

**CERTIFICATION**

Addendum no. 1 to the Certifié  
CSTB Certified Certification  
Reference System:  
“Preinsulated piping  
system”



The English version is provided for information. In case of doubt or dispute, the French version only is valid.

Identification No.: QB 19-revision 03

Revision No.: 01

Addendum No. 1, approved by the CSTB Technical Management on: 07/04/2017

Application date: 15/05/2017

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CSTB has established a collective QB certification mark that will eventually take the place of the “Certifié CSTB Certified” mark.

This addendum modifies the following certification reference system “Certifié CSTB Certified” “ Preinsulated piping system” revision 03, so that from now on in this reference system, the QB mark should replace the “Certifié CSTB Certified” mark. Nevertheless, the transition period has been defined to enable all the holders to make changes to the product markings and the communication and/or sales material. These transition procedures are outlined in paragraph 4 below.

In addition, this addendum brings together the new provisions applied to the following certification reference system “Certifié CSTB Certified” revision 03 (integration of Standard ISO 9001, version 2015).

It was approved by the CSTB Technical Management on 07/04/2017 and will be applied from 15/05/2017.

**MODIFICATIONS BROUGHT ABOUT BY THE ADDENDUM TO THE FOLLOWING CERTIFICATION REFERENCE SYSTEM “Certifié CSTB Certified” revision 03:**

<b>Modified part</b>	<b>Type of modification made</b>
Article § 2.4	Modification of the number of representatives in every college.
Article § 3.4	Integration of the NF standard NF EN ISO 9001 revision 2015
Article §4	Procedures for transition to the QB mark New QB logo
The whole document	Modification of the name of the family “Preinsulated system” “replaces “Preinsulated piping systems”

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The Specific Committee set a final date for the actual replacement of the following mark “Certifié CSTB Certified” by the QB mark:

- For the marking of the certified products, the packaging of the products and the products’ accompanying documents: 31/12/2017,
- For the communication media or commercial documents: 31/12/2018.

The marking procedures during this transition period are defined below.

The provisions of article 2.4 "Marking" are replaced by the following:

## **2 The stakeholders**

### **2.4 Specific Committee**

An impartial consultative authority is established called the Specific Committee, the Secretariat of which is provided by CSTB.

The Specific Committee is requested to give its opinion on the following:

- The initial draft certification reference system or the draft revised version, as specified in the Consumer Code,
- The preparation of advertising and promotional activities that fall within its competence,
- The selection of bodies participating in the certification process, and the examination and implementation of recognition agreements.

It can be consulted about any other question pertaining to the application concerned, and in particular about any interpretation of the certification reference system with a view to taking decisions regarding dossiers in accordance with the certification reference systems and at CSTB’s request.

The composition of the Specific Committee is set to respect representation between the different parties concerned, which does not lead to any of them dominating and which guarantees their relevance.

Its composition is as follows:

- A President chosen from the members of the colleges defined below;
- A Vice President: one representative of CSTB;
- Manufacturers College (Holders): from 1 to 5 representatives;
- Users / Specifiers College: from 1 to 5 representatives;
- Technical Bodies and Administrations College: from 1 to 5 representatives.

The representatives of audit bodies and mark laboratories participate as of right in the meetings of the Specific Committee.

The Specific Committee issues decision notifications and its members shall be precluded from receiving any remuneration for the functions entrusted to them.

The time span for the appointment of the members is 3 years. This appointment is renewable by tacit agreement. The Specific Committee’s President can change every year.

The members of the Specific Committee formally commit themselves to keep confidential all information, particularly of individual character, which is communicated to them.

The Specific Committee may, where appropriate, decide to set up working groups or subcommittees and define their missions and responsibilities. The composition of the working groups is to be validated by the Specific Committee, those working groups being composed of at least one representative of the “Manufacturers” College, one representative of the “Users / Specifiers” College and one representative of CSTB. It may call upon professionals, external individuals or holders that are not members of the Specific Committee.

The provisions of article 4.4 of the reference system in force are replaced by article 3.3.4.

### 3 Reference systems

#### 3.3.4. Certified characteristics

The present paragraph indicates, for every element of the system of pipe covered by the present Specific Requirements, the certified characteristics which appear in the quoted standards and which are specified on the certificate.

Certified characteristics	Pipe assembly of steel service pipe	Fitting assemblies for steel service pipes	Steel valve assembly for steel service pipes	Casing	insulation	Assembly systems
Dimensions	× (1)	× (1)	×			
Leak tightness (Étanchéité)			× (2)			
Material properties (caractéristiques du matériau)				×		
Long-term characteristic (Caractéristique à long terme)				×		
Elongation at break (Allongement à la rupture)				×		
Heat reversion (Retrait à chaud)				×		
Cell structure (Structure alvéolaire/cellulaire)					×	
Foam density (Masse volumique de la mousse)					×	
Compressive strength (Résistance à la compression)					×	
Water absorption at elevated temperature (Absorption d'eau à température élevée).					×	

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<b>Certified characteristics</b>	<b>Pipe assembly of steel service pipe</b>	<b>Fitting assemblies for steel service pipes</b>	<b>Steel valve assembly for steel service pipes</b>	<b>Casing</b>	<b>insulation</b>	<b>Assembly systems</b>
Shear strength (Résistance au cisaillement)	×					
Thermal conductivity (Conductivité thermique)	×					
Impact resistance (Résistance au choc)	×					
Long-term creep resistance (Comportement au fluage à long terme)	×					
Characteristic fusion welding (Caractéristique du soudage)		×	×			
Leak tightness of the welded outer casing (Étanchéité du tube de protection)		×	×			
Minimum insulation thickness in bends (Épaisseur minimale d'isolant)		×	×			
Suitability for use (Aptitude à l'emploi)						×
Resistance to strain on the ground (Résistance à la contrainte au sol)						×

(1) : in steel service pipe, fitting steel and preinsulated

(2) : On valve only

The provisions of article 3.4 of the reference system in force are replaced by the following.



## **3.4 The quality management provisions: audit reference system**

### **3.4.1 PURPOSE**

Applicants/holders are responsible for the right to use the QB mark relative to the product in question.

Applicants/holders shall implement all the necessary ways and means to permanently guarantee the product's conformity with this certification reference system. In addition, they must ensure the command of their external service providers using all methods to assess all the component elements of a product or external service(s) for which they are the applicant or holder of the right to use the certification mark.

This paragraph sets the minimum provisions that the applicant/holder shall implement in terms of quality management to ensure that the products are manufactured respecting the certification reference system at all times.

The quality system depends in part on the establishment by the applicant/holder of a series of organisational systems enabling the conformity of the delivered products with standards and complementary specifications. These measures are described in paragraph 3.4.2 below.

### **3.4.2 MINIMUM REQUIREMENTS FOR QUALITY MANAGEMENT**

The applicant/holder shall have implemented the ways and means which he possesses, the existence and effectiveness of which have been assessed based on the requirements of Standard NF EN ISO 9001:

- NF EN ISO 9001 revision 2008 (applicable until 15 September 2018), and
- NF EN ISO 9001 revision 2015 (applicable until 15 September 2015).

If the manufacturing unit is not NF EN ISO 9001-certified, the applicant/holder must justify the introduction of a range of organisational provisions and a production control system to control conformity with the standards and complementary specifications for the delivered products that meet at least the requirements in this certification reference system.

The audits are carried out according to Table 1 as follows. This table indicates the specific requirements in Standard NF EN ISO 9001 which must be verified in the context of the certification.

Within the framework of an audit, all the necessary requirements identified on the shaded lines in Table 1 below, shall be audited. All the other requirements pertaining to quality management shall be audited over a period of 3 years.

#### **Possible reduction:**

If the manufacturing unit has a certified quality management system that conforms to Standard NF EN ISO 9001, the audits may be “reduced”. Only the requirements identified on a “shaded” line in Table 1 are to be audited.

This reduction is possible as long as:

- The ISO 9001 certificate includes within its scope and domain the sites and activities covered by the certification mark; and
- The ISO 9001 certificate is issued by a certifying body accredited by the COFRAC or by a member of the EA (European cooperation for Accreditation) or by a member of the IAF (International Accreditation Forum) - see signatories on the COFRAC website [www.cofrac.fr](http://www.cofrac.fr), and
- The last ISO 9001 audit report from the body is forwarded to CSTB prior to the body's audit, or examined during the body's audit.



**Table 1 (Applicable requirements)**

§ ISO 9001: 2008	§ ISO 9001: 2015	REQUIREMENTS	MINIMUM EVIDENCE EXPECTED	APPLICABLE (NA = not applicable)
<b>5. Leadership</b>				
5.5.1 / 5.5.2.	5.3.	Organizational roles, responsibilities and authorities	<ul style="list-style-type: none"> <li>* Organization chart</li> <li>* Description of responsibilities and authorities (examples: organization chart, job sheets, etc.)</li> <li>* Person appointed to be responsible for organizing and efficiently implementing the production system</li> </ul>	<ul style="list-style-type: none"> <li>▪</li> </ul> <p>All the items except: * ISO 9001 V15: §5.3 c,d</p>
<b>7. Support</b>				
6.4.	7.1.4.	Environment for the operation of processes	<p>Evidence of the maintenance of the work environment.</p> <p>Examples: Storage of a product and its components to protect them from bad weather, adapted ambient conditions, etc.</p>	<ul style="list-style-type: none"> <li>▪</li> </ul>
7.6.	7.1.5.	Monitoring and measuring resources	<ul style="list-style-type: none"> <li>* List of the inspection, measuring and test equipment used on the product/service production site and/or in the laboratory,</li> <li>* Identification of the equipment used to determine their validity,</li> <li>* Planning for the verification or calibration of the equipment having an impact on the validity of the results (in particular the equipment used to perform tests on certified characteristics),</li> <li>* Evidence of the verification and/or calibration operations (ex: equipment data sheet, verification or calibration report, etc.),</li> <li>* Evidence of connection to national or international standards (where possible),</li> <li>* Validation of software used to monitor and measure the specified requirements, where appropriate.</li> </ul>	<ul style="list-style-type: none"> <li>▪</li> </ul>
6.2.	7.2.	Competence	<ul style="list-style-type: none"> <li>* Compliance with test methods and inspection provisions.</li> <li>* Actions planned to acquire the necessary competence (training, tutoring, etc.), where appropriate.</li> </ul>	<ul style="list-style-type: none"> <li>▪</li> </ul>

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§ ISO 9001: 2008	§ ISO 9001: 2015	REQUIREMENTS	MINIMUM EVIDENCE EXPECTED	APPLICABLE (NA = not applicable)
4.2.	7.5.	Documented information	<p>* List of the internal and external documented information. Examples: Procedures, operating methods, test methods, inspection instructions, quality records</p> <p>* Evidence of control of internal and external documents Example: Availability of the applicable version of the test method, the reference system, the inspection provisions, etc.</p>	<p>■</p> <p>All the items except: * ISO 9001 v08: § 4.2.1., 4.2.2</p> <p><i>Note: Quality manuals are no longer required.</i></p>
<b>8. Operation</b>				
7.4.	8.4.	Control of externally provided processes, products and services	<p>* List of the service providers</p> <p>* Contract / order defining the requirements of the applicant / holder of the certification</p> <p>* Evidence of the verification of raw materials, components <b>(1)</b>, services purchased</p> <p>* Evidence of the verification of subcontracting conditions: transport, handling, tests <b>(2)</b>, etc.</p>	<p>■</p> <p><u>External providers:</u> * supplier of raw materials, components, services integrated into the product/service * subcontractor of external services (ex: tests, handling, transport, etc.)</p> <p><i>(*) <u>Specific case of applicants/holders subcontracting part of their production</u></i> <i>CSTB audits the subcontractors (as provided for in the certification reference system)</i></p> <p>All the items except: * ISO 9001 v08: § 7.4.1. * ISO 9001 v15: § 8.4.1.</p>



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§ ISO 9001: 2008	§ ISO 9001: 2015	REQUIREMENTS	MINIMUM EVIDENCE EXPECTED	APPLICABLE (NA = not applicable)
7.5.1 / 7.5.2.	8.5.1.	Control of production and service provision	<p>* Information defining the characteristics of products and services. Example: product plan / description of the service, etc.</p> <p>* Information defining the activities to be carried out and the results to be obtained. Examples: operating method(s), working instruction(s), test method(s), certification reference system (expected performance)</p> <p>* Monitoring and measurement activities. Examples: Monitoring plan, inspection procedures and instruction(s), test method(s), etc.</p> <p>* Conservation of documented information proving the conformity of products/services with the acceptance criteria (Same as § 8.2.4. ISO 9001 v08 and § 8.6. ISO 9001 v14)</p>	■
7.5.3.	8.5.2.	Identification and traceability	<p>* Identification / Marking of the product in accordance with the requirements in the Certification reference system.</p> <p>*Marking of commercial documents in compliance with this certification reference system.</p>	■
7.5.5.	8.5.4.	Preservation	Verifying that the product is preserved throughout the production line (identification, handling, storage, packaging, transport, etc.).	■
-	8.5.6.	Control of changes ( <i>in production / service provision</i> )	<p>* Evidence of the control pertaining to the modifications in the manufacturing process / service provision, in particular the impact of modifications on the product's performance (3):</p> <ul style="list-style-type: none"> <li>- reviewing the modifications,</li> <li>- person permitting modifications and all the necessary related actions.</li> </ul>	■

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§ ISO 9001: 2008	§ ISO 9001: 2015	REQUIREMENTS	MINIMUM EVIDENCE EXPECTED	APPLICABLE (NA = not applicable)
8.2.4.	8.6.	Release of products and services	* Provisions for the control of products; records of the results of inspections and the conformity with the acceptance criteria <b>(4)</b>  * Name of the persons responsible for releasing the finished products / services	■
8.3.	8.7.	Control of nonconforming outputs	* Provisions for processing non-conformities, including customer complaints, and implementation of those provisions <b>(5)</b>  * No dispensation granted as regards the performance of a certified characteristic	■
<b>9. Performance evaluation</b>				
5.6.	9.3.	Management review	Management review report	■
<b>10. Improvement</b>				
8.5.2.	10.2.	Nonconformity and corrective action	* Implementation of corrective actions to deal with non-conformities pertaining to a certified product, including customer complaints <b>(6)</b>  * Effectiveness of the actions taken.	■

The applicant/holder shall possess the necessary ways and means for the controls and tests defined by the standards, reference documents and complementary specifications mentioned in Paragraph 3.3 of this reference system. The applicant/holder undertakes to carry out a reliable and regular control of its production. **(1) Control of the product components**

Applicants/holders are required to carry out a control of all components used in the manufacture of their certified products upon reception, and in all cases prior to use.

The “reception” internal control specified by the applicant/holder shall cover:

- the control methods for products upon reception that assess conformities and/or regularities in relation to the expected characteristics,
- including, as applicable, collection rules for product samples.

This control covers all control actions carried out by the supplier. For example: compliance sheet issued after a systematic control prior to delivery, which the applicant/holder requires the supplier to perform, supplier certified according to Standard NF EN ISO 9001 for relevant products or certified supplies, etc.

**(2) Subcontracting tests**

Applicants/holders may subcontract the tests to an external laboratory, on the condition that a contract or an order is put in place. Subcontracting is only possible if the following conditions are met:

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- Subcontracting the tests does not result in a disruption to the production process (due to wait time for results, for example);
  - The conditions for subcontracting tests are formalised in the contract or order and must define the applicable test method, the testing frequency, the requested wait times for results, the notification of results in writing, the procedure in the case of non-compliant results and the type of equipment used;
  - The subcontractors' laboratory where the test is carried out must be accredited according to Standard NF EN ISO/CEI 17025, otherwise the party requesting the test (holder of the certification mark) must ensure that the equipment used is compliant (calibration, test configuration, etc.) and the staff carrying out the test have the necessary skills.

**(3) Approach to the assessment of the complementary requirement in Standard ISO 9001 version 2015 compared to Standard ISO 9001 version 2008**

Within the framework of the Product Certification audit, the only complementary requirement referred to concerns the requirements of § 8.5.6 in Table 1: “Control of changes (*in production / service provision*)”.

If the applicant/holder does not comply with this requirement, the auditor shall notify as follows:

- Suggested improvement (if the fact occurred prior to 15/09/18)
- A deviation (if the fact is subsequent to 15/09/18).

**(4) Inspection during production and on finished products**

During production

Control during production shall be put in place by the applicant/holder. This applies to the product in its intermediate states at the main production stages, as well as compliance with the setting instructions for the production tools (production machines, equipment).

Control instructions shall be formalized and made available to the operators. The results of the controls are recorded at each control. If the results of the controls indicate that the product does not meet the requirements of this Certification Reference System, the necessary corrective actions must be implemented immediately.

On finished products

Applicants/holders are required to verify the characteristics of the finished products before delivery and are responsible for putting this control in place. The controls and tests of finished products manufactured by the applicant/holder are carried out according to the standards and additional specifications mentioned in this certification reference system.

The various controlled characteristics are measured using the operating procedures specified in the reference standards mentioned in Paragraph 3.3 of this certification reference system.

The controls of finished products are carried out by the applicants/holders themselves in their own manufacturing plant.

Applicants/holders shall take random samples at the end of the production line and carry out the controls and tests on these samples. The samples taken must be representative of the dimensions of the products covered by this certification reference system.

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The method for collecting the samples required for testing must be clearly specified in the applicant's/holder's quality plan and must not be left to the sole discretion of the operator.

Applicants/holders shall record the results of the previous controls. If the results of the standard controls are inconclusive, the controls must be reinforced and the causes of the malfunction must be identified so that corrections can be made by carrying out, if necessary, production controls.

**(5) Provisions for processing non-conformities**

They include in particular:

- An analysis for identifying the cause of the anomaly,
- An analysis to determine the impact of the anomaly on production since the previous control,
- Management ensuring that the implementation of the corrective actions is effective,
- In the unlikely event that non-compliant products are delivered to a customer, the latter shall be notified immediately so that appropriate measures can be taken.

**(6) Customer complaints**

The customer complaint record is audited; to do this, holders shall keep:

- A record of all complaints and actions relative to the products covered by this certification reference system;
- A record of the corrective measures adopted, in particular when complaints have revealed a manufacturing anomaly.

The holder shall be able to show the auditor extracts from these records relating to complaints that involve products covered by this certification reference system.

The provisions in Part 4 of the reference system in force are replaced by the following.



## **4. Marking – General provisions**

Marking is an integral part of the certification of a product.

Beyond the identification of a certified product and its traceability, the marking of a product with the logo of the collective certification mark ensures optimal protection for users and protects holders against wrongful use and counterfeit.

It is not under any circumstances permitted to refer to the QB mark without having obtained the right to use said certification mark, or to submit counterfeit products for certification.

The reproduction or use of CSTB logos is only authorised through strict application of the QB graphic chart and with support of the right of use, authorised by a valid certificate or with the prior consent of CSTB.

In addition, the fact of mentioning the main certified characteristics is intended to make the technical characteristics covered by the mark transparent to the consumers and users. It thus enhances the certification and its content.

The purpose of the marking rules described hereafter is to guide the holder in complying with Regulatory Requirements and Certification Requirements. The General Requirements of the QB mark define the conditions of use, the conditions of validity of the right to use the QB mark and the penalty arrangements in the case of wrongful use.

Without prejudice to the penalties provided for in the QB mark General Requirements, any incorrect declaration of the certified characteristics and any fraudulent use of the QB logo will result in legal action against the holder for deceptive marketing.

### **4.1 THE QB LOGO**

The QB logo will ensure the identification of each certified product throughout the transition period and shall assure this identification beyond this transition period.

The holder undertakes to respect the QB mark's graphic charter. The QB logo and its graphic charter are available from the application administrator.

The certified product must have a distinct designation and identification from non-certified products.

The holder shall not use the QB logo except to single out certified products without there being any risk of confusion whatsoever with other products, especially non-certified products.

To avoid any confusion between certified products and non-certified products, the applicant/holder will ensure that they do not use trade names that are identical or similar (for example: "Prod+" for a certified product and "Prod" for an uncertified product).

It is recommended that the holder remit to CSTB in advance any marking projects or material upon which the certification mark appears.

If the product cannot be marked for technical reasons, CSTB must be contacted to determine a common marking rule.



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## **4.2 TERMS AND CONDITIONS FOR MARKING**

This section describes both the terms for affixing the QB logo and the marking of certified characteristics.

The requirements of article R 433-2 of the Consumer Code stipulate that marking must comply with the provisions outlined in the following paragraphs, and whenever possible, include the following information:



### **Preinsulated system**

<http://evaluation.cstb.fr>

List of the certified characteristics defined in the reference system

It is recommended that consumers be informed about the primary reasons for and advantages of using a certified product. The certified characteristics must appear on at least one of the materials (product, packaging or communication media).

#### **4.2.1 Marking of certified products**

- a) All certified products manufactured after the date indicated on the approval of the right to use the QB mark (via an admission or extension procedure) and which comply with the requirements of this Certification Reference System, must be marked, at a minimum, with the mark logo (unless not possible for technical reasons).

During the transition period, certified products can be marked with:

- 1 the QB mark logo or
- 2 the logo of the mark “Certifié CSTB Certified”.

At the end of the transition period, only the marking of the QB mark logo will be authorised on certified products.

The marking must be permanently present, legible and indelible on the pipe assembly and fitting assemblies as below.

NB: If there is a code for identifying the product, the code must be given to CSTB.

- b) Every certified product must be marked in a permanent and indelible way according to the marking requirements of standards EN 253, EN 448 and EN 488.

In the case of a marking on labels, the latter have to withstand the conditions pertaining to the use and to the environment of the product on which it is affixed.



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**Marking of steel service pipe**

The marking shall comply with the standards relating to steel tubes (EN12016-2, 12017-2, 12017-5).

**Marking of the casing**

The holder of casings has to indicate on the latter:

- the raw material constituting the polyethylene (PE), by trade name or code.
- the indication of hot fluidity YEW (value of the picture given by the supplier in basic materials);
- the nominal diameter and the nominal thickness of the outer casing; - the year and the week of manufacturing (possibly in the form of code);
- the identification of the holder.

**Marking of the preinsulated piping**

The holder of the preinsulated piping indicates on the outer casing:

- the nominal diameter and the nominal wall thickness of the service tube ;
- the steel specification and grade
- the identification of the holder;
- the reference of the product European Standard (EN 253);
- the year and the week of foaming (when the foam was injected) (possibly in the form of code);
- and the marking concerning certification (see example 2).

**Marking of the preinsulated fitting (fitting assemblies of steel service pipes)**

The holder of the preinsulated fitting indicates on the outer casing:

- the nominal diameter and the nominal wall thickness of the service pipe(s) ;
- the bend angle (where necessary);
- the steel standard reference and the shade of one or several service tube(s) ;
- the identification of the holder;
- the reference of the product European Standard (EN 448);
- the year and the week of production of the foam (possibly in the form of code).

**Marking of the preinsulated valve (valve assembly of steel service pipes)**

The holder of valve assemblies shall affix the following marking on the outer casing:

- the nominal pressure of the valve according to 4.1.2 in Standard EN 488;
- the nominal diameter and the nominal wall thickness of the valve ends;
- the specifications and the steel shade of the valve ends;
- the identification of the holder;
- the identification of the holder of steel valves (possibly by code);
- the reference of the product European Standard (EN 488);
- the year and the week of injection of the foam (possibly by code);
- the year and the month of production of the valve.

In addition to the marking requirements of European standards NF EN 253, NF EN 448 and

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NF EN 488, the outer casing will bear the logo of the mark followed by the last two parts of the certificate number referring to the mark of the production factory and the last three digits of the Technical Appraisal (refer to example 2).

**4.2.2 Marking on the packaging of the certified product or on the product's accompanying document (if applicable)**

All packaging for certified products or accompanying documents shall include all the marking components defined in Paragraph 2.6.2.: logo of the mark, name of the application, reference to the website and, where possible, the list of the certified characteristics.

During the transition period, the packaging for certified products or accompanying documents can be marked with:

- 1 the QB mark logo or
- 2 the logo of the mark “Certifié CSTB Certified”

At the end of the transition period, only the marking of the QB mark logo will be authorised on the packaging or the accompanying documents of certified products.

Note: If the product is already marked, marking on the packaging of certified products must be recommended, given that this is one of the ways to promote the certified product.

**4.2.3 Marking on the communication media and documentation (Technical or commercial documents, posters, advertising, websites, etc.)**

The generic use of the QB mark through its reproduction in the holders' correspondence is forbidden, unless the holder has the right to use the QB mark for all of its products.

References to the QB mark in communication material or documentation must be made in a way that does not allow for any confusion between certified products and other products. These references must include all the marking elements defined in paragraph 2.6.2: logo of the mark, name of the application, reference to the website and, where possible, the list of the certified characteristics.

During the transition period, documentation can make reference to:

- 1 the QB mark logo or,
- 2 the logo of the mark “Certifié CSTB Certified”,
- 3 or the QB mark logo associated with the logo of the mark “Certifié CSTB Certified”.

At the end of the transition period, only the marking of the QB mark logo will be authorised on the communication media and the documentation.

For the French market, this information must be provided in French (Law No. 94-665 of 4 August 1994 relative to the use of the French language). If necessary, the information can also be given in one or more other languages.

For the proper interpretation of this paragraph, the holder should be advised to submit to CSTB in advance all communication material and documentation where the certification mark is expected to be used.





Example 1:

- Reference to a Technical Appraisal (Avis Technique):

N°14 / 01                      xxx                                      du jj/mm/aaaa  
  ↑  ↑                      -                      ↑                                      ↑  
  ① ②                                      ③    ④

- ① : Reference of the Specialised Group
- ② : year of issuance (Année de formulation )
- ③ : Technical Appraisal number (N° d'ordre de l'Avis Technique )
- ④ : Date of registration (date d'enregistrement)

Example 2:

- Reference to the certification:

  
SYSTEMES PRE-ISOLES  
PREINSULTED SYSTEMS


YY – xxx  
  ↑  ↑  
  ① ②

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- ❶ : Reference of the factory indicated on the certificate (Repère de l'usine indiqué sur le certificat)
- ❷ : The Technical Appraisal last digits (derniers chiffres de l'Avis Technique).

Each documentation relative to a certified product shall be provided as follows:

 <b>PREINSULATED SYSTEMS</b>	<p>This mark certifies:</p> <ul style="list-style-type: none"> <li>- -The conformity with the Specific Requirements</li> <li>- - The characteristics below</li> </ul>
<ul style="list-style-type: none"> <li>- Name and address of the holder (name and address of the representative in the European Economic Area, if necessary)</li> <li>- Name of the product (trade mark and reference)</li> <li>- The main certified characteristics are:</li> </ul> <p><u>Specification pertaining to steel service pipes, fittings and valves assemblies:</u></p> <ul style="list-style-type: none"> <li>○ the dimensions (pipes and fittings).</li> <li>○ leak tightness (valves).</li> </ul> <p><u>Specifications pertaining to the casing:</u></p> <ul style="list-style-type: none"> <li>○ material properties (melt mass-flow rate and density).</li> <li>○ long-term characteristic.</li> <li>○ dimensions.</li> <li>○ elongation at break.</li> <li>○ heat reversion.</li> </ul> <p><u>Specifications pertaining to the insulating material (polyurethane rigid foam):</u></p> <ul style="list-style-type: none"> <li>○ cell structure.</li> <li>○ foam density.</li> <li>○ compressive strength.</li> <li>○ water absorption at elevated temperature.</li> </ul> <p><u>Specifications pertaining to the preinsulated pipes, fittings and valves:</u></p> <ul style="list-style-type: none"> <li>○ dimensions (<u>preinsulated pipes, fittings and valves</u>).</li> <li>○ shear strength (preinsulated piping).</li> <li>○ thermal resistance (preinsulated piping).</li> <li>○ impact resistance (preinsulated piping).</li> <li>○ long-term creep resistance (preinsulated piping).</li> <li>○ characteristic welding (preinsulated <u>fittings and valves</u>).</li> <li>○ leak tightness of the outer casing (preinsulated <u>fittings and valves</u>).</li> <li>○ minimum insulation thickness in bends (preinsulated <u>fittings and valves</u>).</li> </ul> <p><u>Specifications pertaining to assembly systems:</u></p> <ul style="list-style-type: none"> <li>○ suitability for use.</li> <li>○ Resistance to strain on the ground.</li> </ul>	