SLOVENSKI STANDARD
SIST EN 17610:2022

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Stavbno okovje - Okoljske deklaracije za proizvode - Pravila za kategorije proizvodov, ki dopolnjujejo EN 15804 za stavbno okovje

Building hardware - Environmental product declarations - Product category rules complementary to EN 15804 for building hardware

Schlösser und Baubeschläge - Umweltproduktdeklarationen - Produktkategorieregeln in Ergänzung zu EN 15804 für Schlösser und Baubeschläge

Quincaillerie pour le bâtiment - Déclarations Environnementales de Produit - Règles de catégorie de produit complémentaires à l'EN 15804 pour la quincaillerie du bâtiment

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English Version

Building hardware - Environmental product declarations - Product category rules complementary to EN 15804 for building hardware

Quincaillerie pour le bâtiment - Déclarations Environnementales de Produit - Règles de catégorie de produit complémentaires à l'EN 15804 pour la quincaillerie du bâtiment

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This European Standard was approved by CEN on 13 June 2022.

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

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European foreword

This document (EN 17610:2022) has been prepared by Technical Committee CEN/TC 33 “Doors, windows, shutters, building hardware and curtain walling”, the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by February 2023, and conflicting national standards shall be withdrawn at the latest by February 2023.

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

The document is to be used in conjunction with EN 15804:2012+A2:2019.

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 website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations 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.

1 Scope

This document provides product category rules (PCR) for Type III environmental declarations for:

— Building hardware products for opening and closing doors, gates, windows and shutters:

  — Lever handles and knob furniture (EN 1906);

  — Single-axis hinges (EN 1935);

  — Hardware for windows and door height windows (EN 13126 (all parts));

  — Fittings for shutters (e.g. EN 14648);

  — Controlled door closing devices, electrically powered hold-open devices for swing doors and door coordinator devices (EN 1154, EN 1155, EN 1158);

  — Hardware for sliding doors, folding doors and roll fronts (EN 1527, EN 15706);

  — Glass door gear;

— Building hardware products for locking and unlocking doors, gates, windows and shutters:

  — Mechanically operated locks and locking plates, multipoint locks, latches and locking plates (EN 12209, EN 15685[1]);

  — Cylinders for locks (EN 1303);

  — Padlocks and padlock fittings (EN 12320);

  — Mechanically operated push-button locksets (BS 8607);

  — Emergency exit devices operated by a lever handle or push pad, for use on escape routes and panic exit devices operated by a horizontal bar, for use on escape routes (EN 179, EN 1125);

— Electromechanical building hardware products:

  — Mechatronic cylinders (EN 15684);

  — Mechatronic padlocks (EN 16864);

  — Mechatronic door furniture (EN 16867);

  — Electromechanically operated locks and striking plates (EN 14846);

  — Electrically controlled exit systems for use on escape routes (EN 13637).

This document complements the core rules for the product category of construction products as defined in the European standard EN 15804:2012+A2:2019.

NOTE The assessment of social and economic performances at product level is not covered by this document.

[1] Under preparation. Stage at the time of publication: prEN 15685:2022

The core PCR:

— defines the parameters to be declared and the way in which they are collated and reported;

— describes 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;

— defines rules for the development of scenarios;

— includes the rules for calculating the Life Cycle Inventory and the Life Cycle Impact Assessment underlying the EPD, including the specification of the data quality to be applied;

— includes the rules for reporting the predetermined, environmental and health information that is not covered by Life Cycle Assessment (LCA) for the product, construction process(es) and construction service(s), as relevant;

— defines the conditions under which construction products can be compared based on the information provided by EPD.

For the EPD of construction services the same rules and requirements apply as for the EPD of construction products.

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*

EN 1125, *Building hardware - Panic exit devices operated by a horizontal bar, for use on escape routes - Requirements and test methods*

EN 1154, *Building hardware - Controlled door closing devices - Requirements and test methods*

EN 1155, *Building hardware - Electrically powered hold-open devices for swing doors - Requirements and test methods*

EN 1158, *Building hardware - Door coordinator devices - Requirements and test methods*

EN 12209, *Building hardware - Mechanically operated locks and locking plates - Requirements and test methods*

EN 12320, *Building hardware - Padlocks and padlock fittings - Requirements and test methods*

EN 1303, *Building hardware - Cylinders for locks - Requirements and test methods*

EN 13126 (all parts), *Building hardware - Hardware for windows and door height windows - Requirements and test methods*

EN 14846, *Building hardware - Locks and latches - Electromechanically operated locks and striking plates - Requirements and test methods*

EN 1527, *Building hardware - Hardware for sliding doors and folding doors - Requirements and test methods*

EN 15706, *Hardware for furniture - Strength and durability of slide fittings for sliding doors and roll fronts*

EN 179, *Building hardware - Emergency exit devices operated by a lever handle or push pad, for use on escape routes - Requirements and test methods*

EN 1906, *Building hardware - Lever handles and knob furniture - Requirements and test methods*

EN 1935, *Building hardware - Single-axis hinges - Requirements and test methods*

EN 15684, *Building hardware - Mechatronic cylinders - Requirements and test methods*

EN 16864, *Building hardware - Mechatronic padlocks - Requirements and test methods*

EN 16867, *Building hardware - Mechatronic door furniture - Requirements and test methods*

EN 13637, *Building hardware - Electrically controlled exit systems for use on escape routes - Requirements and test methods*

EN 14648, *Building hardware - Fittings for shutters - Requirements and test methods*

BS 8607, *Mechanically operated push button locksets. Requirements and test methods*

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 terminological 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

3.1
building hardware
products mounted as part of doors, windows, gates, shutters providing operation, function and performance of these products

4 Abbreviations

For the purposes of this document, the following abbreviations apply.

ADPe	Abiotic depletion potential (elements)
ADPf	Abiotic depletion potential (fossil fuels)
AP	Acidification potential of soil and water
c-PCR	Complementary product category rules
EoL	End of Life
EP	Eutrophication potential

EPD	Environmental product declaration
GWP	Global warming potential
ODP	Depletion potential of the stratospheric ozone layer
POCP	Formation potential of tropospheric ozone
RSL	Reference service life

5 General aspects

5.1 Objective of the Core PCR

An EPD according to this document provides quantified environmental information for building hardware using a uniform and scientific basis. It also provides information on health-related emissions to indoor air, soil and water during the use stage of the building. The purpose of an EPD in the construction sector is to provide the basis for assessing building and other construction works, and identifying those which cause less stress to the environment.

Thus, the objective of this complementary PCR is to ensure:

— the provision of verifiable and consistent data for an EPD for building hardware, based on LCA;

— the provision of verifiable and consistent product related technical data or scenarios for the assessment of the environmental performance of buildings;

— the provision of verifiable and consistent product related technical data or scenarios potentially related to the health of users for the assessment of the performance of buildings;

— that comparisons between building hardware are carried out in the context of their application in the building;

— the consistent communication of the environmental information of building hardware.

Declarations based on this document are not comparative assertions.

NOTE See definition 3.4 in EN 15804:2012+A2:2019 and EN ISO 14044:2006, 5.3 for more information concerning LCA used for comparative assertion.

5.2 Types of EPD with respect to life cycle stages covered

As EN 15804:2012+A2:2019.

5.3 Comparability of EPD for construction products

As EN 15804:2012+A2:2019, in addition:

When comparing hardware products with different reference service lives, the reference study period for this comparison shall be the same.

5.4 Additional environmental information

5.4.1 General

As EN 15804:2012+A2:2019.

5.4.2 Additional impact indicators

As EN 15804:2012+A2:2019.

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

As EN 15804:2012+A2:2019.

5.4.4 Additional Information not derived from LCA

As EN 15804:2012+A2:2019.

5.5 Ownership, responsibility and liability for the EPD

As EN 15804:2012+A2:2019, in addition:

It shall be stated, which kind of EPD is created, e.g. an industry representative EPD (by an association) for a product group, a representative company specific EPD for a product group or a specific EPD for one product of a company.

When intending to use average or industry representative EPDs, ownership, responsibility and liability shall be clearly defined. A manufacturer intending to use average or industry representative EPDs for its products, he/she shall be authorized to do so by the organization (program operator) owning the original EPD.

5.6 Communication formats

As EN 15804:2012+A2:2019.

6 Product Category Rules for LCA

6.1 Product category

The product category referred to in this document includes building hardware listed in the scope of this document.

6.2 Life cycle stages and their information modules to be included

6.2.1 General

As EN 15804:2012+A2:2019.

6.2.2 A1-A3, Product stage, information modules

As EN 15804:2012+A2:2019.

6.2.3 A4-A5, Construction process stage, information modules

As EN 15804:2012+A2:2019.

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

As EN 15804:2012+A2:2019.

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

As EN 15804:2012+A2:2019.