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Interested committees:

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

English Version

Masonry products - Environmental product declarations
for masonry units - Product category rules complementary
to EN 15804:2012+A2:2019

Produit de maçonnerie - Déclarations
environnementales de produits relative aux éléments
de maçonnerie - Règles de définition des catégories de
produit complémentaires à l'EN 15804:2012+A2:2019

Mauerwerksprodukte - Umweltproduktdeklaration für
Mauersteine - Produktkategorienregeln ergänzend zu
EN 15804:2012+A2:2019

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 125.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

This draft European Standard was established by CEN in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (prEN 18192:2025) has been prepared by Technical Committee CEN/TC 125 “Masonry”, the secretariat of which is held by BSI.

This document is currently submitted to the CEN Enquiry.

Introduction

This document provides rules for environmental product declarations (EPD) for masonry units. It complements the core product category rules for all construction products and services given in EN 15804:2012+A2:2019, *Sustainability of construction works — Environmental product declarations — Core rules for the product category of construction products*.

This document provides additional rules for EPD of masonry units. It complements the core rules for all construction products and services as established in EN 15804:2012+A2:2019.

EPD information is expressed in information modules as defined in EN 15804:2012+A2:2019, which allow easy organization and expression of data packages throughout the life cycle of masonry units. The approach requires that the underlying data should be consistent, reproducible and comparable.

In line with EN 15804:2012+A2:2019, the EPD is expressed in a form that allows aggregation to provide complete information for buildings. This document does not deal with aggregation at the building level nor does this document describe the rules for applying EPD in a building assessment.

This document refers to and mirrors relevant parts of EN 16757:2022, *Sustainability of construction works — Environmental product declarations — Product Category Rules for concrete and concrete elements*, drafted to cover concrete products to CEN/TC 104 and precast concrete products to CEN/TC 229. In respect of the mechanism for re-carbonation of clay and cementitious masonry units, this document references and follows the calculation methodology of of EN 16757:2022 Annex G, G.2, '*CO₂ uptake by carbonation — Guidance on calculation*'.

The document deals with a limited number of quantifiable parameters as predefined in EN 15804:2012+A2:2019. Future revisions of EN 15804 may lead to the incorporation in this document of additional predetermined parameters. This document provides the means for developing an environmental declaration for masonry units in the context of the suite of standards that are intended to assess the sustainability of construction works.

This suite of standards includes:

- EN 15643, *Sustainability of construction works — Framework for assessment of buildings and civil engineering works*;
- EN 15978, *Sustainability of construction works — Assessment of environmental performance of buildings — Calculation methods*;
- EN 15804:2012+A2:2019, *Sustainability of construction works — Environmental product declaration — Core rules for the product category of construction products*;
- EN 15941, *Sustainability of construction works — Environmental product declarations — Data quality for the environmental assessment of products and construction works — Selection and use of data*;
- EN 15942, *Sustainability of construction works — Environmental product declarations — Communication format — Business to business*;
- CEN/TR 16970:2016, *Sustainability of construction works — Guidance for the implementation of EN 15804*;
- EN 17472 *Sustainability of construction works — Sustainability assessment of civil engineering works — Calculation methods*;
- EN 17672 *Sustainability of construction works — Environmental product declarations — Horizontal rules for business to consumer communication*; and

- EN 17680 *Sustainability of construction works — Evaluation of the potential for sustainable refurbishment of buildings.*

1 Scope

This document provides product category rules (PCR) guidance for the development of environmental declarations for masonry units according to EN 15804:2012+A2:2019.

This document defines the parameters to be reported, the EPD types (and life cycle stages) to be covered, the rules to be followed in order to generate life cycle inventories (LCI) and conduct life cycle impact assessments (LCIA), and the data quality to be used in the development of EPDs.

This document is also applicable to clay construction products manufactured with the same materials and using the same processes as clay masonry units,

In addition to the common parts of EN 15804:2012+A2:2019, this document:

- defines the system boundaries;
- defines the modelling and assessment of material-specific characteristics;
- defines allocation procedures for multi-output processes along the production chain;
- defines allocation procedures for reuse and recycling;
- includes the rules for calculating the LCI and the LCIA underlying the EPD;
- provides guidance/specific rules for the determination of the reference service life (RSL);
- gives guidance on the establishment of default scenarios; and
- gives guidance on default functional units for masonry products.

This document is intended to be used for cradle to gate, cradle to gate with options or cradle to grave assessments, when the intention is clearly stated in the system boundary description.

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.

EN 15804:2012+A2:2019, *Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 15804:2012+A2:2019 and the following apply.

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

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

3.1

end of waste status

certain specified waste which ceases to be waste after it has undergone a recycling or other recovery operation and complies with the following conditions:

- a) the substance or object is used for specific purposes;
- b) a market or demand exists for such a substance or object;
- c) the substance or object fulfils the technical requirements for the specific purposes and meets the existing legislation and standards applicable to products; and
- d) the use of the substance or object will not lead to overall adverse environmental or human health impacts

Note 1 to entry: Adapted from Directive 2008/98/EC 3.1.

3.2

aggregate

granular material of natural, manufactured, or recycled origin used in construction

[SOURCE: EN 12620:2002+A1:2008, X.X]

3.3

masonry unit

preformed component intended for use in masonry construction

[SOURCE: EN 771:2011+A1:2015, X.X]

3.4

clay masonry unit

masonry unit made from clay or other argillaceous materials with or without sand, fuel or other additives fired at a sufficiently high temperature to achieve a ceramic bond

[SOURCE: EN 771-1:2011+A1:2015, X.X]

3.5

calcium silicate masonry units

CSMU

masonry units made predominantly from lime and siliceous materials, hardened by high pressure steam

[SOURCE: EN 771-2:2011+A1:2015, X.X]

3.6

carbonation

carbon dioxide reaction with calcium and magnesium containing minerals to form carbonates

3.7

aggregate concrete masonry unit

masonry unit manufactured from cementitious binder, aggregates and water and which may contain admixtures and additions and colouring pigments and other materials incorporated or applied during or subsequent to unit manufacture

[SOURCE: EN 771-3:2011+A1:2015, X.X]

3.8**autoclaved aerated concrete masonry unit****AAC masonry unit**

masonry unit manufactured from hydraulic binders such as cement and/or lime, combined with siliceous based fine material, cell generating material and water and cured with high pressure steam in autoclaves

[SOURCE: EN 771-4:2011+A1:2015, X.X]

3.9**manufactured stone masonry unit**

facing masonry unit having at least one exposed face with a close structure formed from either one or two homogeneous mixtures of aggregate, cementitious binder and other materials moulded under pressure and/or vibration and with or without further processing, intended to resemble and be used as an alternative to natural stone

[SOURCE: EN 771-5:2011+A1:2015, X.X]

3.10**natural stone masonry unit**

masonry unit manufactured from natural stone

[SOURCE: EN 771-6:2011+A1:2015, X.X]

3.11**cement**

finely ground inorganic material which, when mixed with water, forms a paste that sets and hardens by means of hydration reactions and processes and which, after hardening, retains its strength and stability even under water

[SOURCE: EN 197-1:2011, X.X]

3.12**additives**

addition or admixture added during the mixing process in order to improve certain properties or to achieve special properties

[SOURCE: EN 206:2013+A2:2021, X.X]

3.13**quicklime**

air lime mainly in the oxide form which reacts exothermically on contact with water

Note 1 to entry: Quicklime is available in a range of sizes from lump to powder.

[SOURCE: EN 459-1:2015, X.X - Modified to remove term defined and add note to entry]

4 Symbols and abbreviated terms

For the purposes of this document, the symbols and abbreviations given in EN 15804:2012+A2:2019 and the following apply.

EOL	End of life
FU	Functional unit

DU	Declared unit
CSMU	Calcium silicate masonry unit
AAC	Autoclaved aerated concrete
c-PCR	Complementary product category rules

5 General aspects

5.1 Objective of the c-PCR

The objective of this c-PCR is to provide rules specific to masonry units for the application of EN 15804:2012+A2:2019. In addition to the objectives of EN 15804, this document aims to:

- define the parameters being declared collated and reported;
- describe which stages of a product's life cycle are considered in the EPD and which processes are to be included in the life cycle stages;
- define rules for the development of scenarios;
- communicate EPDs and environmental information about masonry units; and
- ensure that comparisons between construction products are only carried out in the context of their application in construction works.

NOTE This c-PCR enables transparency for the EPD-development for masonry units.

5.2 Types of EPD with respect to life cycle stages covered

For masonry units, the following type of EPD shall be declared: cradle to grave and module D (A, B, C and D). This declaration shall be based on a functional unit or a declared unit.

EN 15804:2012+A2:2019 applies.

5.3 Comparability of EPD for construction products

EN 15804:2012+A2:2019 applies.

5.4 Additional environmental information

5.4.1 General

EN 15804:2012+A2:2019 applies.

5.4.2 Additional impact indicators

In addition to the text in EN 15804:2012+A2:2019:

For clay masonry units, the additional environmental impact indicators shall be declared. This declaration shall be based on a functional unit or declared unit.

5.4.3 Additional information on carbon offset, carbon storage and delayed emission

EN 15804:2012+A2:2019 applies.

5.4.4 Additional Information not derived from LCA

EN 15804:2012+A2:2019 applies.

5.5 Ownership, responsibility and liability for the EPD

EN 15804:2012+A2:2019 applies.

5.6 Communication formats

EN 15804:2012+A2:2019 applies.

6 Product category rules for LCA

6.1 Product category

The product category referred to in this document includes masonry units conforming to EN 771-1 to EN 771-6.

6.2 Life cycle stages and their information modules to be included

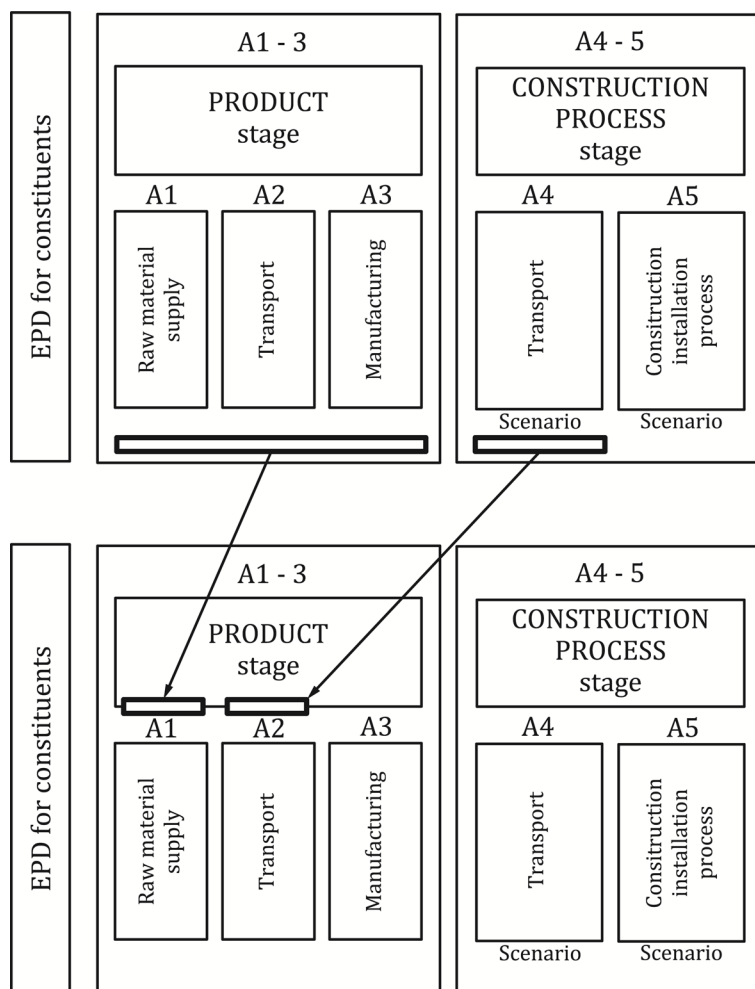
6.2.1 General

See 5.2.

6.2.2 A1-A3, Product stage, information modules

In addition to the text of EN 15804:2012+A2:2019:

When the full LCI of constituents is not available, impact indicators and aspects from the EPDs complying to EN 15804:2012+A2:2019 for the constituents, covering modules A1 to A3, can be used for the assessment of module A1 of the masonry unit. If transport is included, then the impacts and aspects covering modules A1 to A4 can be used for the assessment of modules A1 and A2 (see Figure 1).



NOTE For the use of aggregates in masonry units, when the EPD of aggregates is used, modules A1 to A3 of the aggregate EPD becomes part of modules A1 of masonry unit EPD and module A4 of aggregate EPD becomes part of modules A2 of masonry unit EPD if relevant and in accordance with the supply chain scenario.

Figure 1 — EPD for constituents (top) and for masonry units (bottom)

6.2.3 A4-A5, Construction process stage, information modules

EN 15804:2012+A2:2019 applies.

6.2.4 B1-B5, Use stage, information modules related to the building fabric

EN 15804:2012+A2:2019 applies.

NOTE Carbonation of masonry units takes place in module B1.

6.2.5 B6-B7, Use stage, information modules related to the operation of the building

EN 15804:2012+A2:2019 applies.

6.2.6 C1-C4, End-of-life stage, information modules

EN 15804:2012+A2:2019 applies.

NOTE Carbonation of masonry units can also take place in these modules.