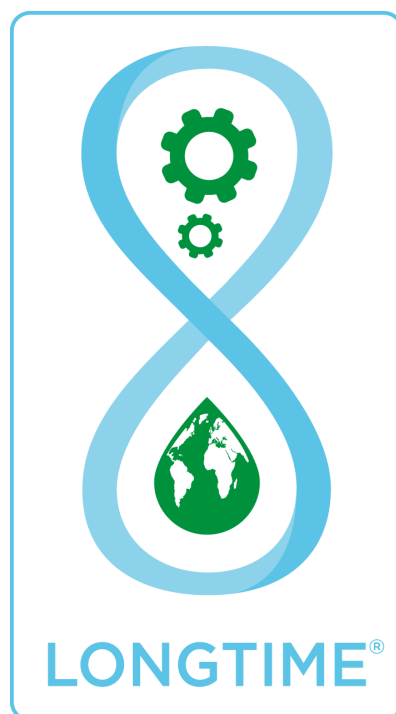




Certification standard

Pressure cooker

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I. GENERAL INFORMATION

Based on the EN45550 series of standards, and consistent with EN45552 and EN45554, the LONGTIME® specific standards specify elements relating to the study of the robustness, reliability and repairability of the associated product family.

All qualitative, semi-quantitative and quantitative data are derived from a research and consultation process, as required by current standards, and take into account bibliographical references (scientific studies, regulations, standards, etc.) and all stakeholders involved.) and all stakeholders, i.e.: marketers (manufacturers, importers, distributors), their suppliers and/or subcontractors, product experts (repairers, installers, professional testers), spare parts professionals, reconditioners, consumers, consumer associations, environmental associations and any other stakeholder who can contribute, subject to added value and the availability of networks and information.

LONGTIME® vision

This project is part of a dynamic social movement, with the aim of moving ahead of regulations. This label is made by citizens, for citizens. It provides the certainty that the product bearing the label is manufactured for long-term use, as desired by the majority of consumers, and that it is economically repairable.

LONGTIME® is a simple, powerful and effective tool, designed to inform consumers who are concerned about the overall impact of their purchases, as well as those who wish to acquire a product with a fair longevity/price ratio. It also aims to put the spotlight on manufacturers keen to offer products with an optimized lifespan.

Label objectives

The aim is to encourage a different kind of consumption, with a view to producing differently. Virtually all citizens would like to see a transformation of the consumer society, with a real paradigm shift in technical and economic thinking, in order to consume better and more sustainably.

As studies « [Modélisation et évaluation environnementale de produits de consommation et biens d'équipement](#) » and « [Évaluation environnementale et économique de l'allongement de la durée d'usage de biens d'équipements électriques et électroniques à l'échelle d'un foyer](#) » from the Agence De l'Environnement et de la Maîtrise de l'Énergie Française (ADEME) show, the ecological interest is major: in the space of a few decades, we have multiplied our consumption of raw materials to over 60 billion tonnes a year.

The label helps to preserve the planet's resources by making better use of them and reducing waste.

Intuitively, then, buying a product with an optimized lifespan encourages the rational use of our planet's resources, reduces over-consumption and helps us to move away from disposable and wasteful products. It's not a question of looking for "immortal" products, but rather of fighting against the short lifespan of products.

Impact of durability of Pressure cooker

Under the functional unit of "cooking 2,500 meal-portions over 10 years", extending the service life of a pressure cooker mechanically reduces the environmental impact per meal by spreading the fixed contributions from the manufacturing and end-of-life phases over a greater number of services rendered.

For this type of cooking appliance with a low electronic component, multi-indicator analyses show that the dominant life cycle phases are generally usage (cooking energy supplied by the hob: gas, induction, or ceramic glass) and the production of raw materials/components (metals and plastics), with distribution also playing a non-negligible role depending on supply chains.

In terms of impact, the typical contributing factors to climate change, acidification and respiratory effects include cooking energy (with different profiles depending on the energy source – gas or electricity via induction/glass-ceramic), the production of metals (steel, copper) and plastics (PS, PU, ABS), as well as transport (maritime and road). Notably, steel recycling at end-of-life provides significant avoided impacts. These profiles are consistent with observations for similar household electrical and electronic equipment (with low electronic content).

As regards cumulative energy demand (CED), usage is generally the main contributor, highlighting the value of good usage practices (minimal water volume, batch cooking, early shut-off after reaching pressure). Depending on the energy source used by the hob, contributions vary: for induction/glass-ceramic, the specific features of the French electricity mix mean that electricity mainly affects CED (and proportionally less in terms of GHGs/acids); for gas, results depend on the upstream mix of the fuel.

Consequently, extending the service life of a pressure cooker—particularly through the reliability of high-stress components (locking mechanism, handles, heat-diffusing base), the availability/replacement of seals, and repair options (safety parts, valves)—has a direct positive effect on impact per meal. ADEME findings further show that usage frequency (intensity of use) is a key factor: for the same total service delivered, more intensive use significantly reduces impacts per service unit (amortisation effect), which supports the use of a functional unit expressed in meals served.

Fields of application

The label applies to various product categories, provided they consist of an assembly of parts. LONGTIME® aims to cover household appliances, electronic devices, portable electrical tools, furniture, leisure equipment, and professional equipment. The range of products is therefore very broad, but excludes complex technological sectors (such as automotive and aerospace), textile products (except leather goods), foodstuffs, cosmetics, and chemical products.

Reference system organization

The criteria are broken down into 3 main families and grouped into 9 categories. The criteria are presented as follows:

Criteria category
Criteria subcategory

1. Criteria number and name

Each criterion is identified by a number and a name corresponding to its specific theme. In all, there are 38 criteria.

Time marker (Associated with each criterion Cf table below)

Criteria T0	These criteria must be met to qualify for certification after the initial audit (year N).
Criteria T1	These criteria must be met by at least 70% at the time of the audit. Corrective action will be taken to achieve 100% compliance by year N+1.

CROSS-CUTTING CRITERIA

Criterion applicable to all product categories

❖ Product Specific Requirement (PSR)

- Specific criterion whose scope is adapted to the product category of the standard.

Means of proof: Details of the means of proof required and/or relevant to the assessment of the criterion and its PSR.

Control system

Compliance with the standard's criteria is assessed by an independent, accredited inspection body.

Each criterion is assessed according to a compliant/non-compliant approach. Assessment of compliance with the criteria is carried out by an approved, independent inspection body, using auditors who must be qualified by the label manager and who have received initial training in the entire LONGTIME® programme in order to ensure efficient control.

For more details on the control system used in the labeling process, click here:

<https://www.longtimelabel.com/conditionslongtime>

Standards and regulations

The standards and regulations cited in the standard are based on the most recent versions and/or equivalents published in the Official Journal of the European Union.

General mode of proof

A series of documents and administrative procedures are useful for establishing proof of compliance with various criteria:

- › Visual inspection by mandated third-party auditor during in-situ audit
- › All European legislation applicable to the product family, in particular: technical specifications referred to in article 12, paragraph 5 of the [REGULATION \(UE\) 2017/1369](#) present in the European Commission's product conformity database (CE marking database), EMC, ROHS, WEEE, machine safety directives
- › Technical specifications for components, materials, coatings and internal or supplier processes
- › Quality certification and type 1 or 2 label (Iso 9001, Iso 14001)
- › Quality assurance
- › Test data
- › After-sales service data
- › Any documentation/software to support compliance, such as :
 - › Internal product data sheet
 - › Functional analysis tool
 - › Design study (function, materials, usage constraints)
 - › Performance and endurance testing
 - › Qualification phase and test
 - › Failure rate study
 - › Operating instructions
 - › Maintenance manual
- › Terms and conditions of sale

II. PRODUCT SCOPE DEFINITION

This standard applies to mechanical pressure cookers for domestic use, also known as "cocottes-minute". These cooking appliances enable high-temperature pressure cooking, reducing food cooking time compared to traditional methods. They are designed to operate on external heat sources such as gas, electric, ceramic glass or induction hobs.

The pressure cookers covered consist of a metal pot with a hermetically sealed lid, featuring a mechanical locking system, a pressure regulation device, and one or more safety mechanisms (valve, gasket, etc.). The standard applies to products generally ranging in capacity from 2 to 25 litres, with a regulation pressure between 4 kPa and 150 kPa. It only applies to non-self-powered models (i.e. with no built-in heat source or electronic components).

Product scope

- Domestic pressure cookers ≤ 25 L with external energy source (gas or electricity) and regulation pressure of 4–150 kPa

Outside product scope

- Electric pressure cookers (with integrated heating system)
- Multicookers / cooking robots
- Electric slow cookers
- Appliances > 25 L or intended for collective catering

In the remainder of the standard, “**Domestic pressure cookers ≤ 25 L...**” is referred to as “**Pressure cookers**”.

III. NOMENCLATURE OF PARTS

This chapter details a typical nomenclature, representative of the target product group but not exhaustive. The various parts present in the BOM will then be prioritized by type of part.

- › **Main Pot Assembly**
 - › Pot body
 - › Heat-diffusing base / tri-ply base
 - › Base-to-body junction ring (if present)
 - › Side handles of the pot
 - › Non-slip feet or pads (if present)
- › **Lid and Locking System Assembly**
 - › Lid (main metal structure)
 - › Lid handle
 - › Locking system (mechanical)
 - › Locking rod or mechanism (spring, cam, shaft, etc.)
 - › Lid sealing gasket
- › **Pressure Regulation Devices Assembly**
 - › Operating valve (or pressure regulator)
 - › Safety valve / overpressure release valve
 - › Pressure indicator (rod, piston, or colour marker)
 - › Safety device preventing opening under pressure
- › **Cooking Accessories Assembly**
 - › Steaming basket
 - › Basket support (or trivet)
 - › Rack or perforated tray
 - › Timer

IV. PRIORITIZATION BY PARTY CATEGORY

Product housing

This covers all the parts used to protect the product's internal components from the outside world.

- › **Not identified according to the LONGTIME® reference system definition**

Functional parts

Parts related to the operation or use of the product without additional features.

- › **Main Pot Assembly**
 - › Pot body (main vessel)
 - › Heat-diffusing base / tri-ply base
 - › Base-to-body junction ring (if present)

Priority parts

Parts that are functional but critical in the event of malfunction or breakdown (sometimes called critical parts).

- › **Lid and Locking System Assembly**
 - › Lid (main metal structure)
 - › Lid handle
 - › Locking system (mechanical)
 - › Locking rod or mechanism (spring, cam, shaft, etc.)
 - › Lid sealing gasket
 - › Pressure sensor
 - › Temperature sensor
 - › Timer module
- › **Pressure Regulation Devices Assembly**
 - › Operating valve (or pressure regulator)
 - › Safety valve / overpressure release valve
 - › Pressure indicator (rod, piston, or colour marker)
 - › Safety device preventing opening under pressure

Vulnerable parts

Parts exposed to a high rate of accidental user breakage.

- › **Lid and Locking System Assembly**
 - › Lid handle
- › **Main Pot Assembly**
 - › Side handle(s) of the pot (short or long)

Consumable or maintenance parts

Consumable parts are those parts that need to be replaced more or less frequently, depending on the pattern of deterioration over the product's lifetime. Maintenance parts require regular servicing to keep the product in optimum working order.

- › **Lid and Locking System Assembly**
 - › Lid sealing gasket

Aesthetic parts or accessories

Aesthetic parts that do not interfere with product operation. Elements that may be useful for the operation of an object or for adding additional functions without being part of it.

- › **Cooking Accessories Assembly**
 - › Steaming basket
 - › Basket support (or trivet)
 - › Rack or perforated tray
 - › Timer

V. CLASS OF REPARABILITY CRITERIA

1. Class system

The criteria in the "Repairability" family use a system of classes to prioritize the level of requirement for each type of part.

These classes range from A to E.

Class A represents best practice in reparability. The lower classes (B, C, up to D or E) reflect a decreasing level of relevance of practices, but should always be considered in relation to market practices.

The definition of classes is the subject of a study for each repository, in order to identify best market practices.

2. Disassembly depth of parts

The dismantling step count starts when the safety conditions for the user are met. A step is an operation leading to the removal of a part or a tool change. Example:

- › Remove cover by sliding with hand = 1 step
- › Remove cover by unscrewing 4 Phillips screws = 1 step
- › Remove cover by unscrewing 2 Phillips and 2 Torx screws = 2 steps

VI. EXPOSURE TO EXOGENOUS FAILURES

Definition

An exogenous failure refers to a defect or problem in the manufactured product that occurs due to external factors or conditions beyond the control of the manufacturer or producer.

As opposed to an endogenous failure, which is linked to internal problems (design, manufacturing, quality), an exogenous failure is generally the result of unforeseeable external circumstances (e.g. extreme environmental conditions, transport accidents, inappropriate handling by the end-user, component failures from third-party suppliers, etc.).

Managing exogenous failures in product manufacturing may involve implementing quality control measures, rigorous testing, supply chain management, warranties and return policies to deal with problems that may arise due to these external factors.

Exogenous failure criteria

User risk:

Reflects the ability to respect conditions of use in the face of the weight of the constraints of use.

Associated levels:

- **Low:** the user scrupulously respects the product's rules of use, particularly for quality and safety reasons.
- **Medium:** the user generally respects the product's rules of use
- **High:** the user rarely respects the product's rules of use

Product handling:

Reflects the possibility of false handling, shocks, falls.

Associated levels :

- **Low:** Not handled
- **Medium:** Handling without moving or dismantling
- **High:** Handling with moving or dismantling

Weather exposure:

Refers to exposure to rain, hail, frost, wind, sand, lightning, dust, salt spray...

Associated levels:

- **Low:** No exposure (indoors)
- **Medium:** Indirect exposure (hold, station concourse)
- **High:** Direct exposure (outdoors)

Definition of the different phases

- **Commissioning:** initial phase including unpacking, optional reading of the user manual, assembly of removable components (gasket, valve), first cleaning and first use.

- **Cooking:** phase during which the pressure cooker is used to cook food under pressure on a heat source (electric, gas, induction hob, etc.), including operations such as turning off the heat, depressurising (natural or manual), opening the lid, and serving the food.
- **Maintenance:** cleaning after each use (pot, lid, gasket, valve, etc.), and checking the condition of the gasket or safety devices.
- **Storage:** period between two uses, when the pressure cooker is stored in a cupboard or storage area.

Phase	User risk	Product handling	Weather exposure	Overall risk
Commissioning	Medium	Low	Low	Low
Cooking	High	High	Low	Medium
Maintenance	Medium	Medium	Low	Medium
Storage	Low	Low	Low	Low

Assessment of the overall risk of exogenous failure:

MEDIUM

This product category is subject to a relatively high risk of external failures. Overall, the highest external risks are concentrated in the use and post-cooking phases, in connection with the use of pressure and the thermal management of the product.

VII. LABEL CRITERIA

Reliability
Conception

1. Stress resistance

T0 Criteria

The producer identifies the functions of the product and its components, as well as the associated critical use constraints. He demonstrates sustainable design choices, optimized by reliability and/or repairability strategies.

Mode of proof : General mode of proof supplemented by a set of data appropriate to the sub-criteria, including the application of product-related test standards: (This list of proof methods is representative but not exhaustive. It is not required to have all these modes of proof in order to comply with the criteria; they are merely indications)

- *In-warranty and out-of-warranty failure rates: The product must demonstrate failure rates below the industry average.*
- *Accelerated life testing. As the duration of the test is limited, scientific and robust projection calculations (acceleration factor) are used to extrapolate the results to the product's maximum total lifetime, demonstrating resistance to stress above the market sector average.*
- *The methodologies used can be based on general standards, on mandatory standards linked to safety directives and including elements of resistance to stress in use, or on voluntary standards.*
 - *EN 45552: General method for assessing the durability of energy-related products*
 - *EN 60721 : Classification of environmental conditions*
 - *IEC 60605 : Reliability testing of equipment*
 - *IEC 61123 : Reliability testing - Compliance test plans for pass rate*
 - *EN 61124 : Reliability testing - Compliance test plans for constant failure rate and constant failure intensity*
 - *EN 61649: Weibull analysis*
 - *EN 62506: Accelerated product test methods.*

- ❖ Compliance with all criteria of standard EN 12778 - Pressure cookers for domestic use, regardless of place of manufacture and distribution.

Mode of proof: Third-party report or certification demonstrating that the product complies with all the requirements of standard EN 12778 - Pressure cookers for domestic use.

❖ Resistance to mechanical stress

- Resistance of materials and parts exposed to impact: When filled to 30% of its capacity, the product does not exhibit any major malfunctions (leaks, irreversible deformation) or safety issues after a series of three drops from a height of 90 cm onto the bottom, side and handle (the most exposed part) on a concrete surface.
 - No permanent deformation > 2 mm visible to the naked eye,
 - No alteration to the locking or security system,
 - No leakage after filling.

Mode of proof: Drop test report representative of use and conclusive according to standardised tests proving the robustness of impact-sensitive parts:

- EN 62262 and/or EN 60068-2-31 Shock due to rough handling
- IZOD or Charpy impact strength tests

- Load resistance of handling elements
 - Handling elements must withstand a vertical load of 15 kg for 30 seconds without breaking, cracking, loosening or deforming by more than 2 mm.

Mode of proof: EN 12778 - Pressure cookers for domestic use §5.4

- Wear resistance of the opening/closing mechanism (cams, latches, locking system) over ≥ 1000 complete cycles, with retention of nominal characteristics.
 - Lateral or axial play ≤ 0.5 mm between the mechanism's moving parts
 - No breakage, visible cracks or loss of functional components (spring, shaft, cam, etc.)
 - Maximum increase in locking force $< 10\%$
 - No degradation of the gasket or contact surfaces
 - No alteration of locking or sealing performance

Mode of proof: Conclusive test report, based on a rate of 6 to 10 cycles/min at room temperature.

- Resistance of the internal cooking surface to wear from friction, impacts and scratches
 - After $\geq 10,000$ Taber Abraser cycles, mass or thickness loss must be $< 10\%$
 - No permanent scratch visible to the naked eye after application of a Mohs hardness level 6 tool
 - Resistance to an impact of ≥ 2.5 J without alteration of the cooking surface, and without cracking or detachment
 - Cooking surface rated GT0 in cross-cut adhesion test

Mode of proof:

- Abrasion: Test report in accordance with ISO 5470-1 (Coatings - Determination of abrasion resistance - Taber method) using an H-18 wheel, load 1 kg per arm, speed 60 rpm or stainless steel cup.
- Scratch resistance: Test report in accordance with ISO 15184 (pencil test)
- Impact: Test report in accordance with ISO 6272-1 Rapid deformation tests (impact resistance) with a 500 g ball, drop height of 50 cm and 3 impacts on separate areas.
- Adhesion: Conclusive test report according to ISO 2409 Cross-cut test

❖ **Resistance to thermal stresses**

- Resistance of the pot to at least 5 thermal shocks
 - No loss of structural integrity of the pot
 - No separation between the base and the pot body

Mode of proof: Test on empty tank, heated to at least 350°C and then rapidly cooled by immersion in water at room temperature.

- Seals must retain their mechanical properties after thermal ageing for 96 hours at 125°C.

Mode of proof: Test in accordance with ISO 188 (heat ageing of elastomers).

◆ **Resistance to liquids and oxidation**

- Resistance to oxidation and corrosion (tank)
 - Resistance of internal surfaces of the tank to 48 hours of exposure to neutral salt spray (NSS) without any red rust spots, corrosion pitting or delamination.
 - Resistance to electrochemical reactions in the presence of moisture and to galvanic corrosion of metal parts in contact with the tank
 - Measured corrosion current $< 10 \mu\text{A}/\text{cm}^2$
 - No traces of corrosion visible to the naked eye on the interfaces tested (pitting, delamination, red oxidation)

Mode of proof:

- *Test report carried out in accordance with ISO 9227 Corrosion tests in artificial atmospheres - Salt mists. Observation with the naked eye in diffused light after rinsing and standardised drying.*
- *Test report carried out in accordance with ASTM G71-81 - Evaluation of galvanic corrosion tests in a neutral electrolyte (5% $\pm$ 1 NaCl, pH 6.5–7) at 25° $\pm$ 2° for 48 hours. Observation with the naked eye in diffused light after rinsing and standardised drying.*
- Resistance to oxidation or embrittlement due to condensation or steam in screws, springs, rods, internal locking or regulating systems.
 - No red oxidation
 - No signs of mechanical weakening or loss of function

Mode of proof: Combined test report, with inspection between each phase. Test conditions in humid atmosphere according to ISO 6270-2 Condensation (exposure in chamber with heated water tank) and in salt spray according to ISO 9227 Corrosion tests in artificial atmospheres - Salt spray tests)

- The tank and lid are made exclusively from the following materials:
 - 18/10 stainless steel (AISI 304/316)
 - 18/8 stainless steel (equivalent to AISI 304)
 - Stainless steel/aluminium/stainless steel multilayer, provided that the aluminium is completely encapsulated and not exposed to fluids.

Mode of proof:

- *Manufacturer's declaration accompanied by a type 3.1 material certificate_EN 10204 standard;*
- *Spectrometric analysis of a finished product.*
- Resistance of external or internal coatings applied for corrosion protection, even in the event of micro-scratches
 - No blistering or peeling around the scratch
 - No red corrosion visible beyond 2 mm on either side of the scratch.

Mode of proof: Conclusive oxidation resistance test report with scratch test according to ISO 1518-1 (conical diamond tip $\varnothing$ 0.5 mm, load 10 N, length 30 mm, down to the substrate) followed by a 48-hour corrosion test according to ISO 9227 in neutral salt spray NSS (NaCl

5% $\pm$ 1, pH 6.5–7.2, T° 35 $^{\circ}\text{C} \pm 2$, flow rate 1–2 mL/h over 80 cm²). Observation after rinsing and drying, with the naked eye in diffuse light.

- Resistance of exterior and interior surfaces, handles and metal-plastic interfaces without showing any deterioration (oxidation, corrosion, staining or aesthetic degradation) after 80 complete dishwasher cycles at 65°C (standard detergent).

Mode of proof: Test report conclusive according to standard EN 12875-1 Resistance to mechanical washing of utensils. Complete cycles carried out at a temperature of 65°C with standardised detergent.

Production

2. Production line

T0 Criteria

The manufacturer has the processes in place to control and maintain consistently high manufacturing and assembly quality during the production phase.

- ❖ The main site(s) involved in the production of the product is/are certified to an international quality management standard.
 - Site involved in the manufacturing of the pot: ISO 9001 certified
 - Site involved in the manufacturing of safety components: ISO 9001 certified
 - Site involved in the manufacturing of the sealing gasket: ISO 9001 certified

Mode of proof: For companies with more than 250 employees and for subsystems identified in PSR (in the case of subcontracting), ISO9001 certification is in place, issued by an accredited 3rd party. If not, annual inspection demonstrating compliance with ISO 9001 principles by verification of quality procedures or equivalence with other certifications is needed.

3. Logistics

T0 Criteria

The manufacturer reduces risks to the reliability of components and assemblies through efficient quality processes for managing supply, packaging, storage, handling and transport conditions.

- ❖ Inventory control and management
 - The condition of products in stock and processable materials is regularly monitored, with dedicated processes to check and estimate unloading time, the date of manufacture and mode of transport (unique identifier).
 - Periodic inventories are carried out, and in the event of non-compliance, a reminder is systematically sent out. The conformity of items and materials in stock is clearly identified, and non-compliant products are placed in dedicated areas.
 - Storage conditions for articles and materials are measured and controlled continuously or periodically, with specifications and control limits validated by an independent authority.

- ❖ Handling and transport procedures
 - Specific handling procedures are defined and controlled to avoid any deterioration of the product during delivery, handling and transport.
 - Handling, storage, packaging and preservation conditions are codified, including considerations of shelf life, sensitivity to stress, and product hazard.
- ❖ Product traceability and protection
 - Exhaustive traceability makes it possible to identify and know the history of the product, including the components and documentation associated with its life cycle.
 - Genuine conformity checks on finished products are carried out before they are put into storage, and are formally described and validated by an independent authority.

General mode of proof

4. Supply chain

T0 Criteria

Within its value chain, the producer details the performance of its quality management linked to the reliability of its suppliers' goods or services in direct relation to its manufacturing phases.

- ❖ Particular attention will be paid to the following elements:
 - Sealing gaskets (third-party quality certification required)
 - Tank (third-party quality certification required)
 - Safety components (third-party quality certification required)

Mode of proof: For companies with more than 250 employees and for subsystems identified in PSR (in the case of subcontracting), ISO9001 certification is in place, issued by an accredited 3rd party. If not, annual inspection demonstrating compliance with ISO 9001 principles by verification of quality procedures or equivalence with other certifications is needed.

Quality control

5. Reliability plan

T0 Criteria

The producer provides a history of product versions and identifies the changes implemented to improve product durability.

- ❖ The manufacturer is able to demonstrate the following points:
 - Identification and monitoring of failures by the technical departments of the manufacturer or its subsidiaries, with supporting statistics
 - Documented reporting of failures according to structured and systematic processes to central departments (Technical/Quality/R&D)
 - Handling and processing of reports by R&D departments, with concrete modifications made to products to constantly improve their reliability and durability.

- Tracking of modifications made, and for major modifications involving the product's primary function : statistical measurement of their impact to attest to the effectiveness of the improvements made.

Mode of proof: demonstration of quality management to the appointed inspection body during the on-site audit.

6. Breakthrough technology

T0 Criteria

The manufacturer provides information on the share of breakthrough technology embodied in the product, and identifies the functions associated with it. He demonstrates the reliability of this technology, all the more so if it concerns a primary function. This applies to both hardware and software innovations.

General mode of proof

7. Breakdown rate

T1 Criteria

The producer tracks actual failure rates and/or indicators by product part in order to monitor product reliability at least until the last unit of the model concerned has been put on the market.

❖ Particular attention will be paid to the following failures:

- Mechanical failure
 - Locking system

General mode of proof

User information

8. Product identification

T0 Criteria

The producer uses a method that allows unequivocal identification of the product and its version by interested parties in order to maximize maintenance and failure management processes.

General mode of proof

9. Completeness of usage information

T0 Criteria

The manufacturer publishes a [manual](#) detailing the product's use and care instructions, and provides the user with a maintenance plan. This information, which is also available online, must be exhaustive and relevant in order to reduce exogenous failure rates and encourage responsible use.

- ❖ The manufacturer clearly informs the user of the scenario(s) of use that will enable the energy consumption of the electrical appliance to be reduced as much as possible and explains the differences in consumption between the different modes of operation if necessary (ready for use, deep standby, complete shutdown, etc.).
- ❖ The manufacturer clearly informs the user how to properly maintain his product, providing the following information:
 - Cleaning the product
 - Maintenance

General mode of proof

10. Usage information format

T1 Criteria

The manufacturer publishes a clear, simple and accessible user and maintenance [manual](#) (font size, vocabulary, language and print quality), so that it can be easily understood by end-users.

- ❖ The service manual should be available for anyone to read, free of charge.
- ❖ Instructions for replacing the seal must be accessible to everyone, free of charge, online for 10 years.

General mode of proof

11. Prolonged immobilization

T0 Criteria

The manufacturer identifies the risks of failure associated with prolonged product downtime. He informs the end user of the conditions of use necessary to prevent these risks.

- ❖ Not Applicable

General mode of proof

Repairability

Technical repairability

12. Disassembly of parts

T0 Criteria

The disassembly depth is adapted to the category of product parts and the disassembly time is consistent with the type of profile normally capable of carrying out the process.

- Class A: ≤ 3 steps and less than 3 minutes
- Class B: between 3 and 5 steps and less than 5 minutes
- Class C: between 6 and 8 steps and less than 10 minutes
- Class D: between 9 and 12 steps and less than 15 minutes

Types of parts	Class
Functional	B
Priority	B
Vulnerable	B
Consumable	A

General mode of proof

13. Part fasteners and connectors

T0 Criteria

Fasteners and connectors have removability and reusability characteristics appropriate to the category of product parts. A system is in place for locating these non-visible fasteners.

- Class A : Removable and reusable
- Class B : Removable but non reusable
- Class C : Neither removable nor reusable

Types of parts	Class
Functional	B
Priority	B
Vulnerable	A
Consumable	A

General mode of proof

14. Tools

T0 Criteria

The tools required for repair and/or disassembly must be suitable for the category of product parts.

- Class A: repairs feasible without the use of tools, with tools supplied or with [General-purpose tools](#)
- Class B: repairs feasible with tools specific to the product family
- Class C: repairs feasible with other commercially available tools
- Class D: repairs feasible with proprietary tools
- Class E: repair not feasible with any existing tool

Types of parts	Class
Functional	A
Priority	A
Vulnerable	A
Consumable	A

- ❖ Tolerance allowed for proprietary tools supplied or loaned on request, at no extra cost, with spare part.

General mode of proof

15. Working environment

T0 Criteria

Product-specific repair scenarios are carried out in a working environment adapted to the product part category.

- Class A: use environment
- Class B: workshop environment
- Class C: production environment

Types of parts	Class
Functional	A
Priority	A
Vulnerable	A
Consumable	A

General mode of proof

16. Competence level

T1 Criteria

The level of technical skill required to carry out a repair is consistent with the category of parties involved.

- Class A: Novice skills
- Class B: Generalist skills
- Class C: Expert skills
- Class D: Manufacturer or approved expert
- Class E: Impossible to achieve with existing skills

Types of parts	Class
Functional	B
Priority	B
Vulnerable	A
Consumable	A

General mode of proof

17. Spare parts interface

T0 Criteria

The various parts of the product and their connection interfaces are standardized to meet the reparability expectations of the product family.

- Class A: Standard part with standard interface
- Class B: Standard or proprietary part with standard interface
- Class C: Proprietary part with non-standard interface

Types of parts	Class
Functional	B
Priority	B
Vulnerable	B
Consumable	B

- ❖ Replacement [parts](#) need to be compatible from a technological specification perspective to function properly and it must not play a role if the part is new or reused and if it is from the original manufacturer or a 3rd party.

General mode of proof

Organizational reparability

18. Spare parts availability time

T0 Criteria

The availability time for spare parts is at least equal to the expected service life of the product category and its individual parts. The availability period is measured from the time the last unit of the model concerned is put on the market.

- Class A: Long-term accessibility - minimum 15 years
- Class B: Medium-term accessibility - minimum 10 years
- Class C: Accessibilité à court terme (3 years)
- Class D: No information on the duration of accessibility or minimum 2 years

Types of parts	Class
Functional	A
Priority	A
Vulnerable	A
Consumable	A

- ❖ In the event that a replacement part is not available from the manufacturer or his distribution network, the manufacturer shall clearly provide the user, via the documentation made available to him, with the information and/or characteristics of the parts enabling him to use instead an adaptable or compatible replacement part available on the market for a period at least equal to that specified in the above table.

General mode of proof

19. Accessibility of spare parts to target audiences

T1 Criteria

The producer ensures the availability of spare parts for the target groups normally suited to the category of parts..

- Class A: Accessible to end users
- Class B: Accessible to independent repair service providers
- Class C: Accessible to service providers approved by the manufacturer
- Class D: Accessible only to the manufacturer

Types of parts	Class
Functional	B
Priority	B
Vulnerable	B
Consumable	A

- ❖ The spare parts and the procedure for ordering them shall be publicly available on the free access website of the manufacturer, until the end of the period of availability of these spare parts.

General mode of proof

20. Terms and conditions for the sale of spare parts

T1 Criteria

The manufacturer details the terms of sale of its spare parts. They reflect the product nomenclature and are not sold as a group, unless justified by coherent and verifiable design, calibration and/or economic reasons.

- ❖ Particular attention will be paid to items in the following categories:
 - Priority parts
 - Vulnerable parts
 - Consumable parts

General mode of proof

21. Spare parts prices

T1 Criteria

The value of a spare part may not exceed a maximum percentage of the recommended selling price excluding VAT. A tolerance is allowed for parts whose PRU exceeds the specified percentage.

- ❖ Maximum percentage of the [price](#) of one of the parts in relation to the price of the product : 20%.
- ❖ The manufacturer studies and clearly proposes to the user, through the information medium of his choice, repair scenarios enabling repair costs to be limited to 25%, including VAT, potential shipping costs, spare part and working time of repairer.
These scenarios apply in the event of the failure of a single part.

General mode of proof

22. Shipping costs for spare parts

T1 Criteria

The producer delivers the spare parts at the actual cost of shipping and preparation, or offers alternative solutions that reduce the cost of receiving the parts.

General mode of proof

23. Spare parts delivery times

T1 Criteria

The manufacturer demonstrates its ability to supply spare parts to interested parties within 5 working days.

General mode of proof

24. Documentation of failure scenarios

T1 Criteria

The manufacturer makes available relevant information and instructions for resolving failure scenarios and/or implementing the maintenance plan.

These are also adapted to the product category and target audience groups. The minimum duration of information availability is specified below.

- Class A = Accessible to all without restriction
- Class B = Accessible to independent repair service providers
- Class C = Accessible to repair service providers authorised by the manufacturer
- Class D = Accessible to the manufacturer only

Documentation	Class	Documentation availability time
Disassembly diagrams, reassembly diagrams if necessary, or exploded views	A	10 years
Instructions for replacing seals	A	10 years
A technical manual with instructions on how to resolve failure scenarios	A	10 years
A list of necessary repair and testing equipment	A	10 years
Information concerning components and diagnostics (such as minimum and maximum theoretical values for measurements or tightening torques)	B	10 years
Technical bulletins	B	10 years
Instructions on how to contact customer service and specific contacts associated with it	A	10 years
Information on spare parts prices	A	10 years

General mode of proof

25. Support for fault diagnosis

T0 Criteria

The producer communicates information and/or deploys diagnostic support mechanisms to help identify failure scenarios.

- Class A = Intuitive interface
- Class B = Coded interface with public reference table
- Class C = publicly accessible hardware/software interface
- Class D = Proprietary interface
- Class E = Impossible, whatever the type of interface

❖ Class A : Diagnostic support system with intuitive or coded interface and public access to the reference table.

OR

The sales website of the product's manufacturer or distribution partners features a fault-tree diagnostic interface.

Scalability

26. Reset settings and passwords

T0 Criteria

In the event of repair or transfer to a third party, the product's user data management processes enable secure, high-performance reuse.

- Class A = Integrated reset
- Class B = External reset
- Class C = Service reset
- Class D = No reset

❖ Not applicable

General mode of proof

27. Software

T0 Criteria

The manufacturer ensures that the original performance of its product is maintained when updating the operating system and/or firmware, and differentiates between evolutionary and [corrective updates](#). Users are informed of the consequences of updates, and their consent is required.

❖ Not applicable

General mode of proof

Quality of after-sales service

28. Internal failure resolution policy

T1 Criteria

In the event of product failure, the manufacturer pursues a policy of repair or reconditioning rather than replacement, unless repair is more expensive than replacement, taking into account the wishes of users.

General mode of proof

29. Service contact

T1 Criteria

The producer demonstrates that the opening of an after-sales service file does not exceed 2 working days and that the average time taken to resolve the file encourages repairs.

❖ Given the type of product family, the maximum lead time is 24 hours.

General mode of proof

30. Return services

T0 Criteria

The manufacturer provides end-users with return services adapted to the product category and consistent with its distribution network, regardless of the status of warranties.

- Class A = Complete return options
- Class B = Basic return options
- Class C = No return option

- ❖ Class B: Basic return service with minimum return conditions by post or distribution/collection point

General mode of proof

31. Return condition

T0 Criteria

The return of the original packaging cannot be demanded for the repair of the product, as long as it is packaged and protected as much as it could have been at the time of purchase.

General mode of proof

32. Useful product

T1 Criteria

In its network, and for product categories considered "highly useful", the manufacturer minimizes the repair process time until the product is returned to the end-user.

- ❖ Not applicable

General mode of proof

33. Warranty time

T0 Criteria

The warranty period with presumed anteriority of defect may not be less than 24 months.

- ❖ Minimum 3-year warranty.

General mode of proof

34. Warranty exclusions

T0 Criteria

In its general warranty conditions, the manufacturer does not introduce any abusive exclusion(s) with regard to the normal use of the product.

Examples of abusive exclusions identified:

- Surface micro-scratch
- Food waste

General mode of proof

Lifecycle

Sustainability

By having a type 1 ecolabel certification for its product, the manufacturer automatically validates compliance with all the Life cycle category criteria.

Mode of proof: Type 1 certification to ISO 14024 from the list below

- Blue Angel
- Eco-rating
- Ecolabel Européen

35. Health, safety and environmental protection

T0 Criteria

With regard to human health, the safety of people and installations, and environmental protection, the manufacturer proves that it is taking action at a level that complies at least with the requirements of European directives 2011/65/EU and (EC) No 1907/2006 on the restriction of the use of certain hazardous substances in equipment, and/or action to preserve the ecosystems that are most affected.

Mode of proof: For products distributed in geographical areas potentially covered by regulatory prerogatives establishing requirements similar to the European market in terms of limiting the use of certain hazardous substances in EEE, proof of compliance with these regulatory requirements will be used as a method of proof in compliance with the RSPs of this criterion if necessary.

- ❖ For large companies (with more than 5,000 employees), the main site(s) involved in the product's manufacturing must hold a certification in accordance with an international environmental management standard.

Mode of proof: ISO 14001 certification issued by an accredited third-party inspection body.

- ❖ The raw material supplier(s) (foundry, rolling mill) must hold third-party certification related to an environmental management system.

Mode of proof: ISO 14001, EMAS or other equivalent internationally recognised certification

- ❖ The materials of pressure cookers intended to come into direct or indirect contact with foodstuffs, including water, are compatible with food use and comply at least with Regulation (EC) No 1935/2004.

Mode of proof: EC type examination certificate issued by a notified body

- ❖ The product has been awarded a food safety certificate by a third-party inspection body. Particular attention will be paid to:
 - The pot and its gasket
 - The plastic components

Mode of proof: Certificat d'alimentarité délivrée par un organisme tierce partie.

- ❖ Life Cycle Assessment (LCA) : The characteristics of the product and the manufacturer's practices result in a minimum **class D** among the classes listed below.

Requirements	Class					
	A	B	C	D	E	F
The product's LCA is critically reviewed by a third party. The review report must include at least : - The number of years of experience in the field of LCA/PCF - Number of carbon footprints reviewed - Number of carbon footprints completed	x					
The product LCA is based on the specific product mode.	x	x				
The product LCA is based on the product's family of models, but not the specific product model			x	x	x	
The full LCA report including all assumptions is publicly available and based at least partially based on real material data (Full Material Declarations)	x	x	x			
Concrete actions are taken to reduce the impact of the most impacting phase(s) of the life cycle	x	x	x	x		

Mode of proof: LCA report produced by a qualified consultancy.

- ❖ The tank and lid contain at least 60% recycled material by weight.
- ❖ [Fair mined material and/or recycled material](#) : The characteristics of the product and the manufacturer's practices result in a minimum **class A** among the classes listed below.
 - Class A : 40% minimum of weight
 - Class B : 35% minimum of weight
 - Class C : 30% minimum of weight
 - Class D : 25% minimum of weight
 - Class E : 20% minimum of weight
 - Class F : <20% minimum of weight

Mode of proof: proof of origin of materials used to make the product

- ❖ At least 50% of the product's components are identical in design to those of other products from the same manufacturer and products in the same performance category and generation.

Mode of proof: Cross-reference table, spare parts catalogue, identical labelling or internal coding

- ❖ The product does not contain any substances classified as PFAS, including:
 - PTFE (polytetrafluoroethylene), including those referred to as "reinforced" or "fluoropolymer-based"
 - PFOA, PFOS, or any fluorinated derivative of the perfluorinated or polyfluorinated family,

- Recent alternative fluorinated substances (GenX, ADONA, etc.).

Mode of proof:

- REACH Declaration of Conformity (Regulation (EC) No 1907/2006), specifying the absence of PFAS in all components in contact with food or subject to heat.
- Technical data sheets or material certificates from suppliers (coating, sheet metal, anodising) indicating the absence of fluoropolymers

36. Energy and/or environmental performance

T0 Criteria

To reduce the impact of energy consumption or pollution emissions, the manufacturer demonstrates the environmental and/or energy performance of its products.

It proves that it is taking action at a level that complies, as a minimum, with the prerogatives of European directives and/or regulations :

- (EU) 2009/125/EC (including its implementing measures) on the eco-design of energy-related products
- (EU) 2017/1369 (including delegated regulations) on the energy labeling of products if the product claiming the LONGTIME® label is concerned
- ESPR - The Ecodesign for Sustainable Products Regulation (EU) 2024/1781

Mode of proof: for products distributed in geographical areas potentially covered by regulatory prerogatives establishing requirements for energy efficiency, eco-design and energy labelling similar to the European market, proof of compliance with these regulatory requirements will be used as a method of proof in compliance with the RSPs of this criterion if necessary.

General mode of proof

- ❖ The variety of materials used for plastic components with a function identical is limited to a single material.
- ❖ Components made from the same type of plastic are coloured uniformly or in compatible shades.
- ❖ The coating of plastic components is limited to the minimum technical level required. Galvanised coatings are not permitted.
- ❖ The products are compatible with all hobs, including induction hobs.

Mode of proof: Eco-design measures assessed by the notified body during the audit and supplemented by the documentation and technical specifications referred to in Article 12(5) of REGULATION (EU) 2017/1369, available in the European Commission's database on product compliance.

- ❖ Every final assembly plant manufacturing the product and with an annual energy consumption exceeding 1 GWh is ISO 50001 certified.
- or
- The company has a greenhouse gas (GHG) emissions reduction strategy that will enable a reduction of at least 35% in absolute scope 1 & 2 emissions by 2030 and is implementing

concrete measures relating to energy efficiency, energy conservation and the use of renewable energies.

Mode of proof:

- *Third-party ISO 50001 certification*
- *GHG score of 1, 2 or 3, compliant with ISO 14064 (e.g. Bilan Carbone®, GHG Protocol) less than 3 years old.*

37. Equipment end-of-life management

T0 Criteria

As part of the management of end-of-life equipment, the manufacturer proves that it deploys actions for the collection, recovery and effective treatment of used products according to a level of requirement that complies at least with the prerogatives of European directives 2012/19/EU of July 4, 2012 on waste prevention and treatment depending on the target product group.

- ❖ Identification of the materials of product parts that are mainly made of plastic and weigh more than 5 grams.

Mode of proof: compliance with ISO 11469 and ISO 1043-1-2-3-4 standards.

- ❖ Extended Producer Responsibility (EPR) and reuse, refurbishment and/or recycling of parts and products : the characteristics of the product and the manufacturer's practices result in a minimum **class B** among the classes listed below.

Class A	For the main markets (> 10% of sales of certified product) where certified products are sold, the brand owner provides a take back scheme which demonstrably promotes and puts into practice reuse and/or refurbishment of parts and products, as opposed to recycling only, while being legally compliant with applicable EPR regulations
Class B	For all markets where certified products are sold and where EPR regulations apply, the brand owner participates in accredited EPR schemes or provides a reuse/recycling scheme which fulfills the requirements to be exempted from participation in EPR schemes. In all markets without EPR regulations, the brand owner provides voluntarily a take back possibility involving accredited reuse/recycling facilities
Class C	For all markets where certified products are sold and where EPR regulations apply, the manufacturer participates in accredited EPR schemes or operates a reuse/recycling scheme which fulfills the requirements to be exempted from participation in EPR schemes (legal compliance)

Mode of proof: In geographic distribution areas covered by regulatory prerogatives establishing product collection and recycling requirements, proof of compliance with these regulatory requirements will be used as a method of proof in compliance with the RSPs of this criterion if necessary. Use of EPR and/or reuse/recycling facilities certified to internationally accredited standards (R2, e-Stewards, EN50625 or equivalent)

38. Packaging management

T1 Criteria

As part of the fight against waste production, the manufacturer is making efforts to eliminate the proportion of non-recyclable plastic waste from its packaging through :

- ❖ At least 95% of the weight of packaging waste consists of recycled and/or recyclable and/or reusable materials
- ❖ Manual separability of non-reusable and non-valorizable packaging components weighing more than 25 grams in a single component
- ❖ Product packaging must not contain lead (Pb), cadmium (Cd), mercury (Hg) or hexavalent chromium (Cr6).
- ❖ Plastic packaging material must not contain halogens bound to organic substances

Mode of proof: Composition and characterization of packaging.

VIII. TERMS, DEFINITIONS, CLARIFICATIONS

Depending on the sector, specific definitions for different product categories (parts, functions, etc.) may be added to the recurring definitions below.

Actual failure

Failure that is effectively linked to a malfunction of the product and not to an exogenous problem (e.g. unpowered socket, incorrectly connected power cable, poorly locked lid, etc.).

Adaptable or compatible spare part

These are parts that can be adapted to several models and brands of the same product, more or less faithful copies of original parts that are not manufactured to the original manufacturer's specifications and are not sold in the original manufacturers' packaging.

After-sales service file

An After Sales Service File is a record documenting the handling of a customer request or issue following the purchase of a product. It includes all relevant information about the customer interaction, the issue reported, steps taken to resolve it, and any communication between the customer and the company. In cases where customer support teams manage the initial contact, the file may be passed on to the after-sales service team for further handling when needed, ensuring that all necessary actions are taken to resolve the issue.

The response time for handling such requests does not exceed an average of duration described in [criteria 29](#). There may be flexibility for periods of high demand (e.g., during product launches or holidays) that are justifiable in relation to market practices.

An automated email confirming receipt of the request is not considered sufficient for compliance to [criteria 29](#).

AMDEC / FMEA

Tools for Failure Mode and Effect Analysis / Analyse des Modes de Défaillance, de leurs Effets et de leur Criticité.

Breakthrough technology

A technology that introduces a major advance over existing solutions or practices. It is distinguished by its significant impact on performance, functionality or efficiency, and can change standards or redefine an industry. Unlike incremental improvements, a breakthrough technology often disrupts the market or the field of application, offering substantial benefits or opening up new possibilities. This can apply to both hardware and software innovations.

Circular economy part (CEP)

PIEC are second-hand goods within the meaning of art. L. 321-1 of the French Commercial Code, and cannot be universally defined, but are defined on a case-by-case, sector-by-sector basis.

For the time being, CEIPs are defined in consumer law for the following sectors: automobiles, household appliances, electronics, motorized DIY and gardening tools, sports and leisure equipment and motorized personal transport devices.

For household electrical and electronic equipment, art. R. 224-30 code de la consommation states: "For the application of article L. 224-109, parts from the circular economy are understood to be components and elements resulting from an operation of preparation with a view to their reuse" where article 541.1.1 defines "preparation with a view to reuse" as any operation of control, cleaning or repair with a view to recovery by which substances, materials or products that have become waste are prepared in such a way as to be reused without any further operation.

Competence level

Solving a failure scenario may require skills such as the ability to identify and locate the failure, access the affected area in the product, handle the appropriate tools, and manage any risks associated with the product, the environment and the operator. Depending on the level of technical skill required to carry out the repair, several levels are defined:

- **Novice:** When no specific repair experience or qualifications are required to carry out the failure scenario resolution process.
- **Generalist:** When the resolution of a scenario is not achievable by a novice, but can be achieved by a person with general knowledge of basic repair techniques and necessary safety measures
- **Expert:** When a scenario cannot be solved by a novice or generalist, but can be solved by people with specific expertise or experience related to the product group in question.
- **Manufacturer:** When the resolution of a scenario is not feasible by a novice, generalist or expert, but can be performed by the manufacturer or a person specifically trained and accredited by the manufacturer.
- **Unfeasible:** When a scenario cannot be solved by any of the defined profiles.

Compostable packaging

Container designed with materials capable of decomposing naturally under the action of micro-organisms present in the composter to become a natural or organic component of the substrate.

Corrective update :

A corrective software update is a modification or set of modifications made to a software or operating system or functionality in order to correct defects, errors or malfunctions identified after it has been put into service. These corrections aim to restore or improve the correct operation of the product or system without introducing major new functionalities. It may include corrections relating to :

- Technical errors (bugs) in software
- Design errors or user biases
- Security flaws identified after deployment

This type of update is often distinct from an evolutionary update (which adds functionality) or a preventive update (which aims to anticipate future problems).

Criticality

The criticality of a failure refers to the importance or impact of this failure on the correct operation of a product. It is assessed on the basis of the severity of the consequences the failure could have, particularly in terms of safety/costs, and the frequency of occurrence.

Data management process

Refers to the set of practices and procedures put in place by an organization to collect, store, process, protect and manage the personal information of individuals using their products.

Disassembly depth

Corresponds to the sum of the steps required to access each part individually and to separate it from the equipment, with a view to its replacement.

Electrodomestic

Product powered by electrical energy and intended for domestic use only.

EOS

An acronym for Electrical Overstress, meaning an undesirable state of electrical overload that could lead to product damage or failure.

Expected service life

Period during which the user expects the product to perform as intended. This expected lifetime is defined on the basis of scientific literature and/or consumer surveys. When the data is not available or is insufficiently robust, the expected lifetime is defined by the author of the standard, based on the expertise of the LONGTIME® teams and its network.

Experienced tools

Tools that require skill to use and whose cost can be a barrier (torque wrench, soldering iron, etc.).

External source parts

Parts external to the manufacturer's production facility, sourced from an identified supplier.

Fair Mined Material

Fair Mined Material refers to raw materials used in the device for which the manufacturer can credibly demonstrate active efforts to improve at least one of the following aspects during the extraction stage: working conditions, workers' income, or environmental protection. This means that the manufacturer is committed to ethical practices by ensuring better labor conditions, fair compensation for workers, and/or implementing measures to minimize environmental impact in the sourcing of these materials.

Full Material Declarations

Full Material Declarations (FMD) in the context of a Product Life Cycle Assessment (LCA) refer to comprehensive and detailed disclosures of all materials and substances used in a product. This includes a complete list of every material, chemical, and component that makes up the product, along with relevant information about their quantities, sources, and potential environmental or health impacts.

General-purpose tools

Common, general-purpose tools available to the general public in standard distribution and as specified in the EN 45554 tool list: screwdrivers (slotted head, cross-head, 6-lobe internal screws), wrenches (hexagon socket, combination wrenches), pliers (universal, half-round nose, diagonal cutting, multi-socket, vice, for stripping and crimping terminals), pry bar, tweezers, steel-headed hammer, universal knife (cutting pliers with retractable blade), multimeter, voltage tester, soldering iron, glue gun, magnifying glass.

High-utility product

A product that is used very frequently and which, in the event of failure, causes a significant disruption to day-to-day management: refrigerator, washing machine, boiler/water heater, telephone, computer, hob, etc.

HS

Out of order; corresponds to the end of the functional state.

IOT

Internet of Things; this function refers to the ability to connect a product to the Internet for additional remote control and/or regulation functions.

Manual

Comprehensive guide or instructional resource that provides detailed information on how to use, operate, maintain, or assemble a product, system, or process. It can take various forms, including printed booklets, digital documents (such as PDFs), illustrated tutorials, or video instructions. Its purpose is to offer clear, step-by-step guidance to users, ensuring they can correctly and efficiently engage with the product or service it accompanies.

No use

Corresponds to a state of non-operation of the device.

Non-recyclable packaging

Packaging that cannot be effectively recovered, recycled or reused after use.

Non-recoverable packaging

Refers to a type of packaging that cannot be effectively recovered, recycled or reused after use.

O.S

Operating System is a set of programs that direct the use of a computer's resources by application software.

Permanent assembly

This is an assembly of components forming a single part or component of a product, which cannot be disassembled without destroying or altering its intended use.

To remove the connection between two assemblies or parts, it is necessary to deform, degrade or destroy at least one of the parts forming the assembly. Examples: welding, crimping, clinching, stamping, gluing and adhesives.

Primary data or information

Information directly measured or collected by the professional in one or more installations representative of the professional's activities.

Product/part unit cost price (PRU)

Understood as the sum of the price of the parts making up a product/of the components of a part.

Professional tools

Tools requiring special knowledge or conditions of use, and whose acquisition cost represents an investment.

Professional user

Means any natural or legal person, to whom a product has been made available for use in the course of their industrial or professional activities

Proprietary tool

A specific tool, not commercially available, belonging exclusively to one party or company, by virtue of which its use by another party (end user, customer, repairer) involves copyright, a license and/or a cost.

PSR

"Product Specific Requirement, corresponds to the criterion specifications applicable to the types of equipment specified within the scope of the standard.

Reconditioned part

A second-hand product or spare part, within the meaning of Article L. 321-1 of the French Commercial Code, may be qualified as a "reconditioned product" or be accompanied by the term "reconditioned", provided the following conditions are met:

- The product or spare part has undergone tests on all its functionalities in order to establish that it complies with legal safety requirements and the use to which the consumer can legitimately expect it to be put.
- If necessary, the product or spare part has undergone one or more operations to restore its functionality. This intervention includes the deletion of all data recorded or stored in connection with a previous use or a previous user, before the product or part changes ownership."

Recyclable material or product

Characteristic of a product, packaging or associated component that can be taken from the waste stream by available processes and programs, and which can be collected, processed and put back into use as raw materials or products.(based on ISO 14021).

Recycled material or product

Product or material that is manufactured entirely or partially from recovered or reused materials, diverted from the waste stream after their initial use. These materials have

undergone a transformation process, such as mechanical, chemical, or other forms of recycling, to be reintroduced into the production chain for creating new products or materials.

Recycling excludes the direct reuse of products or components without prior transformation and focuses on reducing the use of new raw materials.

Regular maintenance

Maintenance recommended by the manufacturer to keep the product in optimum working order.

Removable fastener

Corresponds to an original fastening system which can be removed during disassembly without damaging the product, but which cannot be reused during reassembly (e.g. plastic clamp, rivet).

Replacement or spare part

A replacement part is a separate part intended to replace a defective or degraded part having the same or a similar function of a good in operation; (Source: Annexes to the European Regulations laying down ecodesign requirements in accordance with Directive 2009/125/EC).

Return conditions for a repair process

- Complete returns conditions: special arrangements are in place to encourage the return of the product for a repair process, whether to the manufacturer, a partner or a repairer: free shipping, home pick-up, free replacement product during the repair process, free repair. These special arrangements are available both under warranty and out-of-warranty.
- Basic return conditions: users wishing to repair their product have the option of returning it for repair, but there are no special arrangements in place to facilitate this process (charges, etc.).
- No return solution: the end-user has no way of returning the product to the manufacturer or one of its partners for repair.

Reusable packaging

Container designed to be used over and over again, reducing the need for disposable packaging.

Reusable fastener

Corresponds to an original fastening system removed during disassembly without altering the product, and which can be reused during reassembly (e.g. screws, clips).

Reused parts

To date, there is no official definition of "re-use parts", but a definition of "re-use" provided in Article L. 541-1-1 of the French Environment Code, which defines it as follows:

Reuse: "an operation by which products or components that are not waste, are used again for a use identical to that for which they were designed".

Selling price of a spare part

Deduction of delivery costs: The principle adopted is to calculate without including transport or delivery costs. If these costs are included in the pricing of the general sales conditions, it is the responsibility of the producer or importer to deduct them for the calculation of the ratio. Specifically, for the price of spare parts, two methods are possible for deducting transport or delivery costs: individually for each part on list 2 or as a flat rate (in absolute value or as a percentage). The same applies to the price of new equipment.

Spare part(s) included in a set: If one or more parts are included in a set offered for sale or any other inseparable sub-assembly of parts, the price of the relevant part is the price of that sub-assembly.

Parts not managed by the producer or importer: If parts from list 2 are not managed by the producer or importer, the price of the parts to be considered is the price listed in the supplier's general sales conditions at the time of the index calculation.

Product options with the same reference: If options are offered for the same reference and do not affect the technical characteristics, then the price ratio calculation should be based on the price of the spare parts and the price of the most common version of the product concerned.

[Criterion 21](#) is established by calculating the ratio between: the ex-tax price of the spare part and the ex-tax price of the relevant equipment model, where each price is understood as the ex-tax price from the current price list at the time of the certification process and listed in the general sales conditions of the manufacturer or importer, or in any other relevant contractual document if not available.

If a manufacturer or importer has, for the parts or equipment concerned, several price lists depending on the different categories of distributors or sellers, the prices used for the index calculation are those from the price list that accounted for the highest share of the manufacturer's or importer's turnover for the type of parts or equipment concerned during the last closed fiscal year.

Serialization

Practice by which the manufacturer limits the use of spare parts to only those original parts that it approves, in particular by means of software.

Example: associating the serial numbers of a product's components with the product's overall serial number.

Spare part

A spare part is a distinct part that is an integral part of a product, essential to fulfill its primary function. It is not supposed to be replaced as part of normal use of the product, but may be replaced following accidental damage, long-term wear and tear, premature wear due to incorrect use or maintenance, or misplacement. In such cases, the spare part is exchanged for a replacement part.

Spare parts interface

Refers to the way in which parts connect or integrate with the existing components of a product. Depending on the type of part and the type of interface used to connect them, a classification is established: A standard part is a component, a part, manufactured to recognized specifications and standards, commonly used and compatible with various products or systems.

- **Standard part with standard interface:** Designates a standard part, manufactured according to recognized specifications and standards, commonly used and compatible with various products or systems, and whose connection or interaction with other components, devices or systems is based on standardized or widely used and accepted specifications.
- **Standard part with proprietary interface:** Refers to a standard part, manufactured according to recognized specifications and standards, commonly used and compatible with various products or systems, and whose connection or interaction with other components, devices or systems is based on specifications specific to a particular manufacturer or company.
- **Proprietary part with non-standard interface:** Refers to a non-standard part, exclusive to a product or company, usually produced in-house or under license. This type of part may have unique specifications that make it incompatible with other products or brands. In addition, it may be designed with a specific connection to other components, devices or systems, also based on specifications specific to a particular manufacturer or company.

Step (disassembly)

Operation leading to part removal or tool change.

Sub-assembly

A set of inseparably connected components that form a block and perform a function. The sub-assembly may be separate from the product.

Example: Soldered motor and electronic board

Usage stress

This corresponds to the forces applied to the part.

Used parts

Used goods are goods which, at any stage of production or distribution, have come into the possession of a person for his or her own use, by the effect of any act for valuable consideration or free of charge, or have undergone alterations which do not allow them to be offered for sale as new (Source: Article L321-1 of the French Commercial Code).

Waste

Any substance or object, or more generally any movable asset, which the holder discards or intends or is required to discard. (Source: Directive n°2008/98/CE of November 19, 2008 on waste)

Working environment

When solving failure scenarios, a number of different working environments can be identified.

- **Operating environment:** Corresponds to the environment in which the product is used and does not express any specific requirements relating to the working environment for the resolution of failure scenarios.
- **Workshop environment:** Corresponds to an environment which does not require a production environment (class C), but where failure resolution scenarios cannot be carried out in the operating environment.
- **Production environment:** Corresponds to an environment necessary for the resolution of failure scenarios which is comparable to that in which the product was manufactured.

IX. BIBLIOGRAPHICAL RESOURCES

This paragraph lists the main bibliographical resources used to draw up the sector reference guide, which are likely to evolve according to the target product groups.

REGULATION (EU) 2023/988 on general product safety, amending Regulation (EU) No 1025/2012 and Directive (EU) 2020/1828, and repealing Directive 2001/95/EC and Directive 87/357/EEC

DIRECTIVE 2014/68/EU on the harmonisation of the laws of Member States relating to the making available on the market of pressure equipment

REGULATION (EC) No 1935/2004 on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment

Directive 2014/30/EU of 26 February 2014 on the harmonisation of the laws of Member States relating to electromagnetic compatibility

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

NF EN 60335-1 COMPIL 15 Household and similar electrical appliances - Safety - Part 1: General requirements

EN 45552 General method for assessing the sustainability of energy-related products

EN 45554 General methods for assessing the repair, reuse and upgradeability of energy-related products

Standard EN 1186-1 Materials and articles in contact with foodstuffs – Plastics Part 1: Guidance on the selection of test conditions and methods for overall migration

EN 12778 Domestic kitchenware - Domestic pressure cookers

<https://www.ccis-expertise.com/fr/equipements-sous-pression-marquage-ce>

ISO 1817:2024: Vulcanised or thermoplastic rubber — Determination of the effect of liquids

X. VERSION UPDATE

Implemented in 2025, the LONGTIME V2 base reference system is scheduled to be valid for 5 years before its next revision in 2030, with the exception of minor changes.

Version number	Date of release	Summary of action	Editor
Standard V2_Pressure cooker	01/11/2025	Final edition	F.Preguesuelo
Standard V2_Pressure cooker	01/09/2025	Editing and consultation of the draft	F.Preguesuelo
Standard V2_Pressure cooker	10/06/2025	Commencement of the drafting process	F.Preguesuelo

XI. ACKNOWLEDGEMENTS

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