



# SLOVENSKI STANDARD SIST EN 18001:2025

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## Obešene fasade - Okoljske deklaracije za proizvode - Pravila kategorij za obešene fasade

Curtain walling - Environmental Product Declarations - Product category rules for curtain walling

Vorhangfassade - Umweltproduktdeklarationen - Produktkategorieregeln für Vorhangfassade

Façade rideau - Déclarations environnementales des produits - Règles de définition des catégories de produits pour façade rideau

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## Curtain walling - Environmental product declarations - Product category rules for curtain walling

Façade rideau - Déclarations environnementales des  
produits - Règles de définition des catégories de  
produits pour façade rideau

Vorhangfassaden - Umweltproduktdeklarationen -  
Produktkategorieregeln für Vorhangfassaden

This European Standard was approved by CEN on 25 November 2024.

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**EN 18001:2024 (E)****European foreword**

This document (EN 18001:2024) 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of an identical text or by endorsement, at the latest by June 2025, and conflicting national standards shall be withdrawn at the latest by June 2025.

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.

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.

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## Introduction

EN 15804:2012+A2:2019 provides core product category rules for all construction products and services. It provides a structure to ensure that all Environmental Product Declarations (EPD) of construction products, construction services and construction processes are derived, verified, and presented in a harmonized way.

This document provides complementary product category rules (c-PCR) for Type III Environmental Declarations (EPD) specifically for curtain walling.

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.

The standardization process has taken place in accordance with EN ISO 14025. All common issues for curtain walling are covered horizontally in order to minimize intra-sectorial deviations.

EPD information is expressed in information modules, which allow easy organization and expression of data packages throughout the lifecycle 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. Neither EN 15804:2012+A2:2019 nor this document deals with aggregation at the building level or describes the rules for applying EPD in building assessment.

This document deals with a limited number of quantifiable predetermined parameters as defined in EN 15804:2012+A2:2019. Future revisions may incorporate additional predetermined parameters.

This document provides the means for developing a Type III environmental declaration for curtain walling, thereby supplementing the suite of standards that are intended to assess the sustainability of construction works.

This series of standards includes:

- EN 15643, *Sustainability of construction works — Framework for assessment of buildings and civil engineering works*;
- EN 15804:2012+A2:2019, *Sustainability of construction works — Environmental product declarations — Core rules for the product category of construction products*;
- EN 15941, *Sustainability of construction works — Data quality for environmental assessment of products and construction work - Selection and use of data*;
- EN 15942, *Sustainability of construction works — Environmental product declarations — Communication formats: business to business*;
- EN 15978, *Sustainability of construction works — Assessment of environmental performance of buildings — Calculation method*.

**EN 18001:2024 (E)****1 Scope**

This document provides product category rules (PCR) for Type III environmental declarations for curtain walling as defined in EN 13830:2015+A1:2020, excluding openable infills. Openable infills are addressed in EN 17213:2020.

This document complements the core rules for the product category of construction products as defined in EN 15804:2012+A2:2019. This document complements EN 15804:2012+A2:2019 and does not replace it.

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.

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**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 13119:2016, *Curtain walling — Terminology*

EN 13830:2015+A1:2020, *Curtain walling — Product standard*

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

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

EN 17074, *Glass in building — Environmental product declaration — Product category rules for flat glass products*



### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 13830:2015+A1:2020, EN 13119:2016, EN 15804:2012+A2:2019 and the following 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/>

What in EN 13830:2015+A1:2020 and EN 13119:2016 is identified as “curtain walling”, in EN 15804:2012+A2:2019 is identified as “product”. Similarly, what in EN 13830:2015+A1:2020 and EN 13119:2016 is identified as “frame” (e.g. mullions and transoms) or “infill panels” (e.g. IGU) or “other parts”, in EN 15804:2012+A2:2019 is identified as “component”.

### 4 Symbols and abbreviated terms

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

BOM	Bill of materials
c-PCR	Complementary product category rules
EPD	Environmental product declaration
IGU	Insulated glass unit
LCA	Life cycle assessment
LCI	Life cycle inventory analysis
LCIA	Life cycle impact assessment
PCR	Product category rules
RSL	Reference service life

## 5 General aspects

### 5.1 Objective of this PCR

An EPD according to this document provides quantified environmental information for a curtain walling 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 curtain walling, based on LCA;
- the provision of verifiable and consistent product related technical data or scenarios for the assessment of the environmental performance of buildings;

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- 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 curtain walling are carried out in the context of their application in the building;
- the consistent communication of the environmental information of door sets and windows.

Declarations based on this document are not comparative assertions.

NOTE EN 15804:2012+A2:2019, 3.4 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**

EN 15804:2012+A2:2019 shall apply.

**5.3 Comparability of EPD for construction products**

EN 15804:2012+A2:2019 shall apply.

**5.4 Additional environmental information****5.4.1 General**

EN 15804:2012+A2:2019 shall apply.

**5.4.2 Additional impact indicators**

EN 15804:2012+A2:2019 shall apply.

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

EN 15804:2012+A2:2019 shall apply.

**5.4.4 Additional Information not derived from LCA**

EN 15804:2012+A2:2019 shall apply.

**5.5 Ownership, responsibility and liability for the EPD**

EN 15804:2012+A2:2019 shall apply with the following addition:

- it shall be stated which kind of EPD is created, e.g. company specific EPD or average EPD (e.g. by trade association). For information how to calculate different types of EPD, see EN 15804:2012+A2:2019, 6.3.7;
- when intending to use average EPDs, the manufacturer shall be authorized to do so within the document by the organization (program operator) responsible for the original EPD.

**5.6 Communication formats**

EN 15804:2012+A2:2019 and EN 15942 shall apply.

## 6 Product Category Rules for LCA

### 6.1 Product category

The product category referred to in this document includes curtain walling according to EN 13830:2015+A1:2020.

### 6.2 Life cycle stages and their information modules to be included

#### 6.2.1 General

EN 15804:2012+A2:2019 shall apply.

Informative default scenarios for transport, installation, use stage and end-of-life scenarios are developed in Annex G. Other scenarios may be developed.

#### 6.2.2 A1–A3, Product stage, information modules

EN 15804:2012+A2:2019 shall apply. Such stage shall include including provision of all materials, products and energy, as well as waste processing up to the end-of waste state, for which EN 15804:2012+A2:2019 shall also apply as outlined by Annex B.

#### 6.2.3 A4–A5, Construction process stage, information modules

EN 15804:2012+A2:2019 shall apply.

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

EN 15804:2012+A2:2019 shall apply.

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

EN 15804:2012+A2:2019 shall apply.

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

EN 15804:2012+A2:2019 shall apply.

#### 6.2.7 D, Benefits and loads beyond the system boundary, information modules

EN 15804:2012+A2:2019 shall apply.

### 6.3 Calculation rules for the LCA

#### 6.3.1 Functional or declared unit

EN 15804:2012+A2:2019 shall apply.

#### 6.3.2 Functional unit

##### 6.3.2.1 General

The functional unit shall be defined in accordance with the declared unit as derived in 6.3.3 and with a reference service life as derived in accordance with 6.3.4.

In order to facilitate building calculation, it is considered good practice to provide the technical characteristics for the product relevant for the use stage. For curtain walling this could be, e.g. thermal transmittance and radiation properties. If such characteristics are given, they shall be developed in accordance with the relevant product standard and they need to be considered in the context of the building.