SLOVENSKI STANDARD
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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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EUROPEAN STANDARD

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English Version

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

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

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European foreword

This document (FprEN 17610:2020) 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 document is currently submitted to the CEN Enquiry.

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:

— Door and window handles (EN 1906)

— Hinges (EN 1935)

— Window fittings (EN 13126)

— Shutter hardware devices (e.g. EN 14648)

— Door closers (incl. door coordinators) and hold open devices (EN 1154, EN 1155, EN 1158)

— Sliding door gear (EN 1527, EN 15706)

— Glass door gear

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

— Locks (EN 12209, EN 15685)

— Locking cylinders (EN 1303)

— Padlocks (EN 12320)

— Push button locks (BS 8607)

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

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

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 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*

CEN/TR 15941, *Sustainability of construction works — Environmental product declarations — Methodology for selection and use of generic data*

EN 15942, *Sustainability of construction works — Environmental product declarations — Communication format business-to-business*

EN ISO 14025, *Environmental labels and declarations — Type III environmental declarations — Principles and procedures (ISO 14025:2006)*

EN ISO 14044, *Environmental management — Life cycle assessment — Requirements and guidelines (ISO 14044:2006)*

ISO 15686-1, *Buildings and constructed assets — Service life planning — Part 1: General principles and framework*

ISO 15686-2, *Buildings and constructed assets — Service life planning — Part 2: Service life prediction procedures*

ISO 15686-7, *Buildings and constructed assets — Service life planning — Part 7: Performance evaluation for feedback of service life data from practice*

ISO 15686-8, *Buildings and constructed assets — Service-life planning — Part 8: Reference service life and service-life estimation*

International Reference Life Cycle Data System (ILCD) Handbook Nomenclature and other provisions

PEFCR Guidance document — *Guidance for the development of Product Environmental Footprint Category Rules (PEFCRs)*

ISO 21930:2017, *Sustainability in buildings and civil engineering works — Core rules for environmental product declarations of construction products and services*

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 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, *Building hardware — Hardware for windows and door height windows — Requirements and test methods — Part 1: Requirements common to all types of hardware*

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 15685, *Building hardware — Requirements and test methods — Multipoint locks, latches and locking plates — Characteristics 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*

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

3 Terms and definitions

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

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

— IEC Electropedia: available at http://www.electropedia.org/

— ISO Online browsing platform: available at https://www.iso.org/obp

3.1
additional technical information
information that forms part of the EPD by providing a basis for the development of scenarios

3.2
ancillary material
input material or product that is used by the unit process producing the product, but which does not constitute part of the product

[SOURCE: EN ISO 14040:2006]

3.3
average data
data representative of a product, product group or construction service, provided by one or more supplier

Note 1 to entry: The product group or construction service can contain similar products or construction services.

3.4
comparative assertion

environmental claim regarding the superiority or equivalence of one product versus a competing product that performs the same function

[SOURCE: EN ISO 14044:2006]

3.5
construction product
item manufactured or processed for incorporation in construction works

Note 1 to entry: Construction products are items supplied by a single responsible body.

Note 2 to entry: Adapted from the definition in ISO 6707-1:2004 according to the recommendation of ISO/TC 59/AHG Terminology.

[SOURCE: EN 15643-1:2010]

3.6
construction service
activity that supports the construction process or subsequent maintenance

3.7
co-product
any of two or more marketable materials, products or fuels from the same unit process, but which is not the object of the assessment

Note 1 to entry: Co-product, by-product and product have the same status and are used for identification of several distinguished flows of products from the same unit process. From co-product, by-product and product, waste is the only output to be distinguished as a non-product.

3.8
declared unit
quantity of a construction product for use as a reference unit in an EPD for an environmental declaration based on one or more information modules

EXAMPLE Mass (kg), volume (m^3).

Note 1 to entry: Adapted from the definition in ISO 21930:2017.

3.9
construction element
part of a construction containing a defined combination of products

3.10
environmental performance
performance related to environmental impacts and environmental aspects

[SOURCE: ISO 15392:2008]

[SOURCE: ISO 21931-1:2010]

3.11
functional equivalent
quantified functional requirements and/or technical requirements for a building or an assembled system (part of works) for use as a basis for comparison

Note 1 to entry: Adapted from the definition in ISO 21931-1:2010.

3.12
functional unit
quantified performance of a product system for use as a reference unit

[SOURCE: EN ISO 14040:2006]

3.13
information module
compilation of data to be used as a basis for a Type III environmental declaration covering a unit process or a combination of unit processes that are part of the life cycle of a product

[SOURCE: EN ISO 14025:2010]

3.14
life cycle assessment
LCA
compilation and evaluation of the inputs, outputs and the potential environmental impacts of a product system throughout its life cycle

[SOURCE: EN ISO 14044:2006]

3.15
life cycle inventory analysis
LCI
phase of life cycle assessment involving the compilation and quantification of inputs and outputs for a product throughout its life cycle

[SOURCE: EN ISO 14040:2006]

3.16
non-renewable energy
energy from sources which are not defined as renewable energy sources

3.17
non-renewable resource
resource that exists in a finite amount that cannot be replenished on a human time scale

[SOURCE: ISO 21930:2017]

3.18
performance
expression relating to the magnitude of a particular aspect of the object of consideration relative to specified requirements, objectives or targets

Note 1 to entry: Adapted from the definition in ISO 6707-1:2004 according to the draft recommendation of ISO/TC 59 Terminology.

3.19
product category
group of construction products that can fulfil equivalent functions

Note 1 to entry: Adapted from EN ISO 14025:2010.

3.20
product category rules
PCR
set of specific rules, requirements and guidelines for developing Type III environmental declarations for one or more product categories

[SOURCE: EN ISO 14025:2010]

3.21
complementary product category rules
c-PCR
product group specific or horizontal PCR, which provide additional compliant and non-contradictory requirements to EN 15804

Note 1 to entry: c-PCR are meant to be used together with EN 15804.

[SOURCE: CEN/TR 16970:2016]

3.22
product system
collection of unit processes with elementary and product flows, performing one or more defined functions, and which models the life cycle of a product

[SOURCE: EN ISO 14040:2006]

3.23
programme operator
body or bodies that conduct a Type III environmental declaration programme

Note 1 to entry: A program operator can be a company or a group of companies, industrial sector or trade association, public authorities or agencies, or an independent scientific body or other organization.

3.24
renewable energy
energy from renewable non-fossil sources

EXAMPLES Wind, solar, aerothermal, geothermal, hydrothermal and ocean energy, hydropower, biomass, landfill gas, sewage treatment plant gas and biogases

Note 1 to entry: Adapted from the definition in Directive 2009/28/EC.

3.25
renewable resource
resource that is grown, naturally replenished or naturally cleansed, on a human time scale

Note 1 to entry: A renewable resource is capable of being exhausted, but may last indefinitely with proper stewardship. Examples include: trees in forests, grasses in grassland, fertile soil.

Note 2 to entry: Activities that occur in the technosphere such as recycling are not considered natural replenishment or natural cleansing.

Note 3 to entry: In this context, human time scale refers to the typical life time of a human rather than the time humans have been in existence.

[SOURCE: ISO 21930:2017]

3.26
reference service life
RSL
service life of a construction product which is known 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

Note 1 to entry: The RSL is described as part of the functional unit and considered in the calculation of replacements at both the construction product level and construction works level (B4) and refurbishment (B5).

Note 2 to entry: The shorter acronym, RSL, is used as the preferred term in this document.

[SOURCE: ISO 21930:2017]

3.27
reference service life data
RSL data
information that includes the reference service life and any qualitative or quantitative data describing the validity of the reference service life

EXAMPLE Typical data describing the validity of the RSL include the description of the component (3.10) for which it applies, the reference in-use conditions under which it applies, and its quality.

[SOURCE: ISO 15686-8:2008]

3.28
scenario
collection of assumptions and information concerning an expected sequence of possible future events

3.29
secondary fuel
fuel recovered from previous use or from waste which substitutes primary fuels

Note 1 to entry: Processes providing a secondary fuel are considered from the point where the secondary fuel enters the system from the previous system.

Note 2 to entry: Any combustible material recovered from previous use or from waste from the previous product system and used as a fuel in a following system is a secondary fuel.

Note 3 to entry: Examples for primary fuels are: coal, natural gas, biomass, etc.

Note 4 to entry: Examples for secondary fuels recovered from previous use or as waste are: solvents, wood, tyres, oil, animal fats.

3.30
secondary material
material recovered from previous use or from waste which substitutes primary materials

Note 1 to entry: Secondary material is measured at the point where the secondary material enters the system from another system.

Note 2 to entry: Materials recovered from previous use or from waste from one product system and used as an input in another product system are secondary materials.

Note 3 to entry: Examples for secondary materials (to be measured at the system boundary) are recycled scrap metal, crushed concrete, glass cullet, recycled wood chips, recycled plastic.

3.31
specific data
data representative of a product, product group or construction service, provided by one supplier

3.32
third party
person or body that is recognized as being independent of the parties involved, as concerns the issues in question

Note 1 to entry: “Parties involved” are usually supplier (“first party”) and purchaser (“second party”) interests.

[SOURCE: EN ISO 14024:2000]

3.33
type III environmental declaration
environmental declaration providing quantified environmental data using predetermined parameters and, where relevant, additional environmental information

Note 1 to entry: The calculation of predetermined parameters is based on the ISO 14040 series of standards, which is made up of ISO 14040, and ISO 14044. The selection of the predetermined parameters is based on ISO 21930 (adapted from ISO 14025).