water and a working pressure of 1MPa (1.000 kPa), with a water temperature up to 65°C and a maximum water temperature up to 90°C for a period of maximum 1 hour.

1.3 Acceptance of test reports provided by the supplier

If the supplier provides reports from test institutions or laboratories to prove that the products meet the requirements of this evaluation guideline, the supplier shall prove that these reports have been drawn up by an institution that complies with the applicable accreditation standards, namely:

- NEN-EN-ISO/IEC 17020 for inspection bodies;
- NEN-EN-ISO/IEC 17021 for certification bodies certifying systems;
- NEN-EN-ISO/IEC 17024 for certification bodies certifying persons;
- NEN-EN-ISO/IEC 17025 for laboratories;
- NEN-EN-ISO/IEC 17065 for certification bodies certifying products.

Remark:

This requirement is considered to be fulfilled when a certificate of accreditation can be shown, issued either by the Board of Accreditation (RvA) or by one of the institutions with which an agreement of mutual acceptance has been concluded by the RvA. The accreditation shall refer to the examinations as required in this evaluation guideline. When no certificate of accreditation can be shown, Kiwa shall verify whether the accreditation standard is fulfilled.

1.4 Quality declaration

The quality declaration to be issued by Kiwa is described as a Kiwa product certificate.

A model of the certificate to be issued on the basis of this evaluation guideline has been included for information as Annex.

2 Terms and definitions

2.1 Definitions

In this evaluation guideline, the following terms and definitions apply:

- **Board of Experts:** the Board of Experts “Water Cycle” (CWK).
- **Distributienet:** samenstel van leidingen en daarmee verbonden koppelingen, kleppen en andere technische voorzieningen voor het transport en de levering van drinkwater, niet zijnde een collectief leidingnet (bron Drinkwaterwet);
- **Drinking water:** water intended or partly intended for drinking, cooking or food preparation or other domestic purposes, but does not include hot water, and is made available by pipeline to consumers or other customers.
- **Drinking water installation:** an installation direct or in-direct connected to the public drinking water distribution network of a drinking water company (source Dutch drinking water act);
- **Evaluation Guideline (BRL):** the agreements made within the Board of Experts on the subject of certification.
- **House hold water:** non-potable water that may only be used within premises for flushing toilets (source Dutch drinking water act);
- **Installation:** configuration consisting the pipe work, fittings and appliances;
- **IQC scheme (IQCS):** a description of the quality inspections carried out by the supplier as part of his quality system.
- **Pre-certification tests:** tests in order to ascertain that all the requirements recorded in the evaluation guideline are met.
- **Private Label Certificate:** A certificate that only pertains to products that are also included in the certificate of a supplier that has been certified by Kiwa, the only difference being that the products and product information of the private label holder bear a brand name that belongs to the private label holder.
- **Product certificate:** a document in which Kiwa declares that a product may, on delivery, be deemed to comply with the product specification recorded in the product certificate.
- **Product requirements:** requirements made specific by means of measures or figures, focussing on (identifiable) characteristics of products and containing a limiting value to be achieved, which can be calculated or measured in an unequivocal manner.
- **Rough water:** withdrawal of ground water, surface water or sea water for the preparation of drinking water;
- **Supplier:** the party that is responsible for ensuring that the products meet and continue to meet the requirements on which the certification is based.

3 Procedure for granting a product certificate

3.1 Pre-certification tests

The pre-certification tests to be performed are based on the (product) requirements as contained in this evaluation guideline, including the test methods, and comprises the following:

- type testing to determine whether the products comply with the product and/or functional requirements;
- production process assessment;
- assessment of the quality system and the IQC-scheme;
- assessment on the presence and functioning of the remaining procedures.

3.2 Granting the product certificate

After finishing the pre-certification tests, the results are presented to the Decision maker (see 8.2) deciding on granting the certificate. This person evaluates the results and decides whether the certificate can be granted or if additional data and/or tests are necessary.

4 Requirements

4.1 General

This chapter contains the requirements that steel pipes for the transport of drinking water have to fulfil.

4.2 Regulatory requirements

4.2.1 Requirements to avoid deterioration of the quality of drinking water

Products and materials which (may) come into contact with drinking water or warm tap water, shall not release substances in quantities which can be harmful to the health of the consumer, or negatively affect the quality of the drinking water.

Therefore, the products or materials shall meet toxicological, microbiological and organoleptic requirements as laid down in the currently applicable "Ministerial Regulation materials and chemicals drinking water and warm tap water supply", (published in the Government Gazette). Consequently, the procedure for obtaining a recognised quality declaration, as specified in the currently effective Regulation, has to be concluded with positive results.

Products and materials with a quality declaration¹, e.g. issued by a foreign certification institute, are allowed to be used in the Netherlands, provided that the Minister has declared this quality declaration equivalent to the quality declaration as meant in the Regulation.

4.3 Private law requirements

4.3.1 Product requirements

The requirements of the product are specified in undermentioned standards

Nummer	Titel
NEN-EN 10312	Welded stainless steel tubes for the conveyance of aqueous liquids including water for human consumption – Technical delivery conditions.
NEN-EN 10216-5	Seamless steel tubes for pressure purposes – Technical delivery conditions – Part 5: Stainless steel tubes.
NEN-EN 10224	Non-alloy steel tubes and fittings for the conveyance of aqueous liquids including water for human consumption – Technical delivery conditions.

4.3.2 Additional requirements

In addition to the requirements mentioned in 4.3.1, the following applies in 4.3.2.1 until 4.3.2.4.:

4.3.2.1 Hygienic treatment of products in contact with drinking water

The supplier must have a procedure in place that protects the products in such way, that the hygiene is ensured during storage and transport.

In addition, the supplier shall inform the customer about the handling of products delivered under the certificate, which come into contact with drinking water and warm tap water, from arriving at the construction site through to the realization and

¹ A quality declaration issued by an independent certification institute in another member state of the European Community or another state party to the agreement to the European Economic Area, is equivalent to a recognized quality declaration, to the extent that, to the judgment of the Minister of the first mentioned quality declaration, is fulfilled the at least equivalent requirements as meant in the Regulation materials and chemicals drinking water- and warm tap water supply.

commissioning. The primary reason for providing this the information is to contribute to the awareness of the importance of hygienic work as a 'prevention measure'.

4.3.2.2 Protection against corrosion

Steel pipes can only be used as components of piping systems, in order to protect against corrosion. The internal surface of the products in question is provided with a protective layer, such as a coating system or cement mortar. This layer must comply with 4.3.2.3 or 4.3.2.4.

4.3.2.3 Coating system in contact with drinking water

Applied coatings shall meet the requirements of evaluation guideline BRL-K759 "Coating systems for drinking water applications".

Remark:

Applied coatings included in a Kiwa product certificate according to BRL-K759 are deemed to fulfill this requirement.

4.3.2.4 Cement mortar lining in contact with drinking water

Internal cement mortar lining of underground pipes and fittings must comply with BRL-K778.

Remark:

Applied liners included in a Kiwa product certificate according to BRL-K778 are deemed to fulfill this requirement

5 Marking

5.1 General

The products shall be marked with following indelible marks and indications:

- NEN-EN 10312, Article 13;
- NEN-EN 10216-5;
- NEN-EN 10224, Article 12.

5.2 Certification mark

After concluding a Kiwa certification agreement, the certified products shall be indelible marked with the certification mark:

KIWA  or KIWA watermark

6 Requirements in respect of the quality system

This chapter contains the requirements which have to be met by the supplier's quality system.

6.1 Manager of the quality system

Within the supplier's organizational structure, an employee who will be in charge of managing the supplier's quality system must have been appointed.

6.2 Internal quality control/quality plan

The supplier shall have an internal quality control scheme (IQC scheme) which is applied by him.

The following must be demonstrably recorded in this IQC scheme:

- which aspects are checked by the supplier;
- according to what methods such inspections are carried out;
- how often these inspections are carried out;
- in what way the inspection results are recorded and kept.

This IQC scheme should at least be an equivalent derivative of the model IQC scheme as shown in the Annex.

6.3 Control of test and measuring equipment

The supplier shall verify the availability of necessary test and measuring equipment for demonstrating product conformity with the requirements in this evaluation guideline.

When required the equipment shall be kept calibrated (e.g recalibration at interval).

The status of actual calibration of each equipment shall be demonstrated by traceability through an unique ID.

The supplier must keep records of the calibration results.

The supplier shall review the validity of measuring data when it is established at calibration that the equipment is not suitable anymore.

6.4 Procedures and working instructions

The supplier shall be able to submit the following:

- procedures for:
 - dealing with products showing deviations;
 - corrective actions to be taken if non-conformities are found;
 - dealing with complaints about products and/or services delivered;
- the working instructions and inspection forms used.

6.5 Other requirements

The supplier shall be able to submit the following:

- the organisation's organogram;
- qualification requirements of the personnel concerned.

7 Summary of tests and inspections

This chapter contains a summary of the following tests and inspections to be carried out in the event of certification:

- **pre-certification tests:** tests in order to ascertain that all the requirements recorded in the evaluation guideline are met;
- **inspection test: tests** carried out after the certificate has been granted in order to ascertain whether the certified products continue to meet the requirements recorded in the evaluation guideline;
- **inspection of the quality system of the supplier:** monitoring compliance of the IQC scheme and procedures.

7.1 Test matrix

Description of requirement	Article no. of BRL	Tests within the scope of:	
		Pre-certification	Inspection by Kiwa after granting of certificate a,b)
Material			
Requirements to avoid deterioration of the quality of drinking water	4.2.1	X	X
Hygienic treatment of products in contact with drinking water	4.3.2.1	X	X
Protection against corrosion	4.3.2.2	X	X
Coating system in contact with drinking water	4.3.2.3	X	X
Cement mortar coating in contact with drinking water	4.3.2.4	X	X
General	5.1	X	X
Certification mark	5.2	X	X
Product requirements	NEN-EN 10312		
Classification	5.1	X	X
Designation	5.2	X	X
Mandatory information	6.1	X	X
Options	6.2	X	X
Grades of steel for feedstock material	7.1	X	X
Tube manufacture and delivery conditions	7.2	X	X
Chemical analysis	8.2	X	X
Mechanical properties	8.3	X	X
Corrosion resistance	8.4	X	X

Description of requirement	Article no. of BRL	Tests within the scope of:	
		Pre-certification	Inspection by Kiwa after granting of certificate ^{a,b)}
Appearance	8.5.1	X	X
Soundness	8.5.2	X	X
Straightness	8.6	X	X
Preparation of ends	8.7	X	X
Dimensions, masses and tolerances	8.8	X	X
Summary of inspection and testing	9.4	X	X
Marking	13	X	X
Packaging	14	X	X
	NEN-EN 10224		
Classification	4.1	X	X
Designation	4.2	X	X
Mandatory information	5	X	X
Steel manufacturing process	6.1	X	X
Deoxidation process	6.2	X	X
General	6.3.1	X	X
Tube	6.3.2	X	X
Fittings	6.3.3	X	X
Chemical composition	7.2	X	X
Mechanical properties	7.3	X	X
Appearance	7.4	X	X
Soundness	7.5	X	X
Length	7.6	X	X
Tolerances for tubes	7.7	X	X
Types and dimensions of fittings	7.8	X	X
Tolerances for fittings	7.9	X	X
End preparation of tubes and fittings for butt welding	7.10	X	X
Summary of inspection and testing	8.4	X	X

Description of requirement	Article no. of BRL	Tests within the scope of:	
		Pre-certification	Inspection by Kiwa after granting of certificate ^{a,b)}
Chemical analysis	10.1	X	X
Mechanical tests	10.2	X	X
Leak tightness test	10.3	X	X
Non-destructive test of the seam weld of welded tubes	10.4	X	X
Non destructive testing of the welds of fittings	10.5	X	X
Visual examination	10.6	X	X
Dimensional inspection	10.7	X	X
Marking	12	X	X
Protective coating or lining	13	X	X
	NEN-EN 10216-5		
Classification	5.1	X	X
Designation	5.2	X	X
Mandatory information	6.1	X	X
Options	6.2	X	X
Steelmaking process	7.1	X	X
Tube manufacture and delivery conditions	7.2	X	X
Chemical composition	8.2	X	X
Mechanical properties	8.3	X	X
Corrosion resistance	8.4	X	X
Appearance and soundness	8.5	X	X
Straightness	8.6	X	X
Preparation of ends	8.7	X	X
Dimensions, masses and tolerances	8.8	X	X
Inspection documents	9.2	X	X
Sampling	10	X	X
Marking	12	X	X
Handling and packaging	13	X	X

Description of requirement	Article no. of BRL	Tests within the scope of:	
		Pre-certification	Inspection by Kiwa after granting of certificate a,b)

- a) In case the product or production process changes significantly, it must be determined whether the performance requirements are still met.
- b) All product characteristics that can be determined within the visiting time (maximum 1 day) are determined by the inspector or by the supplier in the presence of the inspector. In case this is not possible, an agreement will be made between the certification body and the supplier about how the inspection will take place. The frequency of inspection visits is defined in chapter 8.6 of this evaluation guideline.

7.2 Inspection of the quality system of the supplier

The quality system of the supplier will be checked by Kiwa on the basis of the IQC scheme.

The inspection contains at least those aspects mentioned in the Kiwa Regulations for Certification.

8 Agreements on the implementation of certification

8.1 General

Beside the requirements included in these evaluation guidelines, the general rules for certification as included in the Kiwa Regulations for Product Certification also apply. These rules are in particular:

- the general rules for conducting the pre-certification tests, in particular:
 - the way suppliers are to be informed about how an application is being handled;
 - how the test are conducted;
 - the decision to be taken as a result of the pre-certification tests.
- the general rules for conducting inspections and the aspects to be audited;
- the measures to be taken by Kiwa in case of Non-Conformities;
- the measures taken by Kiwa in case of improper use of Certificates, Certification Marks, Pictograms and Logos;
- terms for termination of the certificate;
- the possibility to lodge an appeal against decisions of measures taken by Kiwa.

8.2 Certification staff

The staff involved in the certification may be sub-divided into:

- Certification assessor (**CAS**): in charge of carrying out the pre-certification tests and assessing the inspectors' reports;
- Site assessor (**SAS**): in charge of carrying out external inspections at the supplier's works;
- Decision maker (**DM**): in charge of taking decisions in connection with the pre-certification tests carried out, continuing the certification in connection with the inspections carried out and taking decisions on the need to take corrective actions.

8.2.1 Qualification requirements

The qualification requirements consist of:

- qualification requirements for personnel of a certification body which satisfies the requirements EN ISO / IEC 17065, performing certification activities
- qualification requirements for personnel of a certification body performing certification activities set by the Board of Experts for the subject matter of this evaluation guideline

Education and experience of the concerning certification personnel shall be recorded demonstrably.

Basic requirements	Evaluation criteria
Knowledge of company processes Requirements for conducting professional audits on products, processes, services, installations, design and management systems.	<i>Relevant experience: in the field</i> SAS, CAS : 1 year DM : 5 years inclusive 1 year with respect to certification Relevant technical knowledge and experience on the level of: SAS : High school CAS, DM : Bachelor

Basic requirements	Evaluation criteria
Competence for execution of site assessments. Adequate communication skills (e.g. reports, presentation skills and interviewing technique).	SAS: Kiwa Audit training or similar and 4 site assessments including 1 autonomic under review.
Execution of initial examination	CAS: 3 initial audits under review.
Conducting review	CAS: conducting 3 reviews

Technical competences	Evaluation Criteria
Education	General: Education in one of the following technical areas: <ul style="list-style-type: none"> • Civil Engineering; • Engineering.
Testing skills	General: <ul style="list-style-type: none"> • 1 week laboratory training (general and scheme specific) including measuring techniques and performing tests under supervision ; • Conducting tests (per scheme).
Experience - specific	CAS <ul style="list-style-type: none"> • 3 complete applications (excluding the initial assessment of the production site) under the direction of the CAS • 1 complete application self-reliant (to be evaluated by PM) CAS-2 <ul style="list-style-type: none"> • 3 initial assessments of the production site under the direction of the PM • 1 initial assessment of the production site self-reliant (witnessed by PM) SAS <ul style="list-style-type: none"> • 3 inspection visits conducted self-reliant (witnessed by DM)
Skills in performing witnessing	Qualified SAS en CAS Internal training witness testing

Legenda:

- Certification assessor (**CAS**)
- Decision maker (**DM**)
- Product manager (**PM**)
- Site assessor (**SAS**)

8.2.2 Qualification

The qualification of the Certification staff shall be demonstrated by means of assessing the education and experience to the above mentioned requirements. In case staff is to be qualified on the basis of deflecting criteria, written records shall be kept.

The authority to qualify staff rests with the:

- **DM:** qualification of **CAS** and **SAS**;
- management of the certification body: qualification of **DM**.

8.3 Report pre-certification tests

The certification body records the results of the pre-certification tests in a report.

This report shall comply with the following requirements:

- completeness: the report provides a verdict about all requirements included in the evaluation guideline;
- traceability: the findings on which the verdicts have been based shall be recorded and traceable;
- basis for decision: the **DM** shall be able to base his decision on the findings included in the report.

8.4 Decision for granting the certificate

The decision for granting the certificate shall be made by a qualified Decision maker which has not been involved in the pre-certification tests. The decision shall be recorded in a traceable manner.

8.5 Layout of quality declaration

The product certificate shall be in accordance with the model included in the Annex.

8.6 Nature and frequency of third party audits

The certification body shall carry out surveillance audits on site at the supplier at regular intervals to check whether the supplier complies with his obligations. The Board of Experts decides on the frequency of audits.

At the time this BRL entered into force, the frequency of audits amounts 2 audit(s) on site per year for suppliers with a quality management system in accordance with ISO 9001 for their production, which has been certified by an acknowledged body (in accordance with ISO/IEC 17021) and where the IQC scheme forms an integral part of the quality management system.

In case the supplier is not in possession of any product certificate (issued by Kiwa or any other accredited certification body), the frequency is increased to 3 visits for the duration of one year.

For suppliers with a private label certificate the frequency of audits amounts to one audit per two years. These audits are conducted at the site of the private label certificate holder. The audits are conducted at the site of private label holder and focussed on the aspects inserted in the IQC scheme and the results of the control performed by the private label holder. The IQC scheme of the private label holder shall refer to at least:

- the correct way of marking certified products; the product requirements;
- compliance with required procedures for receiving and final inspection;
- the storage of products and goods;
- handling complaints.

The audit program on site shall cover at least:

- the product requirements;
- the production process;
- the suppliers IQC scheme and the results obtained from inspections carried out by the supplier;
- the correct way of marking certified products;
- compliance with required procedures;
- handling complaints about products delivered.

The results of each audit shall be recorded by Kiwa in a traceable manner in a report.

8.7 Report to the Board of Experts

De certification body shall report annually about the performed certification activities. In this report the following aspects are included:

- mutations in number of issued certificates (granted/withdrawn);
- number of executed audits in relation to the required minimum;
- results of the inspections;
- required measures for established Non-Conformities;
- received complaints about certified products.

8.8 Non conformities

When the certification requirements are not met, measures are taken by Kiwa in accordance with the sanctions policy. The Sanctions Policy is available through the "News and Publications" page on the Kiwa website ["Kiwa Regulation for Certification"](#).

9 Titles of standards

9.1 Public law rules

BJZ2011048144
29 juni 2011

Regeling van de Staatssecretaris van Infrastructuur en Milieu¹

9.2 Standards / normative documents

Number	Title
BRL-K795	Seamless and welded tubes made of unalloyed steel
BRL-K746	Application of coating systems for drinking water applications
BRL-K759	Coating systems for drinking water applications
BRL-K762	Steel pipes for the transport of drinking water
BRL-K778	Internal cement mortar coating of underground pipes
NEN-EN-ISO 9001	Quality management systems - Requirements
NEN-EN 10312	Welded stainless steel tubes for the conveyance of aqueous liquids including water for human consumption – Technical delivery conditions.
NEN-EN 10312	Welded stainless steel tubes for the conveyance of aqueous liquids including water for human consumption – Technical delivery conditions.
NEN-EN ISO/IEC 17020	Conformity assessment - General criteria for the operation of various types of bodies performing inspection
NEN-EN ISO/IEC 17021	Conformity assessment - Requirements for bodies providing audit and certification of management systems
NEN-EN ISO/IEC 17024	Conformity assessment - General requirements for bodies operating certification of persons
NEN-EN ISO/IEC 17025	General requirements for the competence of testing and calibration laboratories
NEN-EN ISO/IEC 17065	Conformity assessment - Requirements for bodies certifying products, processes and services
NEN-EN 10216-5	Seamless steel tubes for pressure purposes – Technical delivery conditions – Part 5: Stainless steel tubes.
NEN-EN 10224	Non-alloy steel tubes and fittings for the conveyance of aqueous liquids including water for human consumption – Technical delivery conditions.

¹ Valid from 1 July 2017

I Model certificate (informative)



Product certificate
KXXXXXX/0X

Issued

Replaces

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CERTIFICATE

Name product

STATEMENT BY KIWA

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

Name customer

as specified in this product certificate and marked with the Kiwa®-mark in the manner as indicated in this product certificate may, on delivery, be relied upon to comply with Kiwa evaluation guideline BRL-xxxx "xxxxxxxxxxxxxxxxxxxxxxxx" dated [dd-mm-yyyy] inclusive amendment sheet dated dd-mm-yyyy.

Luc Leroy
Kiwa

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

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Name customer
Address customer

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Certification process consists of initial and regular assessment of:

- quality system
- product

II Model IQC-scheme (informative)

Inspection subjects	Inspection aspects	Inspection method	Inspection frequency	Inspection registration
Raw materials or materials supplied: - recipe sheets - incoming goods inspection raw materials				
Production process, production equipment, plant: - procedures - working instructions - equipment - release of product				
Finished-products				
Measuring and testing equipment - measuring equipment - calibration				
Logistics - internal transport - storage - preservation - packaging - identification				