
CEN-CENELEC GUIDE 36

**Guidance on the rules for
the drafting and
presentation of candidate
performance harmonized
standards in support of
Regulation (EU) 2024/3110
Construction Products
Regulation CPR-2024**

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CEN and CENELEC decided to adopt this new CEN-CENELEC Guide 36 through CEN BT decision BT N 20358 and CENELEC BT Decision BT185/DG20008/DV respectively.

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European foreword

This document (CEN-CENELEC Guide 36:2026) has been prepared by CEN-CENELEC Coordination Group on Construction and the built environment.

This document is intended for use by Technical Committees drafting candidate performance harmonized European Standards for construction products and provides rules for the presentation of standards for construction products drafted following a standardization request issued in the framework of Regulation (EU) 2024/3110 (CPR-2024) in accordance with Article 5 of this Regulation.

This guide is not applicable to harmonized European Standards drafted following a standardization request issued in accordance with Article 7 of CPR-2024.

Other EU Directives/Regulations may also apply to construction products, but this guide does not apply to them.

Introduction

CEN and CENELEC develop candidate performance harmonized European Standards for construction products replying to European Commission standardization requests.

It has been considered necessary to propose guidance for the preparation, drafting and presentation of candidate harmonized European Standards in support of the CPR.

Reference should also be made to the CEN and CENELEC Construction webpage, which lists many other guidance documents relevant for the drafting work, accessible at:

<https://www.cencenelec.eu/areas-of-work/cen-sectors/construction/>

Other instructions and clarifications including a list of FAQs can be found on the European Commission website at:

http://ec.europa.eu/growth/sectors/construction/product-regulation_en

In the Clause 4 'Format of a harmonized European Standard for construction products':

- Examples are provided in grey as good practice to follow:

EXAMPLE

- Examples to be avoided are given in red:

TO BE AVOIDED

- Model Clauses text are presented in green and shall be used without modification in the harmonized standard:

MODEL CLAUSE

- Text in [blue] represents items to be filled in or guidance on how to adapt model clauses.
- Template text for the Annex ZA is given in green and is to be used without modification in the harmonized standard:

ANNEX ZA

1 Scope

This Guide outlines the rules for drafting and presenting candidate performance harmonized European Standards (hENs) for construction products under Regulation (EU) 2024/3110, known as the Construction Products Regulation CPR-2024. These standards are subject to a standardization request according to Article 5 of CPR-2024.

This Guide gives rules which are additional to the CEN-CENELEC Internal Regulations (IR) - Part 3 (based on ISO/IEC Directives, Part 2) when this is necessary because of the special provisions of harmonized product standards in the construction sector.

This Guide applies to all new candidate hENs and for new Work Items (WIs) revising/amending existing hENs included in a standardization request in support of CPR-2024.

This guide does not include rules for candidate harmonized European Standards under Regulation (EU) No 305/2011 or for those harmonized European Standards within the framework of Regulation (EU) 2024/3110 that are subject to a standardization request according to Article 7 of this Regulation.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

CEN-CENELEC Internal Regulations - Part 3:2022, *Principles and rules for the structure and drafting of CEN and CENELEC documents (ISO/IEC Directives - Part 2:2018, modified)*

EN 15804:2012+A2:2019¹, *Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products*

3 General principles

This Guide gives the framework to be followed by Technical Committees (TCs) for drafting of a candidate hEN in the framework of the Regulation (EU) 2024/3110 Construction Products Regulation (CPR-2024).

The basis for the development of candidate hEN is the standardization request.

Content not dealing with the implementation of the CPR-2024 shall not be included in a harmonized standard.

The candidate hEN for construction products should be coherent with the standardization request and only contain:

- Products, materials, forms and intended uses as specified in the standardization request;
- The essential characteristics covered in the standardization request;
- The assessment methods, including test methods, calculation rules and tabulated values², to determine the performance of the construction product in relation to these essential characteristics, as applicable;
- Deemed to satisfy provisions established by delegated acts before the drafting of the standard (e.g. reaction to fire) may be included. Deemed to satisfy provisions adopted after the publication of the standard will apply directly without reference in the standard;
- Additional provisions set out in relation to essential characteristics as indicated in the standardization request or in applicable horizontal delegated acts:
 - voluntary threshold levels: applicable only for products for certain declared uses.
 - mandatory threshold level: applicable to the product independently of the declared uses.
 - classes of performance.
 - mandatory declaration.

Deviations from the proposed provisions in the standardization request should be avoided, however, exceptionally they are possible, but only if properly justified and if agreed by Member States.

- Technical details as regards the documentation provided together with the declaration of performance and conformity;
- Technical details necessary for the implementation of the assessment and verification system including

¹ As impacted by EN 15804:2012+A2:2019/AC:2021.

² Tabulated values will be included in the delegated act covering classes, threshold and mandatory declaration

determination of the product type, factory production control, validation of processes and data, and audits;

- Guidelines for the drawing up of general product information, instructions for use and safety information;
- Guidelines to ensure interoperability of the human- and machine-readable formats.

The following aspects shall not be included in hENs:

- Non-applicable terminology from Construction Products Directive (CPD) and Construction Products Regulation 2011 (CPR-2011) (e.g. evaluation of conformity, initial type testing, essential requirements, attestation of conformity, declaration of conformity, declaration of performance, assessment and verification of constancy of performance, etc.);
- Reference to national regulations/requirements;
- Expressions establishing obligations or requirements not included in the standardization request;
- Installation, design, maintenance instructions and safety provisions except in the annex providing guidelines for the drawing up of general product information, instructions for use and safety information;
- Marking, labelling and packaging clause, unless already aligned with this Guide or included as presented in this Guide
- Notes containing product characteristics, requirements, permissions and recommendations. This kind of information shall be included as a normal paragraph and part of the normative portion of the text, in conformity with Clause 24 in the CEN-CENELEC IR - Part 3:2022, “Notes”.

CEN-CENELEC IR - Part 3:2022 shall be used in conjunction with this document when preparing a new candidate hEN for construction products in support of CPR-2024, or when revising/amending an existing hEN as stated in the scope of this document.

Moreover, following decision BT C089/2021 and D168/C108, when drafting hENs in support of EU legislation, Technical Bodies shall check their compliance against a dedicated checklist (mandatory). The TC Secretary is responsible for ensuring that the checklist is filled out and submitted to CCMC with the draft candidate hEN and their supporting documents/justifications where relevant. In CEN, the [matrix of responsibilities](#) shall be followed.

List of guidance documents: <https://www.cencenelec.eu/areas-of-work/cen-sectors/construction/>

For each clause of the candidate hENs to be drafted, a number of examples regarding their content are given.

The common checklist for CPR is available [here](#).

4 Format of a harmonized European Standard for construction products

4.1 Cover page of the candidate hEN

The cover page of a candidate hEN is prepared by CEN & CENELEC Management Centre (CCMC). However, each concerned TC shall decide the title of the candidate hEN which shall be appropriate to its contents.

4.2 Element “Title”

The title page shall be prepared according to Clause 11 of CEN-CENELEC IR - Part 3:2022.

The proposed title should not be different from the one given in the standardization request by the European Commission.

4.3 Element “Contents”

A table of contents is necessary to make the consultation of the hEN easier.

Clause 6 of CEN-CENELEC IR - Part 3:2022 provides guidance on the Organization and subdivision of the standard.

Terms in the “Terms and definitions” clause shall not be listed in the Contents.

The following lists provides the framework on which a candidate hEN for construction products should be based:

European foreword

Introduction

Scope

Normative references

Terms, definitions, symbols, units and abbreviated terms

Characteristics

Sampling methods , testing and assessment

Assessment and verification

Marking, labelling and packaging

Annex(es) (normative and/or informative) etc.

Annex ZA (exclusively for Regulation (EU) 2024/3110), Annex ZB, etc. (for other EU Legislation, if any).

Bibliography

4.4 Element “European foreword”

The Foreword shall be prepared according to Clause 12 of CEN-CENELEC IR - Part 3:2022.

EXAMPLE

This document has been prepared by Technical Committee CEN/TC 72 “Fire detection and fire alarm systems”, the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2019, and conflicting national standards shall be withdrawn at the latest by August 2022.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 54-7:2000.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

The main changes with respect to the previous edition are listed below:

- applying the latest EN 50130-4:2011, EMC for immunity tests;
- introducing the open type smoke detector and related test methods;
- removing Annex N, additional provisions and test methods for smoke detectors with more than one smoke sensor.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN [and/or CENELEC] website.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

4.5 Element “Introduction”

The introduction, if needed, shall be prepared according to Clause 13 of CEN-CENELEC IR - Part 3:2022.

4.6 Clause 1 “Scope”

Following Clause 14 of CEN-CENELEC IR - Part 3:2022, this is required at the beginning of every candidate hEN to define the subject of the standard and the aspect(s) covered in an unambiguous way and thereby to indicate the limits of applicability of the standard or particular parts of it.

The scope shall be precise and state clearly which products, items, materials, forms, kits (as relevant) are covered, for which intended uses, and which products are excluded. The scope shall be unambiguous, and any user shall be able to know, without uncertainty, what is covered and what is not.

The scope shall be in line with the standardization request.

TO BE AVOIDED

This standard covers products intended generally for external use.

It is unclear if internal uses are covered.

This standard covers products used in construction.

Information provided is not detailed enough.

Standards shall be performance based and independent from the material and technologies used for the manufacturing unless it is explicitly indicated in the standardization request. Materials shall only be mentioned in the scope if included in the standardization request.

EXAMPLE

This standard covers precast concrete products manufactured using aggregates and precast lightweight concrete products with closed structure.

The standardization request establishes the materials to be covered by the standard.

In general, and thereby in conformity with Clause 14 in CEN-CENELEC IR - Part 3:2022, the clause “Scope” shall clearly identify the intended use of the construction product but shall not contain any normative instructions or product characteristics.

The list of the intended use(s) of the product shall be included in the scope in a way as detailed as necessary to ensure the link between the product its intended use and the relevant essential characteristics.

EXAMPLE

These pipes are intended to be used in underground unpressurised sewers.

TO BE AVOIDED

These plastic pipes may be used with metal pipes provided that appropriate joints are provided.

This information does not belong to the scope.

The scope should also, where appropriate, indicate in line with the standardization request:

- Either the function and location within the works where the construction product is intended to be used (e.g. internal walls, external walls) or should differentiate between different locations. The relevant construction product characteristics may depend on the function and location in the works.
- Whether recycled materials (other than closed-loop recycling during production) are either covered or excluded, and appropriate provisions should then be included in the body of the standard if this is a common practice in the market.
- Whether reused products are covered or not by the standard.

Note: Addressing products intended to be reused in harmonized standards require further clarifications and guidance which will be provided in the future.

- The key parts of the product as set out in the standardization request, if any. These key parts are required to be covered by a harmonized technical specification under CPR-2024, either an existing harmonized standard or another harmonized standard already included in the same standardization request.
- When a hEN is revised, the scope cannot exclude any of the products previously covered, except in any of the following situations:
 - They are covered by another harmonized standard to be progressed in parallel.
 - They are excluded by the applicable standardization request superseding a previous mandate or standardization request.

4.7 Clause 2 “Normative references”

The normative references shall be prepared according to Clause 15 of CEN-CENELEC IR - Part 3:2022.

Standards and harmonized standards specifying product characteristics for a product shall not contain normative

references to quality management system requirements (e.g. EN ISO 9001, ISO 14000 or related series standards) or certification provisions.

The normative references shall be dated in Clause 2 and in the normative text of the draft standard.

Normative references should be EN/ISO/IEC/ETSI standards. The use of non-EN/ISO/IEC standards can only be included if included in the standardization request. In case, it is required but it was not included in the standardization request, the European Commission needs to be consulted. In these cases, a request with appropriate justification needs to be submitted to the EC via CCMC.

Normative references shall not be withdrawn standards at the time of publication of the hEN.

When the harmonized standard is published, it shall not include prENs/FprENs as normative references, i.e. all the normative references shall be publicly available or be published at the same time as the harmonized standard.

Hence, it is recommended that a careful verification is done on the normative references in Clause 2 and text of the standard to ensure that they are not withdrawn/outdated.

GOOD PRACTICE

Refer to a specific clause of the normative reference instead of referring to the whole document. If in this specific clause of the normative reference there are no additional normative references, the normative reference loop is closed.

4.8 Clause 3 “Terms, definitions, symbols, units and abbreviated terms”

As far as applicable, Clause 3 shall cover terms, definitions, symbols units and abbreviated terms and shall be in accordance with CEN-CENELEC IR - Part 3:2022, Clauses 16 and 17 except for the possibility to include requirements as supplementing information. Depending on the actual content of Clause 3 its title needs to be adapted and sub-clauses shall be introduced.

Harmonized standards should contain the definitions used by the standards. If definitions are repeated, they should be copied word by word from whichever document is considered the reference.

The terms and definitions from the CPR-2024 shall not be repeated in Clause 3 of the candidate hEN. When necessary to use terms and definitions which have been defined in the CPR-2024, those terms and definitions shall be used in the candidate hEN with the same meaning.

The following definition shall be added to keep consistency with Clause 6 “Assessment and verification”

MODEL CLAUSE

3.[x]

product group

A set of products from the same manufacturer for which the assessment result of one product is valid for the other products within the set, for the characteristic(s) concerned.

Note 1 to entry: The grouping process avoids unnecessary testing when it is known, based on documented technical justification, that one test result is representative for multiple products.

Note 2 to entry: A product group contains one or several product types. Products in a product group differ in some design features or properties (e.g. edge detail, facings) but share those characteristics that allow the same assessment result to be applied.

Note 3 to entry : Grouping combines different product types with identical performance for each characteristic.

The concept of product group is applicable to all essential characteristics including environmental sustainability characteristics

Definitions shall, to the extent possible, not limit the application of the standard. In case there is a need to provide definitions establishing limitations to the scope of the standard they should also be included in Clause 1 “Scope”.

Only definitions used later in the text need to be included. Definitions may be given:

- in the form of one normative reference to another ISO, IEC, CEN or CENELEC standard dealing with definitions, symbols and abbreviations relating to this field. If this option is used, the definitions in the supporting standard shall fulfil the same conditions;

- as a list of specialist terms included in the standard. This should make clear that the definitions are limited to the use of the terms in the standard.

EXAMPLE

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.x

adhesion enhancer

additional coating on the load-bearing surface of the road stud or on the road surface which improves the performance of the adhesive bond

All symbols or abbreviations used in the body of the candidate hEN shall be listed in this clause.

4.9 Clause 4 “Characteristics”

4.9.1 General

Only and all essential characteristics included in the standardization request shall be expressed in a normative way in this clause.

The list of characteristics in the harmonized standard shall not contain any discrepancy with the list of essential characteristics in the standardization request.

The harmonized standard shall not contain any additional characteristics to those included in the standardization request.

While the standardization request refers to essential characteristics, the harmonized standard shall always refer to characteristics. The concept of essential is implemented and described in Annex ZA.

Each product characteristic shall be the heading of the sub-clauses of Clause "Characteristics".

EXAMPLE

4.1 Compressive strength

...

4.x Thermal conductivity - testing

...

Construction product characteristics should be expressed, as far as possible, in terms of construction product performance by:

- describing the construction product expected behaviour;
- describing the product behaviour to be assessed;
- describing the way to express the performance as a level (value), class or description. Only classes included in the standardization request or in applicable delegated acts shall be included unless properly justified and if acceptable by Member States;
- describing the unit in which the performance is expressed, when relevant;
- describing the applicable thresholds and the conditions under which these thresholds apply, if any. Only thresholds included in the standardization request or in applicable delegated acts shall be included unless properly justified and if acceptable by Member States;
- including the cross reference to the specific subclause of Clause 5 “Sampling methods, testing and assessment” describing the test/assessment calculation method/deemed-to-satisfy provisions to be applied for verifying the requested characteristic.

Below is presented model clauses for essential characteristic for each of the options to express performance, i.e., level, class of performance and description.

MODEL CLAUSE Level (value)

4.x [Essential characteristic as indicated in the standardization request]

[Essential characteristic] indicates [description of the product behaviour and the technical basis for assessment and declaration]. When assessed in accordance with the test method/assessment method/tabulated value [select the applicable one] given in clause 5.[x], relevant for the declared performance, the test result/assessment result/tabulated values [select the applicable one] is expressed as a value in [units].

[If a threshold value applies] The performance shall be [describe the minimum/maximum, range applicable] for products [describe the conditions to apply the threshold or refer to all products].

In case that several essential characteristics are assessed using the same assessment method and expressed in the same units, these essential characteristics can be grouped and provided in a table in the same way it is suggested for release of dangerous substances, see 4.9.5.

MODEL CLAUSE Class of performance

4.x [Essential characteristic as indicated in the standardization request]

[Essential characteristic] indicates [description of the product behaviour and the technical basis for assessment and declaration]. When assessed in accordance with the test method/assessment method/tabulated value [select the applicable one] given in clause 5.[x], relevant for the declared performance, the test result/assessment result/tabulated values [select the applicable one] is expressed as a class according to the classification in table [x].

Table x — [Essential characteristic] – classes

Declaration	Performance in [units]
[Class]	[Performance]
...	...

[If a threshold value applies] The performance shall be [describe the minimum/maximum class, range of classes applicable] for products [describe the conditions to apply the threshold or refer to all products].

MODEL CLAUSE Description

4.x [Essential characteristic as indicated in the standardization request]

[Essential characteristic] indicates [description of the product behaviour and the technical basis for assessment and declaration]. When assessed in accordance with the test method/assessment method/tabulated value [select the applicable one] given in clause 5.[x], relevant for the declared performance, the test result/assessment result/tabulated values [select the applicable one] is expressed as a description.

[If a threshold value applies] The performance shall be [describe the results of the assessment that are valid] for products [describe the conditions to apply the threshold or refer to all products].

In case declaration without testing or declaration without further testing was possible under CPR-2011 or is under development by the European Commission, a new delegated act will be adopted at the same time of citation of the hEN.

Declaration without (further) testing include tabulated values provided in the standard. The tables will be also included in the delegated act setting out classes, thresholds and mandatory declaration.

Model clause in case declaration without testing/declaration without further testing applies.

MODEL CLAUSE

4.x.1 Declaration without [further] testing [include “further” if included in the legal act]

Whether products covered by this standard meet the conditions [conditions or reference to them], they have demonstrated the performance [performance], based on appropriate EN test methods, the assigned performance applies to these products without requiring [further] testing [include “further” if included in the legal act].

4.x.1 Declaration based on tabulated values

Whether products covered by this standard meet the conditions [\[conditions or reference to them\]](#), the performance is obtained from table [\[x\]](#).

4.9.2 Essential characteristics related to the constituents or components (if applicable)

In some cases, a product's performance relates to the performance of its constituents or components used during manufacturing. In such cases, the standardization request will include essential characteristics related to these constituents. The harmonized standard should name the constituent within the characteristic's description.

If a constituent or component is supplied, the manufacturer can obtain performance details and documentation from the supplier by using the 'cascading' provision under Article 59(1)(b) of Regulation (EU) 2024/3110. However, this information should not be specified in the hEN, as the standard should not designate who carries out the tasks.

Even if the performance is obtained from the supplier, the complete assessment used shall be provided. In case the performance is covered by another harmonized standard under CPR-2024 consistency with it should be checked in the CPR data dictionary.

NOTE The European Commission is planning to implement the data dictionary for CPR-2024 when the first harmonized standards will be made mandatory. If the data dictionary does not include this information, cross-check with the other standards under CPR-2024 is recommended.

This clause may not be relevant for all construction product families so it shall be included **only** when the standardization request includes essential characteristics related to constituents or components.

EXAMPLE

4.x Tensile yield strength - reinforcing steel

The tensile yield strength of the reinforced steel indicates the maximum stress that can be applied before permanent shape change is achieved in ductile materials. When tested in accordance with the test method given in clause 5.x, relevant for the declared performance, the test result is expressed as a value in MPa.

4.9.3 Structural and durability assessment if applicable

4.9.3.1 General

The performance of the product as regards its capacity to deal with loads (structural behaviour) and its capacity to maintain this performance over the time and under different environmental conditions (durability) may be expressed in harmonized standards using different approaches. This clause is applicable only if it's included in the SReq.

4.9.3.2 Essential characteristics

The standardization request will establish the list of essential characteristics dealing with structural behaviour and durability. These characteristics related to them included in the harmonized standard shall refer to harmonized European assessment methods and shall not refer to national implementation provisions.

Characteristics shall be based on

- testing,
- calculation aided by testing,
- calculation using methods included in harmonized European Standards independent from any national determined parameter, or
- tabulated values included in harmonized European Standards independent from any national determined parameter.

EXAMPLE

4.x Mechanical strength - testing - beams and blocks - blocks - punching-bending strength

The punching-bending strength indicates the failure load obtained in the punching-bending test. When assessed in accordance with the test method given in clause 5.x, relevant for the claimed class, the test result is expressed as a class according to the classification in table x.

Table x — Mechanical strength - testing - beams and blocks - blocks - punching-bending strength classes

Declaration	minimum characteristic resistance to concentrated loads kN
Very low non-resisting (VLNR)	0,7

low non-resisting (LNR)	1,0
Non-resisting (NR)	1,5
Semi-resisting (SR)	2,0
Resisting (RR)	2,5

4.9.3.3 Declaration in attached documentation of the product

When it is not possible or when the applicable essential characteristics may require to be complemented by additional rules, the structural behaviour, fatigue resistance, earthquake resistance, explosion resistance, fire resistance and durability may be assessed using calculation rules or tabulated values defined at national level such as the national implementation provisions to the Eurocodes. These rules are related to the behaviour of the product under certain conditions and therefore cannot be included in the declaration of performance and conformity or referred to in the harmonized standard but the calculation, the results and the reference to calculation methods or tabulated values used shall be provided together with the declaration of performance and conformity.

This clause may not be relevant for all construction product families. The following model clause shall be included **only** when the standardization request includes the need to provide documents in attachment to the declaration of performance including set of drawings and calculations. This clause should be the last in Clause 4 “Characteristics”.

The term custom-made products is defined in the CPR-2024, all products that are not custom-made are considered off-the-shelf including one-off products.

MODEL CLAUSE

4.x Performances in attached documentation of the product

4.x.1 General

In case the performance specified for the product in terms of structural behaviour, including fatigue resistance, earthquake resistance, explosion resistance, fire resistance and durability, [remove those which are never applicable] is expressed by referring to the respective production documentation or structural design calculations in a way not directly related to essential characteristics, the following applies

4.x.2 Off-the-shelf products

In case of off-the-shelf products, information about the loads and exposure scenarios of product is not known so the relevant information comprises:

- [Include as specified in the standardization request.]
- [Add item(s) as required by the standardization request.]

4.x.3 Custom-made products

In case of custom-made products, information about the loads and exposure scenarios of the product is available so the relevant information comprises:

- [Include as specified in the standardization request.]
- [Add item(s) as required by the standardization request.]

Example

4.x Performances in attached documentation of the product

4.x.1 General

In case the performance specified for the product in terms of structural behaviour, including fatigue resistance, earthquake resistance, explosion resistance, fire resistance and durability, is expressed by referring to the respective production documentation or structural design calculations in a way not directly related to essential characteristics, the following applies

4.x.2 Off-the-shelf products

In case of off-the-shelf products, information about the loads and exposure scenarios of product is not known so

the relevant information comprises:

- a detailed set of drawings including nominal dimensions, tolerances and materials used allow the determination of the behaviour when the loads and exposure scenarios are defined;
- usual load and exposure scenarios and calculations or tabulated values relevant to them, including durability assessment, even if they do not reflect the applicable loads and exposures in which the product is used;
- reference to the calculation methods, exposure scenarios and any relevant additional information.

4.x.3 Custom-made products

In case of custom-made products, information about the loads and exposure scenarios of the product is available so the relevant information comprises:

- a detailed set of drawings including nominal dimensions, tolerances and materials used allow the calculation of the behaviour for the established loads and exposure scenarios;
- the applicable load and exposure scenarios and calculations or tabulated values relevant to them, including durability assessment;
- reference to the calculation methods, description of the exposure scenarios and any relevant additional information.

4.9.4 Fire related essential characteristics

4.9.4.1 General

In case essential characteristics related to fire performance are included in the standardization request, the following rules apply.

Characteristics related to fire can be grouped in a subclause of Clause 4.

4.9.4.2 Reaction to fire

Model clause to define the characteristic reaction to fire, if applicable.

MODEL CLAUSE

4.x Reaction to fire

The reaction to fire indicates the response of the [name of the products as they appear in the title of the standard] in contributing by its own decomposition to a fire to which it is exposed, under specified conditions. When tested in accordance with the test method given in clause 5.[x], relevant for the claimed class, the test results are expressed as a class according to the classification published in the Official Journal of the European Union on this specific matter.

NOTE The applicable document at the time this standard was drafted is Commission Delegated Regulation (EU) 2026/331 of 13 February 2026 https://eur-lex.europa.eu/eli/reg_del/2026/331/oj/eng

A classification without testing for the reaction to fire of certain materials is being developed, all products made only of these materials can apply declaration without testing in accordance with this delegated act.

In case classification without testing or classification without further testing were possible under CPR-2011 and in case a new provision in this regard was already discussed with the European Commission, a delegated act setting out the rules will be adopted at the same time of citation of the hEN.

The technical content shall be included in the text of the standard and will be included also in the relevant delegated act.

Model clause in case classification without testing.

MODEL CLAUSE

4.x.1 Classification without [further] testing [include “further” if included in the legal act]

Where products covered by this standard meet the conditions [conditions or reference to them], they have demonstrated stable reaction to fire performance in a specified class, based on appropriate EN test methods, and therefore the assigned class applies to these products without requiring [further] reaction to fire tests [include “further” if included in the legal act].

EXAMPLE [cross laminated timber products and laminated veneer lumber products for walls and ceilings]

4.x.1 Classification without testing

Whether products covered by this standard meet the conditions in Table x, they have demonstrated stable reaction to fire performance in a specified class, based on appropriate EN test methods, the assigned class applies to these products without requiring reaction to fire tests.

Table x — Classification without testing

Product	Product detail	Minimum mean density	Minimum overall thickness	Class
Cross laminated timber products	Minimum layer thickness of 18 mm	350 kg/m ³	54 mm	D-s2, d0
Laminated veneer lumber products	Minimum veneer thickness of 3 mm	400 kg/m ³	18 mm	D-s2, d0

4.9.4.3 Resistance to fire

Model clause to define the essential characteristic resistance to fire, if applicable.

MODEL CLAUSE

4.x Resistance to fire

The resistance to fire is the capability of the product to provide, in the event of fire and for a given time, one or more of the following behaviours:

- Load-bearing capacity (R)
- Integrity (E)
- Insulation (I)
- Radiation (W)
- Mechanical action (M)
- Self-closing (C)
- Durability of self-closing (C0-5)
- Smoke leakage (in context of ventilation systems) / Smoke control (in context of doors) (S)
- Continuity of power and signal supply under the standard time temperature curve (P)
- Continuity of power and signal supply under constant temperature (PH)
- Soot fire resistance (G / O)
- Fire protection ability (K)
- Temperature class expressed in maximum gas temperature in °C (operating temperature) (T)
- Stability duration under constant temperature (D)
- Stability duration under the standard time-temperature curve (DH)
- Functionality of powered smoke and heat ventilators (F)
- Functionality of natural smoke and heat ventilators (B)

When tested in accordance with the test method indicated in 5.[x], the result is expressed as class in minutes according to the classification published in the Official Journal of the European Union on this specific matter, completed by the established suffixes.

[If assessment by calculation is also possible] When assessed by calculation in accordance with other methods, the result is expressed in the attached documentation in accordance with 5.[x reference to the applicable clause]

as described in 4.10.5.3].

NOTE The applicable document at the time this standard was drafted is Commission Delegated Regulation (EU) 2026/557 of 16 March 2026 https://eur-lex.europa.eu/eli/reg_del/2026/557/oj/eng

In case the standardization request refers to the calculation of the resistance to fire using specific loads and exposure scenarios, 4.9.3.3 applies and the relevant clause shall be included in the harmonized standard.

4.9.4.4 External fire performance - roof

Model clause to define the essential characteristic external fire performance, if applicable.

MODEL CLAUSE

4.x External fire performance - roof

The external fire performance - roof indicates the behaviour of the product for roofs in the event of external fire exposure. When tested in accordance with test method given in clause 5.[x], relevant for the claimed class, the test results are expressed as a class according to the classification [choose the applicable class: t1, t2, t3 or t4] published in the Official Journal of the European Union on this specific matter.

NOTE Reference to the Commission Delegated Regulation setting out classes for external fire performance under CPR-2024 to be adopted.

The classification offers four different assessment methods. This clause should refer to the classification to be used which shall be consistent with the method set out in clause 5.x. By default, only one method is possible for each essential characteristics but in case others are relevant and necessary they may be included separated within the general essential characteristic.

4.9.5 Essential characteristics related to the release/emission of dangerous substances

4.9.5.1 General

In case essential characteristics related to release/emission of dangerous substances are included in the standardization request, the following rules apply.

Characteristics related to the release/emission of dangerous substances can be grouped in a subclause of Clause 4 “Characteristics”.

4.9.5.2 Release to soil and ground water

Model clause to define the essential characteristic release of dangerous substances to soil and ground water to be defined for the substances included in the standardization request, if any.

MODEL CLAUSE

4.x Release of dangerous substances to soil and ground water

The release of dangerous substances indicates the concentration of the substances in table [x] in the eluates. When tested in accordance with the test method given in clause 5.[x], the test result is expressed as a value in mg/l.

Table [x] — Characteristics related to the release of dangerous substances to soil and ground water

Characteristic	Unit	dimensions
[characteristic 1]	mg/l	ML-3
...		

4.9.5.3 Emissions to indoor air

Model clause to define the essential characteristic emission of dangerous substances to indoor air to be defined for the substances included in the standardization request, if any.

MODEL CLAUSE

4.x Release of dangerous substances to indoor air

The release of dangerous substances indicates the air concentration of the substances in table [x] in the reference room for walls/floor, ceiling/small surfaces/very small surfaces [select the applicable, in case more than one apply select the first applicable from the list (most restrictive)]. When tested in accordance with the test method given in

clause 5.x, the test result is expressed as a value in mg/m³.

Table [x] — Characteristics related to the release of dangerous substances to indoor air

Characteristic	Unit	dimensions
[substance 1]	mg/m ³	ML-3
...		

4.9.6 Essential characteristics related to environmental sustainability

4.9.6.1 General

For essential characteristics related to environmental sustainability as included in the standardization request, the following rules apply.

Characteristics related to environmental sustainability can be grouped in a subclause of Clause 4.

4.9.6.2 Reference service life

Reference service life is included as an essential characteristic if listed in the standardization request. In this case, the reference service life shall also be included in the list of essential characteristics in the Annex ZA.

The standardization request rules applicable to the definition of the reference service life shall be followed. In case the values are previously defined in the standardisation request, they should be provided in the relevant clause (default values). In case the values are calculated or related to the calculations e.g. for some products durability assessment, they shall be consistent.

MODEL CLAUSE

4.x Reference service life

The reference service life is the service life to be expected under a set of reference in-use conditions and which can form the basis for estimating the service life under other in-use conditions. When assessed in accordance with the method given in clause 5.[x], the results are expressed as a value in years.

4.9.6.3 Life cycle assessment environmental essential characteristics

Life cycle assessment environmental essential characteristics correspond to the life cycle assessment core and additional environmental indicators in EN 15804:2012+A2:2019. They shall be included.

MODEL CLAUSE

4.x Life cycle assessment environmental characteristics

Characteristics in table [x] are related to the life cycle assessment of the product. When assessed in accordance with the method given in clause 5.[x], the results are expressed in scientific E notation as a value in the units included in table [x] for modules A1 to A3 and for each module and European harmonized scenario described in clause 5.[x].

Table x - life cycle assessment environmental characteristics

Characteristic	Unit	dimensions
climate change – total	kg CO ₂ eq.	M
climate change – fossil	kg CO ₂ eq.	M
climate change – biogenic	kg CO ₂ eq.	M
climate change - land use and land use change	kg CO ₂ eq.	M
ozone depletion	kg CFC 11 eq.	M
Acidification	mol H ⁺ eq.	N
eutrophication aquatic freshwater	kg P eq.	M
eutrophication aquatic marine	kg N eq.	M
eutrophication terrestrial	mol N eq.	N
photochemical ozone formation	kg NMVOC eq.	M
depletion of abiotic resources - minerals and metals	kg Sb eq.	M
depletion of abiotic resources - fossil fuels	MJ, net calorific value	ML2T-2
water use	m ³ world eq. deprived	L3
particulate matter emissions	Disease incidence	-
ionising radiation, human health	kBq U235 eq.	S-1
ecotoxicity (freshwater)	CTUe	M-1
human toxicity, cancer effects	CTUh	M-1

human toxicity, non- cancer effects	CTUh	M-1
land use related impacts / soil quality	Unitless	-

4.9.6.4 Resource use environmental essential characteristics

Resource use environmental essential characteristics correspond to the resource use indicators in EN 15804:2012+A2:2019. They shall be included as characteristics if included in the standardization request.

MODEL CLAUSE

4.x Resource use environmental characteristics

Characteristics in table [x] are related to the resource use over the life cycle of the product. When assessed in accordance with the method given in clause 5.[x], the results are expressed in scientific E notation as a value in the units included in table x for modules A1 to A3 and for each module and European harmonized scenario described in clause 5.[x].

Table [x] — Resource use environmental characteristics

Characteristic	unit	dimensions
use of renewable primary energy excluding renewable primary energy resources used as raw materials	MJ	ML2T-2
use of renewable primary energy resources used as raw materials	MJ	ML2T-2
total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	ML2T-2
use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ	ML2T-2
use of non-renewable primary energy resources used as raw materials	MJ	ML2T-2
total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	ML2T-2
use of secondary material	kg	M
use of renewable secondary fuels	MJ	ML2T-2
use of non-renewable secondary fuels	MJ	ML2T-2
net use of fresh water	m ³	L3

4.9.6.5 Waste environmental essential characteristics

Waste essential characteristics correspond to the waste indicators in EN 15804:2012+A2:2019. They shall be included as characteristics if included in the standardization request.

MODEL CLAUSE

4.x Waste environmental characteristics

Characteristics in table [x] are related to the waste produced over the life cycle of the product. When assessed in accordance with the method given in clause 5.[x], the results are expressed in scientific E notation as a value in the units included in table [x] for modules A1 to A3 and for each module and European harmonized scenario described in clause 5.[x].

Table [x] — Waste environmental characteristics

Characteristic	unit	Dimensions
hazardous waste disposed	kg	M
non-hazardous waste disposed	kg	M
radioactive waste disposed	kg	M

4.9.6.6 Output flows environmental essential characteristics

Output flows essential characteristics correspond to the output flows indicators in EN 15804:2012+A2:2019. They shall be included as characteristics if included in the standardization request.

MODEL CLAUSE

4.x Output flows environmental characteristics

Characteristics in table [x] are related to the output flows over the life cycle of the product. When assessed in accordance with the method given in clause 5.[x], the results are expressed in scientific E notation as a value in the units included in table [x] for modules A1 to A3 and for each module and European harmonized scenario described in clause 5.[x].

Table [x] — Output flows environmental characteristics

Characteristic	unit	dimensions
components for re-use	kg	M
materials for recycling	kg	M
materials for energy recovery	kg	M
exported energy	MJ	ML2T-2

4.9.6.7 Biogenic carbon content environmental essential characteristics

Biogenic carbon content essential characteristics correspond to the biogenic carbon content indicators in EN 15804:2012+A2:2019. They shall be included as characteristics if included in the standardization request. The characteristic shall be included for all products independently whether they contain biogenic carbon or not. The declaration of this essential characteristic in these cases should be *0.00E0* if assessed and declared, or *null* if not declared.

If the mass of biogenic carbon containing materials in the product is less than 5 % of the mass of the product, the declaration of biogenic carbon content may be declared as “null”.

NOTE Biogenic carbon content is only applicable to modules A1 to A3 so there is no need to refer to European harmonized scenarios in this clause.

MODEL CLAUSE

4.x Biogenic carbon content environmental characteristics

Characteristics in table [x] are related to the biogenic carbon content of the product. When assessed in accordance with the method given in clause 5.[x], the results are expressed in scientific E notation as a value in the units included in table [x] for modules A1 to A3.

Table [x] — biogenic carbon content environmental characteristics

Characteristic	unit	dimensions
biogenic carbon content in product	kg C	M
biogenic carbon content in accompanying packaging	kg C	M

4.10 Clause 5 “Sampling methods, testing and assessment”

4.10.1 General

All construction product characteristics included in clause “Characteristics” shall be assessed by testing, calculation, or tabulated values, to be given in clause “Sampling methods, testing and assessment”, choosing the less onerous method (see CEN-CENELEC Guide 17, 5.4.4). This can be given by a specific subclause here, or by reference to an ISO/IEC or CEN/CENELEC Standard (supporting standards).

Only one method of a particular type (test, calculation or tabulated value) should be referred to for the determination of each characteristic, for a given construction product or family of construction products.

If two or more assessment methods for the determination of one characteristic can be used and if a correlation between them exists, the relevant harmonized product standard shall then select one of them as the method of reference. Alternative methods to the reference method shall be more conservative than the reference method and only the values according to the reference method are declared.

In case the standardization request establishes different essential characteristics for the same performance differentiating them by the assessment method, they shall be linked to different characteristics and information about the method should be included in its name.

EXAMPLE

Impact sound insulation may be assessed by testing or by calculation. If both options are possible, they are included in the standardization request as different essential characteristics and shall also be included in Clause 4 “Characteristics” as different characteristics:

4.x Impact sound insulation - testing

4.x Impact sound insulation – calculation

4.10.2 Information to be provided for each assessment method

Test, assessment, calculation methods shall be written so that they can be used by anybody (first, second or third party) on any product sample.

Where applicable, this clause shall follow the provisions of the standardization request and shall define the following elements either in the clause or by reference to other standards:

- the applicable assessment method including details for sampling and test rig conditions.;
- the way to obtain individual values;
- in case more than one individual value is required for the assessment, the assessment result expressed as a statistical value and, when possible, as the percentile of the statistical distribution for a fixed confidence interval. Alternative approaches may be used where required;
- the rounding used to determine the assessment result, where relevant;
- the dimensions² of the assessment result and the unit. The unit shall be consistent with the information provided for the characteristic in Clause 4, with the assessment method and with the dimensions of the performance;
- where the assessment method is not suitable for use as part of the factory production control, this information shall be provided in 6.3.1.5 “Product testing and evaluation”, as described in 4.11.4 .

The assessment result obtained is used as a reference for the declared performance. However, the manufacturer may declare more conservative values than those resulting from the assessment.

EXAMPLE

5.x Characteristic compressive strength

Characteristic compressive strength shall be tested according to EN 12390-3:2019 using testing specimens according to EN 12390-1:2022.

The result derived from the assessment will correspond to the 5th percentile of the observed values following e.g. the log-normal distribution of the strength distribution, with a confidence interval of 95%. The resulting value should be rounded to the nearest integer to determine its classification.

The performance shall be expressed in dimensions ML-1T-2 and in unit MPa as a class according to table x.

In case the assessment method is not suitable to be used as part of the factory production control, a specific subclause shall be included providing the alternative assessment or check used as part of the factory production control in relation to this essential characteristic.

EXAMPLE

5.x Reaction to fire

...

Reaction for fire testing is not suitable as factory production control check for this product. The parameter to be verified as part of the factory production control check is the amount of constituents used in the production including organic materials and the assessment of the maximum content of organic content in the additives included in the mix.

4.10.3 Release/emission of dangerous substances related essential characteristics

4.10.3.1 General

In case essential characteristics related to release/emission of dangerous substances are included in the

² Dimensions refer to the physical dimensions according to the SI standard: time (T), length (L), mass (M), electric current (I), absolute temperature (K), amount of substance (N) and luminous intensity (J). Other physical quantities could be defined as the base quantities, as long as they form a linearly independent basis.

standardization request, the following rules apply.

4.10.3.2 Release to soil and ground water

Model clause to define the assessment method applicable to the essential characteristic release of [substance] to soil and ground water to be defined for each substance included in the standardization request.

MODEL CLAUSE

5.x Release of dangerous substances to soil and ground water

Release of dangerous substances to soil and ground water shall be tested according to EN 16637-2:2023 or EN 16637-3:2023 [select the applicable method] using testing specimens according to EN 16637-1:2024 and the following sampling methodology...

The result derived from the assessment will correspond to the median of the results observed in the tested samples, with a confidence interval of 95 %. The resulting value should be rounded to the nearest integer.

The performance shall be expressed in dimensions ML-2 and in unit mg/m².

4.10.3.3 Emissions to indoor air

Model clause to define the assessment method applicable to the essential characteristic emission of [substance] to indoor air to be defined for each substance included in the standardization request.

MODEL CLAUSE

5.x Release of dangerous substances to indoor air

Release of dangerous substances to indoor air shall be tested according to EN 16516:2017+A1:2020 using the following testing specimens and sampling methodology...

The result derived from the assessment will correspond to the median of the results observed in the tested samples, with a confidence interval of 95 %. The resulting value should be rounded to the nearest integer to determine its classification.

The performance shall be expressed in dimensions ML-3 and in unit mg/m³.

4.10.4 Environmental sustainability related essential characteristics

4.10.4.1 General

In case essential characteristics related to environmental sustainability are included in the standardization request, the following rules apply.

4.10.4.2 Reference service life

The standardization request will provide rules for the calculation of the reference service life which may be related to specific rules described in the harmonized standard and in the relevant c-PCR.

The assessment method shall acknowledge the default value(s) provided in the standardisation request, it shall explain the conditions under which the default value is valid, and it shall explain the technical solutions that could be used for extending the service life including other essential characteristics or tests that can demonstrate a better reference service life. The information may be provided as a reference to the relevant clause in the c-PCR.

As an alternative and only if set out in the standardization request, a fixed time shall be provided according to the relevant conditions as a single value or tabulated values.

MODEL CLAUSE (calculated)

5.x Reference service life

For products off-the shelf [Text to be removed if all products are off-the shelf], the reference service life shall be defined according to reference in-use conditions as defined in [applicable c-PCR]. The consistency with other characteristics related to the product with an influence on it shall be considered. [Complete with the relevant information about as regards other essential characteristics or test to be performed].

For custom-made products, the reference service life shall be defined according to [applicable c-PCR] and/or this document, considering the service life required in the project and the expected loads and exposure scenarios. The consistency with other characteristics related to the product with an influence on it shall be considered. [Text to be removed if not applicable]

The result derived from the assessment will correspond to minimum value determined (in case of more than one) rounded to the nearest integer.

The performance shall be expressed in dimensions T and in unit year.

MODEL CLAUSE (tabulated values)

5.x Reference service life

The reference service life shall be obtained from table [x] under the following conditions [describe the conditions under which the default reference service life is applicable] . The consistency with other characteristics related to the product with an influence on it shall be considered.

Table [x] — Reference service life environmental characteristics

Intended use/condition	Reference service life
[intended use/condition]	[XX] years
...	...

The performance shall be expressed in dimensions T and in unit year.

4.10.4.3 Life cycle assessment environmental essential characteristics

Model clause to define the assessment method applicable to the life cycle assessment environmental essential characteristics.

MODEL CLAUSE

5.x Life cycle assessment environmental characteristics

Life cycle assessment environmental characteristics shall be assessed according to EN 15804:2012+A2:2019, [applicable c-PCR] and the following... [complete with the necessary information when needed]

The results derived from the assessment will correspond to the results for each module and each European harmonized scenario, as described in [applicable c-PCR].

The performance shall be expressed in the dimensions and units included in table [reference to table in clause 4.9.6.3].

4.10.4.4 Resource use environmental essential characteristics

Model clause to define the assessment method applicable to the resource use environmental essential characteristics.

MODEL CLAUSE

5.x Resource use environmental characteristics

Resource use environmental characteristics shall be assessed according to EN 15804:2012+A2:2019, [applicable c-PCR] and the following... [complete with the necessary information]

The results derived from the assessment will correspond to the results for each module and each European harmonized scenario, as described in [applicable c-PCR].

The performance shall be expressed in the dimensions and units included in table [reference to table in clause 4.9.6.4].

4.10.4.5 Waste environmental essential characteristics

Model clause to define the assessment method applicable to the waste environmental essential characteristics.

MODEL CLAUSE

5.x Waste environmental characteristics

Waste environmental characteristics shall be assessed according to EN 15804:2012+A2:2019, [applicable c-PCR] and the following... [complete with the necessary information]

The results derived from the assessment will correspond to the results for each module and each European harmonized scenario, as described in [applicable c-PCR].

The performance shall be expressed in the dimensions and units included in table [\[reference to table in clause 4.9.6.5\]](#).

4.10.4.6 Output flows environmental essential characteristics

Model clause to define the assessment method applicable to the output flows environmental essential characteristics.

MODEL CLAUSE

5.x Output flows environmental characteristics

Waste environmental characteristics shall be assessed according to EN 15804:2012+A2:2019, [\[applicable c-PCR\]](#) and the following... [\[complete with the necessary information\]](#)

The results derived from the assessment will correspond to the results for each module and each European harmonized scenario, as described in [\[applicable c-PCR\]](#).

The performance shall be expressed in the dimensions and units included in table [\[reference to table in clause 4.9.6.6\]](#).

4.10.4.7 Biogenic carbon content environmental essential characteristics

Model clause to define the assessment method applicable to the biogenic carbon content environmental essential characteristics.

NOTE Biogenic carbon content is only applicable to modules A1 to A3 so there is no need to refer to European harmonized scenarios in this clause.

MODEL CLAUSE

5.x Biogenic carbon content environmental characteristics

Biogenic carbon content environmental characteristics shall be assessed according to EN 15804:2012+A2:2019, [\[applicable c-PCR\]](#) and the following... [\[complete with the necessary information\]](#)

In case the product is not made of materials containing biogenic carbon the value declared for the characteristic biogenic carbon content in product shall be 0. The same approach shall be used for the characteristic biogenic carbon content in accompanying packaging.

The results derived from the assessment will correspond to the results for modules A1 to A3 as described in [\[applicable c-PCR\]](#).

The performance shall be expressed in the dimensions and units included in table [\[reference to table in clause 4.9.6.7\]](#).

4.10.5 Exceptions to the provision of assessment methods

4.10.5.1 General

There are two exceptions in which references to testing, assessment, calculation, or tabulated values are not required.

4.10.5.2 Declaration without testing

References to testing, assessment, calculation, or tabulated values are not required when the harmonized standard includes provisions for declaring the performance in relation to a characteristic without the need for test/assessment/calculations because tabulated values or conventionally accepted performance apply in accordance with classification without testing established by European Commission delegated acts.

NOTE 1 In case declaration without testing applies to a characteristic, this information is provided in the relevant subclause in clause "Characteristics".

NOTE 2 In case declaration without further testing applies to a characteristic, the test method is relevant and the exception to provide an assessment method does not apply.

4.10.5.3 Declaration in attached documentation of the product (if applicable)

References to testing, assessment, calculation, or tabulated values are not required when the performances are not expressed as characteristics. This point is described in 4.9.1. The following model clause shall be included when the standardization request includes the need to provide documents in attachment to the declaration of performance and conformity including set of drawings and calculations. This clause should be the last in Clause 5 "Testing, assessment and sampling methods".

MODEL CLAUSE

5.x Performances in attached documentation of the product

5.x.1 General

In case the performance specified for the product in terms of structural behaviour, including fatigue resistance, earthquake resistance, explosion resistance, fire resistance and durability, [remove those which are never applicable] is expressed by referring to the respective production documentation or structural design calculations in a way not directly related to the characteristics of the product, appropriate methods and procedures for the determination of the geometrical data and materials used shall be established.

5.x.2 Off-the-shelf products

The assessment shall take into consideration usual load and exposure scenarios and calculations or tabulated values related to them, including durability assessment. The results may not reflect the real conditions in which the product is installed so they may require further verifications. In particular, the following elements shall be assessed when calculations or tabulated values are provided:

- [Add item(s) as required by the standardization request.]

5.x.3 Custom-made products

The assessment shall take into consideration the established load and exposure scenarios and calculations or tabulated values related to them, including durability assessment. In particular, the following elements shall be assessed in relation to the established conditions:

- [Add item(s) as required by the standardization request.]

When the result of the calculations or the applicable tabulated values are provided together with the loads and exposure scenarios only the following conditions apply:

- appropriateness of the calculation method and tabulated values applied to perform the calculation considering the applicable load and exposure scenario;
- validation of the input data as regards the materials and constituents and their characteristics;
- verification that the final product, manufacturing process and other established conditions are fulfilled.

Example

5.x Performances in attached documentation of the product

5.x.1 General

In case the performance specified for the product in terms of structural behaviour, including fatigue resistance, earthquake resistance, explosion resistance, fire resistance and durability is expressed by referring to the respective production documentation or structural design calculations in a way not directly related to the characteristics of the product, appropriate methods and procedures for the determination of the geometrical data and materials used shall be established.

5.x.2 Off-the-shelf products

The assessment shall take into consideration usual load and exposure scenarios and calculations or tabulated values related to them, including durability assessment. The results may not reflect the real conditions in which the product is installed so they may require further verifications. In particular, the following elements shall be assessed when calculations or tabulated values are provided:

- appropriateness of the calculation method and tabulated values applied to perform the calculation considering a usual load and exposure scenario;
- validation of the input data for the calculation or tabulated values including the materials and constituents and their characteristics;

- validation of the processing of data in relation to the calculation tool or tabulated value including the appropriateness of software used, if any;
- validation of the results of the assessment.

5.x.3 Custom-made products

The assessment shall take into consideration the established load and exposure scenarios and calculations or tabulated values related to them, including durability assessment. In particular, the following elements shall be assessed in relation to the established conditions:

- appropriateness of the calculation method and tabulated values applied to perform the calculation considering the applicable load and exposure scenario;
- validation of the input data for the calculation or tabulated values including the materials and constituents and their characteristics;
- validation of the processing of data in relation to the calculation tool or tabulated value, including the appropriateness of software used, if any;
- validation of the results of the assessment.

When the result of the calculations or the applicable tabulated values are provided together with the loads and exposure scenarios only the following conditions apply:

- appropriateness of the calculation method and tabulated values applied to perform the calculation considering the applicable load and exposure scenario;
- validation of the input data as regards the materials and constituents and their characteristics;
- verification that the final product, manufacturing process and other established conditions are fulfilled.

4.11 Clause 6 “Assessment and verification”

4.11.1 General

All candidate harmonized standards shall contain this clause, which sets out how the declared performances related to the essential characteristics of the products included in the candidate harmonized standard are assessed and declared.

The assessment and verification should be seen as a purely technical matter which is closely connected with a specific construction product and the way it is produced. It can and should be standardized for the benefit of comparability, and clauses on assessment and verification should be written in a normative way.

Any statements relating to the intervention of a third party (e.g. for certification of constancy of performance) shall not be included in any part of the candidate harmonized product standard. Any standard which seeks (other than in Annex ZA), either directly or indirectly, to make it a normative requirement that assessment and verification tasks are done by a third party will not be permitted.

Harmonized standards specifying characteristics for a product shall not contain normative references to quality management system requirements (e.g. EN ISO 9001, EN ISO 14000 or related series standards) or certification provisions.

The assignment of tasks to the notified bodies and the manufacturer is shown in Annex ZA, Table ZA.2.

4.11.2 Introductory clause

Model clause to define the general provisions related to the assessment and verification. Clause to be included in all harmonised standards.

MODEL CLAUSE

6 Assessment and verification

6.1 General

The technical details for the assessment and verification of the product performance comprise provisions with regards to:

- the assessment of the performance of the product carried out based on type-testing (including sampling of the items to be taken as representative of the type), type calculation or tabulated values or documentation describing the product [\[remove any assessment means not specified in the harmonized](#)

standard];

- the assessment of the performance of the product based on data collection for input values, assumptions and modelling;
- further assessment of the performance of the product carried out based on type-testing (including sampling of the items to be taken as representative of the type), type calculation or tabulated values or documentation describing the product [remove any assessment means not specified in the harmonized standard];
- the applicable factory production control;
- the drawing up of technical documentation containing proof of the process to obtain the performance.

4.11.3 Assessment of performance

Model clause to define the assessment of the performance. Clause to be included in all harmonised standards.

6.2 Assessment of performance

6.2.1 General

If the intention is to declare any performance related to characteristics included in this standard, this shall be carried out in accordance with Clause '4 Characteristics' based on:

- type-testing (including sampling of the items to be taken as representative of the type), type-calculation or tabulated values or documentation describing the product [remove any assessment means not specified in the harmonized standard];
- data collection for input values, assumptions and modelling for environmental sustainability.

[Paragraph to be included if essential characteristics related to components or constituents are included in the list of essential characteristics in the standardization request] If components or constituents already have their performance and documentation determined under other harmonized technical specifications or European assessment documents and bear the CE marking, they do not need re-assessment. This applies if the intended use and assessment methods of the current standard match those used for the components. The specifications of these components shall be documented.

Assessment previously performed in accordance with the provisions of this standard may be considered, provided that this assessment was performed to the same or a more rigorous conditions, under the same assessment and verification system on the same product or products of similar design, construction and functionality, such that the results are applicable to the product group .

In addition, the determination of the product performance shall be

- carried out for all characteristics included in the standard for which it is intended to declare the performance and for the attached documentation of the product:
 - on first application of this standard; or
 - at the beginning of the production of a new or modified product, unless a member of the same product group; or
 - at the beginning of a new or modified method of production, where the modification may affect the declared performance; or
 - in case the list of characterization factors for the environmental assessment of products is revised (only applicable to environmental sustainability characteristics).
- repeated for the relevant characteristics and attached documentation, if changes are made that have an effect on the product type which may result in a performance deviation from the declared performance for any characteristic or attached documentation, such as product design, raw materials and components used in production, suppliers, or production method or processes.

6.2.2 Assessment criteria

6.2.2.1 General

Different assessment approaches are applicable.

6.2.2.2 Specimens, , testing, calculation, tabulated values and assessment criteria

For characteristics not listed as environmental sustainability characteristics, the specimens to be assessed shall be in accordance with Table [x].

[In case the harmonized standard covers more than one product and intended use a different table shall be provided for each product and intended use]

Table [x] — Number of samples to be tested and assessment criteria

Characteristic	Clause	Number of samples/specimens	Assessment methods and criteria
[list of characteristics in Clause 4 "Characteristics" except characteristics related to environmental sustainability - one per row]	[subclause of Clause 4 referring to the characteristic in the first column]	[number of samples to be assessed]	[subclause of Clause 5 referring to assessment method and criteria applicable to the characteristic in the first column]

6.2.2.3 Modelling and assessment criteria for environmental sustainability characteristics

The modelling for environmental essential characteristics included in subclause [subclause including the list of essential characteristics related to environmental sustainability, see 4.9.6] shall be in accordance with subclause [subclause including the assessment method related to environmental sustainability, see 4.10.4].

6.2.2.4 Calculation and assessment criteria for performances provided in attached documentation [To be removed if performance is not provided in attached documentation]

Performances provided in attached documentation included in subclause [subclause including the performances provided in attached documentation, see 4.9.3.3] shall be in accordance with the provisions in this subclause.

6.2.3 Further assessment of the performance [To be included if AV system 1, 1+ or 3 apply]

When additional assessments are required, they shall also be carried out in accordance with Clause 4 'Characteristics' based on type-testing (including sampling of the items to be taken as representative of the type), type calculation or tabulated values or documentation describing the product [remove any assessment means not specified in the harmonized standard]. The specimens testing and assessment criteria shall be the same provided in 6.2.2.2.

6.2.4 Technical documentation

Technical documentation containing proof of the process to determine the performance shall be drawn up in accordance with Clause 4 'Characteristics' and the results obtained from the assessments performed in accordance with 6.2.2.

6.2.5 Definition of the product type and product category

The product type shall be identified and documented on the basis of the assessed performance and within the applicable product category.

4.11.4 Verification of performance**4.11.4.1 Common structure**

Model clause to define the verification of performance. Clause to be included in all harmonised standards.

6.3 Verification of performance**6.3.1 Factory production control (FPC) system****6.3.1.1 General**

An FPC system shall be established, documented, operated, and maintained to ensure that the products placed on the market comply with the declared performance in relation to the essential characteristics.

The FPC system shall consist of procedures, regular inspections, and tests and/or assessments and the use of the results to control raw and other incoming materials or components, equipment, the production process, and the product.

All the elements and provisions shall be documented in a systematic manner in the form of policies and procedures.

The responsibility, authority and the relationship between personnel that manages, performs, or verifies work affecting constancy of the performance of the product, shall be defined.

The qualification and competence (e.g. based on education, training, skills, or experience) of personnel performing tasks affecting the assessment and verification of constancy of performance of the product shall be recorded.

Documents defining the FPC system shall be drawn up and kept up to date. Documentation and procedures should be appropriate to the product and production process. The FPC system should achieve an appropriate level of confidence in the verification of performance of the product. This involves:

- a) the preparation of documented procedures and instructions relating to factory production control operations, in accordance with the technical specification to which reference is made;
- b) the effective implementation of these procedures and instructions;
- c) the recording of these operations and their results; and
- d) the use of these results to correct any deviations, correct the effects of such deviations, treat any resulting instances of non-constancy and, if necessary, revise the FPC system to rectify the cause of non-constancy of performance.

6.3.1.2 Equipment

6.3.1.2.1 Testing

All weighing, measuring, and testing equipment shall be checked, calibrated and regularly inspected according to documented procedures, frequencies and criteria.

[indicate any required check included in the standardization request in relation to this clause]

6.3.1.2.2 Production

All equipment used in the production process shall be regularly inspected and maintained to ensure use, wear or failure does not cause inconsistency in the production process. Inspections and maintenance shall be carried out and recorded in accordance with the procedures and the records retained for the period defined in the FPC procedures.

[indicate any required check included in the standardization request in relation to this clause]

6.3.1.3 Raw materials and components

The specifications of all incoming raw materials and components shall be documented, as well as the inspection scheme for ensuring their compliance.

[indicate any required check included in the standardization request in relation to this clause]

6.3.1.4 Traceability and marking

Individual [to be indicated if products, product batches or packages] shall be identifiable and traceable with regard to their place of production.

The procedures ensuring that processes related to affixing traceability codes and/or markings are inspected regularly shall be maintained.

[Indicate any required check included in the standardization request in relation to this clause]

Note: Traceability provisions relate to the construction product placed on the market and not to intermediate products used during manufacture.

The following clause shall include the factory production control assessments and evaluation. The information in each column correspond to the following:

- **Characteristic:** Each of the essential characteristics for the product and the intended use as listed in the standardization request.
- **Clause of this European standard related to essential characteristics:** The provisions under Clause 4 “Product Characteristics” included in the standard.
- **Assessment method:** The assessment method may be the same that as the assessment referred in Clause 5 for the essential characteristic if it can be performed as part of the FPC. In most of the cases, the assessment is not valid as FPC check so this column should refer to the parameter or check to be used as proxy for the relevant performance. In case the same parameter applies to more than one essential characteristic it should be repeated in all rows in which it is relevant.

- **Validation criteria:** Criteria to be used in the FPC to be considered valid. It shall be related to the previous column in the same row. In case multiple approaches are possible, the basic principles to be followed shall be described.
- **Recommended minimum number of samples:** In case the FPC is performed on samples, the number of samples to be assessed in every FPC.
- **Recommended minimum frequency of control:** Minimum frequency of verification as part of the FPC.

This clause shall not establish additional thresholds or conditions related to the manufacturing process.

This clause shall not establish unjustified burden in relation to non-series production, made to measure production, one-off production including the cases of low production volumes or small production lines or processes. The values shall be expressed in a way to prevent they are discriminatory for SMEs.

The table shall contain all required checks included in the standardization request in relation to the relevant characteristic.

6.3.2 Factory production control (FPC) system checks

6.3.2.1 General

Different FPC control check approaches are applicable.

6.3.2.2 FPC assessment and evaluation [this part needs to be made specific for each hEN]

For characteristics not listed as environmental sustainability characteristics, procedures to ensure that the performance in relation to the declared characteristics are maintained shall be established. The characteristics and the means of control are included in table [x]:

Table [x] — Factory production control

Characteristic	Clause	Assessment method	Validation criteria	Recommended minimum number of samples	Recommended minimum frequency of control
[list of characteristics in Clause 4 "Characteristics" except characteristics related to environmental sustainability - one per row]	[subclause of Clause 4 referring to the characteristic in the first column]	[characteristic, parameter or check and subclause of Clause 5 referring to it]	[validation criteria applicable in relation to the previous column and subclause of Clause 5 referring to it]	[number of samples to be assessed]	[minimum frequency of control at the factory]

6.3.2.3 FPC assessment and evaluation of environmental sustainability characteristics

For environmental sustainability characteristics, procedures to ensure that the performance in relation to the declared environmental sustainability characteristics included in subclause [subclause including the list of essential characteristics related to environmental sustainability, see] are maintained shall be established. The characteristics and the means of control are included in table [x]:

Table [x] — Factory production control environmental sustainability characteristics

Assessment method	Validation criteria	Recommended minimum frequency of control
[Assessment of variations in production including raw materials]	[Critical elements to be assessed as part of the FPC]	[minimum frequency of control at the factory]

[Indicate required checks included in the standardization request in relation to this clause, and the usual controls to ensure that the environmental performance does not deviate from the declared performance eg control of the energy consumption, control input materials...]

6.3.2.4 FPC assessment and evaluation in attached documentation [this part needs to be made specific for each hEN, if applicable]

For performances provided in attached documentation, procedures to ensure that the attached documentation

provided is maintained shall be established including, when applicable:

- geometrical characteristic, drawings and description of the materials used;
- structural behaviour;
- fatigue resistance;
- earthquake resistance;
- explosion resistance;
- fire resistance; and
- durability.

[Indicate any required check included in the standardization request in relation to this clause]

TO BE AVOIDED

table x - factory production control

Characteristic	Clause	Assessment method	Validation criteria	Recommended minimum number of samples	Recommended minimum frequency of control
<i>Carbon monoxide emission</i>	4.4.2	5.4.3	> declared value	1	every unit

Emissions of a stove is obtained in an initial assessment. Repeating the assessment for every unit manufactured is not a FPC valid approach. Verification of the geometry, materials and tightness of the combustion chamber would be an adequate FPC check in this case.

4.11.4.2 Environmental assessment validation

This clause shall always be included and is relevant to assessment and verification system 3+.

MODEL CLAUSE

6.4 Environmental sustainability assessment validation

Environmental sustainability assessment shall be validated. Validation shall include a review of the determination of the performance according to 6.2.2.3 for the environmental sustainability characteristics.

The records of input values and assumptions shall be reviewed to validate that they correspond to the product-type.

The correct application of EN 15804:2012+A2:2019+AC:2021, [applicable c-PCR] and the specific provisions in this standard shall be reviewed to validate that they are properly used.

The process and any software used for the assessment shall be reviewed to validate that the results are consistent and correct and provide conservative results in case of high variability of input values or modelling options.

4.11.4.2.1 Confirmation of product type and product category determination

This clause is only applicable if AVS system 1+, 1, 2+ or 3 are relevant to the product.

MODEL CLAUSE

6.5 Confirmation of product type and product category determination

It shall be verified that the product type has been correctly identified and documented in accordance with 6.2.5, that it is consistent with the assessed performance, and that it has been correctly assigned to the applicable product category.

4.11.4.3 Initial inspection of factory to validate environmental sustainability company specific data

This clause shall always be included and is relevant to AV systems which require confirmation of product type and product category determination

MODEL CLAUSE

6.6 Initial inspection of factory to validate environmental sustainability company specific data

Initial inspection of factory shall be carried out when the production process has been finalized and in operation. The factory documentation shall be assessed to verify that environmental sustainability company specific data is correct and representative.

During the inspection it shall be verified that all resources for the collection of environmental sustainability company – specific data in relation to the product characteristics to be declared by the manufacturer are in place and correctly implemented.

All locations where environmental sustainability company specific data is collected shall be inspected to verify that the above conditions are in place and implemented. If the environmental sustainability company specific data covers more than one product, production line or production process, and it is verified that the general provisions are fulfilled when assessing one product, production line or production process, the assessment of the general provisions does not need to be repeated when assessing the environmental sustainability company specific data for another product, production line or production process.

All assessments and their results shall be documented in the initial inspection report.

Initial inspection of a factory to validate environmental sustainability company specific data may be combined with other inspections of the same factory.

4.11.4.4 Content depending on the applicable assessment and verification system

4.11.4.4.1 Initial inspection of manufacturing plant and factory production control

This clause is only applicable if AVS systems 1+, 1 or 2+ are relevant to the product.

MODEL CLAUSE

6.7 Initial inspection of manufacturing plant and FPC

6.7.1 General

Initial inspection of manufacturing plant and of FPC shall be carried out when the production process has been finalized and in operation. The manufacturing plant and FPC documentation shall be assessed to verify that the provisions of 6.3.1 and 6.3.2.2 are fulfilled.

During the initial inspection it shall be verified:

- a) that all resources for the assessment of the performance in relation to the product characteristics to be declared by the manufacturer are in place and correctly implemented, and
- b) that the FPC-procedures in accordance with the FPC documentation are followed in practice.
- c) that the drawing of technical documentation contains proof of the process to obtain the performance.

All locations where production and/or FPC of the relevant product or of components of the relevant product is performed shall be assessed to verify that the above conditions a) and b) are in place and implemented. If the FPC system covers more than one product, production line or production process, and it is verified that the general provisions are fulfilled when assessing one product, production line or production process, the assessment of the general provisions does not need to be repeated when assessing the FPC for another product, production line or production process.

All assessments and their results shall be documented in the initial inspection report.

6.7.2 Performances in attached documentation of the product [To be removed if performance is not provided in attached documentation]

In case performances are provided in attached documentation according to subclause 6.2.2.4, during the initial inspection it shall be verified a documented FPC system in accordance with this European Standard is established, used and maintained, ensuring:

- a) the correct selection of representative samples;
- b) the correct determination of constituent product and material parameters as input for calculations, for the individual products manufactured;
- c) adequate equipment and competent personnel to perform correct calculations;
- d) that the calculation has been performed, that its basis is correct, and that the method, process and results used as a basis for determination of performances are adequately documented and registered;
- e) that only sufficiently documented and validated software and properly functioning computer equipment are used, and that adequate measures of data protection and integrity are in place, in the case of electronic processing and reporting.

4.11.4.4.2 Continuous surveillance of FPC

This clause is only applicable if AVS systems 1+, 1 or 2+ are relevant to the product.

MODEL CLAUSE

6.8 Continuous surveillance of FPC

Surveillance of the FPC shall be undertaken at least once per year. The surveillance of the FPC shall include a review of the FPC test plan(s) and production processes(s) for each product to determine if any changes have been made since the last assessment or surveillance.

Checks shall be made to ensure that the test plans are still correctly implemented, and that the production equipment and the FPC equipment are still correctly maintained, checked and, if necessary calibrated at appropriate time intervals.

Where relevant, the records of tests and measurement made during the production process and to finished products shall be reviewed to ensure that the values obtained still correspond with those values for the samples submitted to the determination of the product-type and that the correct actions have been taken for removing non-compliance.

4.11.4.4.3 Verification of the technical documentation

This clause shall always be included and is relevant to AVS systems which require verification of the technical documentation

MODEL CLAUSE

6.9 Verification of the technical documentation

It shall be verified that the technical documentation contains evidence of the process used to obtain the performance and the FPC procedures.

Where performances are provided in attached documentation in accordance with 6.2.2.4, it shall be verified that the procedures used to develop the attached documentation remain valid, are correctly applied, and are properly documented within the FPC system.

4.11.4.4.4 Audit testing of samples

This clause is only applicable if AVS system 1+ is relevant to the product.

MODEL CLAUSE

6.10 Audit-testing of samples

Audit samples shall be taken to check conformity with the performance.

Samples shall be selected at random for the products in question.

Audit testing shall be conducted for the characteristics in Table [x], insofar that performance is being declared

[In case the harmonized standard covers more than one product and intended use a different table shall be provided for each product and intended use]

Table [x] — Number of samples to be tested and assessment criteria for audit-testing

Characteristic	Clause	Number of samples	Required minimum	Assessment methods and audit-testing
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			frequency	criteria
[list of characteristics in Clause 4 "Characteristics" except characteristics related to environmental sustainability - one per row]	[subclause of Clause 4 referring to the characteristic in the first column]	[number of samples to be assessed]	[number of required minimum frequency]	[subclause of Clause 5 referring to assessment method and criteria applicable to the characteristic in the first column]

4.12 Clause 7 'Guidelines for the drawing up of general product information, instructions for use and safety information'

4.12.1 General

This clause provides guidance about the provision of general product information, instructions for use and safety information accompanying the product. The clause shall address all the elements included in the standardization request as regards the product. The list may be different for different products and is linked to the elements set out in Annex IV to Regulation (EU) 2024/3110. Elements not included in the standardization request may be addressed if considered relevant.

MODEL CLAUSE

7 Guidelines for the drawing up of general product information, instructions for use and safety information

7.1 General

The following provisions provide guidance on how general product information, instructions for use and safety information should be drawn up and delivered.

4.12.2 General product information

The following general product information shall be provided indicating the way to provide the information.

MODEL CLAUSE

7.2 General product information

7.2.1 Unique identification code of the product type

The unique identification code of the product type is to be provided.

NOTE The implementation of the Digital Product Passport System is expected to provide additional rules as regards the way to link the DoPC and this document.

7.2.2 Product description

- (a) **Declared uses:** The declared use should be consistent with the intended uses included in the scope.
Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].
- (b) **Intended users:** The product is intended to be used by [indicate required professional competence, if any or valid for consumers use].
Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].
- (c) **Conditions of uses:** The product should be used [indicate the conditions of uses, if any].
Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].
- (d) **Estimated average and minimum service life span for declared use (durability):** Information should be consistent with the reference service life [add information about the conditions under which the reference service life can be considered the average service life and the minimum service life under

which conditions].

Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].

- (e) **Main materials used:** The materials used should be included as follows [describe the way to provide this information, including, if any simplified approaches or codes to summarize this information].

Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].

EXAMPLE

7.2 General product information

7.2.1 Unique identification code of the product type

The unique identification code of the product type is provided in the CE marking.

NOTE The implementation of the Digital Product Passport System is expected to provide additional rules as regards the way to link the DoPC and this document.

7.2.2 Product description

- (a) **Declared uses:** The declared use should be consistent with the intended uses included in the scope.
Information should be provided in the attached documentation for all products.
- (b) **Main materials used:** Product designation code applicable to them together with the list of constituents of the product in percentage by mass. In case the cement is labelled as white cement, the information related to whiteness of the cement shall be provided.
Information should be provided in the packaging for products delivered in bags and containers and in the attached documentation for products delivered bulk.

4.12.3 Instruction for use and safety information

The following general product information shall be provided indicating the way to provide the information; only the applicable elements shall be included.

MODEL CLAUSE

7.3 Instruction for use and safety information

7.3.1 Safety during transport, installation, deinstallation, maintenance, deconstruction and demolition:

- (a) **potential risks of the product and any reasonably foreseeable misuse thereof**
[Description of the potential risks and foreseeable misuse].
Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].
- (b) **instructions for the assembly, installation and connection, including drawings, diagrams and, where relevant, the means of attachment to other products and parts of construction works;**
[Instructions indicated].
Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].
- (c) **instructions for operation and maintenance to be carried out safely, including the protective measures that should be taken during these operations;**
[Instructions indicated].
Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].

one or the other].

(d) if necessary, instructions for the training of the installers or operators;

[Instructions indicated].

Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].

(e) information on what to do in the event of product failure or accidents.

[Information indicated].

Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].

7.3.2 Compatibility and integration in systems or kits:

(a) compatibility with other materials or products, regardless of whether they are covered by this Regulation or not;

[Information as regards compatibility as indicated].

Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].

(b) electric and electro-magnetic compatibility;

[Information as regards compatibility as indicated].

Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].

(c) software compatibility;

[Information as regards compatibility as indicated].

Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].

(d) integration in systems or kits.

[Information as regards integration as indicated].

Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].

7.3.3 Maintenance needs with a view to maintaining the performance of the product during its service life span:

(a) description of the adjustment and maintenance operations that should be carried out by the users and the preventive maintenance measures that should be observed;

[Description of the maintenance operations].

Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].

(b) the type and frequency of the inspections and the maintenance required for reasons of safety and durability and, where appropriate, the parts subject to wear and the criteria for replacement;

[Type and frequency of inspections, maintenance and replacement].

Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].

(c) information on what to do in the event of product failure or accident.

[Information in case of failure or accident].

Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].

7.3.4 Safety during use:

- (a) **instructions on the protective measures to be taken by the user, including, where appropriate, the personal protective equipment to be provided;**

[Instructions and protective equipment indicated].

Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].

- (b) **instructions designed for the safe use of the product, including the protective measures that should be taken during its use;**

[Instructions and protective measures indicated].

Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].

- (c) **information on what to do in the event of product failure or accident during use.**

[Information in case of product failure or accident].

Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].

7.3.5 Training and other requirements necessarily to be fulfilled for safe use.

[Training required for safe use].

Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].

7.3.6 Risk mitigation possibilities going beyond points ZA.7.3.1 to ZA.7.3.2.

[Additional risk mitigation provisions].

Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].

7.3.7 Recommendations for a product's:

- (a) **repair;**

[Recommendations indicated].

Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].

- (b) **deinstallation;**

[Recommendations indicated].

Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].

- (c) **reuse;**

[Recommendations indicated].

Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].

(d) remanufacturing;

[Recommendations indicated].

Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].

(e) recycling;

[Recommendations indicated].

Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].

(f) safe deposit.

[Recommendations indicated].

Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].

7.3.8 Environmental performance**(a) climate change effects - total**

[repetition of the environmental performance according to specific rules].

Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].

(b) human toxicity, cancer

[repetition of the environmental performance according to specific rules].

Information should be engraved to the product / provided in the product / provided in the packaging / provided in the attached documentation [keep the applicable ones and the conditions, if any, to apply one or the other].

EXAMPLE**7.3 Instruction for use and safety information****7.3.1 Safety during transport, installation, deinstallation, maintenance, deconstruction and demolition:****(a) potential risks of the product and any reas****(b) onably foreseeable misuse thereof**

In case the product is delivered in a container (bag, bucket, etc.), the total weight of the package shall be visible to facilitate the enforcement of relevant workers protection rules.

Information should be provided in the packaging only for products delivered in bags and containers in a clear and visible way.

7.3.2 Compatibility and integration in systems or kits:

compatibility with other materials or products, regardless of whether they are covered by this Regulation or not;

Description of potential incompatibilities in the concrete/mortar mix such as the use of certain aggregates or other materials. In case the product requires the use of a nonconventional water/cement ratio, specific instructions about the optimal value and any additional considerations related to it.

Information should be provided in the attached documentation for all type of products.

integration in systems or kits.

Description of potential incompatibilities in the concrete/mortar mix such as the use of certain aggregates or other materials. In case the product requires the use of a nonconventional water/cement ratio, specific instructions about the optimal value and any additional considerations related to it.

Information should be provided in the attached documentation for all type of products.

7.3.3 Recommendations for a product's:

recycling;

Limitations for recycling of concrete and mortar made with the cement, if any.

Information should be provided in the attached documentation for all type of products.

7.3.4 Environmental performance

climate change effects - total

Performance of this essential characteristic for modules A1-A3 as an aggregated value in kg CO₂ eq. should be provided including the units.

Information should be provided in the packaging for products delivered in bags and containers and in the attached documentation for products delivered bulk.

human toxicity, cancer

Performance of this essential characteristic for modules A1-A3 as an aggregated value in CTUh should be provided including the units.

Information should be provided in the attached documentation for all products delivered.

4.13 Clause 8 “Marking, labelling and packaging”

When the standardization request includes the delivery of guidelines in the harmonized standard for the provision of general product information, instructions for use and safety information, this clause shall be included and present recommendations for the marking of the product. Specific rules in this regard are provided in the standardization request.

If necessary, the means of marking shall also be recommended.

NOTE Annex ZA.3 provides guidance about this documentation in relation to Regulation (EU) 2024/3110.

This element shall not specify or recommend marks of conformity.

MODEL CLAUSE

8. Marking, labelling and packaging

8.1 Documentation

[Product] shall be accompanied by documentation.

8.2 Marking (when relevant)

[Product] is recommended to be designated [describe the designation].

The designation is recommended to be provided as a marking [means of presentation of such marking, for example by the use of labels, stamps, colours, threads (in cables), as appropriate].

4.14 Normative annexes

The normative annexes, if required, shall be prepared according to Clause 20 of CEN-CENELEC IR - Part 3:2022.

Normative annexes give provisions additional to those in the body of the document. They can include additional information required to perform the assessment and declaration, e.g. assessment methods. Their presence is conditional. An annex's normative status (as opposed to informative - see 4.14) shall be made clear by the way in which it is referred to in the text, by an indication in the table of contents and under the heading of the annex.

5 Annex ZA (informative)

5.1 General

Annex ZA identifies the clauses of the standard which cover the assessment of the essential characteristics which are provided by the corresponding standardization request. It has to be taken into account by the manufacturer when drawing up the declaration of performance and conformity (DoPC) and affixing the CE marking to their product. Regulation (EU) 2024/3110 contains provisions for the DoPC and the CE marking.

Covered product(s), component(s), material(s), form(s), kits (as relevant) and the intended use(s) in Annex ZA shall be identical with the scope.

All essential characteristics in Annex ZA shall be identical with the essential characteristics listed in the standardization request and body of the standard.

Moreover, it specifies, where appropriate the assessment and verification systems of product(s) established by delegated acts adopted by the Commission, to which the concerned product needs to be submitted when the manufacturer is drawing up the DoPC and affixing the CE marking.

Only harmonized standards for construction products include Annex ZA. Supporting standards for construction products (e.g. test methods) do not include Annex ZA.

All candidate hEN shall contain Annex ZA drafted according to the following templates. The template shall not be modified by the Technical Bodies.

5.2 Title

TEMPLATE

Annex ZA
(informative)

Relationship of this European Standard with Regulation (EU) 2024/3110

(When applying this standard as a harmonized standard under Regulation (EU) 2024/3110, manufacturers and Member States are obliged by this regulation to use this Annex)

5.3 Scope and relevant characteristics

Annex ZA only covers products which are in the scope of the harmonized standard and thus its corresponding standardization request. It cannot cover products beyond the scope of the standard.

TEMPLATE

ZA.1 Scope and relevant characteristics

This European Standard has been prepared under standardization request [\[reference of the standardization request\]](#) given to CEN by the European Commission (EC) and the European Free Trade Association (EFTA).

When this European Standard is made mandatory by the Commission under Regulation (EU) 2024/3110, it shall be possible to use it as a basis for the establishment of the declaration of performance and conformity (DoPC) and the CE marking from the date of adoption of the implementing act making it mandatory.

Regulation (EU) 2024/3110 contains provisions for the DoPC, the CE marking and the provision of general product information, instructions for use and safety information.

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This clause of Annex ZA indicates, in its Tables ZA.1.1 to ZA.1.x, which products and intended uses Annex ZA covers. These shall be the same as those included in the standardization request and scope of the standard.

Tables ZA.1.1 to ZA.1.x, shall contain the relevant assessment and verification systems for the product, and for the intended use, by reference to the relevant delegated act adopted by the EC.

Where a product covered by the standard has different intended uses (with different characteristics), each of them shall be included in separated Tables ZA.1.1 to ZA.1.x.

Tables ZA.1.1 to ZA.1.x shall list all essential characteristics identified in the standardization request.

The information in each column correspond to the following:

- **Essential characteristic:** Each of the essential characteristics for the product and the intended use as included in the standardization request.
- **Clause:** The provisions under Clause 4 “Characteristics” included in the standard related to this essential characteristic.
- **Symbol:** Symbol of the essential characteristic, if applicable
- **Reference document:** Reference to the standard including the applicable assessment document according to Clause 5 “Testing, assessment and sampling methods” including the date. If the assessment method is available in the standard, include its reference.
- **Reference document clause:** Reference to the clause of the standard including the assessment method. Leave it empty if the full standard applies.
- **Quantity:** Quantity in which the performance is expressed according to Clause 4 “Characteristics”. In case it is a ratio or coefficient, include “ratio”, in case it is a text or description include “nominal”.
- **Unit:** Quantity in which the performance is expressed according to Clause 4 “Characteristics”. In case it is ratio, include unitless.
- **Value kind:** Include the relation according to Table 1

Table 1 — Value kind details

value kind	text	details
Class	class	performance of the product is expressed as a class
=	equal to	performance of the product is equal to the declared performance
>	greater than	performance of the product is greater than the declared performance
≥	greater than or equal to	performance of the product is greater than or equal to the declared performance
<	less than	performance of the product is less than the declared performance
≤	less than or equal to	performance of the product is less than or equal to the declared performance
String	description	performance is expressed as a text

- **Possible values:** Include the value “class” if applicable or leave it empty.
- **Boundary values:** Include the value “threshold” if applicable, “declared” is mandatory declaration applies or leave it empty in any other case.
- **AVS:** applicable assessment and verification system for the essential characteristic for the product and applicable the intended use, according to the delegated act adopted by the EC setting out the assessment and verification system.

NOTE The reference is not available when this guide was drafted but it is expected to be published in the OJEU before the end of 2025

- **Notes:** In this column, the notes included in the column 'Comments' of the table of essential characteristics in the standardization request should be mentioned (for example, mandatory declaration, limitations etc.)

Note: The declared values are not included in Tables ZA.1.1 to ZA.1.x because these tables only describe the structure of the data.

TEMPLATE

Table ZA.1.1 includes the essential characteristics related to [name of product A-n as given in the standardization request] for the intended use [intended use 1-n as given in the standardization request] and the applicable assessment and verification systems according to the delegated act adopted by the EC: [(EU) 2026/1310 of 11 June 2026] [(OJ L, 2026/1310, 28.8.2026)] .

Table ZA.1.1 — Relevant clauses for product [A-n] and intended use [1-n]

Essential characteristic	Clause	Symbol	Reference document	Reference document clause	Quantity	Unit	Value kind	Possible values	Boundary values	AVS	Notes
[name of essential characteristic 1 as given in the standardization request]	4.[x]	[symbol]	[EN...]	[X]	[X]	[unit]	[value kind]	[possible values]	[threshold/declared]	[X]	[note]
...	...	...	...	...	...	...	...	...	...		...

Dangerous substances essential characteristics can be added in Table ZA.1.1 or the following Table ZA.1.x can be added to list all dangerous substances essential characteristics and are applicable to all products and intended uses.

TEMPLATE

Table ZA.1.x — Relevant clauses for all products and intended uses related to dangerous substances

Essential characteristic	Clause	Symbol	Reference document	Reference document clause	Quantity	Unit	Value kind	Possible values	Boundary values	AVS	Notes
[name of essential characteristic 1 as given in the standardization request]	4.[x]	[symbol]	[EN...]	[X]	[X]	[unit]	[value kind]	[possible values]	[threshold/declared]	[X]	[note]
...	...	...	...	...	...	...	...	...	...		...

Table ZA.1.x shall list all environmental sustainability essential characteristics and are applicable to all products and intended uses. The reference service life may be an essential characteristic if included in the standardization request. In this case, the reference service life shall be included in the list of essential characteristics in the Annex ZA.

TEMPLATE

Table ZA.1.x — Relevant clauses for all products and intended uses related to environmental sustainability

Essential characteristic	Clause	Symbol	Reference document	Reference document clause	Quantity	Unit	Value kind	Possible values	Boundary values	AVS	Notes
reference service life [only if included in the standardization request]	4.[x]		EN15804:2012 +A2:2019/AC:2021		T	years	=			3+	
climate change - total	4.[x]	...	EN15804:2012 +A2:2019/AC:2021		M	kg CO ₂ eq.	≤			3+	
climate change - fossil	4.[x]		EN15804:2012 +A2:2019 /AC:2021		M	kg CO ₂ eq.	≤			3+	
climate change - biogenic	4.[x]		EN15804:2012 +A2:2019 /AC:2021		M	kg CO ₂ eq.	≤			3+	
climate change - land use and land use change	4.[x]		EN15804:2012 +A2:2019 /AC:2021		M	kg CO ₂ eq.	≤			3+	
ozone depletion	4.[x]		EN15804:2012 +A2:2019 /AC:2021		M	kg CFC 11 eq.	≤			3+	
Acidification	4.[x]		EN15804:2012 +A2:2019		N	mol H ⁺ eq.	≤			3+	

			/AC:2021								
eutrophication aquatic freshwater	4.[x]		EN15804:2012 +A2:2019 /AC:2021		M	kg P eq	≤			3+	
eutrophication aquatic marine	4.[x]		EN15804:2012 +A2:2019 /AC:2021		M	kg N eq.	≤			3+	
eutrophication terrestrial	4.[x]		EN15804:2012 +A2:2019 /AC:2021		N	mol N eq.	≤			3+	
photochemical ozone formation	4.[x]		EN15804:2012 +A2:2019 /AC:2021		M	kg NMVOC eq.	≤			3+	
depletion of abiotic resources - minerals and metals	4.[x]		EN15804:2012 +A2:2019 /AC:2021		M	kg Sb eq.	≤			3+	
depletion of abiotic resources - fossil fuels	4.[x]		EN15804:2012 +A2:2019 /AC:2021		ML2T-2	MJ, net calorific value	≤			3+	
water use	4.[x]		EN15804:2012 +A2:2019 /AC:2021		L3	m ³ world eq. deprived	≤			3+	
particulate matter emissions	4.[x]		EN15804:2012 +A2:2019 /AC:2021		-	Disease incidence	≤			3+	
ionising radiation, human health	4.[x]		EN15804:2012 +A2:2019 /AC:2021		S-1	kBq U235 eq.	≤			3+	
ecotoxicity (freshwater)	4.[x]		EN15804:2012 +A2:2019 /AC:2021		M-1	CTUe	≤			3+	
human toxicity,	4.[x]		EN15804:2012 +A2:2019		M-1	CTUh	≤			3+	

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cancer effects			/AC:2021								
human toxicity, non- cancer effects	4.[x]		EN15804:2012 +A2:2019 /AC:2021		M-1	CTUh	≤			3+	
land use related impacts / soil quality	4.[x]		EN15804:2012 +A2:2019 /AC:2021		-	Unitless	≤			3+	
use of renewable primary energy excluding renewable primary energy resources used as raw materials	4.[x]		EN15804:2012 +A2:2019 /AC:2021		ML2T-2	MJ	≤			3+	
use of renewable primary energy resources used as raw materials	4.[x]		EN15804:2012 +A2:2019 /AC:2021		ML2T-2	MJ	≤			3+	
total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	4.[x]		EN15804:2012 +A2:2019 /AC:2021		ML2T-2	MJ	≤			3+	
use of non- renewable primary energy excluding non- renewable primary energy resources used as raw materials	4.[x]		EN15804:2012 +A2:2019 /AC:2021		ML2T-2	MJ	≤			3+	
use of non- renewable primary energy resources used as	4.[x]		EN15804:2012 +A2:2019 /AC:2021		ML2T-2	MJ	≤			3+	

raw materials											
total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	4.[x]		EN15804:2012 +A2:2019 /AC:2021		ML2T-2	MJ	≤			3+	
use of secondary material	4.[x]		EN15804:2012 +A2:2019 /AC:2021		M	kg	≥			3+	
use of renewable secondary fuels	4.[x]		EN15804:2012 +A2:2019 /AC:2021		ML2T-2	MJ	≤			3+	
use of non-renewable secondary fuels	4.[x]		EN15804:2012 +A2:2019 /AC:2021		ML2T-2	MJ	≤			3+	
net use of fresh water	4.[x]		EN15804:2012 +A2:2019 /AC:2021		L3	m ³	≤			3+	
hazardous waste disposed	4.[x]		EN15804:2012 +A2:2019 /AC:2021			kg	≤			3+	
non-hazardous waste disposed	4.[x]		EN15804:2012 +A2:2019 /AC:2021		M	kg	≤			3+	
radioactive waste disposed	4.[x]		EN15804:2012 +A2:2019 /AC:2021		M	kg	≤			3+	
components for re-use	4.[x]		EN15804:2012 +A2:2019 /AC:2021		M	kg	≥			3+	

materials for recycling	4.[x]		EN15804:2012 +A2:2019 /AC:2021		M	kg	≥			3+	
materials for energy recovery	4.[x]		EN15804:2012 +A2:2019 /AC:2021		M	kg	≥			3+	
exported energy	4.[x]		EN15804:2012 +A2:2019 /AC:2021		ML2T-2	MJ	≥			3+	
biogenic carbon content in product	4.[x]		EN15804:2012 +A2:2019 /AC:2021		M	kg C	≥			3+	
biogenic carbon content in accompanying packaging	4.[x]		EN15804:2012 +A2:2019 /AC:2021		M	kg C	≥			3+	

NOTE Assessment and verification system 3+ is the default system applicable. In case a delegated act for the declaration of performance without testing is adopted, the assessment and verification system is 4 (not implemented for the moment).

5.4 Performances in attached documentation of the product (when relevant)

This clause shall only be included if the standardization request establishes performances to be provided in the attached documentation and for the performances included in the request. In this case the additional information to be provided in attachment to the declaration of performance and conformity is described in 4.9.3.3 and 4.10.5.3. In line with these provisions, the following paragraph shall be added:

TEMPLATE

Performance expressed by referring to the respective production documentation or structural design calculations according to clause [\[reference to the subclauses corresponding to 4.9.3.3 in this document\]](#) and assessed according to [\[reference to the subclauses corresponding to 4.10.5.3 in this document\]](#) shall be attached to the declaration of performance and conformity.

For all products, attached documents shall comprise a detailed set of drawings including nominal dimensions, tolerances and materials used.

For custom-made products, attached documents shall comprise the applicable load and exposure scenarios and calculations or tabulated values relevant to them (irrespective if they were provided by the customer or performed by the manufacturer), including durability assessment and the reference to the calculation methods, description of the exposure scenarios and any relevant additional information.

For off-the-shelf products, attached documents may comprise usual load and exposure scenarios and calculations or tabulated values relevant to them, including durability assessment, even if they do not reflect the applicable loads and exposures in which the product is used and the reference to the calculation methods, description of the exposure scenarios and any relevant additional information.

5.5 Assessment and verification systems

Annex ZA shall contain the following test as regards the applicable assessment and verification systems.

TEMPLATE

ZA.2 Assessment and verification systems

The assessment and verification systems applicable to [\[name of the construction products as given in the standardization request\]](#) as indicated in Table(s) ZA.1.1 to ZA.1.n, can be found in the delegated act adopted by the EC: [(EU) 2026/1310 of 11 June 2026] [(OJ L, 2026/1310, 28.8.2026)].

The assessment and verification systems of [\[name of the construction products as given in the standardization request\]](#) as provided in Tables ZA.1.1 to ZA.1.x is defined in Table ZA.2 resulting from application of the clauses of this European Standard. The content of the tasks assigned to the notified body shall be limited to those essential characteristics that the manufacturer intends to declare.

Table ZA.2 — Relevant clauses and entity in charge of performing assessment and verification systems' tasks

Clause	Assessment and verification task	AVS 1+	AVS 1	AVS 2+	AVS 3+	AVS 3	AVS 4
6.2.2.2	Specimens, testing, calculation, tabulated values and assessment criteria	notified body	notified body	Manufacturer	manufacturer	notified body	manufacturer
6.2.2.3	Modelling and assessment criteria for environmental sustainability characteristics	N/A	N/A	N/A	manufacturer	N/A	N/A
6.2.2.4	Calculation and assessment criteria for performances provided in attached documentation	notified body	notified body	Manufacturer	N/A	notified body	manufacturer
6.2.3	Further assessment of the performance	manufacturer	manufacturer	N/A	N/A	manufacturer	N/A
6.2.4	Technical documentation	manufacturer	manufacturer	Manufacturer	manufacturer	manufacturer	manufacturer
6.2.5	Definition of the product type and product category	manufacturer	manufacturer	Manufacturer	manufacturer	manufacturer	manufacturer
6.3.1	Factory production control (FPC) system	manufacturer	manufacturer	Manufacturer	manufacturer	manufacturer	manufacturer
6.3.2	Factory production control (FPC) system checks	manufacturer	manufacturer	Manufacturer	manufacturer	manufacturer	manufacturer
6.3.2.2	FPC assessment and evaluation	manufacturer	manufacturer	Manufacturer	manufacturer	manufacturer	manufacturer
6.3.2.3	FPC assessment and evaluation of environmental sustainability characteristics	N/A	N/A	N/A	manufacturer	N/A	N/A

6.3.2.4	PFC assessment and evaluation in attached documentation	manufacturer	manufacturer	Manufacturer	N/A	manufacturer	manufacturer
6.4	Environmental sustainability assessment validation	N/A	N/A	N/A	notified body	N/A	N/A
6.5	Confirmation of product type and product category determination	notified body	notified body	notified body	N/A	notified body	N/A
6.6	Initial inspection of factory to validate environmental sustainability company specific data	N/A	N/A	N/A	notified body	N/A	N/A
6.7	Initial inspection of manufacturing plant and FPC	notified body	notified body	notified body	N/A	N/A	N/A
6.8	Continuous surveillance of FPC	notified body	notified body	notified body	N/A	N/A	N/A
6.9	Verification of the technical documentation	notified body	notified body	notified body	N/A	N/A	N/A
6.10	Audit-testing of samples	notified body	N/A	N/A	N/A	N/A	N/A

[Remove the rows and columns not applicable (assessment and verification system not included in the previous tables)]

[Paragraph to be included if assessment and verification system 3 is included] Micro-enterprises are allowed to replace type-testing or type-calculation for essential characteristics under assessment and verification system 3, applying a simplified procedure with its conditions, as foreseen in Article 60 of Regulation (EU) 2024/3110.

5.6 Guidelines to ensure interoperability of the human- and machine-readable formats

5.6.1 General

This clause provides guidance about the digitalization of the declaration of performance and conformity (DoPC) and the general product information, instructions for use and safety information. The clause shall address all the elements included in the standardization request as regards this issue. Digitalization is linked to the elements set out in Annex V to Regulation (EU) 2024/3110. DoPC are digitalised as product data templates following the structure set out in this document. General product information, instructions for use and safety information are also digitalised as product data templates following the structure set out in Clause 8.

NOTE The implementation of the Digital Product Passport System is expected to provide additional rules regarding the way to digitalize the DoPC.

5.6.2 Structured format used (schema) and data template

A data template is a structured format used to standardize the way data is collected, organized, and shared. It defines the specific fields, data types, and relationships needed to describe an object or process consistently. The DoPC data template should contain predefined fields called properties for all necessary information required in the declarations as indicated in Annex V to Regulation (EU) 2024/3110. General product information, instructions for use and safety information is linked to Annex IV to Regulation (EU) 2024/3110 and Clause 8.

Data templates shall follow a unique structured format defined in these guidelines. Whilst some parts are common for all standards, part of it is specific for each

product covered by this standard. The data structure is developed according to this standard and will be available in the data dictionary for CPR-2024 together with the other properties required in the domain of CPR-2024 to facilitate the digitalization of the DoPC and the General product information, instructions for use and safety information for each product.

NOTE The European Commission is planning to implement the data dictionary for CPR-2024 when the first harmonized standards will be made mandatory. If the data dictionary does not include this information, a cross-check with the other standards under CPR-2024 is recommended.

MODEL CLAUSE

ZA.3 Guidelines to ensure interoperability of the human- and machine-readable formats

ZA.3.1 General

The following provisions provide guidance on the digitalization of the declaration of performance and conformity (DoPC) and the general product information, instructions for use and safety information. The data structures related to this standard are available in the data dictionary for CPR-2024 accessible through the following permalink [\[permalink to be created using a unique identifier of the standard e.g. work item number\]](#).

5.6.3 Declaration of performance and conformity

DoPC information is provided in properties which are grouped in accordance with the structure of Annex V to Regulation (EU) 2024/3110 as follows:

The structure of the data template starts referring to the applicable schema which is available in the data template and follows the groups numbered in the annex. Some groups only require basic properties whilst others will need additional definition of the properties to ensure interoperable declarations.

MODEL CLAUSE

ZA.3.2 Declaration of performance and conformity

ZA.3.2.1 Data template header

The data template header should be identified as a group of properties containing the information in Table ZA.3.2.1. It includes also the information related to the signature of the document:

Table ZA.3.2.1 — Data template header properties

Property	Symbol	Reference document	Reference document clause	Quantity	Unit	Value kind	Possible values	Boundary values	Notes
declaration code	null	http://data.europa.eu/eli/reg/2024/3110/oj	Annex V	nominal	unitless	Text	null	null	declaration code based on the unique identification code of the product type
Version	null	http://data.europa.eu/eli/reg/2024/3110/oj	Annex V	nominal	unitless	Text	null	null	version of the DoPC
date	null	http://data.europa.eu/	Annex V	date	unitless	Null	DD-MM-	null	date of the DoPC

		eli/reg/2024/3110/oj					YYYY		
place of signature	null	http://data.europa.eu/eli/reg/2024/3110/oj	Annex V	null	null	Text	string	null	place of signature
signatory	null	http://data.europa.eu/eli/reg/2024/3110/oj	Annex V	null	null	Text	string	null	signatory
signatory position	null	http://data.europa.eu/eli/reg/2024/3110/oj	Annex V	null	null	Text	string	null	signatory position
signature	null	http://data.europa.eu/eli/reg/2024/3110/oj	Annex V	nominal	unitless	String	null	null	digital signature of the document

ZA.3.2.2 Product description

The product description should be identified as a group of properties containing the information in Table ZA.3.2.2 [repeat the table for each product included in the scope]:

Table ZA.3.2.2 — Product description

Property	Symbol	Reference document	Reference document clause	Quantity	Unit	Value kind	Possible values	Boundary values	Notes
unique identification code of the product type	null	http://data.europa.eu/eli/reg/2024/3110/oj	Annex V	nominal	unitless	string	null	null	unique identification code of the product type
batch	null	http://data.europa.eu/eli/reg/2024/3110/oj	Annex V	nominal	unitless	string	null	null	series of batches or serial numbers for which this DoPC applies
product category	null	http://data.europa.eu/eli/reg/2024/3110/oj	Annex VII	nominal	unitless	string	[product category]	null	product category corresponding to this standard
declared uses of the product	null	[this product standard]	1	nominal	unitless	string	[valid declared uses]	null	possible declared uses within the applicable intended uses
[properties setting out the nominal dimensions/grading of the product - as many properties as needed]	[...]	[design values, reference document if the properties are defined in a document]	[...]	[...]	[...]	[...]	[...]	[...]	nominal dimensions and gradings should not be misunderstood as tolerances which will be included in the declared

									performance
[key parts - as many as needed]	null	[product standard for the key part]	[...]	nominal	unitless	string	null	null	unique identification code of the product type of the key part - repeat if needed
estimated service life for the declared use	null	[this product standard]	[...]	T	years	≥	integer	≥ 0	consistent with the reference service life environmental sustainability assessment
minimum service life for the declared use	null	[this product standard]	[...]	T	years	≥	integer	≥ 0	estimation of the minimum service life
[variant and description - as many as needed]	null	[product standard for the key part]	[...]	nominal	unitless	string	null	null	variants within the same product type and their description - repeat if needed
latest deinstallation date	null	http://data.europa.eu/eli/reg/2024/3110/oj	Annex V	date	unitless	null	DD-MM-YYYY	null	date of deinstallation of the product (used products only)
latest deinstallation place	null	[standard for geolocation]	[...]	[...]	[...]	[...]	[...]	[...]	place of deinstallation of the product (used products only)

ZA.3.2.3 Permalinks or data carriers

The permalinks or data carriers should be identified as a group of properties containing the information in Table ZA.3.2.3:

Table ZA.3.2.3 — Permalinks or data carriers

Property	Symbol	Reference document	Reference document clause	Quantity	Unit	Value kind	Possible values	Boundary values	Notes
manufacturer's product registrations in Union databases	null	ELI of the applicable regulation	Clause	nominal	unitless	string	URL	null	permalink/data carrier to the other applicable databases - repeat if needed
REACH information	null	http://data.europa.eu/eli/reg/2006/1907/oj	Clause	nominal	unitless	string	URL	null	permalink/data carrier to the information provided under REACH

									- repeat if needed
general product information, instructions for use and safety information	null	http://data.europa.eu/eli/reg/2024/3110/oj	Annex IV	nominal	unitless	string	URL	null	permalink/data carrier to the general product information, instructions for use and safety information

ZA.3.2.4 Manufacturer

Manufacturer information should be identified as a group of properties containing the information in Table ZA.3.2.4:

Table ZA.3.2.4 — Manufacturer

Property	Symbol	Reference document	Reference document clause	Quantity	Unit	Value kind	Possible values	Boundary values	Notes
name	null			null	null	text	string	null	Full legal name of the company
registered trade name	null			null	null	text	string	null	Official trademark name if different
registered place of business	null			null	null	text	string	null	Main headquarters location
postal address	null			null	null	text	string	null	Address for official correspondence
telephone	null			null	null	text	string	null	Include country and area code
email address	null			null	null	text	Email Format	null	Primary email for business communications
website	null			null	null	URI	URL Format	null	Official company website

ZA.3.2.5 Authorized representative

Authorized representative information should be identified as a group of properties containing the same information provided in Table ZA.3.2.4 but applicable to the authorized representative.

ZA.3.2.6 Notified body

Notified body information should be identified as a group of properties containing the same information provided in Table ZA.3.2.4 adding the property provided in Table ZA.3.2.5 but applicable to the notified body.

Table ZA.3.2.5 — Notified body

Property	Symbol	Reference document	Reference document clause	Quantity	Unit	Value kind	Possible values	Boundary values	Notes
identification number	null			null	null	text	string	null	string NB followed by a four numbers code provided when registered in NANDO

NOTE Technical assessment bodies are included in the template but do not apply to products in the harmonized zone. For consistency reasons, the same approach used for notified bodies apply to technical assessment bodies.

ZA.3.2.7 Reference to certificates or validation reports issued by notified bodies and TABs

These documents should be identified as a group of properties containing the information in Table ZA.3.2.6:

Table ZA.3.2.6 — Certificates or validation reports

Property	Symbol	Reference document	Reference document clause	Quantity	Unit	Value kind	Possible values	Boundary values	Notes
document reference	null	http://data.europa.eu/eli/reg/2024/3110/oj		nominal	unitless	text	null	null	references to the documents available in the technical documentation - repeat if needed

ZA.3.2.8 Technical reference documents

The product description should be identified as a group of properties containing the information in Table ZA.3.2.7:

Table ZA.3.2.7 — Technical reference document

Property	Symbol	Reference document	Reference document clause	Quantity	Unit	Value kind	Possible values	Boundary values	Notes
harmonized technical specification	null	http://data.europa.eu/eli/reg/2024/3110/oj	null	nominal	unitless	String	null	null	reference to this standard with date

NOTE European assessment documents are included in the template but do not apply to products in the harmonized zone. For consistency reasons, the same approach used for harmonized technical specifications apply to European assessment documents.

ZA.3.2.9 Declared performance and sustainability characteristics

The declared performance is obtained should be identified as a group of properties containing the information in Table ZA.1.x [repeat the tables for each product included in the scope] extracting the applicable columns and adding the AV system as additional element in the structure.

ZA.3.2.10 Applicable product requirements

A specific group of properties should be delivered in the relevant technical document setting out the requirements and the standards providing presumption of conformity with them, if any.

ZA.3.2.11 Declarations

Manufacturer information should be identified as a group of properties containing the information in Table ZA.3.11:

Table ZA.3.2.8 — Manufacturer

Property	Symbol	Reference document	Reference document clause	Quantity	Unit	Value kind	Possible values	Boundary values	Notes
the sustainability data of the product identified above have been correctly calculated on the basis of the product category rules applicable to it	null	http://data.europa.eu/eli/reg/2024/3110/oj	Annex V	null	null	string	compliant non-compliant	null	Reference to Annex V point 11(b) for the declarations
the product identified above is in conformity with the applicable requirements	null	http://data.europa.eu/eli/reg/2024/3110/oj	Annex V	null	null	string	compliant non-compliant N/A	null	Reference to Annex V point 11(b) for the declarations
Name	null	http://data.europa.eu/eli/reg/2024/3110/oj	Annex V	null	null	text	string	null	Name of the signatory
Function	null	http://data.europa.eu/eli/reg/2024/3110/oj	Annex V	null	null	text	string	null	Position of the signatory
Place	null	http://data.europa.eu/eli/reg/2024/3110/oj	Annex V	null	null	text	string	null	Place in which the signature took place
date of issue	null	http://data.europa.eu/eli/reg/2024/3110/oj	Annex V	null	null	text	string	date	Date of the signature
signature - type	null	http://data.europa.eu/eli/reg/2024/3110/oj	Annex V	null	null	text	string	null	Element of the digital signature

signature - algorithm	null	http://data.europa.eu/eli/reg/2024/3110/oj	Annex V	null	null	text	string	null	Element of the digital signature
signature - canonicalization	null	http://data.europa.eu/eli/reg/2024/3110/oj	Annex V	null	null	text	string	null	Element of the digital signature
signature - keyId	null	http://data.europa.eu/eli/reg/2024/3110/oj	Annex V	null	null	text	string	null	Element of the digital signature
signature - created	null	http://data.europa.eu/eli/reg/2024/3110/oj	Annex V	null	null	text	string	null	Element of the digital signature
signature - string	null	http://data.europa.eu/eli/reg/2024/3110/oj	Annex V	null	null	text	string	null	Digital signature

5.6.3 General product information, instructions for use and safety information

General product information, instructions for use and safety information is provided in properties which are grouped in accordance with the structure of Annex IV to Regulation (EU) 2024/3110 as follows:

The structure of the data template starts referring to the applicable schema which is available in the data template and follows the groups numbered in the annex. Some groups only require basic properties whilst others will need additional definition of the properties to ensure interoperable declarations.

The standard should include Table ZA.3.3 filling the information for each item to be digitalised in the attached documentation as indicated in Clause 7 of the standard (see 4.12).

MODEL CLAUSE

ZA.3.3 General product information, instructions for use and safety information

The information provided in Clause 7 should be structured in a data template in accordance with Table ZA.3.3:

Table ZA.3.3 — General product information, instructions for use and safety information data template

Property	Symbol	Reference document	Reference document clause	Quantity	Unit	Value kind	Possible values	Boundary values	Notes
[each item in clause 7]	[symbol]	[reference document]	[reference document clause]	[quantity]	[unit]	[value kind]	[possible values]	[boundary values]	[notes]

EXAMPLE

ZA.3.3 General product information, instructions for use and safety information

The information provided in Clause 7 should be structured in a data template in accordance with Table ZA.3.3:

Table ZA.3.3 — General product information, instructions for use and safety information data template

Property	Symbol	Reference document	Reference document clause	Quantity	Unit	Value kind	Possible values	Boundary values	Notes
declared uses of the product	null	[this product standard]	1	nominal	unitless	string	[valid declared uses]	null	possible declared uses within the applicable intended uses
designation code	CEM	[this product standard]	7.2.2	nominal	unitless	string	[valid values]	null	cement types expressed as CEM ###
minimum clinker content	K	[this product standard]	7.2.2	-	unitless	≥	number	null	minimum clinker content
maximum clinker content	K	[this product standard]	7.2.2	-	unitless	≤	number	null	maximum clinker content
minimum blast furnace slag content	S	[this product standard]	7.2.2	-	unitless	≥	number	null	minimum blast furnace slag content
maximum blast furnace slag content	S	[this product standard]	7.2.2	-	unitless	≤	number	Null	maximum blast furnace slag content
...									

5.7 Element “Bibliography”

The Bibliography, if required, shall be prepared according to Clause 21 of CEN-CENELEC IR - Part 3:2022. Only supporting documents not required to follow the provisions in the standard can be included in this clause.

EN ISO 9001 shall not be included in the Bibliography.

EXAMPLE

[1] ISO/IEC Directives and ISO Supplement. International Organization for Standardization, ©2004-2010 [viewed 2010-04-19].

Available from <http://www.iso.org/directives>

[2] Statutes and directives. International Electrotechnical Commission, ©2004-2010 [viewed 2011-02-09]. Available from http://www.iec.ch/members_experts/refdocs/

