



SLOVENSKI STANDARD

SIST EN 16810:2017

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Netekstilne, tekstilne in laminirane talne obloge - Okoljske deklaracije za proizvode - Pravila za opredelitev vrste izdelka

Resilient, textile and laminate floor coverings - Environmental product declarations - Product category rules

Elastische, textile und Laminat-Bodenbeläge - Umwelt-Produktdeklarationen - Produktkategorieregeln

Revêtements de sol résilients, textiles et stratifiés - Déclarations environnementales des produits - Règles régissant les catégories de produits

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EUROPEAN STANDARD

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Resilient, textile and laminate floor coverings - Environmental product declarations - Product category rules

Revêtements de sol résilients, textiles et stratifiés -
Déclarations environnementales des produits - Règles
régissant les catégories de produits

Elastische, textile und Laminat-Bodenbeläge - Umwelt-
Produktdeklarationen - Produktkategorieregeln

This European Standard was approved by CEN on 13 February 2017.

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European foreword

This document (EN 16810:2017) has been prepared by Technical Committee CEN/TC 134 “Resilient, textile and laminate floor coverings”, the secretariat of which is held by NBN.

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of an identical text or by endorsement, at the latest by November 2017, and conflicting national standards shall be withdrawn at the latest by November 2017.

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Introduction

This European standard provides core product category rules for resilient, textile and laminate floor coverings. It is based on the principles laid down in EN 15804 and in EN ISO 14025 and modified to suit the specific needs of the product families addressed in the scope of this standard.

It provides a structure to ensure that all Environmental Product Declarations (EPD) for resilient, textile and laminate floor coverings processes are derived, verified and presented in a harmonized way.

An EPD communicates verifiable, accurate, non-misleading environmental information for products and their applications, thereby supporting scientifically based, fair choices and stimulating the potential for market driven continuous environmental improvement.

EPD information is expressed in information modules, which allow easy organization and expression of data packages throughout the life cycle of the product. The approach requires that the underlying data should be consistent, reproducible and comparable.

The EPD is expressed in a form that allows aggregation (addition) to provide complete information for buildings. This standard does not deal with aggregation at the building level nor does this standard describe the rules for applying EPD in a building assessment.

The standard deals with a limited number of quantifiable predetermined parameters. Future revisions may incorporate additional parameters.

This European Standard provides the means for developing a Type III environmental declaration of resilient, textile and laminate floor coverings.

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1 Scope

This European standard provides product category rules (PCR) for Type III environmental product declarations (EPD) for resilient, textile and laminate floor coverings.

This standard applies to the following types of floor coverings:

- resilient floor coverings manufactured from plastics, linoleum, cork or rubber, including loose-laid mats;
- textile floor coverings, including loose-laid mats, rugs and runners;
- laminate floor coverings;
- modular floating floor coverings panels;

An EPD may be developed for single or individual products, product groups and average products.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

CEN/TS 15398, *Resilient, textile and laminate floor coverings - Floor covering standard symbols - Complementary element*

EN 15804:2012+A1:2013, *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 16485, *Round and sawn timber - Environmental Product Declarations - Product category rules for wood and wood-based products for use in construction*

EN ISO 10874, *Resilient, textile and laminate floor coverings - Classification (ISO 10874)*

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

EN ISO 14044:2006, *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*

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

ISO 21930, *Sustainability in building construction — Environmental declaration of building products*

3 Terms and definitions

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

3.1 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]

3.2 average data

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

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

3.3 comparative assertion

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

[SOURCE: EN ISO 14040] <https://standards.iteh.ai/catalog/standards/sist/07fd2d34-1152-4e02-bc76-73a2fb75c33e/sist-en-16810-2017>

3.4 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.

3.5 declared unit

quantity of a floor covering for use as a reference unit in an EPD for an environmental declaration based on one or more information modules

Note 1 to entry: For floor coverings the declared unit is 1 m² of installed floor covering.

3.6 environmental performance

performance related to environmental impacts and environmental aspects

[SOURCE: ISO 15392 and ISO 21931-1]

3.7**functional unit**

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

[SOURCE: EN ISO 14040]

3.8**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]

3.9**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 14040]

3.10**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 (standards.iteh.ai)

[SOURCE: EN ISO 14040]

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3.11**manufacturer's declaration**

environmental product declaration (EPD) by a manufacturer:

- for a specific product from one plant or as an average from several plants or
- for an average product from one plant or as an average from several plants

Note 1 to entry: A reference product, which describes a specific (usually typical) product, can also be declared.

3.12**manufacturer's group declaration**

EPD for a specific or average product as an average from several manufacturers' plants

3.13**non-renewable energy**

energy from sources which are not defined as renewable energy sources

3.14**non-renewable resource**

resource that exists in a finite amount that cannot be replenished on a human time scale

[SOURCE: ISO 21930]

EN 16810:2017 (E)**3.15****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 according to the draft recommendation of ISO/TC 59 Terminology.

3.16**product category**

group of construction products that can fulfil equivalent functions

[SOURCE: EN ISO 14025, modified]

3.17**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]

3.18**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]

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3.19**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.

3.20**recycling**

diverting a discarded product or semi-finished product from waste and using it for the manufacture of a new product

3.21**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.

[SOURCE: Directive 2009/28/EC, modified]

3.22**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.

[SOURCE: ISO 21930]

3.23**reference service life****RSL**

service life of a construction product which is known to be expected under a particular set, i.e., a reference set, of in-use conditions and which may form the basis of estimating the service life under other in-use conditions

3.24**re-use**

re-use of processing waste in the same process that generated the waste

3.25**scenario**

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

3.26**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.

3.27**specific data**

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

3.28**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]

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EN 16810:2017 (E)**3.29****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).

3.30**upstream, downstream process**

process(s) that either precedes (upstream) or follows (downstream) a given life cycle stage

3.31**waste**

substance or object which the holder discards or intends or is required to discard

[SOURCE: European Waste Directive 2008/98/EC, modified]

3.32**unit process**

smallest element considered in the life cycle inventory analysis for which input and output data are quantified

[SOURCE: EN ISO 14040]

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3.33**biogenic**

produced in natural processes by living organisms but not fossilized or derived from fossil resources

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3.34**biogenic carbon**

carbon derived from biomass

4 Abbreviations

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

4.1**EPD**

Environmental product declaration

4.2**FCSS**

Floor covering standard symbol

4.3**LCA**

Life cycle assessment

4.4**LCI**

Life cycle inventory analysis

4.5**LCIA**

Life cycle impact assessment

4.6**PCR**

Product category rules

4.7**RSL**

Reference service life

5 General aspects**5.1 Objectives of product categorization rules**

An EPD according to this standard provides quantified environmental information on a harmonized and scientific basis. The purpose of an EPD for floor coverings in the construction sector is to provide the basis for assessing buildings and other construction works, and identifying those, which cause less stress to the environment.

Thus the objectives of a PCR for floor coverings are to ensure:

- the provision of verifiable and consistent data for an EPD, based on LCA;
- the provision of verifiable and consistent product related technical data and/or scenarios for the assessment of the environmental performance of buildings;
- the provision of verifiable and consistent product related technical data and/or scenarios potentially related to the health of users for the assessment of the performance of buildings;
- that comparisons between floor coverings are carried out in the context of their application in the building;
- the communication of the environmental information of floor coverings from business to consumer;

Declarations based on this standard are not comparative assertions.

NOTE See EN 15804:2012+A1:2013, Clause 3.4 and ISO 14044:2006, Clause 5.1 for more information concerning LCA used for comparative assertion.

5.2 EPD with respect to life cycle stages covered

The LCA based information in a business to consumer EPD shall cover the life cycle of a product according to the system boundary (see 6.3.5). For the products in this standard the EPD covers the product stage, installation into the building, the use stage (cleaning and maintenance) and the end-of-life and is said to be 'cradle to grave' and becomes an EPD of construction products based on a LCA, i.e. covering all information modules A1 to A5, B2, C1 to C4 and D. (see Table 1, the grey shaded stages don't apply for floor coverings)

Floor covering during its life time in the use stage has no environmental aspects and impacts during their normal (i.e. anticipated) use and is neither repaired, replaced or refurbished (other than at the end of life). As a result, floor coverings are not contributing to modules B1 and B3 to B7 which are set to be zero "0".

Module B2 is including provision of cleaning agent, energy and water consumption for the cleaning of the floor covering incl. wastewater treatment.