

CERTIFICATION

NF Certification Reference System: Sanitary Appliances



SANITARY APPLIANCES



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NF Certification Reference System – Sanitary Appliances
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This certification reference system has been submitted for validation by the CSTB Technical Department. It was approved by the AFNOR Certification Managing Director on 21/12/2018 for acceptance into the NF certification system.

It cancels and replaces all previous versions.

As a certifying body accredited by the COFRAC under number 5-0010, scope of accreditation available at www.cofrac.fr, CSTB undertakes to draft certification reference systems that meet appropriate requirements with regard to the quality of products, their suitability for use and their durability.

This certification reference system may therefore be revised, in whole or in part, by CSTB, after consulting the parties involved. The revision of the certification reference system is approved by the AFNOR Certification Managing Director.

MODIFICATION HISTORY

Modified Part	Revision no.	Date brought into application	Modification made
The whole document	27	21/12/2018	New reference system structure split into two sections: the reference system document and an administrative management appendix to this reference system document.

Part 1

Application

1.1 Scope

This certification reference system now applies to the following sanitary appliances for domestic purposes:

- baths (made of cast iron, steel, synthetic materials);
- shower trays (made of ceramic, steel, cast iron, synthetic materials);
- washbasins and hand-rinse basins (made of ceramic);
- bowls and vanity tops (made of ceramic, synthetic materials);
- bidets (made of ceramic);
- WC pans and equipped flushing cisterns
- equipped flushing cisterns for WC pans or WC suites;
- WC packs;
- independent WC pans;
- support frames;
- shower enclosures;
- sanitary appliances for public use;
- sinks (made of ceramic, stainless steel, synthetic materials).

These products are broken down into 10 families depending on tests defined in standards and complementary specifications:

- the enamelled sanitary appliances family:
 - o class 1 baths;
 - o class 1 shower trays;
 - o washbasins and hand-rinse basins;
 - o bowls and vanity tops;
 - o bidets;
 - o WC pans and equipped flushing cisterns;
 - o equipped flushing cisterns for WC pans or WC suites;
 - o WC packs;
 - o independent WC pans;
 - o sinks;
 - o sanitary appliances for public use;
- the family of sanitary appliances made of cast acrylic materials:
 - o class 1 baths;
 - o class 1 shower trays;
 - o bowls and vanity tops;
- the family of sanitary appliances made of co-extruded ABS/acrylic sheets:
 - o baths;
 - o shower trays;
- the family of equipped flushing cisterns made of synthetic materials;
- the family of baths and shower trays made of synthetic materials other than acrylic and co-extruded ABS/acrylic materials;
- stainless steel sinks;
- sinks made of synthetic materials;
- bowls and vanity tops made of synthetic materials;
- support frames;
- shower enclosures.

The NF mark strives to inspect:

- the safety characteristics for people, pets and goods when required in consideration of the normal, routine use of the products,
- and/or the suitability for use,
- and/or the durability of the products,
- and/or any additional characteristics that enable them to stand out in the market.



The certified characteristics are identified in §1.2 below.

1.2 Certification added value

Certification is recognition by a third party of the conformity of the characteristics demonstrating the added value of the product.

The certified characteristics of the NF – Sanitary Appliances application are the following:

1.2.1 As per the standards cited in §2.2.1

- Materials resistant to cleaning products reserved for this purpose;
- Materials resistant to contact with non-prohibited chemical products (products to remove rust stains usually based on fluorine salts shall be entirely prohibited close to enamel-coated appliances);
- Sturdiness in use of wall-hung appliances;
- Appropriate dimensions allowing the appliances to be connected to supply and drain valve fittings;
- Shape of the bottom of the basin (washbasin, bidet, shower tray, sink, bath, etc.) allowing water to drain out without stagnating;
- The design of the pan/equipped cistern assembly satisfies constraints with regard to:
 - o protection of the drinking water network (no backflow);
 - o noise reduction (certified taps );
 - o efficiency (drainage, rinsing of walls);
 - o hygiene (no splashing);
 - o water saving when the “water saving ” mechanism is fitted;
- Shower enclosure design allowing for:
 - o ease of cleaning: all volumes are accessible;
 - o leak tightness to water jets;
 - o can resist 30,000 door opening and closing cycles;
 - o safety: no breakage and disengagement in case of an impact on the wall (safety glass).

1.2.2 With a performance level higher than the one specified in standards:

NF EN 13310

- o For stainless-steel sinks: material quality, surface condition, design and manufacturing principles, dimensional characteristics, drain board strength.
- o For sinks made of synthetic materials: material quality, dimensional characteristics, drain board strength and slope, mechanical shocks.

NF EN 14516

- Bath rims shall have a slope that allows water to return inside the bath.
- For baths made of synthetic materials: material quality, reinforcement quality, bottom thickness, dimensional characteristics, mass and capacity variation, heightened thermal shock test, requirements for handles, service requirement.

NF EN 14527

- For shower trays made of synthetic materials: material quality, dimensional characteristics, heightened thermal shock test.

NF EN 997

- For WC pans: renewal of water in the trap.
- For WC pans for children and babies: draining efficiency and renewal of water in the trap.

NF EN 14055

- For flushing cisterns made of synthetic materials: quality of material used for flush control plates or buttons.

NF EN 14428

- For shower enclosures: compliance with 30,000 opening and closing cycles.

NF EN 13407

- For urinals: resistance to static loads.

1.2.3 Other characteristic:

Slip resistance of shower trays.

CSTB is responsible for assessing the certified characteristics, using the following control measures:

	Admission	Continued monitoring
<p>Production audit carried out by a qualified technical auditor:</p> <ul style="list-style-type: none"> - Verification that the production inspections and records have been completed: raw materials, production, finished products, - Verification of the quality management provisions: metrology, packaging, storage, traceability, product marking, processing of non-conformities and customer complaints, - Supervision of certified characteristics tests carried out by the applicant, where applicable. 	Yes	<p>Yes</p> <p>Frequency: 2 audits in the first 12 months, then 1 annual audit (*)</p>
<p>Tests carried out by a laboratory recognised by the certifying body (independent and competent):</p> <ul style="list-style-type: none"> - Samples taken by the certifying body and completed on the applicant/holder's site. 	Yes	<p>Yes</p> <p>Frequency: 2 test campaigns in the first 12 months, then 1 annual test campaign</p>

(*) The audit frequency may be increased to 2 or more annual audits whenever critical non-conformities are observed.

1.3 Applying for certification / Certification contract

Any legal entity:

- manufacturing products within the scope defined above and that can comply with the technical requirements described in Part 2 of this document,
- or distributing products within the scope defined above for which the manufacturer complies with the technical requirements described in Part 2 of this document,

may request the right to use the NF – Sanitary appliances mark.

Such requests are referred to as “applications” while the entities making them are referred to as “applicants”.

The applicant submits its application to the certifying body. It is accompanied by all the useful information concerning the given products, the production conditions and quality control to ensure compliance of the products with this certification reference system.

An application form and the list of information to be supplied to support an application are appended to this certification reference system.

For a period of 10 working days, beginning on the date of receipt by the certifying body of its application for certification, the applicant has the right to desist from its commitments, for any cause whatsoever, by sending a registered letter with acknowledgement of receipt to the certifying body.

The Certification Contract consists of the completed and signed application letter, accompanied by the estimate where applicable; it is governed by all the documents referenced to this application letter (NF mark general rules, certification reference system, additional technical requirements, etc.).

The contract is entered into for an unlimited term.

The holder may terminate, with no further legal formality, NF certification for all or some of their certifications for any reason whatsoever, in particular when the relevant activity has ceased.

Such termination takes effect only after the expiration of a period of 15 days beginning on the date of receipt by CSTB of the registered letter with acknowledgement of receipt, remitted by the holder, communicating the termination with no further legal formality of the NF certification for one of the reasons defined above.

Beginning at the date when the termination takes effect, the holder undertakes to no longer use in any way whatsoever, nor reproduce on any medium whatsoever, the NF mark for the products for which certification has ended.

The certifying body reserves the right to end its certification or to cease formalising its certification for the NF mark. The certifying body then specifies the transitional procedures and conditions in accordance with the contractual provisions of its mandate contract.

The contract is governed by French law. If there is any problem with interpretation, execution or validity of the Contract, the Parties agree to solve their differences out of court unless there is an emergency that justifies calling in competent jurisdiction acting in summary proceedings.

If the Parties are unable to resolve their differences within three (3) months after they arise, the dispute will be taken before the competent French courts by the most diligent Party.

Note 1: Particular case of an admission request in a country subject to special vigilance

After observing a number of tensions throughout the world, the French Ministry of Foreign Affairs defines alert areas for each country under the following conditions:

<http://www.diplomatie.gouv.fr/fr/conseils-aux-voyageurs/conseils-par-pays/>

- Green areas for normal vigilance;
- Yellow areas for reinforced vigilance;
- Orange areas inadvisable unless for imperative reasons;
- Red areas highly inadvisable.

In accordance with the recommendations of the French Government, with a view to ensuring the safety of CSTB personnel and its subcontractors (hereafter referred to as “the Auditors”), any admission applications for certification made by entities whose sites to be assessed as part of the certification process are located in the territory of a country classified in orange- or red-alert areas shall not be taken into consideration by CSTB.

For certification applications made by entities whose sites to be assessed as part of the certification process, during the admission or follow-up stages, are located in the territory of a country classified in a yellow-alert area, Auditors are allowed to travel provided that the audited entity makes arrangements locally and entirely at its own expenses for the transport and accommodation of Auditors so that their safety may be ensured.

For follow-up audits in red- or orange-alert areas, or in yellow-alert areas for which the auditors have exercised their right to withdraw, the following exceptional measures shall be implemented:

The follow-up audits shall be cancelled and replaced by the following measures:

- performance of tests on one or more products sampled from the market, and
- analysis of tests and inspection records since the last audit, and
- analysis of customer complaint records since the last audit.

Furthermore, specific conditions relating to the applicant/holder’s situation may require additional measures to be determined by CSTB after consultation with the relevant committee.

After three exceptional evaluations, withdrawal of the certification shall be announced.

Within 10 days prior to any travel, the applicant/holder shall provide CSTB with the Auditors’ travel and accommodation conditions required to ensure their safety. CSTB may make observations and justify additional requests; it reserves the right to cancel any business trip if the conditions submitted do not provide sufficient guarantees for safety.

Note 2: Specific case of production subcontracting by an applicant

The applicant may subcontract part of the manufacture of their products covered by this certification reference system.

If so, they undertake to:

- be responsible for the effectiveness of the production control system as a whole in accordance with this certification reference system;
- be able to provide, on the one hand, the specifications that define the inspection operations that they impose on their subcontractor in order to comply with the requirements in this certification reference system and, on the other hand, the evidence regarding the subcontractor’s success in complying with those requirements.

Note 3: Specific case of a new application in the context of a withdrawal or suspension of a certificate following a penalty

When CSTB announces the withdrawal of a certificate following a sanction, the holder loses their right to use the NF mark. They become a former holder. Former holders may not submit a new certification application for a product, service or person that is identical to the product, service or person at the source of the decision to withdraw the certificate, unless they provide CSTB with evidence deemed satisfactory demonstrating that curative and corrective actions have been implemented since the withdrawal decision, bringing the product, service or person into strict and sustainable compliance with all the Certification requirements.

Likewise, when CSTB announces the suspension of a certificate following a sanction, the holder loses their right to use the NF mark until CSTB lifts the suspension. The suspension can be lifted when the holder provides CSTB with evidence deemed sufficient to demonstrate that curative and corrective actions have been taken since the suspension decision, so that the product or service or person strictly complies with all Certification requirements over the long term.

1.4 Applicant's commitment

Before applying, applicants must make sure that they meet the conditions defined in this certification reference system concerning their product and the sites in question. It is the applicants' responsibility to make sure that the regulations applicable to their product are respected.

They must undertake to meet the same conditions throughout the entire duration of the use of the NF mark.

Applicants undertake to:

- 1 accept and comply with the conditions set down and defined in the certification reference system specific to the field of products in question, and in particular, to:
 - present for certification products that conform to the current regulations concerned,
 - implement the changes required by changes to the certification reference system, which are communicated by the certifying body,
 - use the NF mark in accordance the conditions defined in the certification reference system and only for the products certified,
 - follow through on the decisions taken by the certifying body as part of certification (in particular, to specify and implement corrective actions in response to any disparity detected or apply a sanction decision);
- 2 pay the certification fees (management, audit and tests, if applicable) in accordance with the price list in force;
- 3 not submit any counterfeited products for certification;
- 4 take the necessary measures:
 - to conduct the audit, including the provision of elements to be examined such as: documentation and records, access to the relevant equipment, locations, production areas, staff and client's subcontractors,
 - for the participation or non-participation of third-party observers during the audit, as appropriate;
- 5 examine and record all complaints:
 - provide these records to the certifying body and auditors on request,
 - take all appropriate actions in relation to these complaints and the imperfections observed in the products which have consequences for their compliance with the certification requirements,
 - provide documents pertaining to the actions undertaken;

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- 6 reserve the trade name of the product presented only for certified products in compliance with the relevant Technical Requirements;
 - 7 efficiently apply the production control system established in order to meet the requirements of the certification reference system;
 - 8 apply the controls for which they are responsible so that maintenance of the right to use the NF mark may be granted;
 - 9 inform the certifying body without delay of any modifications made to the basic file delivered with the application for the right to use the NF mark (in particular any modifications made to the product(s) that is/are the subject of the application);
 - 10 inform the certifying body of any permanent or temporary halt in production that concerns the certificate;
 - 11 make statements and provide communication on certification consistent with the scope of certification;
 - 12 neither use their product's certification in such a manner as to bring the certification body into disrepute nor make any statement regarding their product certification that the certification body may consider misleading or unauthorised, in particular:
 - not use the NF mark in a way that is abusive or not in compliance with the certification reference system in force,
 - not use the certifying body's logo;
 - 13 upon suspension, withdrawal or termination of certification, discontinue their use of all advertising materials that contain any reference thereto, take action as required by the certification reference system and take any other required measure;
 - 14 communicate to the certifying body at its request all printed advertising material and catalogues that refer to the NF mark;
 - 15 reproduce in full or as specified by the certification reference systems, any copies of certification documents that are supplied to others;
 - 16 comply with the requirements of the certifying body when making reference to their product certification in communication media, such as documents, brochures or advertising;
 - 17 for all participants of the certifying body or its qualified sub-contractors, ensure that all the safety provisions relating to working conditions, sites and equipment conform to current local regulations. Failing compliance with all of the commitments, the applicant may incur halt to or suspension of the examination of their dossier.

1.5 Publication

The certifying body reserves the right to publish the certificates to provide the best possible information to users.

The characteristics certified, the list of holders of the NF mark and/or the NF certificates are made public via the certifying body's website.

Partie 2

Certification Scheme

The certification scheme for the NF – Sanitary Appliances application consists of this certification reference system, which references:

- the General Rules for the NF mark, which set the organisation and conditions for the use of the mark,
- the standards referred to in §2.2.1;
- the additional technical requirements referred to in §2.2.2.

This certification reference system falls under the framework of the certification of non-food-related products and services, as provided for in the French Consumer Code (articles R-433-1 to R 433-2 and L 433-3 to L 433-11). It specifies the conditions for applying the General Rules for the NF mark to the products defined in Part 1.

2.1 Regulations

The granting of the right to use the NF mark in no way substitutes CSTB's responsibility for the legal responsibility on the company which holds the NF mark usage right.

As regards the regulatory requirements covered by this certification reference system, the applicant/holder shall, during the certification audits, submit to the certifying body the documentary evidence defined in the regulations and attesting to the product's compliance with the regulatory requirements.

Note: If the documentary evidence is not managed or stored on the site where the audit is being conducted, this evidence shall be submitted to the certifying body, using any appropriate means, before the certifying body ends its assessment.

The applicant/holder is held responsible to the certifying body for any inaccurate, deceptive and/or non-compliant documentary evidence with regard to the definition of documentary evidence as laid down in the regulations.

It is not the certifying body's role to prove a product's compliance with the regulatory requirements listed in this document. That role falls exclusively to the bodies approved by the authorities in charge of applying each of the regulations concerned.

The main regulations that apply to launching products on the French market, and for which the applicants/holders shall submit to the certifying body a document attesting to their products' compliance with the regulations, are listed below.

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Regulations	Documentary evidence required
<p>Article L.121-2 of the French Consumer Code: “A marketing practice is deceptive if it is committed in one of the following circumstances: 2° “When it is based on allegations, information or presentations that are false or likely to mislead and that cover at least one of the following elements: ... b) The essential features of the goods or services, namely: their substantial qualities, their composition, accessories, origin and quantity, the manufacturing method and date of manufacture, the conditions of use and their suitability for use, their properties and the results expected from their use, as well as the results and main characteristics related to the tests and inspection carried out on those goods and services”.</p>	<p>Trade name of the product Commercial presentation of the product (brochures, website, etc.)</p>
<p>Regulation (EU) no. 305/2011 of the European Parliament and Council of 9 March 2011.</p>	<p>Declaration of performance</p>

2.2 The standards and additional specifications

For the references that indicate a date of implementation or an index, only the version cited is applicable. For references that do not indicate a date of implementation or index, the most recent version of the reference document applies (including any amendments).

2.2.1. APPLICABLE STANDARDS (see technical document no. 017-01 for possible waivers)

Product standards

- NF EN 31
- NF EN 33
- NF EN 35
- NF EN 80
- NF EN 198
- NF EN 232
- NF EN 249
- NF EN 251
- NF EN 695
- NF EN 997
- NF EN 1717
- NF EN 13310
- NF EN 13407
- NF EN 14055
- NF EN 14124
- NF EN 14296
- NF EN 14428
- NF EN 14516
- NF EN 14527
- NF EN 14528
- NF EN 14688
- NF EN 15719
- NF EN 15720
- NF D 11-101
- NF D 11-107
- *Wash basins - Connecting dimensions*
- *WC pans and WC suites - Connecting dimensions*
- *Pedestal and wall-hung bidets with over-rim supply - Connecting dimensions*
- *Wall-hung urinals - Connecting dimensions*
- *Sanitary appliances – Baths made from crosslinked cast acrylic sheets – Requirements and test methods*
- *Baths - Connecting dimensions*
- *Sanitary appliances - Shower trays made from crosslinked cast acrylic sheets – Requirements and test methods*
- *Shower trays - Connecting dimensions*
- *Kitchen sinks - Connecting dimensions*
- *WC pans and WC suites with integral trap*
- *Protection against pollution of potable water in water installations and general requirements of devices to prevent pollution by backflow*
- *Kitchen sinks - Functional requirements and test methods*
- *Wall-hung urinals – Functional requirements and test methods*
- *WC and urinal flushing cisterns*
- *Inlet valves for flushing cisterns with internal overflow*
- *Sanitary appliances – Communal washing troughs*
- *Shower enclosures - Functional requirements and test methods*
- *Baths for domestic purpose*
- *Shower trays for domestic purposes*
- *Bidets - Functional requirements and test methods*
- *Sanitary appliances – Wash basins – Functional requirements and tests methods*
- *Sanitary appliances – Baths made from impact modified coextruded ABS/acrylic sheets – Requirements and test methods*
- *Sanitary appliances – Shower trays made from impact modified coextruded ABS/acrylic sheets – Requirements and test methods*
- *Sanitary appliances – Sanitary ceramic wash basins*
- *Sanitary appliances – Sanitary ceramic bidets*

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- NF D 11-112 • *Sanitary appliances - Vitreous enamelled materials baths*
 - NF D 11-121 • *Baths for domestic purposes made of acrylic material - Additional specification for the mounting of taps on baths*
 - NF D 11-124 • *Sanitary appliances - Vitreous enamelled shower trays*
 - NF D 11-130 • *Sanitary appliances – Products made of enamelled materials intended for non-domestic use*
 - NF D 12-101 • *Sanitary appliances - Sanitary ceramic WC pans*
 - NF D 12-203 • *Sanitary appliances - Equipped flushing cisterns for toilet bowl*
 - NF D 12-208 • *Sanitary appliances – Built-in frames*
 - NF D 12-210 • *Sanitary appliances – Synthetic material toilet wash-basins and surfaces*
 - NF D 13-101 • *Sanitary appliances - Vitreous enamelled sinks*
 - D60-020 • *Domestic furniture – Information to be supplied with “consumer-mounted” furniture – Requirements and recommendations*
 - NF P43-003 • *Plumbers’ fittings – Valves for flushing cisterns – General technical specifications*
 - NF P43-007 • *Valves and taps for water supply in buildings – Controllable check valves class A – General technical specifications*

Material standards

- NF EN 263 • *Sanitary appliances – Crosslinked cast acrylic sheets for baths and shower trays for domestic purposes*
- NF EN 13559 • *Specifications for impact modified coextruded ABS/Acrylic sheets for baths and shower trays for domestic purposes*
- NF D 14-601 • *Sanitary appliances. Material enamelled – General specifications*

2.2.2. ADDITIONAL TECHNICAL SPECIFICATIONS

In addition to the requirements set out in the previous paragraphs, the products shall comply with the complementary specifications laid down in the following documents:

- Technical document 017-01 Waivers to standards
- Technical document 017-02 Additional general specifications
- Technical document 017-03 Connection dimension check gauges
- Technical document 017-04 Preferred fields of use for enamelled sanitary appliances
- Technical document 017-05 Complementary specifications applicable to stainless steel sinks
- Technical document 017-06 Complementary specifications applicable to sinks made of synthetic materials
- Technical document 017-08 Complementary specifications applicable to baths
- Technical document 017-10 Complementary specifications applicable to baths and shower trays made of synthetic materials other than co-extruded ABS/acrylic
- Technical document 017-12 Complementary specifications applicable to WC pans
- Technical document 017-13 Operation of WC pans for children and babies
- Technical document 017-14 Complementary specifications applicable to equipped flushing cisterns
- Technical document 017-15 Definition of the WC pack
- Technical document 017-16 Resistance of urinals to static loads
- Technical document 017-17 Complementary specifications applicable to support frames
- Technical document 017-18 Complementary specifications applicable to shower enclosures
- Technical document 017-19 Slip resistance of shower trays
- Technical document 017-20 Baths and shower trays made from impact-modified co-extruded ABS/acrylic sheets
- Technical document 017-21 Additional specifications for the water evacuation test, applicable to all sanitary appliances

2.2.3. SPECIFICATIONS BY PRODUCT TYPE

BATHS NF EN 232 NF EN 14516 (class I) Technical document 017-08	Synthetic materials NF EN 198 NF EN 15719 NF D 11-121 Technical document 017-10 Technical document 017-20
	Enamelled materials NF D 11-112 NF D 14-601
SUPPORT FRAMES (must be certified with their associated cistern(s)) NF D 12-208 Technical document 017-17	
BIDETS NF EN 35 NF EN 14528	Sanitary ceramic NF D 11-107 NF D 14-601
WC PANS NF EN 33 NF EN 997 (class I) Technical document 017-12 Technical document 017-13	Sanitary ceramic NF D 12-101 NF D 14-601
SINKS NF EN 695 NF EN 13310	Stainless steels Technical document 017-05
	Synthetic materials Technical document 017-06
	Enamelled materials NF D 13-101 NF D 14-601
WASHBASINS NF EN 31 (for pedestal washbasins and for wall-hung washbasins) NF EN 14688 NF D 11-201 (for handicapped persons)	Sanitary ceramic NF D 11-101 NF D 14-601
	Synthetic materials NF D 12-210
COMMUNAL WASHING TROUGHS NF EN 14296 NF D 11-130 NF D 14-601	
WALL-HUNG HAND-RINSE BASINS NF EN 31 NF EN 14688 NF D 11-101 NF D 14-601	

<p>WC PACKS NF EN 33 NF EN 997 (class I) NF D 12-101 NF D 12-203 NF D 12-207 NF D 14-601 Technical document 017-12 Technical document 017-14 Technical document 017-15</p>	
<p>SHOWER ENCLOSURES NF EN 14428 Technical document 017-18</p>	
<p>PRODUCTS MADE OF ENAMELLED MATERIALS INTENDED FOR NON-DOMESTIC USE (other than communal washing troughs, urinals and communal WC pans) NF D 11-130 NF D 14-601</p>	
<p>SHOWER TRAYS NF EN 251 NF EN 14527 (class I) Technical document 017-19</p>	<p>Enamelled materials NF D 11-124 NF EN 15720 NF D 14-601</p>
	<p>Synthetic materials NF EN 249 Technical documents 017-10 and 017-20</p>
<p>FLUSHING CISTERNS FOR WC PANS NF EN 14055 (classes I and II) NF D 12-203 Technical document 017-14</p>	<p>Sanitary ceramic NF D 14-601</p>
<p>WALL URINALS NF EN 80 NF EN 13407 NF D 11-130 NF D 14-601 Technical document 017-16</p>	

2.3 Declaration of modifications

This paragraph specifies the information that the holder of the right to use the NF mark must provide to CSTB and the procedures they must follow in the event of any modifications to:

- the holder;
- the manufacturing plant;
- the quality organisation of the manufacturing plant;
- the product.

Failure to respect this obligation as observed by CSTB may lead to a suspension or withdrawal of the right to use the NF mark.

In any cases not provided for above, CSTB determines whether the modifications bring the certification into question and whether it is necessary to carry out a complementary quality assurance operation.

Depending upon the results of the examination, CSTB communicates the appropriate decision.

2.3.1 MODIFICATION CONCERNING THE HOLDER

The holder shall communicate in writing to CSTB any legal modification of their company or any modification in their company name.

In case of merger, liquidation or absorption of the holder, all rights to use the NF mark from which they might benefit shall automatically stop.

A new admission application may be submitted and its examination may be streamlined depending upon the modifications made.

2.3.2 MODIFICATION CONCERNING THE MANUFACTURING UNIT

→ For production transfers:

Any transfer (in whole or in part) of the manufacturing unit of a certified product to another production site entails an immediate halt in the NF marking by the holder on the affected products.

The holder shall declare this transfer in writing to CSTB, which will organise an audit of the new production unit and, as the case may be, have tests carried out.

The visit may be streamlined or even cancelled if the new manufacturing unit is already known to CSTB.

The procedures for assessing and deciding whether to renew the certification are the same as those for admission as described in Part 3 of this certification reference system.

→ For production process modifications:

The holder must demonstrate that the modification of the production process does not have an impact on the performance of the product's certified characteristics (see §2.4.2: §8.5.6. 9001 V15), and must inform CSTB of this.

2.3.3 MODIFICATION CONCERNING THE MANUFACTURING UNIT'S QUALITY ORGANISATION

The holder must declare in writing to CSTB any modification relating to their quality organisation that may affect the production process's compliance with the requirements of this certification reference system.

In particular, they must declare any changes to the certification of their quality management system. If the distribution is carried out by a third party, where appropriate, the holder shall undertake to immediately inform CSTB of any modification made to the distribution of their products and, in particular, any halt in supply by the designated third party.

Any temporary halt in internal quality assurance operations for a certified product entails an immediate halt in the NF marking of this product by the holder, who must inform CSTB of this.

CSTB then communicates to the holder a decision to suspend the right to use the NF mark for a specific duration following which, if the right of use cannot be re-established, this holder's right to use the NF mark will be withdrawn.

Upon the request of the holder, the right of use will be reinstated after an audit on the production unit has been carried out or the elements supplied by the holder have been assessed.

2.3.4 MODIFICATION CONCERNING THE CERTIFIED PRODUCT

Any modification to the certified product relative to the application dossier that is likely to have an effect on the product's compliance with the requirements in the certification reference system must be declared to CSTB in writing.

According to the modification declared, CSTB determines whether this is a certification extension application and whether the holder must stop marking the modified product while waiting for the right of use to be awarded.

2.3.5 TEMPORARY OR PERMANENT HALT IN PRODUCTION

Any permanent or temporary halt in the production of the certified product (or range of products), or any abandonment of a right to use the NF mark, shall be declared to CSTB in writing, specifying the time necessary to sell off the inventory of the NF-labelled products. CSTB shall notify the holder of the NF mark of the suspension or withdrawal of the right to use the NF mark. When the period indicated by the holder expires, the product is removed from the list of certified products.

Any temporary halt in the manufacture of the certified product (or range of products) must result in a suspension of the right to use the NF mark for a maximum period of 6 months, renewable once, if applicable.

The total duration of the suspension of the right to use the NF mark for these products must not exceed one year. The lifting of the suspension may only be announced following one or more assessments, which may be in the form of an audit and/or tests.

2.3.6 MODIFICATION CONCERNING THE DISTRIBUTION CIRCUIT

The holder must undertake to inform CSTB of any modification to the distribution of the certified products as soon as they become aware of such modification and, in particular, whenever they stop supplying a distributor who holds the right to use the NF mark, which means that the right to use the NF mark is no longer maintained.

The distributor whose right to use the NF mark has been maintained must undertake to inform CSTB of any modifications in their supplies that would result in the right to use the NF mark no longer being maintained. The distributor's right to use the NF mark can only be validated after a new examination in accordance with Part 3 of this certification reference system.

2.4 Quality management provisions: audit rules

2.4.1 PURPOSE

Applicants/holders and their distributors holding a right of use are each responsible for the right to use the NF mark for the relevant product.

Applicants/holders shall implement all measures necessary to guarantee the product's conformity with this certification reference system at all times. In addition, they must manage their external service providers by using all appropriate 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 in accordance with this certification reference system at all times.

The quality system depends in part on the establishment by the applicant/holder of a set of organisational measures ensuring conformity of the delivered products with the additional specifications and standards, if applicable. These measures are described in paragraph 2.4.2 below.

2.4.2 MINIMUM REQUIREMENTS FOR QUALITY MANAGEMENT

Applicants/holders shall have implemented the ways and means that they possess, the existence and effectiveness of which are assessed based on the requirements of standard NF EN ISO 9001, **revision 2015**.

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

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

As part 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.

Table 1 (Applicable Requirements)

ISO 9001: 2015	REQUIREMENTS	MINIMUM EVIDENCE EXPECTED	APPLICABLE
5. Leadership			
5.3.	Organisational roles, responsibilities and authorities	<ul style="list-style-type: none"> * Organisation chart * Description of responsibilities and authorities (examples: org chart, job sheets, etc.) * Person appointed to be responsible for organising and effectively implementing the production system 	<ul style="list-style-type: none"> ■ To be used for persons responsible for the inspection or with a direct impact on critical points in making the product <p>All items except §5.3 c,d</p>
7. Support			
7.1.4.	Environment for process implementation	<p>Evidence of maintenance of the work environment.</p> <p>Examples: storage of the product and its components to protect them from bad weather, suitable ambient conditions, etc.</p>	<ul style="list-style-type: none"> ■ To be used for processes linked to the production of the products / execution of the services
7.1.5.	Resources for monitoring and measuring	<ul style="list-style-type: none"> * List of the inspection, measuring and test equipment used on the product/service production site and/or in the laboratory, * Identification of equipment used to determine its validity, * Verification or calibration schedule for equipment that has an impact on the validity of the results (in particular, the equipment used to perform tests on certified characteristics), * Evidence of the verification and/or calibration operations (e.g. equipment data sheet, verification or calibration report, etc.), * Evidence of connection to national or international standards (where possible), * Validation of software used to monitor and measure the specified requirements, where appropriate. 	<ul style="list-style-type: none"> ■ To be used for processes linked to the production of the products / execution of the services
7.2.	Competencies	<ul style="list-style-type: none"> * Compliance with test methods and inspection provisions. * Actions planned to acquire the necessary competencies (training, tutoring, etc.), where appropriate. 	<ul style="list-style-type: none"> ■ To be used for persons responsible for the inspection or with a direct impact on critical points in making the product

§ISO 9001: 2015	REQUIREMENTS	MINIMUM EVIDENCE EXPECTED	APPLICABLE
7.5.	Documented information	<p>* List of internal and external documented information. Examples: Procedures, operating procedures, 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, reference system, inspection mechanisms, etc.</p>	<p>■</p> <p>To be used for processes linked to the production of the products / execution of the services</p> <p>All items</p> <p><i>Note: Quality Manuals are no longer required.</i></p>
8. Completing operational activities			
8.4.	Control of externally provided processes, products and services	<p>* List of 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 (1), services purchased</p> <p>* Evidence of the verification of subcontracting conditions: transport, handling, tests (2), etc.</p>	<p>■</p> <p>To be used for raw materials, purchased components and outsourced services affecting the quality of the product/service</p> <p><u>External providers:</u></p> <p>* supplier of raw materials, components, services integrated into the product/service</p> <p>* subcontractor of external services (e.g. tests, handling, transport, etc.)</p> <p><i>(*) Specific case of applicants/holders subcontracting part of their production</i> <i>CSTB audits the subcontractors (as provided for in the certification reference system)</i></p> <p>All items except §8.4.1.</p>
8.5.1.	Control of production and service provision	<p>* Information defining the characteristics of products and services. Examples: 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 procedure(s), working instructions, test method(s), certification reference system (expected performance)</p> <p>* Monitoring and measurement activities. Examples: monitoring plan, inspection procedures and instructions, test method(s), etc.</p>	<p>■</p>

		* Conservation of documented information proving the conformity of products/services with the acceptance criteria (<i>same as §8.2.4. ISO 9001 v08 and §8.6.ISO 9001 v15</i>)	
8.5.2.	Identification and traceability	* Identification/Marking of the product in accordance with the requirements in the certification reference system *Marking of commercial documents in compliance with this certification reference system.	■ <To be considered in all cases for identification (and for traceability, where relevant)>
8.5.4.	Preservation	Verification that the product is preserved throughout the production line (identification, handling, storage, packaging, transport, etc.)	■
8.5.6.	Control of changes (<i>in production/provision of service</i>)	* Evidence of control over modifications in the manufacturing process/provision of service, particularly the impact of modifications on the product's performance: - review of modifications, - person authorising the modification and all necessary actions.	■
8.6.	Release of products and services	* Provisions for the inspection of products/services; records of inspection results and of conformity with the acceptance criteria (3) * Names of the persons having authorised release of the finished products/services	■
8.7.	Control of non-conforming outputs	* Provisions for processing non-conformities, including customer complaints, and implementation of those provisions (4) * No dispensation granted for the performance of a certified characteristic	■
9. Performance evaluation			
9.3.	Management review	Management review report	■
10. Improvement			
10.2.	Non-conformity and corrective action	* Implementation of corrective action to deal with non-conformities pertaining to the certified product, including customer complaints (5) * Effectiveness of the actions taken.	■

(1) Inspection of product components

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

The internal “reception” inspection established by the applicant/holder shall cover:

- inspection methods for products upon receipt that assess their compliance and/or regularity in relation to the expected characteristics,
- if applicable, sample collection rules for product samples.

This inspection shall cover all control actions carried out by the supplier. For example: compliance sheet issued after a systematic pre-delivery inspection, 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 the subcontracting relationship is governed by a contract or an order. Subcontracting is only permitted if the following conditions are met:

- subcontracting the tests does not result in a disruption to the production process (due to waiting time for results, for example);
- the conditions for subcontracting the tests are formalised in the contract or order and must define the applicable test method, testing frequency, requested waiting times for results, notification of results in writing, the procedure in case of non-compliant results and the type of equipment used;
- the subcontractor’s laboratory where the test is conducted must be accredited according to standard NF EN ISO/CEI 17025. Otherwise, it will be audited by CSTB every 2 years.

(3) Inspection during production and on finished products

The applicant/holder shall possess the methods necessary for the controls and tests defined by the standards, reference documents and additional specifications mentioned in Paragraph 2.2 of this reference system. The applicants/holders agree to carry out reliable and regular verification of their production:

- inspection of product components,
- checks during production,
- verifications and tests carried out on finished products.

All inspection, measuring and test equipment used by the applicant/holder for final inspections and tests shall be calibrated and set against equipment which has been certified or verified, or which validly refers to nationally recognised standards. The applicant/holder shall always keep full records of the calibration or check of inspection, measuring and test equipment.

The frequency of calibration is based on the type of device and its frequency of use. It is left up to the manufacturer. Nevertheless, the manufacturer may be required to observe a minimum frequency if the established frequency is not appropriate.

During production

Inspection during production shall be arranged 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).

Inspection instructions shall be formalised and made available to the operators. The results of the inspections are recorded upon each inspection. If the inspection results 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 arranging this inspection. The inspections 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 list of inspections and frequencies for each product is provided in the following tables:

Table 1	for enamelled ceramic sanitary appliances
Table 2	for enamelled steel or enamelled cast iron appliances
Table 3	for stainless steel sinks
Table 4	for sinks made of synthetic materials
Table 5	for flushing cisterns made of synthetic materials
Table 6	for baths, shower trays, bowls and vanity tops made of synthetic materials other than co-extruded ABS/acrylic
Table 7	for baths and shower trays made of co-extruded ABS/acrylic
Table 8	for support frames
Table 9	for shower enclosures

Items to be inspected may be taken from among items that have not been accepted for a reason that does not affect the characteristics to be checked.

Specimens for determination of surface characteristics shall be made using the same process as the appliances.

For the appearance check, each item must be checked individually.

Rule of gradual decrease of testing frequency

This gradual decrease rule is applicable independently for each family.

The applicable frequency changes are indicated when decisions are delivered and must be applied when those decisions are received. The frequencies remain valid until stated otherwise.

Definition of the test frequencies:

There are 2 frequency levels for checks on finished products: normal frequency and reduced frequency; they are defined by product type in tables 1 to 9 given below.

The normal frequency is applicable for a period of 5 years when a new plant is admitted.

All critical deviations detected by the auditor during this period shall be resolved by the applicant/holder's target date.

In this case, and if the Committee gives a favourable opinion, the applicant/holder will be authorised to change to reduced frequency at the end of this period.

Otherwise, the normal frequency will be continued for another year.

The Committee can propose a return to the normal frequency if the auditor detects a critical deviation for which the applicant/holder has not set up a corrective action within one year after notification.

TABLE 1: TESTS AND FREQUENCIES FOR APPLIANCES MADE OF SANITARY CERAMIC (1/3)

TESTS	REDUCED FREQUENCY	NORMAL FREQUENCY
<p>SURFACE CHARACTERISTICS:</p> <ul style="list-style-type: none"> Resistance to abrasion (NF D 14-501) Resistance to chemicals and stains (NF D 14-506; NF D 14-507; NF D 14-508) 	<p>Once every six months during the year after admission of the colour to the NF mark and each time that the enamel is modified</p>	<p>Once every quarter during the year after admission of the colour to the NF mark and each time that the enamel is modified</p>
<p>MATERIAL CHARACTERISTICS:</p> <ul style="list-style-type: none"> Determination of water absorption (NF EN 997 for WC pans and NF D14-512 for other appliances) <p><i>When the manufacturer produces several types of sanitary appliances in the same furnace, the water absorption determination test must be done on a pan.</i></p> <p><i>If a furnace is only used for baking a different type of appliance (for example a washbasin), the absorption test must be completed on this type of appliance.</i></p>	<p>Once every month, for each type of material and for each baking furnace</p>	<p>Twice a month, for each type of material and for each baking furnace</p>
<p>RESISTANCE TO LOADS:</p> <ul style="list-style-type: none"> Resistance to static loads (NF EN 997 for WC pans; technical document 017-16 for urinals; NF EN 14296 for communal washing troughs; NF EN 14528 for bidets; NF EN 14688 for washbasins; NF EN 14527 for shower trays) <p><i>Static loads apply only to wall-hung appliances and shower trays (bottom of vessel).</i></p>	<p>Once every six months and for each model and type of material¹, taking 3 items of each model each time</p>	<p>Once every quarter and for each model, taking 3 items of each model each time</p>
<p>RESISTANCE TO TEMPERATURE VARIATIONS:</p> <ul style="list-style-type: none"> Resistance to thermal shocks (NF D 14-503) <p><i>Thermal shocks are only applicable to shower trays, sinks and washbasins 1 metre long or longer.</i></p>	<p>Once every year for each model and material type¹</p>	<p>Once every six months and for each model</p>

¹ If a given model is manufactured in multiple materials

TABLE 1: TESTS AND FREQUENCIES FOR APPLIANCES MADE OF SANITARY CERAMIC (2/3)

TESTS	REDUCED FREQUENCY	NORMAL FREQUENCY
DIMENSIONAL AND APPEARANCE CHARACTERISTICS:		
<ul style="list-style-type: none"> • Presentation (NF D 14-601) • No water retention on rims and/or bottoms (product standards) • Standard and specific dimensions for connection of some components (product standards and connection dimensions) • Planeness (NF D 14-510 and product standards) • Other points specified in product standards 	Once every six months for each model and material type	Once every quarter and for each model
<ul style="list-style-type: none"> • Overflow flow (product standards) 	Once, when the product is designed	
OPERATING CHARACTERISTICS OF WC PANS OR WC SUITES:		
<ul style="list-style-type: none"> • Efficiency of evacuation of toilet paper (NF EN 997) + technical document 017-12 • Wall rinsing quality (NF EN 997) 	Once every six months and for each model, taking 3 items for each model	Once every quarter and for each model, taking 3 items for each model
<ul style="list-style-type: none"> • Splashes outside the pan (NF EN 997) • Post-rinsing volume (NF EN 997 and technical document 017-12, §1.5) • Renewal of water in the trap (document 017-12, §2) 	Once every six months and for each model, taking 3 items for each model	Once every quarter and for each model, taking 3 items for each model
<ul style="list-style-type: none"> • Pan capacity (NF D 12-101) 	Once, when the product is designed	Once, when the product is designed
<ul style="list-style-type: none"> • Check stability and horizontality (NF D 12-101) 	Once every six months and for each model, taking 3 items for each model	Once every six months and for each model, taking 3 items for each model

TABLE 1: TESTS AND FREQUENCIES FOR APPLIANCES MADE OF SANITARY CERAMIC (3/3)

TESTS	REDUCED FREQUENCY	NORMAL FREQUENCY
EQUIPPED CISTERN TEST: <ul style="list-style-type: none"> • Resistance to tightening (NF D 12-203) • Overflow determination (NF EN 997) 	Once every year and for each model	Once every six months and for each model
	Once, when the product is designed	
OPERATING CHARACTERISTICS OF EQUIPPED FLUSHING CISTERNS: <ul style="list-style-type: none"> • Check hydraulic characteristics (NF D 12-203) • Refilling of water in the cistern (NF D 12-203) 	Once every six months taking 3 cisterns each time	Once every quarter using 3 cisterns each time
SANITARY SAFETY CHARACTERISTICS (PROTECTION OF THE DRINKING WATER NETWORK) FOR FLUSHING CISTERNS: <ul style="list-style-type: none"> • Air trap (NF D 12-203) 	Once every year and for each model	Once every six months and for each model
URINAL OPERATING CHARACTERISTICS: <ul style="list-style-type: none"> • Rinsing (NF EN 13407) • Evacuation of balls (NF EN 13407) • Splashes (NF EN 13407) • Evacuation (NF EN 13407) 	Once every six months and for each model, taking 3 items for each model	Once every quarter and for each model, taking 3 items for each model

TABLE 2: TESTS AND FREQUENCIES FOR APPLIANCES MADE OF ENAMELLED STEEL OR ENAMELLED CAST IRON

TESTS	REDUCED FREQUENCY	NORMAL FREQUENCY
SURFACE CHARACTERISTICS: <ul style="list-style-type: none"> Resistance to abrasion (NF D 14-501) Resistance to chemicals and stains (NF D 14-506; NF D 14-507; NF D 14-508) 	Once every quarter and for each colour range (number of ranges limited to 3)	Once every month and for each colour range (number of ranges limited to 3)
RESISTANCE TO LOADS: <ul style="list-style-type: none"> Resistance to static loads (NF EN 14516 and NF EN 14527) <i>Static loads are not applicable to cast iron baths and shower trays.</i>	Once every six months and for each model, and every time that a model is changed	Once every quarter and for each model, and every time that a model is changed
RESISTANCE TO TEMPERATURE VARIATIONS: <ul style="list-style-type: none"> Resistance to thermal shocks (NF D 14-503) <i>Thermal shocks are not applicable to cast iron baths and shower trays.</i>	Once every year and for each model	Once every six months and for each model
DIMENSIONAL AND APPEARANCE CHARACTERISTICS: <ul style="list-style-type: none"> Presentation (NF D 14-602) No water retention on rims (product standards) Standard and specific dimensions for connection of some components (product standards and connection dimensions) Other points specified in product standards 	Once every six months and for each model	Once every quarter and for each model
TESTS ON BATH HANDLES: <ul style="list-style-type: none"> Tension tests on handles (NF EN 198) 	Once every year for each bath model fitted with handles	
<ul style="list-style-type: none"> Resistance of handles to corrosion (NF EN ISO 9227) <i>The manufacturer is free to choose either the 200h neutral salt spray (NSS) test, or the 24h acetic acid salt spray (AASS) test.</i>	Once every year or for each batch (if the batch is used over more than a year) and for each type of material from which handles are made, even if the handles are optional	
<ul style="list-style-type: none"> Resistance of handles to chemicals and stains (NF EN 263) 		

TABLE 3: TESTS AND FREQUENCIES FOR STAINLESS STEEL SINKS

TESTS	FREQUENCY
<p>SURFACE CHARACTERISTICS:</p> <ul style="list-style-type: none"> Resistance to chemicals and stains (NF EN 13310) <p><i>Specimens used to determine surface characteristics shall be taken from appliances (the bottom part should usually be used).</i></p>	<p>Once every six months, for each steel grade and for each supplier</p>
<p>RESISTANCE TO LOADS:</p> <ul style="list-style-type: none"> Drain board strength (technical document 017-05, §4.2) 	<p>Once every six months, for each model and each time that the model is changed</p>
<p>DIMENSIONAL AND APPEARANCE CHARACTERISTICS:</p> <ul style="list-style-type: none"> Material characteristics (technical document 017-05, §3.1) Design (technical document 017-05, §3.2) Manufacturing (technical document 017-05, §3.3) Connection dimensions (NF EN 695) Overall dimensions (technical document 017-05, §4.1.1) Dimensional deviations (document technique 017-05, §4.1.2) Water evacuation (NF EN 13310) <p>• Flow through overflow (NF EN 13310)</p>	<p>Once every year and for each model</p> <p>Once, when the product is designed</p>

TABLE 4: TESTS AND FREQUENCIES FOR SINKS MADE OF SYNTHETIC MATERIALS (1/2)

TESTS	REDUCED FREQUENCY	NORMAL FREQUENCY
SURFACE CHARACTERISTICS:		
<ul style="list-style-type: none"> • Resistance to chemicals and stains (NF EN 13310) 	Once every six months for each type of material and for each colour range, and every time that the manufacturing process changes	
<ul style="list-style-type: none"> • Resistance to abrasion (NF EN 13310) • Resistance to scratching (NF EN 13310) 	Once every year for each type of material and every time that the manufacturing process changes	
MATERIAL CHARACTERISTICS:		
<ul style="list-style-type: none"> • Determination of water absorption (NF EN ISO 62, method 1) 	Once every six months for each colour range and for each type of material	
<ul style="list-style-type: none"> • Determination of colour fastness under hot water (technical document 017-06) • Determination of colour fastness under light (technical document 017-06) 	Once every year for each colour range and for each type of material	
RESISTANCE TO LOADS: <ul style="list-style-type: none"> • Drain board strength (technical document 017-06) 	Once every six months for each model and each time that the model is modified	
RESISTANCE TO MECHANICAL SHOCKS: <ul style="list-style-type: none"> • Resistance to mechanical shocks (technical document 017-06) 	Once every six months <i>When the production rate is low, the test needs only be carried out on one of every 200 items brought into the stores.</i>	
RESISTANCE TO TEMPERATURE VARIATIONS: <ul style="list-style-type: none"> • Resistance to thermal shocks (NF EN 13310) 	Once every year and each time that the model is modified <i>When the production rate is low, the test needs only be carried out on one of every 200 items brought into the stores.</i>	Once every six months and each time that the model is modified <i>When the production rate is low, the test needs only be carried out on one of every 200 items brought into the stores.</i>

TABLE 4: TESTS AND FREQUENCIES FOR SINKS MADE OF SYNTHETIC MATERIALS (2/2)

TESTS	REDUCED FREQUENCY	NORMAL FREQUENCY
RESISTANCE TO DRY HEAT (NF EN 13310)	Once every six months for each model	
DIMENSIONAL AND APPEARANCE CHARACTERISTICS:		
<ul style="list-style-type: none"> • Lack of water retention (NF EN 13310 and technical document 017-06) • Dimensional characteristics (technical document 017-06) • Connection dimensions (NF EN 695) 	Once every year and for each model	
<ul style="list-style-type: none"> • Flow through overflow 	Once, when the product is designed	

TABLE 5: TESTS AND FREQUENCIES FOR FLUSHING CISTERNS MADE OF SYNTHETIC MATERIALS

TESTS	REDUCED FREQUENCY	NORMAL FREQUENCY
SURFACE CHARACTERISTICS: <ul style="list-style-type: none"> Resistance to chemicals and stains (including visible parts of built-in cisterns) (NF EN 263; technical document 017-14) 	Once every year, for each material type and for each colour range	Once every six months, for each material type and for each colour range
MATERIAL CHARACTERISTICS: <ul style="list-style-type: none"> Compatibility with network disinfection products. (NF D 12-203) Colour fastness under light (including visible parts of built-in cisterns) (NF EN ISO 4892-2, method B) 	Once every year and for each material type	Once every six months and for each material type
ATTACHMENT DESIGN: Resistance to tightening (NF D 12-203)	Once every year and for each model	Once every six months and for each model
OPERATING CHARACTERISTICS OF EQUIPPED FLUSHING CISTERNS: <ul style="list-style-type: none"> Verification of flush volumes (technical document 017-14, §14) Refilling of water in the cistern (NF D 12-203) Check of hydraulic characteristics (NF EN 14055; NF D 12-203; technical document 017-01) 	Once every six months taking 3 cisterns per model each time	Once every quarter taking 3 cisterns per model each time
HEALTH CHARACTERISTICS (PROTECTION OF THE DRINKING WATER NETWORK): <ul style="list-style-type: none"> Air trap (NF D 12-203) 	Once every year for each model	Once every six months for each model
OPERATION WITH WC PAN FOR MULTI-PAN CISTERN (NF EN 997)	Once every year for each model	Once every six months for each model

**TABLE 6: TESTS AND FREQUENCIES FOR BATHS, SHOWER TRAYS, BOWLS AND VANITY TOPS
MADE OF SYNTHETIC MATERIALS OTHER THAN CO-EXTRUDED ABS/ACRYLIC (1/3)**

TESTS	REDUCED FREQUENCY	NORMAL FREQUENCY
<p>SURFACE CHARACTERISTICS:</p> <ul style="list-style-type: none"> • Resistance to chemicals and stains (NF EN 263) <p><i>These tests are not done on baths, shower trays, bowls and vanity tops made of NF certified acrylic sheets.</i></p>	<p>Once every six months, for each material type and for each colour range and every time that the manufacturing process is changed</p>	<p>Once every quarter, for each material type and for each colour range and every time that the manufacturing process is changed</p>
<p>MATERIAL CHARACTERISTICS:</p> <ul style="list-style-type: none"> • Determination of water absorption (NF EN ISO 62, method 1) • Determination of colour fastness under hot water (NF EN 263) • Determination of colour fastness under light (NF EN ISO 4892-2, method B) <p><i>This test is applicable to baths and shower trays.</i></p> <p><i>These tests are applicable to baths, shower trays, bowls and vanity tops.</i></p> <p><i>These tests are not done on baths, shower trays, bowls and vanity tops made of NF certified acrylic sheets (these sheets having this certified characteristic).</i></p>	<p>Once every six months for each material</p> <p>Once every year, for each colour range and for each material type</p>	<p>Once every quarter for each material</p> <p>Once every six months, for each colour range and for each material type</p>

TABLE 6: TESTS AND FREQUENCIES FOR BATHS, SHOWER TRAYS, BOWLS AND VANITY TOPS MADE OF SYNTHETIC MATERIALS OTHER THAN CO-EXTRUDED ABS/ACRYLIC (2/3)

TESTS	REDUCED FREQUENCY	NORMAL FREQUENCY
<p>DIMENSIONAL AND APPEARANCE CHARACTERISTICS:</p> <ul style="list-style-type: none"> • Surface appearance • No water retention • Overall dimensions and component connection dimensions (product standards and connection dimensions) • Planeness, squareness • Determination of capacity (<i>for baths</i>) • Determination of mass (<i>for baths</i>) • Measurement of the residual thickness of the upper layer (<i>for cast acrylic baths</i>). 	Once every six months for each model	Once every quarter for each model
<p>MECHANICAL PROPERTIES:</p>		
<ul style="list-style-type: none"> • Resistance to static loads (NF EN 198 for baths; NF EN 249 for shower trays; NF D 12-210 for bowls and vanity tops) 	Once every six months and for each model and every time that a model is changed	Once every quarter for each model and every time that a model is changed
<ul style="list-style-type: none"> • Resistance to mechanical shocks (NF EN 198 for baths; NF EN 249 for shower trays; NF D 12-210 for bowls and vanity tops) 	Once every six months for each model <i>When the production rate is low, the test needs only be carried out on one of every 200 items brought into the stores.</i>	Once every quarter for each model <i>When the production rate is low, the test needs only be carried out on one of every 100 items brought into the stores.</i>
<ul style="list-style-type: none"> • Tensile strength of bath tap ledge (NF D 11-121) 	Once every year for each model	

TABLE 6: TESTS AND FREQUENCIES FOR BATHS, SHOWER TRAYS, BOWLS AND VANITY TOPS MADE OF SYNTHETIC MATERIALS OTHER THAN CO-EXTRUDED ABS/ACRYLIC (3/3)

TESTS	REDUCED FREQUENCY	NORMAL FREQUENCY
<p>TESTS ON HANDLES (<i>for baths</i>):</p> <ul style="list-style-type: none"> • Tension tests on handles (NF EN 198) • Resistance of handles to corrosion (NF EN ISO 9227) <p><i>The manufacturer is free to choose either the 200h neutral salt spray (NSS) test, or the 24h acetic acid salt spray (AASS) test.</i></p> <ul style="list-style-type: none"> • Resistance of handles to chemicals and stains (NF EN 263) 	<p>Once every year for each bath model fitted with handles</p> <p>Once every year or for each batch (if the batch is used over more than a year) and for each type of material from which handles are made, even if the handles are optional</p>	
<p>RESISTANCE TO THERMAL SHOCKS: Resistance to thermal shocks (NF EN 14516 + technical document 017-10 §1.7 for baths; NF EN 14527 + technical document 017-10 §2.3 for shower trays; NF EN 14688 for bowls and vanity tops)</p> <p><i>For baths and shower trays made of synthetic materials, the thermal shock test shall be carried out in compliance with standard NF EN 14516 or NF EN 14527 (100 cycles) for validation of new products. A copy of the thermal shock test results shall be sent to CSTB with each extension request.</i></p> <p><i>The thermal shock test may be carried out at a reduced rate (only 10 cycles) for tests completed as part of production self-checking.</i></p> <p><i>The frequencies defined in these rules shall be respected regardless of the number of products manufactured. However, when the production rate is very low, lower frequencies may be allowed by the mandated organisation.</i></p> <p><i>The manufacturer is only authorised to make groups by “design” (test done on the largest dimension).</i></p> <p><i>A study for each individual case shall be done for models with low production rate.</i></p> <p><i>No check is required for a product that is not produced during the year.</i></p>	<p>Once every year for each range and every time that a model is changed</p>	<p>Once every six months for each range and every time that a model is changed</p>

TABLE 7: TESTS AND FREQUENCIES FOR BATHS AND SHOWER TRAYS MADE OF IMPACT CO-EXTRUDED ABS/ACRYLIC (1/3)

TESTS	REDUCED FREQUENCY	NORMAL FREQUENCY
<p>DIMENSIONAL AND APPEARANCE CHARACTERISTICS:</p> <ul style="list-style-type: none"> • Surface appearance • No water retention • Overall dimensions and component connection dimensions (product standards and connection dimensions) • Planeness, squareness • Determination of capacity (<i>for baths</i>) • Determination of mass (<i>for baths</i>) • Measurement of the residual thickness of the upper layer (<i>for cast acrylic baths</i>). <p>(NF EN 15719 and NF EN 232 for baths or NF EN 15720 and NF EN 251 for shower trays and technical document 017-20)</p>	Once every six months for each model	Once every quarter for each model
Thickness of the co-extruded ABS/acrylic sheet (NF EN 13559)	Once every six months	Once every quarter
Evacuation of water at bottom and rim (NF EN 15719 for baths or NF EN 15720 for shower trays and technical document 017-21)	Once every six months for each model	Once every quarter for each model
Resistance to thermal shocks (NF EN 15719 and technical document 017-08 for baths or NF EN 15720 for shower trays, and technical document 017-20)	Once every six months for each model	Once every quarter for each model
Resistance to mechanical shocks (NF EN 15719 for baths; NF EN 15720 for shower trays)	Once every six months for each model	Once every quarter for each model

TABLE 7: TESTS AND FREQUENCIES FOR BATHS AND SHOWER TRAYS MADE OF IMPACT CO-EXTRUDED ABS/ACRYLIC (2/3)

TESTS	REDUCED FREQUENCY	NORMAL FREQUENCY
Permissible deformations (NF EN 15719 for baths; NF EN 15720 for shower trays, and technical document 017-20)	Once every six months for each model	Once every quarter for each model
Mechanical resistance (scratching) of the surface of the bath (NF EN 15719)	Once every six months for each model	Once every quarter for each model
Bottom stability test (NF EN 14516 for baths, NF EN 14527 for shower trays) <i>Type test for conformity with the European standard</i>	At the design stage	At the design stage
Tension tests on handles (NF EN 15719)	Once every year for each bath model fitted with handles	
Resistance of handles to corrosion and to chemicals and stains (technical document 017-20)	Once every year or for each batch of handles (if the batch is used over more than a year) and for each type of handle material, even if the handles are optional	
Tensile test on tap ledge (NF D 11-121)	Once every six months	Once every quarter
General characteristics (Tensile, Modulus of elasticity, Heat deflection temperature, Impact resistance, Water absorption) of the co-extruded ABS/acrylic sheet (NF EN 13559)	Once every six months	Once every quarter
Heat resistance of the co-extruded ABS/acrylic sheet (NF EN 13559)	Once every six months	Once every quarter

TABLE 7: TESTS AND FREQUENCIES FOR BATHS AND SHOWER TRAYS MADE OF IMPACT CO-EXTRUDED ABS/ACRYLIC (3/3)

TESTS	REDUCED FREQUENCY	NORMAL FREQUENCY
Colour fastness under UV light of the co-extruded ABS/acrylic sheet (NF EN 13559)	Once every six months and for each colour range	Once every quarter and for each colour range
Colour fastness under hot water of the co-extruded ABS/acrylic sheet (NF EN 13559)	Once every six months and for each colour range	Once every quarter and for each colour range
Resistance of the co-extruded ABS/acrylic sheet to chemicals and stains (NF EN 13559)	Once every six months and for each colour range	Once every quarter and for each colour range
Resistance of the co-extruded ABS/acrylic sheet to wet and dry cycling (NF EN 13559)	Once every six months	Once every quarter
Shrinkage of the co-extruded ABS/acrylic sheet (NF EN 13559)	Once every six months	Once every quarter
Resistance of the co-extruded ABS/acrylic sheet to stress cracking (NF EN 13559)	Once every six months	Once every quarter

TABLE 8: TESTS AND FREQUENCIES FOR SUPPORT FRAMES

TESTS	NORMAL FREQUENCY
ENDURANCE CHARACTERISTICS: <ul style="list-style-type: none"> • Durability (NF D 12-208) 	Twice every year, for each support frame with its accessories
RESISTANCE TO STATIC LOADS: <ul style="list-style-type: none"> • Resistance to static loads (NF D 12-208) 	Twice every year and for each attachment type.
DIMENSIONAL CHARACTERISTICS: <ul style="list-style-type: none"> • Dimensional (NF D 12-208) • Adaptability to products to be supported or incorporated • Connection • Conformity with the installation manual (NF D 12-208 and technical document 017-17) 	Twice every year and for each model

TABLE 9: TESTS AND FREQUENCIES FOR SHOWER ENCLOSURES

TESTS	NORMAL FREQUENCY
EXTERNAL APPEARANCE (see §2.4.3.4.1)	100% of items
MOVING PARTS (technical document 017-18, §2)	Once every year and for each model
STABILITY (NF EN 14428)	Once every year and for each model
IMPACT STRENGTH (NF EN 14428)	Once every year and for each model
ENDURANCE (NF EN 14428)	Once every year and for each model
WATERTIGHTNESS (NF EN 14428)	Once every year and for each model
CLEANING (NF EN 14428)	At the design stage
INSTALLATION INSTRUCTIONS (NF EN 14428)	100% of items
USER INSTRUCTIONS (NF EN 14428)	100% of items
RESISTANCE TO CHEMICALS AND STAINS (NF EN 14428)	Once every year and for each model
CORROSION (NF EN 14428)	Once every year and for each model
RESISTANCE TO HUMIDITY/DRYING CYCLE (NF EN 14428)	Once every year and for each model
CHECK GLASS THICKNESSES (technical document 017-18, §1.3)	Once every year and for each batch

The various characteristics to be inspected are measured using the operating procedures specified in the reference standards cited in Paragraph 2.2 of this certification reference system.

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

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

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

Applicants/holders shall record the results of inspections conducted on finished products. If the results of the standard checks are inconclusive, the checks must be strengthened and the causes of the failure must be identified so that corrections can be made by carrying out production inspections, if necessary.

(4) Provisions for handling non-conformities

These include:

- an analysis for identifying the cause of the anomaly,
- an analysis to determine the impact of the anomaly on production since the previous check,
- management to ensure that the implementation of the corrective actions is effective,
- and 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.

(5) Customer complaints

The customer complaint record is audited; to allow this, holders must retain:

- a record of all complaints and legal recourse pertaining to 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 keep the excerpts from the above records for a period of at least 18 months and must be able to present them to the auditor.

2.5 Marking – General provisions

Marking is an integral part of product certification.

Beyond the identification of a certified product and its traceability, the marking of a product with the NF logo ensures better protection for users and helps to protect the users against wrongful usage and counterfeit products.

The reproduction and attachment of CSTB, AFNOR and AFNOR Certification logos are strictly prohibited without the prior agreement of these bodies.

In addition, the listing of the main certified characteristics is intended to make it clear to consumers and users which technical characteristics the NF mark relates to. It thereby serves to emphasise the certification and its content.

Under no circumstances is it possible to make reference to the NF mark before the right to use this mark is obtained, or to present counterfeit products for certification.

The purpose of the marking rules described below is to guide the holder in complying with Regulatory Requirements and Certification Requirements. The General Rules for the NF mark specify the guidelines for usage, the guidelines for validity and the penalty procedures for wrongful usage of the NF mark.

Without prejudice to the penalties laid out in the General Rules for the NF mark, any erroneous communication of the certified characteristics and any fraudulent use of the NF logo expose the holder to legal action, in particular for deceptive marketing practices.

2.5.1 THE NF LOGO

The NF logo must ensure the identification of each certified product.

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

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

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

To prevent any confusion between certified products and non-certified products, applicants/holders must ensure that the trade names used are not identical or similar (for example: "Prod+" for a certified product and "Prod" for a non-certified product).

It is recommended that the holder submit all documents in which the certification mark appears to CSTB in advance.

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

2.5.2 TERMS AND CONDITIONS FOR MARKING

This paragraph describes both the NF logo affixing procedure and the marking of the certified characteristics.

In order to meet the requirements in article R 433-2 of the Consumer Code, the marking must integrate the following elements whenever possible:



SANITARY APPLIANCES

www.marque-NF.com

or <http://evaluation.cstb.fr>

Certified characteristic 1:

Certified characteristic 2:

Certified characteristic 3:

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).

2.5.2.1 Marking of certified products

All certified products manufactured on or after the date indicated on the approval of the right to use the NF mark (via an admission or extension procedure), and which comply with the requirements of this certification reference system, must be marked.

Marking must be carried out in a permanent, legible and indelible way on the certified products, with the following specifications:

- identification of the manufacturer holder,
- identification of the manufacturing unit,
- trade name and/or reference,
- a mark to determine the manufacturing date to the nearest month,
- the logo of the mark.
- etc.


NOTE 1 The manufacturer's mark and the mark of the production plant may be the same. If this information is encoded, the code shall be deposited with CSTB and shall comprise at least two characters.


NOTE 2 The NF mark may be placed on a non-enamelled part for ceramic appliances. It shall remain visible at least until the appliance has been placed.

NOTE 3 Product marking may be made with self-sticking labels after an opinion by the mandated organisation (CSTB). This type of marking is not encouraged. If marking is authorised by means of a label, marking will be considered to be permanent if the label cannot be completely removed by tearing.

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

It is recommended that the NF mark should be mentioned on the packaging. Where the packaging mentions the NF mark, it shall carry the following information:

the NF logo  according to the graphic charter (reproduction at arbitrary scale but with minimum width of 15 mm); Nevertheless, in case of technical difficulty marking the packaging or when the

logo measures less than 15 mm, the NF logo may be used alone . The NF logo must be reproduced in accordance with the graphic chart;

- ⇒ the name, symbol or reference identifying the manufacturer or distributor benefiting from a maintenance of right of usage;
- ⇒ the number of the appliance model corresponding to the catalogue;
- ⇒ the colour and/or the appearance of the enamel.

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

Reproduction of the NF mark on letterhead used for the holder's correspondence is prohibited, unless the holder has been granted the NF mark for all of its manufactured products.

References to the NF mark in documentation shall be made in a way that does not allow for any confusion between certified products and other products. They shall include all the marking components defined in Paragraph 2.5.2: logo of the mark, name of the application, reference to the website and the list of certified characteristics.

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 documentation where the certification mark is expected to be used.

Example of information to be found on the communication media:



What is the NF mark?

The NF mark affixed to a product guarantees that it complies with the relevant standards and, where applicable, additional technical specifications required by the market.

The features set out by AFNOR Certification and checked by CSTB (Centre Scientifique et Technique du Bâtiment) are specified in the specifications referred to as the certification reference system, drawn up in consultation with applicants/holders, distributors, consumer associations, laboratories and public authorities.

The certification reference system concerning sanitary appliances is identified by number 017. They can be downloaded from the website www.cstb.fr or www.marque-nf.com

CSTB (Scientific and Technical Centre for Building), the SFC (Société Française de Céramique) and the LCIE (Laboratoire Central des Industries Électriques) perform tests on products and audits of manufacturing units within the scope of this application.

What products is the NF mark applied on?



The NF-Sanitary appliances mark is placed on the following products:


- washbasins and hand-rinse basins (ceramic);
- bidets (ceramic);
- shower trays (ceramic, steel, cast iron, synthetic materials);
- sinks (ceramic, stainless steel, synthetic materials);
- baths (cast iron, steel, synthetic materials);
- bowls and vanity tops (ceramic, synthetic materials);
- WC pans or WC suites;
- equipped flushing cisterns;
- appliances for public use;
- support frames;
- WC packs;
- shower enclosures.

What are the benefits of the NF mark?


The NF mark-SANITARY APPLIANCES certifies conformity of sanitary appliances with the NF017 certification reference system approved by AFNOR Certification.


This guarantees that:

- ▶ appliances are made from a material with qualities satisfactory for normal sanitary use, in other words:
 - ☒ resistant to cleaning products reserved for this purpose;
 - ☒ resistant to contact with non-prohibited chemical products (products to remove rust stains usually based on fluorine salts shall be entirely prohibited close to enamel-coated appliances);
- ▶ wall-hung appliances are sufficiently strong for the use for which they are intended;
- ▶ the dimensions of the appliances enable, firstly, their connection with the supply and the drain valve fittings and, secondly, replacement of these appliances;
- ▶ the shape of the bottom of the bowl (washbasins, bidet, shower tray, sink, bath, etc.) is designed such that water flows without stagnating when the plug is open;
- ▶ the pan/equipped cistern assembly satisfies constraints with regard to:
 - ☒ protection of the drinking water network (no back flow);
 - ☒ noise reduction (certified taps 
 - ☒ efficiency (drain, rinsing of the walls);
 - ☒ hygiene (no splashing);
 - ☒ water saving when a “water saving ” mechanism is fitted;
- ▶ whirlpool baths are safe in terms of electrical and sanitation aspects;
- ▶ shower enclosures are certified conforming for the following characteristics:
 - ☒ ease of cleaning: all volumes are accessible;
 - ☒ leak tightness to water jets;
 - ☒ can resist 30,000 door opening and closing cycles;
 - ☒ safety: no breakage or disengagement in case of a shock to the wall (safety glass).

Therefore, products marked  are suitable for performing the use for which they are intended.

How are NF products identified?

The  logo is placed adjacent to the item benefiting from the NF mark, to distinguish products accepted for the NF-SANITARY APPLIANCES mark from products that are not in this catalogue.

Furthermore, the  logo is applied on products themselves and on their packaging, if applicable, to make them easily recognisable on the shelf and during installation.

CSTB

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2.6 Conditions for terminating marking or for removing the mark in the case of suspension, withdrawal or abandonment

Any suspension or withdrawal of the right to use the NF mark leads to a prohibition on using the NF mark and making reference to it as from the date of notification.

Catalogues and other documentation must no longer carry the NF mark for those products for which the mark has been suspended or withdrawn (erratum and/or reprinting required).

If a product is not in conformity, neither the said product nor its packaging shall be marked with the NF logo. If they are, the logo in question must be crossed out or concealed to eliminate all risk of confusion.

Should a non-conformity be noticed after the product has been placed on the market, the holder must immediately notify CSTB so that, after a risk estimate, conditions for removing the mark can be established.

2.7 Frauds and falsifications

2.7.1 INTRODUCTION

For the Certification of Products or Services, any frauds or falsifications are subject to the sanctions specified in Articles L. 121-2 to L 121-5 of the Consumer Code.

If frauds or falsifications relating to the use of the NF mark are detected, AFNOR Certification or CSTB reserves the right to institute legal proceedings before the Department of Competition, Consumption and Repression of Fraud for enforcement in compliance with the Law.

For example, the following actions are considered as “wrongful usage”:

- to give the same trade name to certified products and non-certified products;
- to cite or provide information in sales brochures, catalogues or any other medium, that does not comply with the certification reference system.

For example, the following actions are considered as “counterfeit”:

- to cite as valid a certificate which is pending but not issued yet;
- to use the NF mark when the right to use the NF mark has not been granted yet.

CSTB communicates all wrongful use to the holder by registered letter with acknowledgement of receipt, and the holder must immediately take all necessary steps to eliminate such wrongful use.

2.7.2 LEGAL ACTION

In addition to the actions mentioned above, AFNOR Certification or CSTB reserves the right to initiate any legal action which it deems necessary, and all third parties which consider themselves to have suffered damages shall also be free to seek appropriate redress for themselves.

Part 3

Certification Process

3.1 General

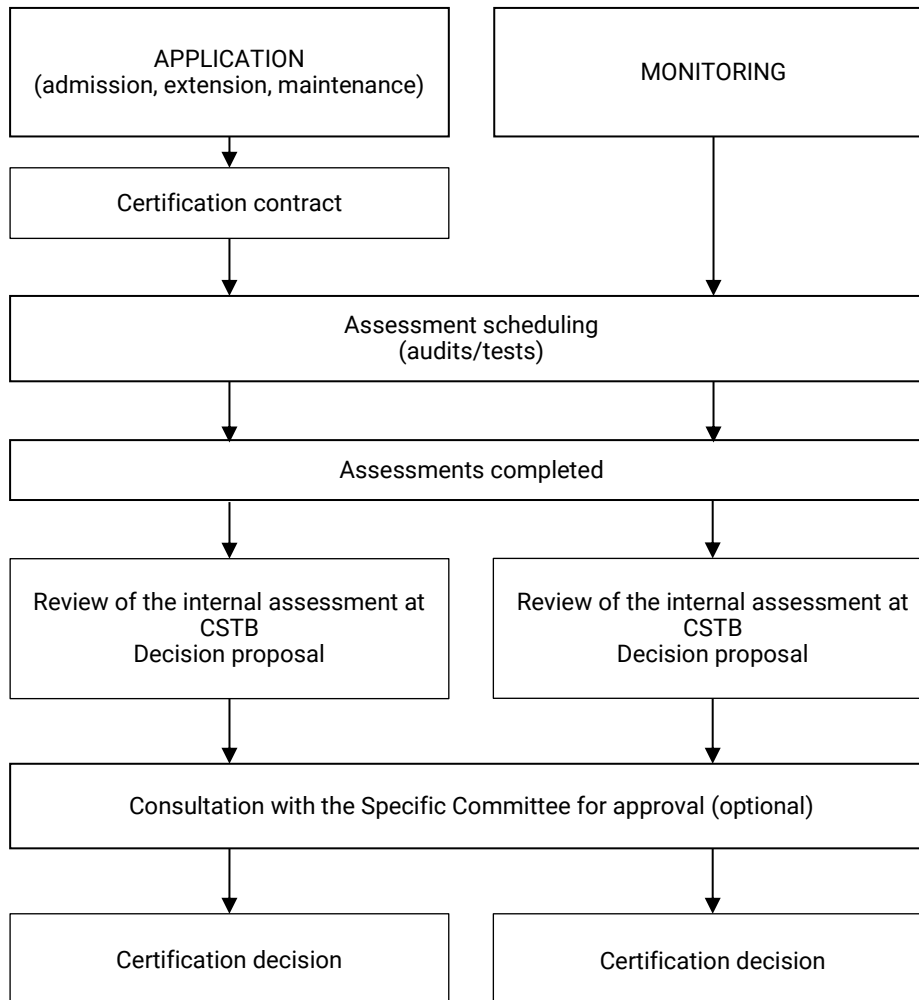
- Definition of the applicant (see part 5);
- Definitions of the various types of applications (admission application / complementary admission application / extension application / maintenance application):

- An application for admission is made by an applicant not having the right to use the NF mark for the Sanitary Appliances application.

It corresponds to a product (or a range of products) coming from a specific design process and/or manufacturing unit and/or a specific sales location, defined by a trademark and/or with a specific reference to the submitted product and its technical characteristics;

- A complementary admission and/or extension application is made by a holder and applies to a new product / a modified product at the same manufacturing site;
- A maintenance application is made by a holder and applies to an NF-certified product intended to be sold under another trademark and/or with a specific reference to the product without any modification to the certified characteristics;
- A new application for admission for a product (or range of products) following the withdrawal of the right to use the NF mark as a result of a sanction in the event of deceptive marketing practices in application of Articles L 121-2 to L121-5 from the Consumer Code.

3.2 Certification application process



The conditions for obtaining a certification and the certification follow-up procedure are described in Parts 1 and 2 of the Appendix to this certification reference system.

3.3 Audits

3.3.1 ADMISSION AUDITS

The purpose of audits is to make sure that the measures defined and implemented by the applicant in the manufacturing unit meet the requirements in Part 2 of this certification reference system and technical documents 17-01 to 17-21.

This entails checking, before admission, the existence and effectiveness of the quality-related measures that have been taken, as well as the product inspections performed by the applicant. These are the admission audits conducted by the auditor.

If the applicant subcontracts part of their production, CSTB reserves the right to carry out an audit on the premises of the subcontractor(s) based on this certification reference system.

All the resources (premises, installations, equipment) required by the auditor to carry out their assignment shall be placed at their disposal free of charge, along with persons qualified to implement them.

In the event of any dangerous situation as per the certifying body's safety requirements, the auditor reserves the right to withdraw.

An audit report shall be prepared and addressed to the applicant.

3.3.1.1 For an initial admission application

The audit normally lasts 1 day per manufacturing plant.

The audit duration may be adapted according to the risk: level of development of the quality system, organisation of the company (process, laboratory, etc.).

In the event of an audit combined with another application, the duration of the audit depends on the complexity of the application(s) concerned. If necessary, it will be adjusted in increments of additional half-days.

3.3.1.2 For a complementary admission application

The steps described in Paragraph 3.3.1 above apply, with the specific consideration that the audit may be adapted (to meet the purpose of the application), accompanied by a follow-up audit or even skipped altogether.

3.3.1.3 For an extension application

The steps described in Paragraph 3.3.1 above apply with the following specifics:

- in the context of an extension application for a modified certified product, the tests are defined according to the planned modification;
- the audit can be adapted to meet the purpose of the application, accompanied by a follow-up audit or even skipped altogether.

3.3.2 FOLLOW-UP AUDITS

Follow-up audits are intended to check that the provisions defined are still being maintained following admission.

All of the provisions described in Paragraph 3.3.1 apply.

Inspections

The auditor carries out at least the following audits, taking into account the information collected during the previous audit, the results of recent inspections and any remarks made by the Specific Committee:

- verification of the actual application of the corrective measures announced as a result of any observations made during the previous audit;
- verification of compliance with the holder's quality requirements as set out in this certification reference system;
- verification of the self-check records since the last audit, statistically for at least one certified product and for the products sampled for the mark laboratory's tests;
- verification of sales documents;
- verification of changes in the certified products' characteristics.

An audit report is prepared and addressed to the holder.

The audit normally lasts 1 day per manufacturing plant.

The audit duration may be adapted according to the risk: level of development of the quality system, organisation of the company (process, laboratory, etc.), admission of a new family, etc.

Normal monitoring:

The normal frequency is 1 annual audit for each manufacturing unit benefiting from a right to use the NF mark (2 audits per year in the first 12 months of admission).

Heightened monitoring:

In the event of any violation of the requirements in this certification reference system or if the Specific Committee makes a justified request, a heightened monitoring procedure can be initiated for a specified period. This monitoring can be adjusted up to double the normal frequency of audits, with or without increased inspections by the holder and sampling for test purposes in the manufacturing unit and/or in the distribution network.

In addition, any critical deviation observed during an audit, whether combined with a sanction or not, may justify a transition to heightened monitoring. The latter will be initiated by CSTB, possibly after recommendation from the Specific Committee, for a specified period, and may or may not include stricter inspections by the holder and sampling for test purposes.

3.4 Sampling

At each audit, the auditor shall have samples taken for testing purposes as required, from the stock and/or from the production unit. For certain destructive tests, it is possible to take samples from among products that have been eliminated due to minor defects of appearance that do not entail non-conformity of the certified products.

The samples taken are marked with a distinctive symbol by the auditor and shall be sent by and under the responsibility of the applicant to the mark laboratory responsible for carrying out the tests within 15 days from the date of the audit, unless the auditor decides to take charge of them.

Samples must be sent carriage and customs paid, where applicable. Shipping is at the applicant/holder's expense.

An information sheet listing the sampling carried out is prepared on site and handed over to the applicant/holder.

A copy of this sampling information sheet is automatically sent to the laboratory in charge of carrying out the tests.

It is agreed that if these samples cannot be taken, the holder will send the sample(s) requested by CSTB to the mark laboratory by the specified deadline. If the holder does not send the sample(s) to the mark laboratory by the deadline specified by CSTB, penalties may be applied to the holder (sanction, suspension).

For follow-up sampling:

When modifications declared as minor have been made to the products, or when changes also declared as minor have been made to the production process for the products, and the holder cannot prove that these changes do not affect the certified characteristics, samples are systematically taken and tests are performed in the mark laboratory to check the characteristics involved.

In the event of an additional audit, the tests required by the detected non-conformity shall be conducted by the mark's laboratory.

Inspections at retail sites:

For distributors whose right of use has been maintained, verifications may be carried out at CSTB's initiative.

3.5 Tests

3.5.1 ADMISSION TESTS

The tests are carried out in accordance with the standards and complementary specifications set out in Part 2 of this certification reference system.

A test report is prepared and remitted to the applicant.

The tests are carried out in the CSTB laboratory in accordance with the rules defined in appendices I to X.

Note: in case of a non-compliant result for a test, the test shall be carried out again on 2 samples from the same model.

3.5.2 TESTS ON THE CERTIFIED PRODUCT (FOLLOW-UP)

The tests are carried out in accordance with the standards and complementary specifications set out in Part 2 of the certification reference system and technical documents 17-01 to 17-21.

A test report is prepared and remitted to the holder.

These tests on certified characteristics are carried out in a mark laboratory or the laboratory of the manufacturing unit under the supervision of a qualified auditor.

This laboratory shall have equipment that is appropriate to perform tests under the conditions required by the standard (or the reference test method).

In the event of an additional audit, the tests required by the detected non-conformity shall be conducted by a mark laboratory.

Part 4

The stakeholders

The NF mark is the property of AFNOR, which has granted AFNOR Certification an exclusive exploitation licence. AFNOR Certification manages and coordinates the NF certification system, which specifies, in particular, the governance rules and the operating conditions applicable to the NF mark.

The organisations involved in the procedure for granting the right to use the NF mark and in monitoring the certified products are specified below.

4.1 The certifying body

In accordance with the General Rules of the NF Mark, AFNOR Certification has contractually recognised the competence of the certifying body, referred to as the mandated body:

Centre Scientifique et Technique du Bâtiment (CSTB)

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Champs sur Marne
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☎: +33 (0)1 64 68 82 84

<http://evaluation.cstb.fr/>

CSTB is responsible to AFNOR Certification for the operations with which it is entrusted to award and monitor proper use of the NF mark.

Contact:

HES (Hydraulique et Equipements Sanitaires) Department
RAS (Robinetterie et Appareils sanitaires) Division

4.2 Auditing bodies

The audit functions for the manufacturing unit, and on the utilisation premises where applicable, are carried out by the following body, designated the auditing body:

Centre Scientifique et Technique du Bâtiment (CSTB)

HES Department
RAS Division
84, avenue Jean Jaurès
Champs sur Marne
F-77447 Marne La Vallée Cedex 2

<http://evaluation.cstb.fr/>

The auditors have the right of inspection on the premises of any applicant or holder in the context of their mandate.

As part of a subcontracting agreement that CSTB has signed with the following body or bodies, the latter can conduct follow-up audits as requested by CSTB.

AUDIT BODIES AS SUBCONTRACTORS:

- Société Française de Céramique (SFC)
6/8 rue de la Réunion
Les Ulis
F-91955 COURTABOEUF Cedex
☎: +33 (0)1 56 56 70 00
- Bureau d'étude d'Assistance et de Conseil (BAC)
12 rue Lamdar Adda
31000 ORAN
ALGERIA

4.3 Test bodies

When the inspections carried out as part of the holder's use of the NF mark include tests on products, such tests are carried out at CSTB's request by the following laboratory, referred to as the mark laboratory:

Centre Scientifique et Technique du Bâtiment (CSTB)

HES Department
RAS Division
84, avenue Jean Jaurès
Champs sur Marne
F-77447 Marne La Vallée Cedex 2

<http://evaluation.cstb.fr/>

As part of a subcontracting agreement that CSTB has signed with the following body, the laboratory can conduct follow-up tests, as requested by CSTB.

TEST BODIES AS SUBCONTRACTORS:

- Société Française de Céramique (SFC)
6/8 rue de la Réunion
Les Ulis
F-91955 COURTABOEUF Cedex
☎: +33 (0)1 56 56 70 00

4.4 Subcontracting

The different functions described in Paragraphs 4.2 and 4.3 may be carried out, after an opinion from the Specific Committee where appropriate, by other auditing bodies or recognised laboratories with which CSTB has established a sub-contracting contract.

The client is informed of the subcontracting of a service when the assessment activity programme is established. If necessary, the client is formally informed before any activity is started.

4.5 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 of the certification reference system or the 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 in question and, in particular, about any interpretation of the certification reference system relating to decisions to be taken about application dossiers, in accordance with the certification reference system and at CSTB's request.

The composition of the Specific Committee is set in such a way as to ensure fair representation between the different parties concerned, that does not lead to any of them dominating and which guarantees their relevance.

It is composed as specified below:

- A Chairperson chosen from the members of the colleges defined below;
- A Vice President: a representative of CSTB
- Manufacturers College (Holders): from 3 to 10 representatives;
- Users'/Specifiers' college: from 3 to 10 representatives;
- Technical and Administrative Bodies' College: from 3 to 10 representatives.

As regards the NF mark, AFNOR Certification is a member of this Specific Committee.

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

The Specific Committee issues decision notifications and its members may not receive any remuneration for the functions entrusted to them.

Members are appointed for a term of three years. This appointment is renewable by tacit agreement for further successive periods of one year, not exceeding three renewals, unless notice of termination is given without due cause by CSTB or the member, by registered letter with acknowledgement of receipt, three months prior to the scheduled end of the ongoing period at the time of renewal.

The Specific Committee's Chairperson can change every year.

The members of the Specific Committee formally undertake to maintain the confidentiality of information, particularly personal data, disclosed to them.

When appropriate, the Specific Committee may decide to set up working groups or subcommittees and define their missions and responsibilities. The composition of the working groups must be validated by the Specific Committee. The working groups are 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.

In the event of decisions or votes, the Specific Committee makes decisions by simple majority of the members present or represented, under the following dual condition:

- effective representation of the College that represents applicants or holders on the one hand, and the College that represents users and specifiers on the other hand (failure to represent an interest);
- none of the Colleges has a majority of the people present or represented (predominance of an interest).

If this is not the case, there shall be either a written consultation or a new meeting.

Part 5 Glossary

Admissibility:	Study of a dossier enabling the application to be examined. Admissibility relates to the administrative and technical parts of the dossier.
Admission:	Application by which applicants request, for the first time, the right to use the NF mark for a product; they declare that they understand this certification reference system and undertake to respect it.
Applicant/Holder:	Legal entity that controls and/or is responsible for respecting all the requirements defined in the NF mark certification reference system. These requirements cover at least the following steps: design, manufacture, assembly, quality control, marking, packing and market release and specify the critical points in the different steps.
Audit:	See Standard NF EN ISO 9001.
Certification reference system:	Technical document defining the characteristics that a product, a service or a combination of products and services shall have and the methods for verifying compliance with these characteristics, as well as the methods for communicating about the certification (including the content of the information).
Certification Scheme:	Specific certification system for a defined category of products to which the same specified requirements and specific rules and procedures apply.
Complementary admission:	Application by which a holder wishes to benefit from the right to use the NF mark for a new product or a new production entity.
Distributor:	Body that distributes the applicant/holder's products and that does not modify the product's compliance with the requirements of the NF mark. Distributors may be of the following types: <ul style="list-style-type: none">- distributors who distribute the product under the holder's trademark. In this case, no action is to be taken as part of the NF mark.- distributors who distribute the product after changing the trademark. The applicant/holder shall make an application for maintenance of right of use.
Extension:	Application by which a holder requests the extension of their right to use the NF mark for a certified product whose characteristics have been modified.
Granting of the right to use the NF mark:	Authorisation granted by AFNOR Certification and communicated by CSTB to an applicant to affix the NF mark on the product for which the application has been made.
Maintenance:	Application by which a holder requests the maintenance of their right to use the NF mark for a product intended to be marketed by a distributor under a different trademark and/or trade reference, but without modifying the certified characteristics.

Observation:	Remark aiming to draw a holder's attention to a minor non-conformity so as to avoid any deviation that might result in a warning.
Product:	Element resulting from a process or manufacturing process, coming from a specific manufacturing unit, defined by a specific trademark and/or trade reference, with specific technical characteristics.
Renewal:	Application by which the holder requests the renewal of their right to use the NF mark before the validity of their NF certificate ends.
Representative:	<p>Legal or natural person based in the EEA who represents the applicant/holder outside the EEA and has a written mandate from them signifying that they may act on their behalf and specifying in which context it may so act (missions and associated responsibilities and financial aspects, complaints, contact for the certifying body, among others) in the NF mark certification process, according to the provisions in the certification reference system.</p> <p>The representative may be the distributor or the importer; its different functions are clearly identified.</p> <p>The concept of a representative is indispensable for all applicants outside the EEA. For certain markets, the concept of a distributor may not be relevant.</p>
Subcontracting:	Company which carries out some of the production steps for the certified products, under the control of the NF mark holder.
Suspension:	<p>Decision communicated by CSTB which cancels the authorisation to use the NF mark temporarily and for a specified period of time. The suspension may be issued as a sanction, or in the event that the right to use the mark is temporarily renounced by the holder.</p> <p>Suspension is accompanied by a prohibition on affixing the mark to future productions. It shall be for a maximum period of 6 months, renewable once, following which a withdrawal of the right to use the NF mark shall be announced if no action has been initiated by the holder.</p> <p>Sanction notifications affecting the right of use (suspension/withdrawal) are signed by CSTB Management.</p>
Warning:	Non-suspensive sanction declared by CSTB. The product is still marked, but the holder must correct the observed deviations within a defined time period. When a warning is accompanied by an increase in the number of inspections, the actions must be initiated within a specified time period. The warning may only be renewed once.
Withdrawal of the right of use:	Decision communicated by CSTB to cancel the right to use the NF mark. A withdrawal can be declared as a sanction, or if the holder renounces the right to use the NF mark.

GLOSSARY RELATING TO THE PRODUCTS

Type: Clearly determined set of sanitary appliances made of a clearly determined material (e.g.: enamelled porcelain sinks, enamelled fine stoneware sinks, cast acrylic baths, shower trays made of “x” synthetic material).

Model: Clearly determined appliance, for which the colour and equipment are not determined.

Range: Set of equipment with the same design.

Colour range: see document 02.

Item: Finished product corresponding to a single commercial reference (for which the colour and equipment are defined).

Mechanical impact tests: Also called ‘Ball impact tests’. Tests done by dropping a steel ball.

APPENDICES

SAMPLING RULES AND TEST METHODS USED BY THE NF MARK LABORATORY OR LABORATORIES

APPENDIX I

Sampling rules and test methods used by the NF mark laboratory(ies)

FOR APPLIANCES MADE OF ENAMELLED SANITARY CERAMICS

1 Appliances concerned

The different types of appliances to which this appendix is applicable are defined below:

- washbasins and hand rinse basins,
- bidets,
- shower trays,
- sinks,
- bowls and vanity tops,
- WC pans with cistern,
- WC suites,
- WC pans for children and babies,
- equipped cisterns,
- appliances for public use,
- WC packs.

2 Nature of tests and sampling rules

The following tables present examinations and tests to be completed by NF organisations and samples to be taken in the plant by the inspector/auditor for carrying out these tests.



2.1 First admission

If tests are done by the manufacturer, all results shall be provided with the admission file.

Nature of inspections and tests	Plant samples for first admission (initial application and additional admission application)	Test laboratory
General characteristics (1/2):		
Resistance to abrasion (NF D 14-501)	for each colour range (limited to six: gloss/dark, gloss/medium, gloss/light and matt/dark, matt/medium, matt/light); there are enough items to take 9 flat specimens of 100 x 100 mm or 9 control plates made at the same time as the appliances (not more than 6 x 9 = 54 specimens in total)	NF mark laboratory
Resistance to chemicals and stains (NF D 14-506, NF D 14-507, NF D 14-508)	for each colour range (limited to six: gloss/dark, gloss/medium, gloss/light and matt/dark, matt/medium, matt/light); there are enough items to take 3 flat specimens of 100 x 100 mm or 3 control plates made at the same time as the items (not more than 6 x 3 = 18 specimens in total)	NF mark laboratory
Resistance to chemicals and stains (NF EN 13310; NF EN 14527 and NF EN 14688) <i>Type test for conformity with the European standard.</i>		NF mark laboratory or manufacturer's laboratory
Determination of the leak tightness and water mass absorbed by the sanitary ceramic (NF EN 997 for WC pans; NF EN 13407 and technical document 017-01 for urinals; NF D 14-512 and technical document 017-01 for other appliances) <i>The leak tightness measurement method will be used only when surfaces in contact with water are enamelled.</i> <i>Otherwise, the porosity measurement method shall be used. This test is done mainly on W-C pans by taking samples at the flange.</i>	for each type of material used (stoneware, sanitary porcelain, etc.); items necessary to cut the 3 specimens requested for one of the methods	NF mark laboratory

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Nature of inspections and tests	Plant samples for first admission (initial application and additional admission application)	Test laboratory
General characteristics (2/2):		
Resistance to static loads (NF EN 14688 for washbasins; NF EN 997 for WC pans; technical document 017-16 for urinals; NF EN 14527 for shower trays) <i>The test is only applicable to wall-hung appliances and shower trays.</i> <i>Urinals are subject to this test only at the time of admission.</i>	1 appliance is sampled and tested for each wall-hung appliance model and for each type of material ¹ , regardless of the colour, and the test is repeated with another 2 appliances if the results are non-conforming	NF mark laboratory
Bottom stability test (NF EN 14527 for trays) <i>Type test for conformity with the European standard.</i>	1 item per model and per type of material¹	NF mark laboratory or manufacturer's laboratory
Resistance to thermal shocks (NF D 14-503) <i>for shower trays, washbasins and sinks with length ≥ 1 metre</i>	1 item per model and per type of material¹	NF mark laboratory
Appearance and dimensional characteristics:		
Check the application of tolerances related to: <ul style="list-style-type: none"> ◆ defects concerning hygiene and appearance (NF D 14-505) ◆ product dimensions (length, width, height, etc.) (NF D 14-510) ◆ appliances connecting dimensions (product standards and connection dimensions) ◆ planeness (NF D 14-510 and product standards) ◆ other points specified in product standards 	1 item of each type of sampled appliance for each type of material ¹ , taken exclusively from the stock of items intended for sale	All tests on sampled products take place in the mark laboratory(ies) and other appliance types are tested in the manufacturer's laboratory if the test bench is validated by the inspector/auditor.

¹ If a given model is manufactured in multiple materials

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Nature of inspections and tests	Plant samples for first admission (initial application and additional admission application)	Test laboratory
Slip resistance of shower trays:		
Technical document 017-19	2 items per model (1 of which is cut to a 500 x 1000 mm size)	NF mark laboratory
Functional characteristics of WC pans:		
Check drain efficiency (NF EN 997) Check rinsing of the walls (NF EN 997) Check splashes outside the pan (NF EN 997) Check the post-rinsing volume (NF EN 997 and technical document 017-12) Replacement of water in the trap (technical document 017-12) Pan capacity (NF D 12-101) Check stability and horizontality (NF D 12-101) Check the water seal (NF EN 997) <i>For the special case of child and baby pans, see technical document 017-13</i>	3 different pans at least one of which is less than 7 litres (if there is one in the manufactured range) are taken from the stock of finished products ready for sale	All tests on sampled products take place in the mark laboratory(ies) and other pan types are tested in the manufacturer's laboratory if the test bench is validated by the inspector/auditor.
Functional characteristics of equipped flushing cisterns:		
Check replacement of water in the cistern (NF D 12-203)	3 different cisterns are taken from the stock of finished products ready for sale.	All tests take place in the mark laboratory(ies). Other cistern types are tested in the manufacturer's laboratory if the test bench is validated by the inspector / auditor.
Check hydraulic characteristics (NF D 12-203)	WC suites are tested with 3 different typical NF pans.	

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Nature of inspections and tests	Plant samples for first admission (initial application and additional admission application)	Test laboratory
Safety characteristics for flush cisterns:		
Check materials (NF D 12-203) Check the design (NF D 12-203) Check the air trap (NF D 12-203) Check the hygiene and usability (NF D 12-203) Check presentation and technical documents Check tightening (NF D 12-203 with specification fixed at 2 Nm) Overflow determination (NF EN 997) Corrosion of fastening screws (NF D 12-203)	3 different cisterns are taken from the stock of finished products ready for sale.	All tests take place in the mark laboratory(ies). Other cistern types are tested in the manufacturer's laboratory if the test bench is validated by the inspector / auditor.

2.2 Monitoring

Nature of inspections and tests	Plant samples taken for monitoring purposes	Test laboratory
General characteristics (1/2):		
Resistance to abrasion (NF D 14-501)	for each colour range (gloss/dark, gloss/medium, gloss/light and matt/dark, matt/medium, matt/light); there are enough items to take 9 flat specimens of 100 x 100 mm or 9 control plates made at the same time as the appliances.	NF mark laboratory
Resistance to chemicals and stains (NF D 14-506; NF D 14-507; NF D 14-508)	for each colour range (gloss/dark, gloss/medium, gloss/light and matt/dark, matt/medium, matt/light); there are enough items to take 3 flat specimens of 100 x 100 mm or three control plates made at the same time as the items.	NF mark laboratory

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Nature of inspections and tests	Plant samples taken for monitoring purposes	Test laboratory
General characteristics (2/2):		
<p>Determination of the leak tightness and water mass absorbed by the sanitary ceramic (NF EN 997 for WC pans; NF EN 13407 and technical document 017-01 for urinals; NF D 14-512 and technical document 017-01 for other appliances)</p> <p>The leak tightness measurement method will be used only when surfaces in contact with water are enamelled.</p> <p>Otherwise, the porosity measurement method shall be used.</p> <p>This test is done mainly on W-C pans by taking samples at the flange.</p>	<p>for each type of material used (stoneware, sanitary porcelain, etc.); items necessary to cut the 3 specimens requested for one of the methods</p>	<p>NF mark laboratory</p>
<p>Resistance to static loads (NF EN 14688 for washbasins; NF EN 997 for WC pans; technical document 017-16 for urinals)</p> <p>The test is only applicable to wall-hung appliances and shower trays.</p> <p>Urinals are subject to this test only at the time of admission.</p>	<p>1 appliance is sampled and tested for each wall-hung appliance model and for each type of material¹, regardless of the colour, and the test is repeated with another 2 appliances if the results are non-conforming</p> <p><i>(there are no follow-up tests for urinals)</i></p>	<p>NF mark laboratory or manufacturer's laboratory</p>
<p>Resistance to thermal shocks (NF D 14-503) for shower trays, washbasins and sinks with length ≥ 1 metre</p>	<p>1 item per model and per type of material¹</p>	<p>NF mark laboratory or manufacturer's laboratory</p>

¹ If a given model is manufactured in multiple materials

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Nature of inspections and tests	Plant samples taken for monitoring purposes	Test laboratory
Appearance and dimensional characteristics:		
<p><i>Check the application of tolerances related to:</i></p> <ul style="list-style-type: none"> ◆ defects concerning hygiene and appearance (NF D 14-505) ◆ product dimensions (length, width, height, etc.) (NF D 14-510) ◆ appliances connecting dimensions (product standards and connection dimensions) ◆ planeness (NF D 14-510 and product standards) ◆ other points specified in product standards 	<p>1 item for each type of material¹, taken exclusively from the stock of items intended for sale</p>	<p>NF mark laboratory or manufacturer's laboratory</p>
Slip resistance of shower trays:		
<p>Technical document 017-19</p>	<p>2 items per model (1 of which is cut to a 500 x 1000 mm size)</p>	<p>NF mark laboratory</p>

¹ If a given model is manufactured in multiple materials

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Nature of inspections and tests	Plant samples taken for monitoring purposes	Test laboratory
Functional characteristics of WC pans:		
Check drain efficiency (NF EN 997) Check rinsing of the walls (NF EN 997) Check splashes outside the pan (NF EN 997) Check the post-rinsing volume (NF EN 997 and technical document 017-12) Check replacement of water in the cistern (technical document 017-12) Pan capacity (NF D 12-101) Check stability and horizontality (NF D 12-101) Check the water seal (NF EN 997) <i>For the special case of child and baby pans, see technical document 017-13</i>	1 pan is taken from the stock of finished products intended for sale All tests on sampled products take place in the mark laboratory(ies) and other pan types are tested in the manufacturer’s laboratory if the test bench is validated by the inspector/auditor.	NF mark laboratory and manufacturer’s laboratory
Functional characteristics of equipped flushing cisterns:		
Check replacement of water in the cistern (NF D 12-203) Check hydraulic characteristics (NF D 12-203)	1 cistern is taken from the stock of finished products intended for sale	NF mark laboratory and manufacturer’s laboratory
Safety characteristics for flush cisterns:		
Check materials (NF D 12-203) Check the design (NF D 12-203) Check the air trap (NF D 12-203) Check the hygiene and usability (NF D 12-203) Check presentation and technical documents Check tightening (NF D 12-203 <i>with specification fixed at 2 Nm</i>) Overflow determination (NF EN 997) Corrosion of fastening screws (NF D 12-203)	1 item from a model	NF mark laboratory

2.3 Extension to new sanitary ceramic appliances

2.3.1 Nature of measures on appliances except for equipped flushing cisterns

Appliance type	Dimensional check	Static loads	Thermal shock	Pan operation	Number of items per reference
Washbasin – sink – bowl – vanity top	NF mark laboratory or manufacturer's laboratory				1
Washbasin, vanity top and sink longer than 1 m	NF mark laboratory or manufacturer's laboratory		NF mark laboratory or manufacturer's laboratory		1
Wall-hung washbasins, vanity tops and sinks	NF mark laboratory or manufacturer's laboratory	NF mark laboratory or manufacturer's laboratory			1
Bidet	NF mark laboratory or manufacturer's laboratory				1
Wall-hung bidet	NF mark laboratory or manufacturer's laboratory	NF mark laboratory or manufacturer's laboratory			1
WC pan on pedestal (conventional, hospital or for baby)	NF mark laboratory or manufacturer's laboratory			NF mark laboratory	1 (3 references maximum)
Wall-hung WC pan (conventional, hospital or for baby)	NF mark laboratory or manufacturer's laboratory	NF mark laboratory or manufacturer's laboratory		NF mark laboratory	1 (3 references maximum)

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Appliance type	Dimensional check	Static loads	Thermal shock	Bottom stability	Slip resistance (if requested)	Number of items per reference
Hand-rinse basins	NF mark laboratory or manufacturer's laboratory	NF mark laboratory or manufacturer's laboratory				1
Appliances for public use	NF mark laboratory or manufacturer's laboratory					1
Wall-hung appliances for public use	NF mark laboratory or manufacturer's laboratory	NF mark laboratory or manufacturer's laboratory				1
Shower tray	NF mark laboratory or manufacturer's laboratory	NF mark laboratory or manufacturer's laboratory		NF mark laboratory or manufacturer's laboratory	NF mark laboratory	2
Shower tray with length \geq 1 m	NF mark laboratory or manufacturer's laboratory	NF mark laboratory or manufacturer's laboratory	NF mark laboratory or manufacturer's laboratory	NF mark laboratory or manufacturer's laboratory		1
Enamelled cast iron bath	NF mark laboratory or manufacturer's laboratory		NF mark laboratory or manufacturer's laboratory			1
Enamelled steel bath	NF mark laboratory or manufacturer's laboratory	NF mark laboratory or manufacturer's laboratory	NF mark laboratory or manufacturer's laboratory			1

Copies of records of checks mentioned above that can be made by the manufacturer must be sent to the NF mark laboratory that deals with extensions, together with appliances that are to be checked by the laboratory.

The mark laboratory that deals with extensions (from January 1 to December 31) is the laboratory that performs the monitoring inspection during the calendar year.



2.3.2 Nature of measures on equipped flushing cisterns

Water replacement	Dimensional check	Hydraulic characteristics	Sanitary safety check	Tightening check	Operating tests of the associated pan	Overflow determination	Number of items per reference
NF mark laboratory	NF mark laboratory	NF mark laboratory	NF mark laboratory	NF mark laboratory	NF mark laboratory	NF mark laboratory	1 (maximum of 3 pan references)

2.3.3 Nature of measures on specimens

The following tests must be made:

- Resistance to abrasion (NF D 14-501),
- Resistance to acids at ambient temperature (NF D 14-506),
- Resistance to hot alkalis (NF D 14-507),
- Resistance to domestic chemicals and stains (NF D 14-508),
- Resistance to chemicals and stains (NF EN 13310, NF EN 14688 and NF EN 14527).

Two cases can arise depending on whether or not the mark laboratory knows the colour ranges:

- For an extension application for a new colour range, tests shall be completed by the mark laboratory except for the last test, which can be conducted by the manufacturer's laboratory
- For an extension application for a new colour in a previously accepted range, tests may be conducted by the manufacturer's laboratory. In this case, the results shall be attached to the extension application.

APPENDIX II

Sampling rules and test methods used by the NF mark laboratory(ies)

FOR ENAMELLED STEEL OR ENAMELLED CAST IRON APPLIANCES

1 Appliances concerned

The different types of appliances to which this appendix is applicable are defined below:

- enamelled steel or enamelled cast iron baths,
- enamelled steel or enamelled cast iron shower trays.

2 Nature of tests and sampling rules

The following tables present examinations and tests to be completed by NF organisations and samples to be taken in the plant by the inspector/auditor for carrying out these tests.

2.1 First admission

If tests are done by the manufacturer, all results shall be provided with the admission file.

Nature of inspections and tests	Plant samples for first admission (initial application and additional admission application)	Test laboratory
General characteristics:		
Resistance to abrasion (NF D 14-501)	for each colour range (limited to six: gloss/dark, gloss/medium, gloss/light and matt/dark, matt/medium, matt/light); there are enough items to take 9 flat specimens of 100 x 100 mm or 9 control plates made at the same time as the appliances (not more than 6 x 9 = 54 specimens in total)	NF mark laboratory
Resistance to chemicals and stains (NF D 14-506; NF D 14-507; NF D 14-508)	for each colour range (limited to six: gloss/dark, gloss/medium, gloss/light and matt/dark, matt/medium, matt/light); there are enough items to take 3 flat specimens of 100 x 100 mm or 3 control plates made at the same time as the items (not more than 6 x 3 = 18 specimens in total)	NF mark laboratory
Resistance to chemicals and stains (NF EN 14516 and NF EN 14527) <i>Type test for conformity with the European standard.</i>		NF mark laboratory or manufacturer's laboratory
Resistance to static loads (NF EN 14516 and NF EN 14527) <i>Static loads are not applicable to cast iron baths and shower trays.</i>	for each model of appliance, regardless of the colour, 1 appliance is taken for testing and another 2 are taken if the results are non-conforming	NF mark laboratory
Bottom stability test (NF EN 14516 for baths; NF EN 14527 for shower trays) <i>Type test for conformity with the European standard.</i>	1 item for each model	NF mark laboratory or manufacturer's laboratory
Resistance to thermal shocks (NF D 14-503) <i>Thermal shocks are not applicable to cast iron baths and shower trays.</i>	1 item for each model	NF mark laboratory

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Nature of inspections and tests	Plant samples for first admission (initial application and additional admission application)	Test laboratory
Appearance and dimensional characteristics:		
<p><i>Check the application of tolerances related to:</i></p> <ul style="list-style-type: none"> ◆ defects concerning hygiene and appearance (NF D 14-505) ◆ product dimensions (length, width, height, etc.) (NF D 14-510) ◆ appliances connecting dimensions (NF EN 232; NF EN 251) ◆ lack of appearance defects (NF D 14-602) 	<p>1 item taken exclusively from the stock of items intended for sale</p>	<p>NF mark laboratory</p>

2.2 Monitoring

Nature of inspections and tests	Plant samples taken for monitoring purposes	Test laboratory
General characteristics:		
Resistance to abrasion (NF D 14-501)	for each colour range (gloss/dark, gloss/medium, gloss/light and matt/dark, matt/medium, matt/light); there are enough items to take 9 flat specimens of 100 x 100 mm or 9 control plates made at the same time as the appliances.	NF mark laboratory
Resistance to chemicals and stains (NF D 14-506; NF D 14-507; NF D 14-508)	for each colour range (gloss/dark, gloss/medium, gloss/light and matt/dark, matt/medium, matt/light); there are enough items to take 3 flat specimens of 100 x 100 mm or 3 control plates made at the same time as the items.	NF mark laboratory
Resistance to static loads (NF EN 14516 and NF EN 14527) <i>Static loads are not applicable to cast iron baths and shower trays.</i>	for each model of appliance , regardless of the colour, 1 appliance is taken for testing and another 2 are taken if the results are non-conforming	NF mark laboratory or manufacturer's laboratory
Resistance to thermal shocks (NF D 14-503) <i>Thermal shocks are not applicable to cast iron baths and shower trays.</i>	1 item for each model	NF mark laboratory or manufacturer's laboratory
Appearance and dimensional characteristics:		
Check the application of tolerances related to: ◆ defects concerning hygiene and appearance (NF D 14-505) ◆ product dimensions (length, width, height, etc.) (NF D 14-510) ◆ appliances connecting dimensions (NF EN 232; NF EN 251) ◆ lack of appearance defects (NF D 14-602)	1 item taken exclusively from the stock of items intended for sale	NF mark laboratory or manufacturer's laboratory

2.3 Extension to new enamelled steel or enamelled cast iron appliances

2.3.1 Nature of measures on appliances

Appliance type	Dimensional check	Static loads	Thermal shocks	Number of items per reference
Shower tray	NF mark laboratory or manufacturer's laboratory	NF mark laboratory or manufacturer's laboratory		1
Shower tray with length ≥ 1 m	NF mark laboratory or manufacturer's laboratory	NF mark laboratory or manufacturer's laboratory	NF mark laboratory or manufacturer's laboratory	1
Bath	NF mark laboratory or manufacturer's laboratory	<i>For steel baths</i> NF mark laboratory or manufacturer's laboratory	<i>For steel baths</i> NF mark laboratory or manufacturer's laboratory	1

Copies of records of checks mentioned above that can be made by the manufacturer must be sent to the NF mark laboratory together with appliances that are to be checked by the laboratory.

The mark laboratory that deals with extensions (from January 1 to December 31) is the laboratory that performs the monitoring inspection during the calendar year.

2.3.2 Nature of measures on specimens

The following tests must be made:

- Resistance to abrasion (NF D 14-501),
- Resistance to acids at ambient temperature (NF D 14-506),
- Resistance to hot alkalis (NF D 14-507),
- Resistance to domestic chemicals and stains (NF D 14-508),
- Resistance to chemicals and stains (NF EN 14516 and NF EN 14527).

Two cases can arise depending on whether or not the mark laboratory knows the colour ranges:

- For an extension application for a new colour range, tests shall be completed by the mark laboratory except for the last test, which can be conducted by the manufacturer's laboratory
- For an extension application for a new colour in a previously accepted range, tests may be conducted by the manufacturer's laboratory. In this case, the results shall be attached to the extension application.

APPENDIX III

Sampling rules and test methods used by the NF mark laboratory(ies)

FOR STAINLESS STEEL SINKS

1 Appliances concerned

The different types of appliances to which this appendix is applicable are defined below:

- Stainless steel sinks

2 Nature of tests and sampling rules

The following tables present examinations and tests to be completed by NF organisations and samples to be taken in the plant by the inspector/auditor for carrying out these tests.

2.1 First admission

All tests are done by NF mark laboratory(ies) (defined in Part 5).

Nature of inspections and tests	Plant samples for first admission (initial application and additional admission application)
General characteristics:	
Resistance to chemicals and stains (NF EN 13310)	5 flat specimens of 200 x 200 mm, for each steel grade and for each supplier , or 5 control plates taken from products
Thickness check (technical document 017-05)	1 item for each thickness
Flow check (NF EN 13310 and technical document 017-05) Flow check through overflow (NF EN 13310)	1 item
Drain board strength (technical document 017-05)	a sample of 1 appliance is taken for each appliance model and another 2 will be taken if the results are non-conforming
Appearance and dimensional characteristics:	
Check the application of tolerances related to: ♦ defects concerning hygiene and appearance (technical document 017-05) ♦ product dimensions (length, width, height, etc.) (technical document 017-05) ♦ appliances connecting dimensions (NF EN 695) ♦ dimensional deviations (technical document 017-05) Check that there are no appearance defects (technical document 017-05)	1 item taken exclusively from the stock of items intended for sale

2.2 Monitoring

Nature of inspections and tests	Plant samples taken for monitoring purposes	Test laboratory
General characteristics:		
Resistance to chemicals and stains (NF EN 13310)	5 flat specimens of 200 x 200 mm, for each steel grade and for each supplier , taken from products	NF mark laboratory
Thickness check (technical document 017-05)	1 item for each thickness	NF mark laboratory
Flow check (NF EN 13310 and technical document 017-05) Flow check through overflow (NF EN 13310)	1 item	NF mark laboratory
Drain board strength (technical document 017-05)	a sample of 1 appliance is taken for each appliance model and another 2 will be taken if the results are non-conforming	NF mark laboratory
Appearance and dimensional characteristics:		
Check the application of tolerances related to: ◆ defects concerning hygiene and appearance (technical document 017-05) ◆ product dimensions (length, width, height, etc.) (technical document 017-05) ◆ appliances connecting dimensions (NF EN 695) ◆ dimensional deviations (technical document 017-05) Check that there are no appearance defects (technical document 017-05)	1 item taken exclusively from the stock of items intended for sale	NF mark laboratory

2.3 Extension to new stainless steel sinks

Tests	Test laboratory
Connection dimensions	NF mark laboratory or manufacturer's laboratory
Dimensions	NF mark laboratory or manufacturer's laboratory
Straightness	NF mark laboratory or manufacturer's laboratory
Angularity	NF mark laboratory or manufacturer's laboratory
Overflow	NF mark laboratory or manufacturer's laboratory
Flow	NF mark laboratory or manufacturer's laboratory
Chemicals and stains	NF mark laboratory
Static loads	NF mark laboratory
Marking	NF mark laboratory or manufacturer's laboratory

APPENDIX IV

Sampling rules and test methods used by the NF mark laboratory(ies)

FOR SINKS MADE OF SYNTHETIC MATERIALS

1 Appliances concerned

The different types of appliances to which this appendix is applicable are defined below:

- Sinks made of synthetic materials

2 Nature of tests and sampling rules

The following tables present examinations and tests to be completed by NF organisations and samples to be taken in the plant by the inspector/auditor for carrying out these tests.

2.1 First admission

All tests are performed at the NF mark laboratory or laboratories.

Nature of inspections and tests	Plant samples for first admission (initial application and additional admission application)
General characteristics:	
Determination of water absorption (NF EN ISO 62, method I)	for each material, 3 flat specimens of 50 x 50 mm with ground edges taken from the products
Resistance to dry heat (NF EN 13310)	1 item for each model or range of appliances
Colour fastness under hot water (technical document 017-06)	for each material and for each colour range (limited to three: one dark, one medium and one light) and for each appearance (gloss or matt), 3 specimens of 25 x 100 mm taken from the products
Colour fastness under light (technical document 017-06)	for each material and for each colour range (limited to three: one dark, one medium and one light) and for each appearance (gloss or matt), 3 specimens of 60 x 140 mm taken from the products
Resistance to chemicals and stains (NF EN 13310)	for each material, 5 flat specimens of 200 x 200 mm taken from the products
Resistance to abrasion (NF EN 13310)	for each material, 3 flat specimens of 100 x 100 mm taken from the products
Resistance to scratching (NF EN 13310)	for each material, 3 flat specimens of 100 x 100 mm taken from the products
Drain board strength (technical document 017-06)	for each model of appliance , regardless of the colour, 1 appliance is taken for testing and another 2 are taken if the results are non-conforming
Resistance to thermal shocks (NF EN 13310)	1 item for each model
Flow check (NF EN 13310) Flow check through overflow (NF EN 13310)	1 item

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Nature of inspections and tests	Plant samples for first admission (initial application and additional admission application)
<i>Appearance and dimensional characteristics:</i>	
<p>Check the application of tolerances related to:</p> <ul style="list-style-type: none"> ◆ defects concerning hygiene and appearance (NF EN 13310 and technical document 017-06) ◆ product dimensions (length, width, height, etc.) (technical document 017-06) ◆ appliances connecting dimensions (NF EN 695) ◆ dimensional deviations (technical document 017-06) <p>Check that there are no appearance defects (technical document 017-06)</p>	<p>1 item taken exclusively from the stock of items intended for sale</p>

2.2 Monitoring

Nature of inspections and tests	Plant samples taken for monitoring purposes	Test laboratory
General characteristics:		
Determination of water absorption (NF EN ISO 62, method I)	for each material, 3 flat specimens of 50 x 50 mm with ground edges taken from the products	NF mark laboratory
Resistance to dry heat (NF EN 13310)	1 item for each model or range of appliances	NF mark laboratory
Colour fastness under hot water (technical document 017-06)	for each material , for 1 colour range, 3 specimens of 25 x 100 mm taken from the products	NF mark laboratory
Colour fastness under light (technical document 017-06)	for each material , for 1 colour range, 3 specimens of 60 x 140 mm taken from the products	NF mark laboratory
Resistance to chemicals and stains (NF EN 13310)	for each type of material, 5 flat specimens of 200 x 200 mm taken from the products	NF mark laboratory
Resistance to abrasion (NF EN 13310)	for each material, 3 flat specimens of 100 x 100 mm taken from the products	NF mark laboratory
Resistance to scratching (NF EN 13310)	for each material, 3 flat specimens of 100 x 100 mm taken from the products	NF mark laboratory
Drain board strength (technical document 017-06)	for each model of appliance , regardless of the colour, 1 appliance is taken for testing and another 2 are taken if the results are non-conforming	NF mark laboratory
Resistance to thermal shocks (NF EN 13310)	1 item for each model	NF mark laboratory
Flow check (NF EN 13310) Flow check through overflow (NF EN 13310)	1 item	NF mark laboratory

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Nature of inspections and tests	Plant samples taken for monitoring purposes	Test laboratory
<i>Appearance and dimensional characteristics:</i>		
Check the application of tolerances related to: <ul style="list-style-type: none"> ◆ defects concerning hygiene and appearance (NF EN 13310 and technical document 017-06) ◆ product dimensions (length, width, height, etc.) (technical document 017-06) ◆ appliances connecting dimensions (NF EN 695) ◆ dimensional deviations (technical document 017-06) Check that there are no appearance defects (technical document 017-06)	1 item taken exclusively from the stock of items intended for sale	NF mark laboratory

2.3 Extension to new sinks made of synthetic materials

Tests	Test laboratory
Connection dimensions	NF mark laboratory or manufacturer's laboratory
Dimensions	NF mark laboratory or manufacturer's laboratory
Planeness	NF mark laboratory or manufacturer's laboratory
Straightness	NF mark laboratory or manufacturer's laboratory
Angularity	NF mark laboratory or manufacturer's laboratory
Overflow	NF mark laboratory or manufacturer's laboratory
Flow	NF mark laboratory or manufacturer's laboratory
Water absorption	NF mark laboratory
Thermal shocks	NF mark laboratory
Surface thermal resistance	NF mark laboratory
Colour fastness under heat	NF mark laboratory
Colour fastness under light	NF mark laboratory
Chemicals and stains	NF mark laboratory
Abrasion	NF mark laboratory
Scratching	NF mark laboratory
Static loads	NF mark laboratory
Marking	NF mark laboratory or manufacturer's laboratory

APPENDIX V

Sampling rules and test methods used by the NF mark laboratory(ies)

FOR FLUSHING CISTERNS MADE OF SYNTHETIC MATERIALS

1 Appliances concerned

The different types of appliances to which this appendix is applicable are defined below:

- Flushing cisterns made of synthetic materials

2 Nature of tests and sampling rules

The following tables present examinations and tests to be completed by NF organisations and samples to be taken in the plant by the inspector/auditor for carrying out these tests.

2.1 First admission

All tests are done by NF mark laboratory(ies) (defined in Part 5).

Nature of inspections and tests	Plant samples for first admission (initial application and additional admission application)
General characteristics:	
Resistance to chemicals and stains (NF EN 263 and technical document 017-14)	Five 200 x 200 mm flat specimens for each type of material (body, lid and push plate for built-in cisterns)
Colour fastness under light (technical document 017-14)	For each colour range (limited to three: one dark, one medium, one light) and for each material, three 60 x 140 mm specimens taken from appliances. The push plate is sampled when the cistern is built-in.
Check compatibility with network disinfection products ¹ (NF D 12-203)	2 items for each material
Cistern/pan resistance to tightening (NF D 12-203) <i>For WC suites</i>	3 items from stock
Corrosion of fastening screws (NF D 12-203)	1 set of fastening screws

¹ If the tests for built-in cisterns are done for the NF–Sanitary Components mark (NF076), then the results of these tests will be taken into account for the NF–Sanitary Appliances mark (NF017).

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Nature of inspections and tests	Plant samples for first admission (initial application and additional admission application)
Appearance and dimensional characteristics:	
Check application of the tolerances related to: <ul style="list-style-type: none"> * defects concerning hygiene and appearance (NF D 12-203) * appliances connecting dimensions (NF D 12-203) Check that there are no appearance defects	1 item taken exclusively from the stock of items intended for sale
Operating characteristics¹:	
<ul style="list-style-type: none"> * Check hydraulic characteristics (NF D 12-203 and NF EN 14055) * Check replacement of water (NF D 12-203) 	3 different cisterns taken only from the stock of items intended for sale. All tests take place in the mark laboratory(ies). Other types are tested in the manufacturer's laboratory if the inspector or the auditor has validated the test means
Sanitary safety characteristics²:	
<ul style="list-style-type: none"> * Check materials (NF D 12-203) * Check the design (NF D 12-203) * Check the air trap (NF D 12-203) * Check the hygiene and usability (NF D 12-203) * Check presentation and technical documents 	1 item for each model taken exclusively from the stock of items intended for sale

¹ If the tests for built-in cisterns are done for the NF–Sanitary Components mark (NF076), then the results of these tests will be taken into account for the NF–Sanitary Appliances mark (NF017).

² If the tests for built-in cisterns are done for the NF–Sanitary Components mark (NF076), then the results of these tests will be taken into account for the NF–Sanitary Appliances mark (NF017).

2.2 Monitoring

All tests are done by NF mark laboratory(ies) (defined in Part 5).

Nature of inspections and tests	Plant samples taken for monitoring purposes
General characteristics:	
Resistance to chemicals and stains (NF EN 263 and technical document 017-14)	5 flat specimens of 200 x 200 mm for each type of material (body, lid and push plate for built-in cisterns)
Colour fastness under light (technical document 017-14)	For each colour range (limited to three: one dark, one medium, one light) and for each material, three 50 x 175 mm specimens taken from appliances. The visible part is sampled when the cistern is built-in.
Check compatibility with network disinfection products ¹ (NF D 12-203)	2 items for each material
Cistern / pan resistance to tightening (NF D 12-203)	1 item from stock
Corrosion of fastening screws (NF D 12-203)	1 set of fastening screws
Appearance and dimensional characteristics:	
Check application of the tolerances related to: * defects concerning hygiene and appearance (NF D 12-203), * appliances connecting dimensions (NF D 12-203). Check that there are no appearance defects	1 item taken exclusively from the stock of items intended for sale

¹ If the tests for built-in cisterns are done for the NF–Sanitary Components mark (NF076), then the results of these tests will be taken into account for the NF–Sanitary Appliances mark (NF017).

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Nature of inspections and tests	Plant samples taken for monitoring purposes
Operating characteristics¹:	
<ul style="list-style-type: none"> * Check hydraulic characteristics (NF D 12-203 and NF EN 14055), * Check replacement of water (NF D 12-203). 	1 cistern taken exclusively from the stock of items intended for sale. All tests take place in the mark laboratory(ies). Other types are tested in the manufacturer's laboratory if the inspector or the auditor has validated the test means
Sanitary safety characteristics²:	
<ul style="list-style-type: none"> * Check materials (NF D 12-203), * Check the design (NF D 12-203), * Check the air trap (NF D 12-203), * Check the hygiene and usability (NF D 12-203), * Check presentation and technical documents. 	1 item for each model taken exclusively from the stock of items intended for sale

¹ If the tests for built-in cisterns are done for the NF–Sanitary Components mark (NF076), then the results of these tests will be taken into account for the NF–Sanitary Appliances mark (NF017).

² If the tests for built-in cisterns are done for the NF–Sanitary Components mark (NF076), then the results of these tests will be taken into account for the NF–Sanitary Appliances mark (NF017).

2.3 Extension to new flushing cisterns made of synthetic materials

Tests	Test laboratory
Resistance to chemicals and stains	NF mark laboratory
Colour fastness under light	NF mark laboratory
Compatibility with network disinfection products	NF mark laboratory
Tightening	NF mark laboratory
Hygiene and appearance	NF mark laboratory
Appliances connecting dimensions	NF mark laboratory
Moulding quality	NF mark laboratory
Hydraulic characteristics	NF mark laboratory
Water replacement	NF mark laboratory
Sanitary safety	NF mark laboratory
Corrosion of fastening screws	NF mark laboratory

APPENDIX VI

Sampling rules and test methods used by the NF mark laboratory(ies)

FOR BATHS, SHOWER TRAYS, BOWLS AND VANITY TOPS MADE OF SYNTHETIC MATERIALS OTHER THAN CAST ACRYLIC AND CO-EXTRUDED ABS/ACRYLIC

1 Appliances concerned

The different types of appliances to which this appendix is applicable are defined below:

- baths made of synthetic materials,
- shower trays made of synthetic materials,
- bowls made of synthetic materials,
- vanity tops made of synthetic materials.

2 Nature of tests and sampling rules

The following tables present examinations and tests to be completed by NF organisations and samples to be taken in the plant by the inspector/auditor for carrying out these tests.

2.1 First admission

Nature of inspections and tests	Plant samples for first admission (initial application and additional admission application)	Test laboratory
General characteristics (1/2):		
Determination of the absorbed water mass (except for bowls, vanity tops and appliances based on NF certified acrylic) (NF EN ISO 62 method 1)	Two 50 x 50 mm flat specimens with ground edges, taken from products	NF mark laboratory
Check colour fastness under hot water (except for NF certified acrylic based appliances) (NF EN 263)	For each material, three 25 X 100 mm specimens taken from products, for one colour range	NF mark laboratory
Check colour fastness under light (except for NF certified acrylic-based appliances) (NF EN ISO 4892-2 method B)	For each material, three 60 x 140 mm specimens taken from products, for one colour range.	NF mark laboratory
Resistance to chemicals and stains (except for NF certified acrylic based appliances) (NF EN 263)	For each material, five 200 x 200 mm flat specimens taken from products, for one colour range	NF mark laboratory
Resistance to chemicals and stains (NF EN 14527) <i>Type test for conformity with the European standard.</i>	For each material, five 200 x 200 mm flat specimens taken from products, for one colour range	NF mark laboratory
Resistance to abrasion (Taber) (except for NF certified acrylic based appliances) (NF EN 14688)	For each material, three 100 X 100 mm flat specimens taken from products	NF mark laboratory
Resistance to scratching (except for NF certified acrylic based appliances) (NF EN 14688)	For each material, three 100 X 100 mm flat specimens taken from products	NF mark laboratory
Bottom stability test (NF EN 14516 for baths, NF EN 14527 for shower trays) <i>Type test for conformity with the European standard.</i>	1 item for each model	NF mark laboratory or manufacturer's laboratory

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Nature of inspections and tests	Plant samples for first admission (initial application and additional admission application)	Test laboratory
General characteristics (2/2):		
Resistance to static loads (NF EN 198 for baths; NF EN 249 for shower trays made of synthetic materials; NF D 12-210 for bowls and vanity tops)	<ul style="list-style-type: none"> • For each bath and shower tray model, regardless of the colour, one appliance is sampled and tested and the test is repeated with another two appliances if the results are non-conforming. • For wall-hung vanity tops, one item is sampled and tested for each material and the test is repeated with another two items if the results are non-conforming. • For bottom supported bowls and vanity tops, one item is sampled and tested for each material and the test is repeated with another 2 items if the results are non-conforming (NF D 12-210) 	NF mark laboratory
Resistance to thermal shocks (technical document 017-10 for baths and shower trays; NF EN 14688 for bowls and vanity tops)	<ul style="list-style-type: none"> • One item for each model. • One item for each material for bowls and for vanity tops. 	NF mark laboratory
Resistance to mechanical shocks (NF EN 198 for baths; NF EN 249 for shower trays; NF D 12-210 for bowls and vanity tops)	<ul style="list-style-type: none"> • One item for each model. • One item for each material for bowls and for vanity tops. 	NF mark laboratory

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Nature of inspections and tests	Plant samples for first admission (initial application and additional admission application)	Test laboratory
Appearance and dimensional characteristics:		
Check the application of tolerances related to: <ul style="list-style-type: none"> • defects concerning hygiene and appearance, • product dimensions (length, width, height, etc.), • appliances connecting dimensions. Check mass and capacity. Check that there are no appearance defects. Check water evacuation (product standards)	1 item taken exclusively from the stock of items intended for sale	NF mark laboratory
Tests on bath handles:		
Tension tests on handles (NF EN 198) Resistance of handles to corrosion (NF EN ISO 9227) <i>The manufacturer is free to choose either the 200h neutral salt spray (NSS) test, or the 24h acetic acid salt spray (AASS) test.</i> Resistance of handles to chemicals and stains (NF EN 263)	1 item taken exclusively from the stock of items intended for sale	NF mark laboratory
Tests on tap ledges:		
Tension test (NF D 11-121)	1 item taken exclusively from the stock of items intended for sale	NF mark laboratory

2.2 Monitoring

Nature of inspections and tests	Plant samples taken for monitoring purposes	Test laboratory
General characteristics (1/2):		
Determination of the absorbed water mass (except for bowls, vanity tops and appliances based on NF certified acrylic) (NF EN ISO 62 method 1)	Two 50 x 50 mm flat specimens with ground edges, taken from products	NF mark laboratory
Check colour fastness under hot water (except for NF certified acrylic based appliances) (NF EN 263)	For each material, three 25 X 100 mm specimens taken from products, for one colour range	NF mark laboratory
Check colour fastness under light (except for NF certified acrylic-based appliances) (NF EN ISO 4892-2 method B)	For each material, three 60 x 140 mm specimens taken from products, for one colour range.	NF mark laboratory
Resistance to chemicals and stains (except for NF certified acrylic based appliances) (NF EN 263)	For each material, five 200 x 200 mm flat specimens taken from products, for one colour range	NF mark laboratory
Resistance to abrasion (Taber) (except for NF certified acrylic based appliances) (NF EN 14688)	For each material, three 100 X 100 mm flat specimens taken from products	NF mark laboratory
Resistance to scratching (except for NF certified acrylic based appliances) (NF EN 14688)	For each material, three 100 X 100 mm flat specimens taken from products	NF mark laboratory

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Nature of inspections and tests	Plant samples taken for monitoring purposes	Test laboratory
General characteristics (2/2):		
Resistance to static loads (NF EN 198 for baths; NF EN 249 for shower trays made of synthetic materials; NF D 12-210 for bowls and vanity tops)	<ul style="list-style-type: none"> • For each bath and shower tray model, regardless of the colour, one appliance is sampled and tested and the test is repeated with another two appliances if the results are non-conforming. • For wall-hung vanity tops, one item is sampled and tested for each material and the test is repeated with another two items if the results are non-conforming. • For bottom supported bowls and vanity tops, one item is sampled and tested for each material and the test is repeated with another 2 items if the results are non-conforming (NF D 12-210) 	NF mark laboratory
Resistance to thermal shocks (technical document 017-10 for baths and shower trays; NF EN 14688 for bowls and vanity tops)	<ul style="list-style-type: none"> • One item for each model. • One item for each material for bowls and for vanity tops. 	NF mark laboratory
Resistance to mechanical shocks (NF EN 198 for baths; NF EN 249 for shower trays; NF D 12-210 for bowls and vanity tops)	<ul style="list-style-type: none"> • One item for each model. • One item for each material for bowls and for vanity tops. 	NF mark laboratory

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Nature of inspections and tests	Plant samples taken for monitoring purposes	Test laboratory
Appearance and dimensional characteristics:		
Check application of the tolerances related to: <ul style="list-style-type: none"> • defects concerning hygiene and appearance, • product dimensions (length, width, height, etc.), • appliances connecting dimensions. Check mass and capacity. Check that there are no appearance defects. Check water evacuation (product standards).	1 item taken exclusively from the stock of items intended for sale	NF mark laboratory
Tests on bath handles:		
Tension tests on handles (NF EN 198) Resistance of handles to corrosion (NF EN ISO 9227) <i>The manufacturer is free to choose either the 200h neutral salt spray (NSS) test, or the 24h acetic acid salt spray (AASS) test.</i> Resistance of handles to chemicals and stains (NF EN 263)	1 item taken exclusively from the stock of items intended for sale	NF mark laboratory

2.3 Extension to new appliances made of synthetic materials

2.3.1 Nature of measures on baths and shower trays made of synthetic materials other than acrylic

Tests	Test laboratory
Dimensions/mass/capacity	NF mark laboratory
Water absorption	NF mark laboratory
Colour fastness under hot water	NF mark laboratory
Colour fastness under light	NF mark laboratory
Chemicals and stains	NF mark laboratory
Abrasion	NF mark laboratory
Scratching	NF mark laboratory
Static loads	NF mark laboratory
Thermal shocks	NF mark laboratory
Mechanical shocks	NF mark laboratory
Water evacuation	NF mark laboratory

2.3.2 Nature of measures on bowls and vanity tops made of synthetic materials other than acrylic

Tests	Test laboratory
Dimensions	NF mark laboratory
Colour fastness under hot water	NF mark laboratory
Colour fastness under light	NF mark laboratory
Chemicals and stains	NF mark laboratory
Abrasion	NF mark laboratory
Scratching	NF mark laboratory
Static loads	NF mark laboratory
Thermal shocks	NF mark laboratory
Mechanical shocks	NF mark laboratory
Water evacuation	NF mark laboratory

APPENDIX VII

Sampling rules and test methods used by the NF mark laboratory(ies)

FOR SUPPORT FRAMES

1 Appliances concerned

The different types of appliances to which this appendix is applicable are defined below:

- support frames.

2 Nature of tests and sampling rules

The following tables present examinations and tests to be completed by NF organisations and samples to be taken in the plant by the inspector/auditor for carrying out these tests.

2.1 First admission

All tests are performed at the NF mark laboratory or laboratories.

Nature of inspections and tests	Plant samples for first admission (initial application and additional admission application)
General characteristics:	
Durability	1 item for each nature of material, for each type of finish and for each type of assembly.
Resistance to static loads (technical document 017-17)	1 item per range with a maximum of 3 items
Dimensional and appearance characteristics:	
Check the application of tolerances related to: <ul style="list-style-type: none"> • product dimensions (length, width, height, etc.) (NF D 14-510); • connection dimensions of appliances (standards for sanitary appliances); • connections; • conformity with the installation instructions. 	1 item for each range with a maximum of 3 items

2.2 Monitoring

All tests are performed at the NF mark laboratory or laboratories.

Nature of inspections and tests	Plant samples taken for monitoring purposes
General characteristics:	
Durability (NF D 12-208)	1 item
Resistance to static loads (NF D 12-208)	1 item
Dimensional and appearance characteristics:	
Check the application of tolerances related to: <ul style="list-style-type: none"> • product dimensions (length, width, height, etc.) (NF D 14-510); • appliances connecting dimensions (sanitary appliance standards). 	1 item

2.3 Extension to new support frames

Appliance type	Dimensional check	Static loads	Durability
Support frame	NF mark laboratory	NF mark laboratory	NF mark laboratory

APPENDIX VIII

Sampling rules and test methods used by the NF mark laboratory
or laboratories

FOR SHOWER ENCLOSURES

1 Appliances concerned

The different types of appliances to which this appendix is applicable are defined below:

- shower enclosures.

2 Nature of tests and sampling rules

The following tables present examinations and tests to be completed by NF organisations and samples to be taken in the plant by the inspector/auditor for carrying out these tests.

2.1 Admission/extension

All tests are performed at the NF mark laboratory or laboratories.

Nature of inspections and tests	Plant samples for admission (initial application, additional admission application, extension)
Glazing (NF EN 14428 and technical document 017-18)	1 item for each model
External appearance (NF EN 14428)	1 item for each model
Moving parts (technical document 017-18)	1 item for each model
Stability (NF EN 14428)	1 item for each model
Impact strength (NF EN 14428)	1 item for each model
Endurance (NF EN 14428)	1 item for each model
Water tightness (NF EN 14428)	1 item for each model
Cleaning (NF EN 14428)	1 item for each model
Resistance to chemicals and stains (NF EN 14428)	1 item for each appearance and for each glass supplier
Humidity / drying (NF EN 14428)	1 item for each appearance and for each glass supplier
Corrosion (NF EN 14428)	1 item for each type of section coating and for each type of assembly part
Installation instructions (NF EN 14428)	1 item for each model
User's instructions (NF EN 14428)	1 item for each model

2.2 Monitoring

All tests are performed at the NF mark laboratory or laboratories.

Nature of inspections and tests	Plant samples taken for monitoring purposes
Glazing (NF EN 14428 and technical document 017-18)	1 item from 1 model
External appearance (NF EN 14428)	1 item from 1 model
Moving parts (technical document 017-18)	1 item from 1 model
Stability (NF EN 14428)	1 item from 1 model
Impact strength (NF EN 14428)	1 item from 1 model
Endurance (NF EN 14428)	1 item from 1 model
Water tightness (NF EN 14428)	1 item from 1 model
Cleaning (NF EN 14428)	1 item from 1 model
Corrosion (NF EN 14428)	1 item for each type of section coating and for each type of assembly part
Installation instructions (NF EN 14428)	1 item from 1 model
User's instructions (NF EN 14428)	1 item from 1 model

APPENDIX IX

Sampling rules and test methods used by the NF mark laboratory(ies)

FOR PRODUCTS MADE FROM CAST ACRYLIC SHEETS

1 Appliances concerned

The different types of appliances to which this appendix is applicable are defined below:

- class 1 baths in accordance with NF EN 14516,
- class 1 shower trays in accordance with NF EN 14527,
- bowls,
- vanity tops.

2 Nature of tests and sampling rules

The following tables present examinations and tests to be completed by NF organisations and samples to be taken in the plant by the inspector/auditor for carrying out these tests.

2.1 First admission

Nature of inspections and tests	Plant samples for first admission (initial application and additional admission application)	Test laboratory
General characteristics (1/2):		
Resistance to chemicals and stains (NF EN 14527) <i>Type test for conformity with the European standard.</i>	For each material, five 200 x 200 mm flat specimens taken from products, for one colour range	NF mark laboratory
Bottom stability test (NF EN 14516 for baths, NF EN 14527 for shower trays) <i>Type test for conformity with the European standard.</i>	1 item for each model	NF mark laboratory
Resistance to static loads (NF EN 198 for baths; NF EN 249 for shower trays made of synthetic materials; NF D 12-210 for bowls and vanity tops)	<ul style="list-style-type: none"> • For each bath and shower tray model, regardless of the colour, one appliance is sampled and tested and the test is repeated with another two appliances if the results are non-conforming. • For wall-hung vanity tops, one item is sampled and tested for each material and the test is repeated with another two items if the results are non-conforming. • For bottom supported bowls and vanity tops, one item is sampled and tested for each material and the test is repeated with another 2 items if the results are non-conforming (NF D 12-210) 	NF mark laboratory
Resistance to thermal shocks (technical document 017-10 for baths and shower trays; NF EN 14688 for bowls and vanity tops)	<ul style="list-style-type: none"> • One item for each model. • One item for each material for bowls and for vanity tops. 	NF mark laboratory

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Nature of inspections and tests	Plant samples for first admission (initial application and additional admission application)	Test laboratory
General characteristics (2/2):		
Resistance to mechanical shocks (NF EN 198 for baths; NF EN 249 for shower trays; NF D 12-210 for bowls and vanity tops)	<ul style="list-style-type: none"> • One item for each model. • One item for each material for bowls and for vanity tops. 	NF mark laboratory
Appearance and dimensional characteristics:		
Check the application of tolerances related to: <ul style="list-style-type: none"> • defects concerning hygiene and appearance, • product dimensions (length, width, height, etc.), • appliances connecting dimensions. Check that there are no appearance defects. Check water evacuation (product standards)	1 item taken exclusively from the stock of items intended for sale	NF mark laboratory
Tests on bath handles:		
Tension tests on handles (NF EN 198) Resistance of handles to corrosion (NF EN ISO 9227) <i>The manufacturer is free to choose either the 200h neutral salt spray (NSS) test, or the 24h acetic acid salt spray (AASS) test.</i> Resistance of handles to chemicals and stains (NF EN 263)	1 item taken exclusively from the stock of items intended for sale	NF mark laboratory

Nature of inspections and tests	Plant samples for first admission (initial application and additional admission application)	Test laboratory
Tests on tap ledges:		
Tension test (NF D 11-121)	1 item taken exclusively from the stock of items intended for sale	NF mark laboratory

2.2 Monitoring

Nature of inspections and tests	Plant samples taken for monitoring purposes	Test laboratory
General characteristics (1/2):		
Resistance to static loads (NF EN 198 for baths; NF EN 249 for shower trays made of synthetic materials; NF D 12-210 for bowls and vanity tops)	<ul style="list-style-type: none"> • For each bath and shower tray model, regardless of the colour, one appliance is sampled and tested and the test is repeated with another two appliances if the results are non-conforming. • For wall-hung vanity tops, one item is sampled and tested for each material and the test is repeated with another two items if the results are non-conforming. • For bottom supported bowls and vanity tops, one item is sampled and tested for each material and the test is repeated with another 2 items if the results are non-conforming (NF D 12-210) 	NF mark laboratory or manufacturer's laboratory ¹

¹ Tests may take place in the manufacturer's laboratory if the means used by the manufacturer are recognised and validated by the inspector/auditor.

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Nature of inspections and tests	Plant samples taken for monitoring purposes	Test laboratory
General characteristics (2/2):		
Resistance to thermal shocks (technical document 017-10 for baths and shower trays; NF EN 14688 for bowls and vanity tops)	<ul style="list-style-type: none"> • One item for each model. • One item for each material for bowls and for vanity tops. 	NF mark laboratory or manufacturer's laboratory ¹
Resistance to mechanical shocks (NF EN 198 for baths; NF EN 249 for shower trays; NF D 12-210 for bowls and vanity tops)	<ul style="list-style-type: none"> • One item for each model. • One item for each material for bowls and for vanity tops. 	NF mark laboratory or manufacturer's laboratory ¹
Appearance and dimensional characteristics:		
<p>Check application of the tolerances related to:</p> <ul style="list-style-type: none"> • defects concerning hygiene and appearance, • product dimensions (length, width, height, etc.), • appliances connecting dimensions. <p>Check that there are no appearance defects.</p> <p>Check water evacuation (product standards).</p>	1 item taken exclusively from the stock of items intended for sale	NF mark laboratory or manufacturer's laboratory ¹

¹ Tests may take place in the manufacturer's laboratory if the means used by the manufacturer are recognised and validated by the inspector/auditor.

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Nature of inspections and tests	Plant samples taken for monitoring purposes	Test laboratory
Tests on bath handles:		
Tension tests on handles (NF EN 198) Resistance of handles to corrosion (NF EN ISO 9227) <i>The manufacturer is free to choose either the 200h neutral salt spray (NSS) test, or the 24h acetic acid salt spray (AASS) test.</i> Resistance of handles to chemicals and stains (NF EN 263)	1 item taken exclusively from the stock of items intended for sale	NF mark laboratory

2.3 Extension to new appliances

Tests	Test laboratory
Dimensions	NF mark laboratory
Static loads	NF mark laboratory
Thermal shocks	NF mark laboratory
Mechanical shocks	NF mark laboratory
Water evacuation	NF mark laboratory

APPENDIX X

Sampling rules and test methods used by the NF mark laboratory(ies)

FOR PRODUCTS MADE FROM IMPACT-MODIFIED CO-EXTRUDED ABS/ACRYLIC SHEETS

1 Appliances concerned

The different types of appliances to which this appendix is applicable are defined below:

- class 1 baths in accordance with NF EN 14516
- class 1 shower trays in accordance with NF EN 14527

2 Nature of tests and sampling rules

The following tables present examinations and tests to be completed by NF organisations and samples to be taken in the plant by the inspector/auditor for carrying out these tests.

2.1 First admission

Nature of inspections and tests	Plant samples (first application)	Test laboratory
Appearance and dimensional characteristics:		
Check application of the tolerances related to: <ul style="list-style-type: none"> • defects concerning hygiene and appearance, • product dimensions (length, width, height, dimensional and geometric deviations, etc.), • appliances connecting dimensions, • verification of mass, capacity and bottom thickness. (NF EN 15719, NF EN 232 and technical document 017-08 for baths or NF EN 15720 and NF EN 251 for shower trays and technical document 017-20)	One item for each model.	NF mark laboratory
General characteristics		
Evacuation of water at bottom and rim (NF EN 15719 and technical document 017-08 for baths or NF EN 15720 for shower trays, and technical documents 017-20 and 017-21)	One item for each model.	NF mark laboratory
Resistance to thermal shocks (NF EN 15719 and technical document 017-08 for baths or NF EN 15720 for shower trays and technical document 017-20)	One item for each model.	NF mark laboratory
Resistance to mechanical shocks (NF EN 15719 for baths; NF EN 15720 for shower trays)	One item for each model.	NF mark laboratory
Permissible deformations (NF EN 15719 for baths; NF EN 15720 for shower trays)	One item for each model.	NF mark laboratory

Nature of inspections and tests	Plant samples (initial application and additional admission application)	Test laboratory
Mechanical resistance (scratching) of the surface of the bath (NF EN 15719)	1 flat specimen taken from the bottom of the bath	NF mark laboratory
Resistance to chemicals and stains (NF EN 14516 and 15719 for baths; NF EN 14527 for shower trays)	For one colour range, 5 flat specimens of 100 x 100 mm, taken from products	NF mark laboratory
Bottom stability test (NF EN 14516 for baths, NF EN 14527 for shower trays) <i>Type test for conformity with the European standard.</i>	1 item for each model	NF mark laboratory or manufacturer's laboratory
Tests on bath handles:		
Tension tests on handles (NF EN 15719) Resistance of handles to corrosion and to chemicals and stains (technical document 017-08)	1 bath for each model and 1 set of handles	NF mark laboratory
Tests on bath tap ledges:		
Tension test (NF D 11-121)	1 bath for each model	NF mark laboratory
Material characteristics:		
General characteristics (Tensile, Modulus of elasticity, Heat deflection temperature, Impact resistance, Water absorption)	Specimens cut from a 1 m ² sheet of impact-modified ABS/acrylic	NF mark laboratory
Thickness	One 1 m ² sheet of impact-modified ABS/acrylic	NF mark laboratory

Nature of inspections and tests	Plant samples (initial application and additional admission application)	Test laboratory
Heat resistance	2 specimens, 300 mm on a side, cut from a sheet of impact-modified ABS/acrylic	NF mark laboratory
Colour fastness under UV light	For one range of colours, 3 specimens of 60 x 140 mm, cut from a sheet of impact-modified ABS/acrylic	NF mark laboratory
Colour fastness under hot water	For one range of colours, 3 specimens of 25 x 100 mm, cut from a sheet of impact-modified ABS/acrylic	NF mark laboratory
Resistance to chemicals and staining	For one range of colours, 4 specimens of 100 x 100 mm, cut from a sheet of impact-modified ABS/acrylic	NF mark laboratory
Resistance to wet and dry cycling	2 specimens of 100 x 100 mm, cut from a sheet of impact-modified ABS/acrylic	NF mark laboratory
Reversion	Specimens cut from a sheet of impact-modified ABS/acrylic	NF mark laboratory
Resistance to stress cracking	Specimens cut from a sheet of impact-modified ABS/acrylic	NF mark laboratory

2.2 Monitoring

Nature of inspections and tests	Plant samples (first application)	Test laboratory
Appearance and dimensional characteristics:		
Check application of the tolerances related to: <ul style="list-style-type: none"> • defects concerning hygiene and appearance, • product dimensions (length, width, height, dimensional and geometric deviations, etc.), • appliances connecting dimensions. • verification of mass, capacity and bottom thickness. (NF EN 15719, NF EN 232 and technical document 017-08 for baths or NF EN 15720 and NF EN 251 for shower trays and technical document 017-20)	1 model	NF mark laboratory
General characteristics		
Evacuation of water at bottom and rim (NF EN 15719 and technical document 017-08 for baths or NF EN 15720 for shower trays and technical documents 017-20 and 017-21)	1 model	NF mark laboratory
Resistance to thermal shocks (NF EN 15719 and technical document 017-08 for baths or NF EN 15720 for shower trays and technical document 017-20)	1 model	NF mark laboratory
Resistance to mechanical shocks (NF EN 15719 for baths; NF EN 15720 for shower trays)	1 model	NF mark laboratory
Permissible deformations (NF EN 15719 for baths; NF EN 15720 for shower trays)	1 model	NF mark laboratory

Nature of inspections and tests	Plant samples (initial application and additional admission application)	Test laboratory
Mechanical resistance (scratching) of the surface of the bath (NF EN 15719)	1 flat specimen taken from the bottom of the bath	NF mark laboratory
Resistance to chemicals and stains (NF EN 14516 and 15719 for baths; NF EN 14527 for shower trays)	5 flat specimens of 100 x 100 mm taken from the products	NF mark laboratory
Bottom stability test (NF EN 14516 for baths, NF EN 14527 for shower trays) <i>Type test for conformity with the European standard.</i>	1 model	NF mark laboratory or manufacturer's laboratory
Tests on bath handles:		
Tension tests on handles (NF EN 15719) Resistance of handles to corrosion and to chemicals and stains (technical document 017-08)	1 model and 1 set of handles	NF mark laboratory
Tests on bath tap ledges:		
Tension test (NF D 11-121)	1 model	NF mark laboratory
Material characteristics:		
General characteristics (Tensile, Modulus of elasticity, Heat deflection temperature, Impact resistance, Water absorption)	Specimens cut from a sheet of impact-modified ABS/acrylic	NF mark laboratory
Thickness	1 sheet of impact-modified ABS/acrylic	NF mark laboratory

Nature of inspections and tests	Plant samples (initial application and additional admission application)	Test laboratory
Heat resistance	2 specimens, 300 mm on a side, cut from a sheet of impact-modified ABS/acrylic	NF mark laboratory
Colour fastness under UV light	3 specimens of 60 x 140 mm, cut from a sheet of impact-modified ABS/acrylic	NF mark laboratory
Colour fastness under hot water	3 specimens of 25 x 100 mm, cut from a sheet of impact-modified ABS/acrylic	NF mark laboratory
Resistance to chemicals and staining	4 specimens of 100 x 100 mm, cut from a sheet of impact-modified ABS/acrylic	NF mark laboratory
Resistance to wet and dry cycling	2 specimens of 100 x 100 mm, cut from a sheet of impact-modified ABS/acrylic	NF mark laboratory
Reversion	Specimens cut from a sheet of impact-modified ABS/acrylic	NF mark laboratory
Resistance to stress cracking	Specimens cut from a sheet of impact-modified ABS/acrylic	NF mark laboratory

2.3 Additional admission

Nature of inspections and tests	Plant samples (first application)	Test laboratory
Appearance and dimensional characteristics:		
Check application of the tolerances related to: <ul style="list-style-type: none"> • defects concerning hygiene and appearance, • product dimensions (length, width, height, dimensional and geometric deviations, etc.), • appliances connecting dimensions. • verification of mass, capacity and bottom thickness. (NF EN 15719, NF EN 232 and technical document 017-08 for baths or NF EN 15720 and NF EN 251 for shower trays and technical document 017-20)	1 model	NF mark laboratory
General characteristics		
Evacuation of water at bottom and rim (NF EN 15719 and technical document 017-08 for baths or NF EN 15720 for shower trays and technical documents 017-20 and 017-21)	1 model	NF mark laboratory
Resistance to thermal shocks (NF EN 15719 and technical document 017-08 for baths or NF EN 15720 for shower trays and technical document 017-20)	1 model	NF mark laboratory
Resistance to mechanical shocks (NF EN 15719 for baths; NF EN 15720 for shower trays)	1 model	NF mark laboratory
Permissible deformations (NF EN 15719 for baths; NF EN 15720 for shower trays)	1 model	NF mark laboratory

Nature of inspections and tests	Plant samples (initial application and additional admission application)	Test laboratory
Bottom stability test (NF EN 14516 for baths, NF EN 14527 for shower trays) <i>Type test for conformity with the European standard.</i>	1 model	NF mark laboratory or manufacturer's laboratory
Tests on bath handles:		
Tension tests on handles (NF EN 15719) Resistance of handles to corrosion and to chemicals and stains (technical document 017-08)	1 model and 1 set of handles	NF mark laboratory
Tests on bath tap ledges:		
Tension test (NF D 11-121)	1 model	NF mark laboratory
Material characteristics:		
Thickness	1 sheet of impact-modified ABS/acrylic	NF mark laboratory

2.4 New colour

Nature of inspections and tests	Plant samples (initial application and additional admission application)	Test laboratory
Mechanical resistance (scratching) of the surface of the bath (NF EN 15719)	1 flat specimen taken from the bottom of the bath	NF mark laboratory
Resistance to chemicals and stains (NF EN 14516 and 15719 for baths; NF EN 14527 for shower trays)	5 flat specimens of 100 x 100 mm taken from the products	NF mark laboratory
General characteristics (Tensile, Modulus of elasticity, Heat deflection temperature, Impact resistance, Water absorption)	Specimens cut from a 1 m ² sheet of impact-modified ABS/acrylic	NF mark laboratory
Heat resistance	2 specimens, 300 mm on a side, cut from a sheet of impact-modified ABS/acrylic	NF mark laboratory
Colour fastness under UV light	3 specimens of 60 x 140 mm, cut from a sheet of impact-modified ABS/acrylic	NF mark laboratory
Colour fastness under hot water	3 specimens of 25 x 100 mm, cut from a sheet of impact-modified ABS/acrylic	NF mark laboratory
Resistance to chemicals and staining	4 specimens of 100 x 100 mm, cut from a sheet of impact-modified ABS/acrylic	NF mark laboratory
Resistance to wet and dry cycling	2 specimens of 100 x 100 mm, cut from a sheet of impact-modified ABS/acrylic	NF mark laboratory
Reversion	Specimens cut from a sheet of impact-modified ABS/acrylic	NF mark laboratory
Resistance to stress cracking	Specimens cut from a sheet of impact-modified ABS/acrylic	NF mark laboratory

2.5 Admission of a product in a new thickness

Nature of inspections and tests	Plant samples (first application)	Test laboratory
<i>Appearance and dimensional characteristics:</i>		
Check application of the tolerances related to: <ul style="list-style-type: none"> • defects concerning hygiene and appearance, • product dimensions (length, width, height, dimensional and geometric deviations, etc.), • appliances connecting dimensions. • verification of mass, capacity and bottom thickness. (NF EN 15719, NF EN 232 and technical document 017-08 for baths or NF EN 15720 and NF EN 251 for shower trays and technical document 017-20)	1 model	NF mark laboratory
<i>General characteristics</i>		
Evacuation of water at bottom and rim (NF EN 15719 and technical document 017-08 for baths or NF EN 15720 for shower trays and technical documents 017-20 and 017-21)	1 model	NF mark laboratory
Resistance to thermal shocks (NF EN 15719 and technical document 017-08 for baths or NF EN 15720 for shower trays and technical document 017-20)	1 model	NF mark laboratory
Resistance to mechanical shocks (NF EN 15719 for baths; NF EN 15720 for shower trays)	1 model	NF mark laboratory
Permissible deformations (NF EN 15719 for baths; NF EN 15720 for shower trays)	1 model	NF mark laboratory

Nature of inspections and tests	Plant samples (initial application and additional admission application)	Test laboratory
Bottom stability test (NF EN 14516 for baths, NF EN 14527 for shower trays) <i>Type test for conformity with the European standard.</i>	1 model	NF mark laboratory or manufacturer's laboratory
Tests on bath handles:		
Tension tests on handles (NF EN 15719) Resistance of handles to corrosion and to chemicals and stains (technical document 017-08)	1 model and 1 set of handles	NF mark laboratory
Tests on bath tap ledges:		
Tension test (NF D 11-121)	1 model	NF mark laboratory
Material characteristics:		
General characteristics (Tensile, Modulus of elasticity, Heat deflection temperature, Impact resistance, Water absorption)	Specimens cut from a 1 m ² sheet of impact-modified ABS/acrylic	NF mark laboratory
Thickness	One 1 m ² sheet of impact-modified ABS/acrylic	NF mark laboratory
Heat resistance	2 specimens, 300 mm on a side, cut from a sheet of impact-modified ABS/acrylic	NF mark laboratory
Reversion	Specimens cut from a sheet of impact-modified ABS/acrylic	NF mark laboratory
Resistance to stress cracking	Specimens cut from a sheet of impact-modified ABS/acrylic	NF mark laboratory



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