

BRL-K614

2018-03-06

Evaluation Guideline

for the Kiwa product certificate for

Fire hydrants



**Trust
Quality
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 Onderwerp 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 which the general requirements of Kiwa certification are set.

This evaluation guideline has been validated by Kiwa per 2018-03-06.

This evaluation guideline is to be assessed by the Board of Experts at least every 5 years, but at the latest before 5 years after validation.

The Technical Advisory Committee Pipes and accessories believes that fire hydrants should be suitable for both protection against ingress as well as protection against backflow.

Note: The backflow protection of the fire hydrant is intended to prevent possible contamination from outside, in the fire hydrant. The backflow protection prevents backflow via hoses connected to the fire hydrant. This refers to the backflow of water, which may have undergone a change in taste, odour, colour or temperature and does not cause any harm to human health. The connected downstream devices (such as fire extinguishers) are individually protected against backflow from the (extinguishing) supply to the distribution network on which the fire hydrant is installed.

The requirements which the backflow protection must meet are described in NEN-EN 14339 and NEN-EN 14384.

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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 2018-03-06

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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 used for fire hydrants.

This guideline replaces the evaluation guideline BRL-K614/04, dated October 16, 2015. The quality declarations issued and based on that guideline will lose their validity at least 2 years after the validation 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 fire hydrants are intended to be used as a device for extinguishing water, connected to the distribution network or to drinking water installations with a working pressure of maximum 1.000 kPa and a water temperature of maximum of than 25°C.

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 an annex.

2 Terms and definitions

2.1 Definitions

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

- **Backflow:** a phenomenon that occurs when unwanted substances (both liquid and solid) from outside backsiphonage or pressed back into the distribution network;
- **Board of Experts:** the Board of Experts “Water Cycle” (CWK);
- **Contamination:** contact between drinking water and present contaminants due to mixing, contamination, spoilage or infection;
- **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;
- **Inspection tests:** 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;
- **Ingress:** Ingress is a phenomenon that occurs when opening a fire hydrant while the valves of the connected standpipe are closed. This causes water to flow from the mains network in the hydrant. The consequence of this is that any contamination present are carried in the hydrant. Any air present is equalized until the pressure is equal to the pressure in the mains network. Since the air cannot escape, the flow into the hydrant stops and the contaminants will be carried back. If no protection is provided against the ingress, contaminants can pass through the open valve and can thus cause contamination of the mains network;
- **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;
- **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;
- **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 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;
- **Supplier:** the party that is responsible for ensuring that the products meet and continue to meet the requirements on which the certification is based;
- **Tap water:** water intended for drinking, cooking, food preparation or other domestic purposes.
Remark: Tap water may be drinking water, hot water or household water;
- **Water column K:** K is the water pressure of 10kPA (1.0m) measured from the horizontal plane where the valve touches the seat.

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 9.2) 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 fire hydrants have to fulfil, including the test methods that determine that the requirements are met.

4.2 Regulatory requirements

The following regulatory requirements apply:

4.2.1 Product requirements

Nummer	Titel
305/2011/EU	Construction Products Regulation (CPR)

4.2.2 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 and assessment methods are specified in:

Number	Titele
NEN-EN 14339	Underground fire hydrants
NEN-EN 14384	Pillar fire hydrants

4.3.2 Additional requirements

In addition to the requirements mentioned in 4.3.1, the following applies:

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'.

4.3.3 Rubber components

Applied rubber components shall meet the requirements of evaluation guide BRL-K17504

Remark: Applied rubber components included in a Kiwa BRL-K17504 product certificate are deemed to fulfil this requirement.

4.3.4 Surface coatings drinking water side

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.

4.4 Ingress protection

4.4.1 Construction and shape of ingress protection

4.4.1.1 General

The ingress device must be located under the shut-off valve of the fire hydrant and be made in such a way that ingress is prevented, both during opening as well as in full open position of the shut-off valve of the fire hydrant.

4.4.1.2 Dimensions

The protection against ingress must be integrated in the fire hydrant in such a way that there is no deviation from the measurements described in this evaluation guide.

4.4.1.3 Closing the fire hydrant

With closing of the fire hydrant the water between the valve and the ingress protection should not give an increase in pressure of the water present.

4.4.2 Functional requirements

4.4.2.1 Seal

During testing according to 6.1.1 the height of water column "K" should not change for a period of 300 s (± 5 s).

4.4.2.2 Adhesive

During testing according to 6.1.3 the protection against ingress must open at a maximum pressure of 50 kPa.

4.4.2.3 Flow rate

The minimum flow rate shall be at least 80% of the minimum flow rate as defined in article 4.18 of NEN-EN 14339.

5 Marking

5.1 General

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

5.2 Marking on Pillar Fire Hydrants

Pillar fire hydrants shall be marked according to NEN-EN 14384, article 7:

- Indication of direction of opening;
- Number of turns required to start the flow and for full opening;
- Indication of DN;
- Indication of PN;
- Name or logo of the manufacturer;
- Data or code indicating the year of production;
- Reference to the applicable standard (NEN-EN 14384).

5.3 Marking on Underground Fire Hydrants

Marking

Underground fire hydrants shall be marked according to NEN-EN 14339, article 6.1:

- Indication of direction of opening;
- Number of turns required to start the flow and for full opening;
- Indication of DN;
- Indication of PN;
- Name or logo of the manufacturer;
- Data or code indicating the year of production;
- Reference to the applicable standard (NEN-EN 14339);
- Loose obturator.

5.4 Catalog of the supplier

The supplier's catalog shall contain the following data from EN 14339 and EN 14384:

- Number of European Standard (EN 14339);
- Dimensions (Article 4.1 and drawing);
- Material of the shell (Table 1);
- Details of the obturator;
- Stem seal;
- Stem;
- Maximum operating torque and minimum strength torque;
- Installation and maintenance instructions;
- Volume of retained water and the time for draining;
- Hydraulic properties;
- Applied coatings for interior and exterior;
- Thickness of applied coatings;
- Suitability against disinfectants (if applicable).

5.5 Certification mark

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



6 Test methods

6.1 Verification of seal and adhesive

6.1.1 Test installation

For the determination of the seal and the adhesive the fire hydrant shall be mounted in the test installation as shown in Figure 1. The water pressure shall be measured according to NEN 927 with a precision manometer.

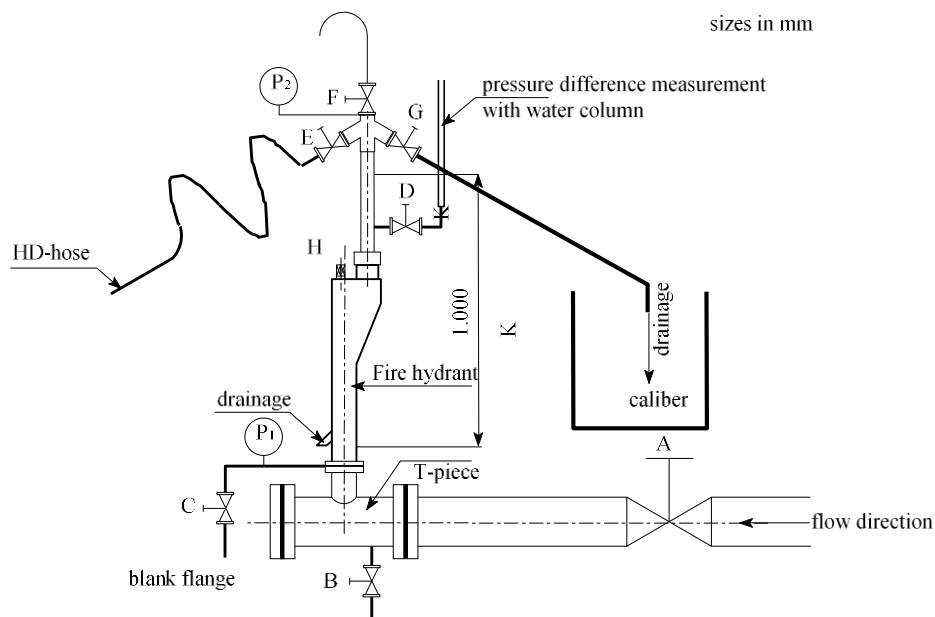


Figure 1: Test installation

6.1.2 Test method for verification of the seal

- Mount the fire hydrant into the test installation and close all valves. The hydrostatic pressure must be 1.1PN.
- Open valve G, the fire hydrant H and valve A. Run the water for a few minutes through the test installation until all air is vented.
- Close fire hydrant H. Wait until all water is drained through the drainage device and close valve G.
- Open fire hydrant H, wait until the water supply is stopped and then close valve A.
- Slowly open valve B and then valve C. Wait until all water is drained through the Tee fitting.
- Slowly open valve F and wait until the pressure in the fire hydrant is atmospheric. Close Valve F and open valves G, E and D.
- Carefully fill, via valve E, the up-right tube with water, until height K is 1.0 meter. This column height should not change for 300 s.

6.1.3 Test method for verification of the adhesive

- h. In the test installation (see Figure 1) open valves B, C, E, F and H.
- i. Fill the entire system through valve E with water. Then close valve F.
- j. Fill through valve E the system slowly and steadily and raise the pressure, at P2, within 15s to 600 kPa. Maintain this pressure for 1 hour. Then close valve E and slowly open valve F.
- k. Slowly and steadily fill the base of the system with water via valve B. Close valve C, once this section is vented and raise the pressure P1 gradually up to a maximum of 50 kPa. Check if the ingress protection opens.

7 Requirements in respect of the quality system

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

7.1 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.

7.2 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.

7.3 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.

8 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.

8.1 Test matrix

Description of requirements	Article BRL	Tests within the scope of	
		Pre-certification	Inspection by Kiwa after granting of certificate ^{a,b)}
	BRL-K614		
Regulatory requirements			
Requirements to avoid deterioration of the quality of drinking water	4.2.2	X	X
Private law requirements			
Rubber components	4.3.3	X	X
Surface coatings drinking water side	4.3.4	X	X
Ingress protection	4.4	X	X
Construction and shape of ingress protection	4.4.1	X	X
Seal	4.4.2.1	X	X
Adhesive	4.4.2.2	X	X
Flow rate	4.4.2.3	X	X
Marking	5		
Marking on Pillar Fire Hydrants	5.2	X	X
Marking on Underground Fire Hydrants	5.3	X	X
Catalogue of supplier	5.4	X	X
Certification mark	5.5	X	X
	EN 14339		
General dimensions	4.1	X	
Shell	4.2	X	
Elastomers	4.3	X	
Obturator	4.4	X	
Stem seals	4.5	X	
Materials including lubricants in contact with water intended for human consumption	4.6	X	X
Leak tightness and mechanical strength	4.7	X	X
General	4.7.1	X	X
Shell and all pressure containing components (including stem seals)	4.7.2	X	X
Obturator	4.7.3	X	X

Description of requirements	Article BRL	Tests within the scope of	
		Pre-certification	Inspection by Kiwa after granting of certificate ^{a,b)}
Endurance	4.7.4	X	
Endurance of the non-return device (where fitted)	4.7.5	X	X
Closing direction	4.8	X	X
Opening turns	4.9	X	X
Resistance of hydrant to operating loads	4.10	X	X
Stem drive	4.11	X	
Inlet connections	4.12	X	X
Outlets	4.13	Not applicable	
Drainage system	4.14	X	X
External corrosion resistance	4.15	X	X
Resistance to disinfection products	4.16	X	X
Hydrants for non-potable water systems	4.17	Not applicable	
Hydraulic characteristics	4.18	X	X
Marking	6.1	X	X
Additional hydrant data	6.2	X	X
	EN 14384		
Dimensions	4.1	X	X
Shell	4.2	X	X
Elastomers	4.3	X	X
Obturator – main valve	4.4	X	X
Materials including lubricants in contact with water intended for human consumption	4.5	X	X
Leak tightness and mechanical strength	4.6	X	X
Components of the operating system	4.7	X	X
Closing direction	4.8	X	X
Opening turns	4.9	X	X
Resistance of the hydrant to operating loads	4.10	X	X
Operating mechanism	4.11	X	X
Inlet connections	4.12	X	X
Outlets	4.13	X	X
Drainage and venting systems	4.14	X	X
Security housing	4.15	X	
Internal and external corrosion resistance	4.16	X	X
Colour	4.17	X	X
Resistance to disinfection products	4.18	X	
Hydrants for non-potable water systems	4.19	X	
Hydraulic characteristics	4.20	X	X
Designation	6.1	X	X
Marking	6.2	X	X
Additional hydrant data	6.3	X	X

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 9.6 of this evaluation guideline.

8.2 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 Product Certification.

9 Agreements on the implementation of certification

9.1 General

Beside the requirements included in these evaluation guidelines, the general rules for certification as included in the Kiwa Regulations for 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.

9.2 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.

9.2.1 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"> • 2 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 DM) CAS-2 <ul style="list-style-type: none"> • 2 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"> • 2 inspection visits together with a qualified SAS • 1 inspection visits conducted self-reliant (witnessed by DM)
Skills in performing witnessing	Qualified SAS and CAS Internal training witness testing

Legenda:

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

9.2.2 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:

- Decision makers: qualification of experts and inspectors;
- management of the certification body: qualification of Decision makers.

9.3 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.

9.4 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.

9.5 Layout of quality declaration

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

9.6 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.

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.

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;
- compliance with required procedures for receiving and final inspection;
- the storage of products and goods;
- handling complaints.

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

9.7 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.

9.8 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"](#).

9.9 Interpretation of requirements

The Board of Experts may record the interpretation of requirements of this evaluation guideline in one separate interpretation document.

10 Titles of standards

10.1 Public law rules

BJZ2011048144
29 june 2011
Regulation 305/2011

Regeling van de Staatssecretaris van
Infrastructuur en Milieu¹
Construction Products Regulation (CPR)

10.2 Standards / normative documents

Number	Title
BRL-K746	Coating systems for portable water applications
BRL-K759	Coating systems for drinking water
BRL-K17504	Certification of vulcanised rubber products for cold and hot drinking water applications
NEN 927	Pressure gauges – Testing and gauging
NEN-EN 1074-3	Valves for water supply-Fitness for purpose requirements and appropriate verification tests-Part 3: Check valves
NEN-EN 1074-6	Valves for water supply-Fitness for purpose requirements and appropriate verification tests-Part 6: Hydrants
NEN-EN 14339	Underground fire hydrants
NEN-EN 14384	Pillar fire hydrants
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

¹ Read from 1 juli 2017

I Model certificate (informative)



CERTIFICATE

Product certificate KXXXXXX/OX

Issued

Replaces

Page 1 of 1

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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Tel. +31 88 998 44 00
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www.kiwa.nl

Company
Name customer
Address customer

Phone number
Fax number
www.
Email

Certification process consists of initial and regular assessment of:

- quality system
- product

140410

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				